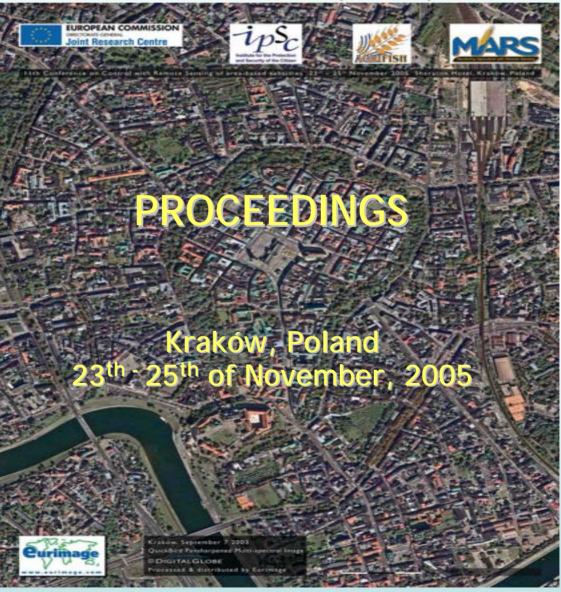




11th ANNUAL CONFERENCE ON CONTROL WITH REMOTE SENSING OF AREA-BASED SUBSIDIES

VOLUME 1
PLENARY SESSIONS (S1 - S4)











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11th Annual Conference on Control with Remote Sensing of Area-based Subsidies Kraków, Poland

23th - 25th of November, 2005



Volume 1

Plenary Sessions (S1 - S4)









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Jacques Delincé

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Jacques Delincé, Olivier Léo, Pär Åstrand

INTRODUCTION

The 11th yearly CwRS Conference on "Controls with Remote Sensing of area-based subsidies" was organized by the JRC (Institute for the Protection and Security of the Citizen, AGRIFISH Unit, MARS PAC) on 23-25 November 2006 in Kraków, Poland.

The Conference was organized in cooperation with the ARMA (Polish Paying Agency) and the Polish Ministry of Agriculture. It was held at the Sheraton Hotel, in Kraków.

For the first time part of the conference was successfully organized with five parallel sessions plus poster session. The number of the participants registered to the event was 309, representing 36 countries (EU25, AC (BG, RO), CCs (HR, TR), and representatives from Albania (AL), Serbia Montenegro (SCR), Kosovo (KS), Macedonia (MK), and Switzerland, Israel, USA.

Some registered participants (7%, mainly from PL) had to cancel their participation leading to a final number of 287 participants, which is a similar audience as last conference in Budapest. A specific agreement with DG ELARG (TAIEX office) allowed the participation of above mentioned representatives from the CARDs countries.



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An important point was the involvement of the D1 Unit of DG AGRI who accepted to (co) chair 2 sessions. DG AGRI was in all present with 6 participants. JRC (Public Relations and IPSC AgriFish Unit) participated with 13 staff.

The Conference in general gave input on the 2005 achievements, the new legislation, the problems and the solutions by the Member States, some approaches and considerations from the DG Agriculture, the technical progress, and the plans for 2006. Moreover, the EU, the MS Administrations, the Image Providers, and the contracting companies had a chance to meet each other and have discussions.

I sincerely believe it was an interesting event for all of us, and all of this in the beautiful city of Kraków; very rich in cultural heritage.

I would like to thank the Polish Ministry of Agriculture, and the whole ARMA staff for a very well co-hosted conference. It was a fruitful collaboration between two efficient teams and I think that the organisation of the conference was excellent.

For your information, these proceedings are divided into two volumes (Volume 1 and Volume 2): the 1^{st} one including all Plenary Sessions S1-S4, the 2^{nd} one including all Parallel Technical Sessions T1-T6 *).

Jacques Delincé, AGRIFISH Unit Head

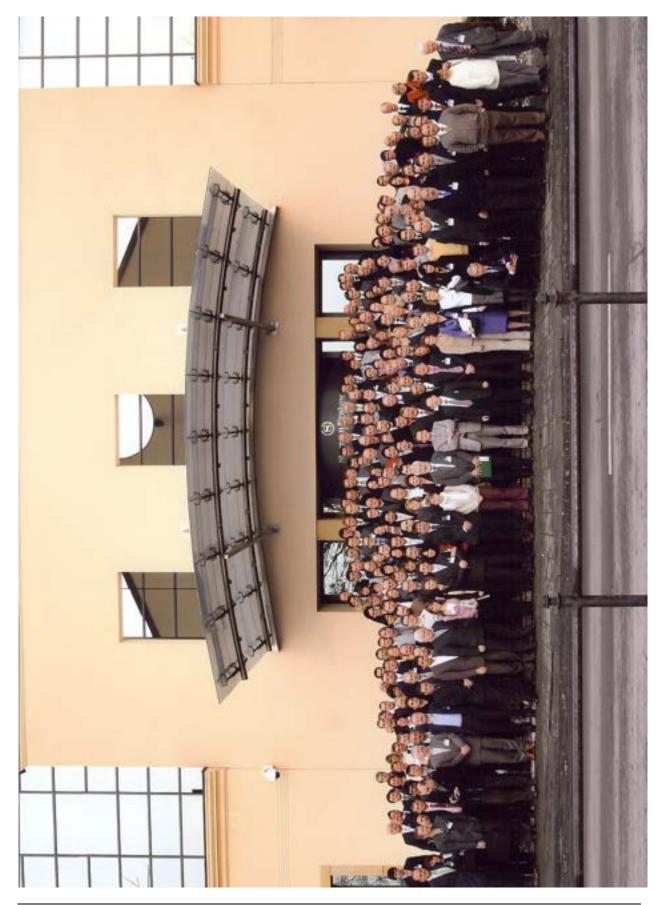
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^{*)} All abstracts, presentations, poster and software demonstrations are on the website: http://agrifish.jrc.it/marspac/cwrs/meetings/2005-11 kraków.htm and have also been published on CD ROM on April 2006. Please contact Pär Åstrand if you need any information.



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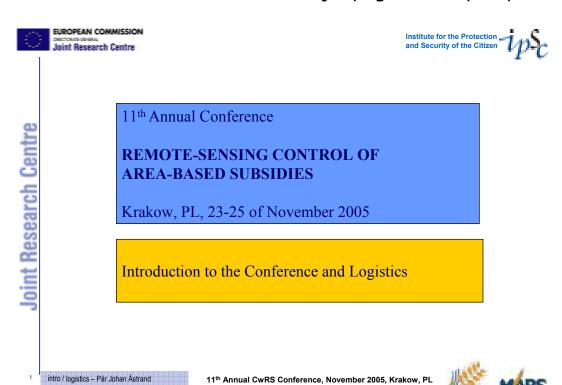
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INTRODUCTION TO THE CONFERENCE

Pär Åstrand - Coordinator of CwRS Project, Agrifish Unit, JRC, IPSC





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main themes of the Conference

- the CAP Reform in 2005, introducing the Single Payments Scheme (SPS)
 - adopted by 10/15 MS
- cross compliance rules with Good Agricultural and Environmental Conditions (GAEC)
 - applicable to all 25 MS
- the Single Area Payment Scheme (SAPs) (since 2004)
 - adopted by 8/10 MS
- IACS / GIS implementation, and parcel measurement/GPS techniques
- the CwRS Campaign 2005/2006
 - CwRS was performed by a total of 24/25 in 2005
 - VHR 2003 2004 2005 2006; 15,000 50,000 130,000 km2 with the MS requests for 140,000 km² in 2006
- the Enlargement continues

intro / logistics – Pär Johan Åstrand

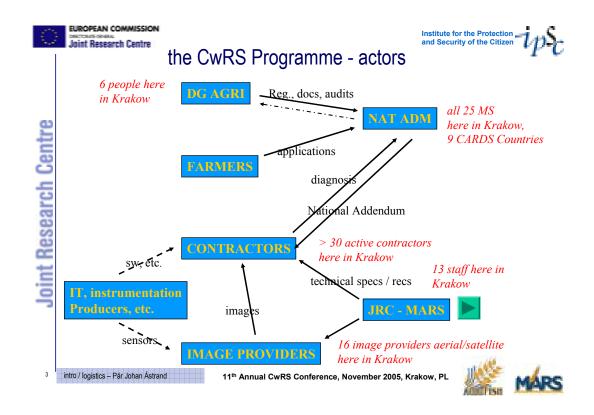






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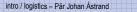


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participants

- 287 participants !!! (309 registered; 7% no-shows)
 - 115 (96), 126 (97), 140 (98), 135 (99), 174 (00), 160 (01), 160 (02), 216 (03)
 - introduced new event-registration system
- 43 Invited experts
 - EU25, CCs (BG, RO, HR, TR)
 - 2 Professors
- 19 Commission representatives
 - 6 DG-AGRI
 - 13 DG JRC MARS
- 36 countries total
 - Representatives from Albania (AL), Serbia Montenegro (SCR), Kosovo (KS), Macedonia (MK), and Switzerland, Israel, USA











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program – 10 sessions (introduction of parallel sessions)

- 1. S1 "Introduction & CAP Reform Implementation" (6 presentations) (chair J Podlewski) (translation 6/4)
- 2. S2 "Review of the 2005 CwRS Campaign" (chair P Åstrand) (5) (translation 6/4)
- 3. S3 "Restricted Session for MS National Administrations (chair JJ Jaffrelot) (translation 6/4)
- 4. T2 "Control of GAECs and other schemes" (chair Olivier Léo)(6)(translation 6/4)
- 5. S4 "2006 Campaign and Future Evolution" (chair J Delincé, JJ Jaffrelot)(4)(translation 6/4)
- 6. T1 "Remote Sensing, IACS GIS and Parcel measurement" (chair Miguel Miranda)(6)(EN only)
- 7. T3 "New Sensors and Image handling" (chair Tamme van der Wal)(7) (EN only)
- T4 "Image Acquisition and LIODOTNET" (P Åstrand)(6) (EN only)
- 9. T5 "Image Processing, CAPI and (IACS) GIS" (chair J Orlinska)(7) (EN only)

10. T6 - "poster" (x)

11th Annual CwRS Conference, November 2005, Krakow, PL







program - cont.

- 47+ presentations
- ≈ 30 posters (22 abstracts!)
- 6 sw presentations
- best poster /sw demo contest
 - see bags for voting rules
- · written proceedings
 - abstracts/PPTs soon on web







if you have not provided us with a digital copy of your presentation contact chairman of your session or Pär Åstrand a.s.a.p.











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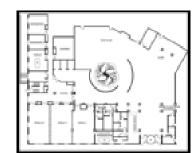
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logistics at the Krakow, Sheraton

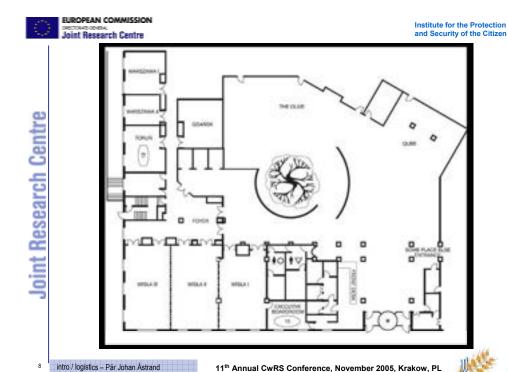
- parallel sessions
- all Sessions S1, S2, T2, S4 video transfer to GDANSK, WARSZAWA, TORUN and Board Meeting Room
- posters
- In rooms GDANSK, WARSZAWA, FOYER, and...
- sw demonstrations
 - GDANSK, number given by registration desk
 - 8 high-speed Internet connections (contact ARMA), PC available for browsing, printing etc.
 - 1 high-speed Internet connection in each lecture room for presenter (contact ARMA)
- lunches
 - · The Olive Restaurant, (show your lunch ticket)
- Ice breaker
 - Folkwark Zalesie Bus at 18.30 23/11
- gala dinner 24/11/2004
 - host ARMA Bus at 18.00 24/11
- sightseeing
 - Wednesday (23/11; 17.00), Friday (25/11;17.00), Saturday(27/11;whole day) (payment to ARMA, see stand in Afrium)



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logistics - translation

- translation
 - 6 languages in (spoken): EN, FR, DE, ES, IT, PL
 - 4 languages out: EN, FR, DE, PL
 - · please be careful with the equipment
 - Identity Card required for headphones
 - please do NOT talk with headphones on!
 - all Sessions S1,S2,S3,T2, and S4 translated
 - · Sessions S1,S2,T2, and S4 video transferred
- please, try to follow schedule

there should be the possibility to move from one session to another when a
presentation ends...

- please, switch off mobile phones





intro / logistics – Pär Johan Åstrand

11th Annual CwRS Conference, November 2005, Krakow, PL





logistics - reimbursement

- Administration Delegates from MS, invited experts (43)
 - please go to registration desk: <u>Nathalie</u>
 <u>MAGONETTE</u>, <u>Ulrike WINTER</u>
 - please bring your
 - pre-filled reimbursement and financial forms
 - ticket and BOARDING PASS (for copy)



intro / logistics – Pär Johan Åstrand





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SPONSORS - thank you!

- 1. Kongsberg Satellite Services lunch 23/11
- 2. European Space Imaging (EUSI) Ice breaker 23/11
- 3. Eurimage / DigitalGlobe / ImageSat lunch 24/11
- 4. SPOTImage lunch 25/11
 - all have small stands, posters, brochures, and here to give information...





intro / logistics – Pär Johan Åstrand

11th Annual CwRS Conference, November 2005, Krakow, PL









thank you also !!!

- to ARMA for hosting us in such a beautiful location Krakow
 - especially to Maciej²
 - Maciej Jamrozik
 - Maciej Ziemak







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the MARS CwRS Team









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the MARS CwRS Team



MARS WP 1: Control with Remote Sensing Pär ÅSTRAND

Hervé KERDILES

Mihaela FOTIN

QC, diagnostics rules, technical support MS /

Cherith ASPINALL

Philippe LOUDJANI

DG AGRI

HR image ordering, archive

Paolo PIZZIOL

HR/VHR image acq., statistics, technical support MS / DG AGRI

11th Annual CwRS Conference, November 2005, Krakow, PL

VHR image acq., site definition statistics, technical support MS / DG AGRI

Philippe BOUCHET new image ordering / archive system

CAP Action - Olivier LÉO

MARS Unit - Jacques DELINCÉ

IPSC - Institute for the Protection and Security of the Citizen



intro / logistics - Pär Johan Åstrand



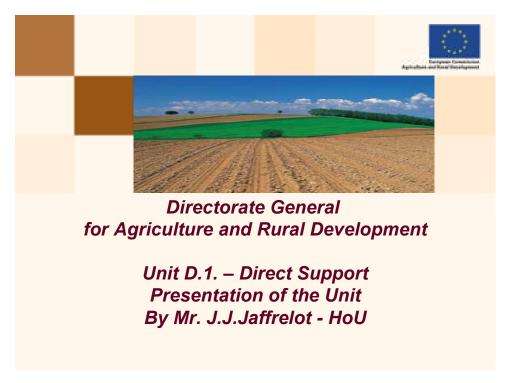




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INTRODUCTION TO THE CONFERENCE

Ansa Norman-Palmér, European Commission, DG AGRI D1







Content of this presentation

- D1 What do we do?
- D1 Who are we ?
- D1 What are our responsibilities ?
- D1 Our planning for the future ?
- D1 More information ?

2



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Unit D1 – What do we do? (1)

- Implementation the CAP Reform 2003 -2004
- Management of direct aid schemes representing around 35 billion euros/year distributed to 6 million farmers
- Responsible for the Management Committee for Direct Payments
- Support to the MS and monitoring of the implementation of the direct payments

3





Unit D1 – What do we do? (2)

- Manage the Regulations involved :
 - Council Regulation (EC) 1782/2003
 - Implementing Regulations: (EC) 795/2004 (SPS), 796/2004 (IACS), 1973/2004 (Direct payments other than SPS), 118/2005 (national budgetary ceilings)
- Support for the outermost regions and the small Aegean Sea Islands
- DG AGRI's contact with DG SANCO

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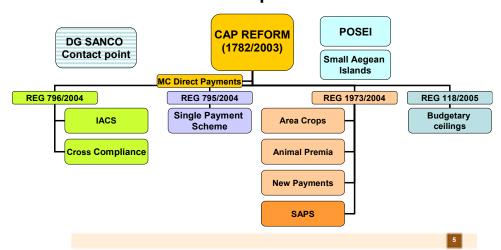


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Unit D1 Responsibilities







Overview of geographical desk officers in D1

- BE Dominique Lottefier
- CZ Pavel Povolny
- DK Ansa Norman Palmer
- Michael Pielke DE
- Tamas Bori EE
- EL Periklis Kairis
- ES Javier Maeztu Nieva
- FR Marc Osborne
- ΙE Willemien Boersma
- ΙT Aymeric Berling
- CY Vassiliki Tsilikas
- Tamas Bori LV
- Jesus Melero Martinez LT

- Paola Momoli LU
- HU Ivan Jozsef
- MT Renata Grochowska
- NL Willemien Boersma
- AT Manfred Prosenbauer
- PL Bart Strojwas
- PT Juan Alvarez de la Puente
- SL Roland Feral
- SK Pavel Povolny
- FΙ Carl Sterner
- SE Carl Sterner
- **UK** Periklis Kairis



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D1 – Planning for near future (AMP)

Cross Compliance experience gained Jan. 2006

Implementation of the sugar reform Begin 2006

Decisions authorising Complementary Begin 2006
 National Direct Payments

Amending Regulation (EC) No 118/2005 2006

Report on aid for energy crops
 End 2006

Reform Fruit & Vegetables
 End 2006

Reform WineEnd 2006

Rules related to Farm Advisory System 2006

Report Cross Compliance
 End 2007





AGRI.D.1 - More information

European Commission DG AGRI Website:

http://europa.eu.int/comm/agriculture/markets/sfp/index en.htm

Unit D1 ELECTRONIC MAILBOX:

AGRI-DIRECT-SUPPORT@cec.eu.int

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SESSION 1 – Introduction & CAP Reform Implementation

Chairman: Jacek Podlewski ARMA, PL



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Presentation 1 – CAP implementation in Poland, SAPS

Jacek Podlewski Agency for Restructuring and Modernisation of Agriculture (ARMA), PL

Abstract

Presentation will shed light onto Polish agricultural statistics including the number of potential applicants, average area of agricultural farms. Having presented basic agricultural data the presentation will then move onto the accreditation process of ARMA with special attention drawn to practical aspects of the process itself. Moreover information on the organizational structure of ARMA in the light of its new responsibilities will be presented. The lecture will be finished off by an overview of CAP mechanisms administered by ARMA.

Keywords: agri-statistics, accreditation, organizational structure, CAP, SAPS.



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Implementation of Common
Agricultural Policy
and
Single Area Payment Scheme



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Characteristics of holdings in Poland – statistical data

- Number of holdings 1,956,141
- Area of agricultural land 16,502,771
- Average holding area 8.44 ha

Number of holdings in voivodships



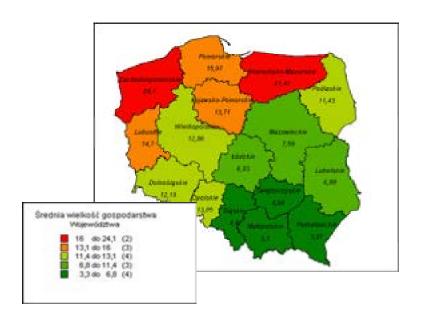




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Average area of holdings in voivodships







Number of applications submitted in 2004 and 2005

YEAR	number of registered agricultural producers	number of submitted applications
2004	1,646,710	1,399,819
2005	1,777,713	1,485,833



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Preparations for the implementation of CAP instruments

- Information and promotion actions for farmers were carried out in the period 15.10.2003 – 30.06.2004
- ARMA organized 40,327 meetings throughout Poland (in addition, 24,622 complementary meetings were held during application submission period)
 -1,059,471 farmers participated in the meetings
- ARMA printed 4 million information brochures and over 300 thousand posters
- 303 television spots were broadcast
- ARMA activities were discussed in many radio programmes, articles in national, regional and local press



Accreditation of the Paying Agency

ARMA has currently a conditional accreditation for the following tasks under Common Agricultural Policy:

- Direct payments to agricultural land
- · Mechanisms within the market of fruit and vegetable products
- · Mechanisms within the fruit and vegetable market
- RDP
- Common Fisheries Policy



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Organization structure of ARMA – 3 administration levels



ARMA Headquarters

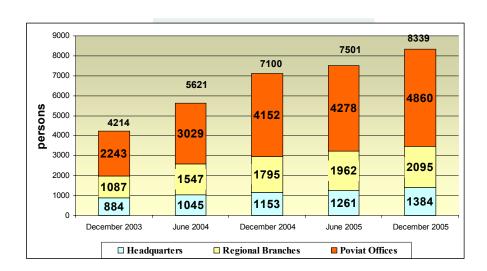
Regional Branches of ARMA in every voivodship (16)

Poviat offices – in every poviat, excluding towns and cities functioning as poviats (314)



Employment structure in ARMA







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System of direct payments in Poland

Single Area Payment (SAP):

Complementary Area Payment (CAP)

may increase SAP up to the amount of:

- in 2004 55% (36%)
- in 2005 60% (39%)
- in 2006 65% (42%)
 - of payment whereto EU farmers are currently entitled

in 2005 – 30%
 in 2006 – 35%
 of payment whereto EU

farmers are currently entitled

in 2004 - 25%



Direct payments in Poland in 2004 r.

- Single Area Payment (basic) to agricultural land in good agricultural condition arable land, permanent pastures, multiannual plantations, kitchen gardens
- Complementary payments four sectors:
 - tobacco (AMA)
 - starch potatoes (AMA)
 - hon
 - other plants (cereals, oil plants, fibre plants, leguminous plants, forage plants, grasslands, pastures in accordance with the list provided in the Ordinance of the Council of Ministers)

Lack of animal premiums



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Requirements for persons applying for direct payments in Poland in 2004 r.

- possession of an agricultural holding with at least 1 ha of agricultural land in good agricultural condition, consisting of agricultural parcels of at least 0.1 ha
- possession of a single identification number of an agricultural producer allocated through IACS system
- possession of a bank account



Administrative control

Administrative control consists of the examination of:

Simple control:

- date of submitting the application
- personal data
- data concerning cadastral parcels included in the application
- · data concerning the holding
- agricultural parcels within a given application in order to prevent double payment
- examination whether the size of an agricultural parcel does not exceed the size of cadastral parcel within which it is located



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Administrative control

Cross-check:

 examination whether the data from the application, complement to the application, changes to the application are not identical with those of other applicants in order to prevent multiple payments for the same area



Requirements for good agricultural conditions - I

- · Agricultural land:
- 1) cropping or lands set aside for agricultural land;
- 2) mowing of grasslands at least once a year;
- 3) pasture grazing on pastures during vegetative year
- Agricultural land situated on slopes with inclination exceeding 20 ° should not be:
- 1) used for crops requiring ridging along the slope;
- 2) set aside as black fallow.



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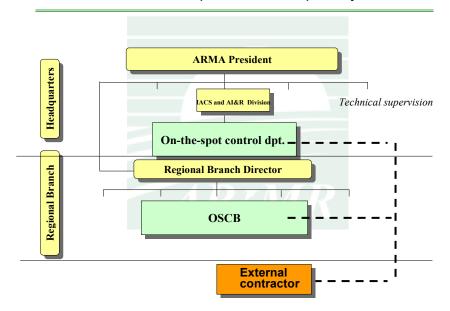


Requirements for good agricultural conditions - II

- · Agricultural land is assumed to be set aside if:
- 1) it has not been cultivated for more than 6 months or
- 2) it is not mown at least once a year before 15 June.
- 3) the land should not be set aside for more than 5 years.
- · Grasslands and pastures should not be burnt
- Agricultural land should not be afforested or shrubbed except for trees and shrubs important for the protection of water and soil.



Solutions for on-the-spot control adopted by ARMA





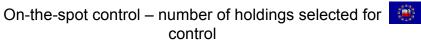
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On-the-spot control – methodology

- Methods for carrying out on-the-spot controls:
 - Field inspection (approx. 87% as of 2004 and 2005)
 - FOTO (RFV) (approx. 13% as of 2004 and 2005)





voivodship	Total number of	Total number of		
Volvousilip	producers in 2004	producers in 2005		
dolnośląskie	2,958	3,575		
kujawsko-pomorskie	3,306	3 ,898		
lubelskie	8,253	10,257		
lubuskie	1,451	1,343		
łódzkie	10,895	7,432		
małopolskie	6,297	7,976		
mazowieckie	14,304	12,381		
opolskie	1,885	3,383		
podkarpackie	6,227	7,262		
podlaskie	3,836	4,686		
pomorskie	2,006	4,490		
śląskie	2,555	3,184		
świętokrzyskie	4,281	10,643		
warmińsko-mazurskie	3,069	4,758		
wielkopolskie	5,910	6,943		
zachodniopomorskie	1,842	3,808		
Total	79,075	96,019		



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On-the-spot control – number of holdings selected for control



voivodship	Total number of producers in 2004	Total number of producers in 2005			
dolnośląskie	2,958	3,575			
kujawsko-pomorskie	3,306	3 ,898			
lubelskie	8,253	10,257			
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Total	79,075	96,019			



Costs of delegating control functions in 2004 and 2005

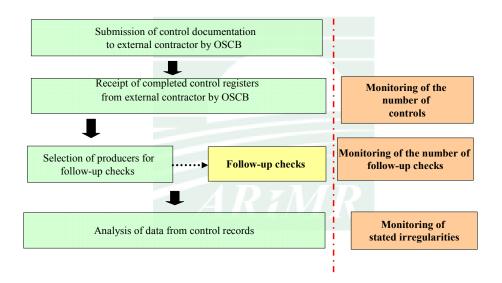
Method for on- the-spot control	Unit cost 2004 (EUR)	Unit cost 2005-2006 (EUR)	2005-2006 costs to 2004 costs ratio
Method of field inspection [1 ha]	14.60	7.13	48.74%
FOTO (RFV) method [1 holding]	102.90	51.5	50.13%



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Rules for monitoring of delegated functions







Total employment for on-the-spot control services

- Headquarters employees supervising on-the-spot control of direct payments – 23 persons
- Head of OSCB 16 persons
- Documentation Preparation and Service Unit 95 persons
- Field inspectors (+ heads of sections) 262 persons
- · Temporary field inspectors 236 persons
- External Contractors 2400 persons

Total employment approx. 3000



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On-the-spot control – inspectors' equipment



	DOLNOŚLĄSKIE	KUJAWSKO-POMORSKIE	LUBELSKIE	LUBUSKIE	ŁÓDZKIE	MAŁOPOLSKIE	MAZOWIECKIE	OPOLSKIE	PODKARPACKIE	PODLASKIE	POMORSKIE	ŚLĄSKIE	ŚWIĘTOKRZYSKIE	WARMIŃSKO-MAZURSKIE	WIELKOPOLSKIE	ZACHODNIOPOMORSKIE	TOTAL
Cars	10	10	22	8	18	22	28	8	20	12	10	14	12	10	16	8	228
Tachimeters	2	2	3	2	2	3	3	2	3	3	2	2	3	2	3	2	39
GPS	8	8	20	6	16	20	26	6	17	9	8	12	9	8	13	6	192
Digital cameras	20	20	22	12	20	22	28	18	20	20	20	20	20	20	20	16	318
Auxiliary measurement equipment (measuring tape, rolling tape measure etc.)	15	17	34	7	21	37	43	11	24	24	10	19	21	21	25	8	337

Works on improvement of in-field communication – Mobile Inspector project implementation planned for the end of 2005



Thank you for your attention

Jacek.Podlewski@arimr.gov.pl



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Presentation 2 – Implementation of the CAP reform

Ansa Norman-Palmér European Commission, DG Agriculture and Rural Development

Abstract

The presentation covers the implementation of the CAP Reform and the Single Payment Scheme and the individual choices made by the Member States. The presentation also includes the chosen implementation of the so called second wave of the reform, the regimes for cotton, olive oil and tobacco. Ten of the old Member States implemented the reform as from 2005 the remaining five will implement it in 2006. The new Member States will implement the Single Payment Scheme in 2009 at latest.

Keywords: CAP Reform, Single Payment Scheme



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When will the reform be implemented?



Year	Member States
2005	Austria, Belgium, Denmark, Germany, Ireland, Italy, Luxemburg, Portugal, Sweden, UK
2006	Finland, France, Greece, Netherlands, Spain
2007	Malta, Slovenia
2009 at the latest	Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Slovakia
	,



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Which model have the MS chosen?



Historical model	Regional model					
	Static Hybrid	Dynamic Hybrid				
Austria, Belgium, France, Greece, Ireland, Italy, Netherlands, Portugal, Spain, UK-Scotland, UK-Wales	Denmark, Luxemburg, Sweden, UK-Northern Ireland	Finland, Germany, UK- England				

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(1) How will the historical models be implemented?



Member States	Regions	Re-coupling National envelope (art 69 of R.1782/2003) Deduction for work program (art 110i of R. 1782/2003)
Austria	No	-suckler cow premium 100% -slaughter premium for bovine 40% -slaughter premium for calves 100% -hops payments 25%
Belgium	Flanders + Brussels	-suckler cow premium 100% -slaughter premium for calves 100% -seeds (partial) 100%
Belgium	Wallonia	-suckler cow premium100% -seeds (partial) 100%

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(2) How will the historical models be implemented?



Member States	Regions	Re-coupling National envelope (art 69 of R.1782/2003) Deduction for work program (art 110i of R. 1782/2003)	
France	No	-suckler cows 100% -slaughter premium for bovine 40% -slaughter premium for calves 100% -ewe premium 50% -cereals 25% - seeds partial - tobacco 60% -outermost regions 100% Art 110i, 10 % deduction	
Greece		-seeds 100% Art 69: 10% arable crops and bovine sector, 5% ovine sector, 4 % olive oil and 2% tobacco Art 110i, 5 % deduction	
Ireland	No	None	
The text in <u>italics</u> are based on <u>informal</u> information			



(3) How will the historical models be implemented



Member States	Regions	Re-coupling National envelope (art 69 of R.1782/2003) Deduction for work program (art 110i of R. 1782/2003)
Italy	No	-seeds 100% -tobacco 60%, except the region for Puglia Art 69: 7% in arable, 8% in bovine and 5% in ovine sector Art 110i, 5 % deduction
Netherlands	No	-slaughter premium for bovine 100% -slaughter premium for calves 100% -seeds for linseed 100%
Portugal	No	-suckler cow premium 100% -slaughter premium for bovine 40% -slaughter premium for calves 100% -ewe premium 50% -seeds 100% -tobacco 50% -outermost regions 100% Art 69: 1% arable crops, rice, bovine and ovine sector and 10% in olive oil sector



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(4) How will the historical models be implemented



Member States	Regions	Re-coupling National envelope (art 69 of R.1782/2003) Deduction for work program (art 110i of R. 1782/2003)
Spain	No	-suckler cow premium 100% -slaughter premium for bovine 40% -slaughter premium for calves 100% -ewe premium 50% -arable crops 25% -seeds 100% -olive oil (rate to be confirmed) -tobacco (rate to be confirmed) -outermost regions 100% Art 69: 5% tobacco sector, 7% bovine sector, 10% dairy payments and cotton sector
UK	Scotland	None Art 69: 10% in bovine sector
UK	Wales	None



(1) How will the static/hybrid models be implemented?



Member States	Regions	Model	Re-coupling National envelope (art 69 of R. 1782/2003)
Denmark	One region	Initially lower amounts for permanent pasture, will increase and be equal for all areas in 2001 Historical basis for top-ups: -ewe premium 50% -suckler cow premium 64%, 28% in 2012 -special premium 16%, 7% in 2012 -slaughter premium 64%, 28% in2012 -dairy premium 59.5% in 2005 and 73% in 2006	-special premium 75% -ewe premium 50%
Luxemburg	One region	Historical basis for top-ups: -area payments 65% -special premium 65% -slaughter premium 65% -additional payments for bovines 65% -ewe premium 65% -seeds 65% -suckler cow premium 85% -dairy payments 85%	None



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(2) How will the static/hybrid models be implemented?



Member States	Regions	Model	Re-coupling National envelope (art 69 of R. 1782/2003)
Sweden	5 Regions	Lower amount for pasture land Historical basis for top-ups: -dairy 67.5% (in 2007) -suckler cows 50% -extensification premia 50% -slaughter premium 40% -supplementary area payment 100%	-special premium 74.55% Art 69: 0.45% for all sectors
UK	Northern Ireland	Historical basis for top-ups: -suckler cow premium 100% -special premium50% -slaughter premium adults 50% -slaughter premiums calves 100% -dairy premium -ewe premium 65% -ewe premium LFA top-up 20% -area payments 80% -dried fodder 80%	None

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(1) How will the dynamic/hybrid models be implemented?



Member State	Regions	Model	Re-coupling National envelope (art 69 of R. 1782/2003)
Germany	Bundes- länder	Moving to a total flat rate Different amount for grassland initially Historical basis in 2005 for top-ups: -suckler cow premium 100% -special premium 100% -slaughter premiums for calves 100% -extensification premium 50% -ewe premium 100% -dairy premium 100% -de-coupled part of dried fodder -de-coupled part of starch 25%	-hops payments 25% -tobacco payment (until 2009) 60%

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(2) How will the dynamic/hybrid models be implemented?



Member States	Regions	Model	Re-coupling National envelope (art 69 of R. 1782/2003)
UK	England normal	Moving to a total flat rate starting with 90% historical to be 0% in 2012	None
UK	England SDA non moorland	A lower flat rate than England normal	None
UK	England SDA moorland	A lower flat rate than England non moorland	None
Finland	3 Regions	Historical basis for top-ups: -special premium 30% -dairy payments 100% -de-coupled part of starch 40% To be transferred to flat rate by 2016	-special premium 75% -ewe premium 50% -seeds Art 69: 2.1% arable sector and 10% bovine sector

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Presentation 3 - Controls in CAP reform (SPS, and cross-compliance)

Marc Ricker European Commission, DG Agriculture and Rural Development Abstract missing

Reform of the CAP

Effect on the On the spot checks (via RS)

Nothing new!?

(Re-)orient the controls

- No need to produce but to keep in GAEC exclusion of certain crops
- Set-aside remains
- Specific crops conditions remain
 F&V: not authorised / authorised in a certain period



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(Re-)orient the controls (ctd)

=>Timing of the OTS

crops on field / no longer on field after certain dates

=> Change in the selection of parcels to visit / to measure.

Points of attention

- Inclusion of special features Art.30(3) of R.796/2004
- The need to determine the area for the same parcel twice

cf. re-coupling crops + olive trees / aid for a specific crop

- Olive trees:
 - based on position not area
 - new trees planted after 1998



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The Cross-compliance

- Permanent Pasture check of authorisation to plough / obligation to reconvert.
- Specific GAEC (area in general / olive trees in particular) => Control via RS ?

Recent findings

- Selection of parcels to visit is not always « risk » oriented.
- Not always a RFV when doubts at photointerpretation.
- RFV are sometimes too « rapid visit »
- Photos are too old.
- => ??



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Presentation 4 – Implementation of the Single Payment Scheme (SPS) in England

Gillian Mann Rural PaymentsAgency, UK

Abstract

The presentation will give an overview of how SPS is being implemented in England within the UK. While it will not specifically cover the implementation of SPS in the other countries within the UK (i.e. Scotland, Wales and Northern Ireland), it will highlight those key areas where these countries have adopted different approaches and what those approaches are.

The presentation will cover the following areas:

Decoupling - why England has adopted full decoupling.

Regionalisation – why SPS is being implemented differently in different parts of the UK.

Entitlements – brief explanation of the role of entitlements.

National Reserve – role of the Reserve and the categories under which farmers can apply.

Payments – why England had adopted dynamic hybrid model, i.e. leading to flat rate model.

10 month rule – dates adopted in England.

National envelope – why England has not adopted this option.

Modulation – why England has set a higher rate than the minimum compulsory rate.

The application process – brief details of the application deadline and what farmers declared on the application.

Cross compliance – a list of the SMRs and GAECs adopted in England and how they are being controlled, including brief mention of the pilot use of remote sensing as a control mechanism.



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SINGLE PAYMENT SCHEME

Gillian Mann, Rural Payments Agency



CAP Reform Agreement

- · Broke link between production and subsidies
- Farmers paid for cross-compliance: environment, animal welfare, food safety and good agricultural practice
- · Payments modulated
- Set aside retained





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English model

- UK operating SPS separately in 4 regions, i.e. England, Scotland, Wales and N. Ireland
- 3 English areas: Moorland/ SDA/Non-SDA
- England de-coupled in 2005, including dairy
- · Flat rate payments based on 2005 area
- 8 year transition 10% flat rate in 2005, then 15; 30; 45; 60; 75;
 90. 100% flat rate in 2012
- · Balance allocated on historical basis
- Modulation Rates:

Year	Compulsory EU rate	Additional national rate	Overall rate
2005	3%	2%	5%
2006	4%	6%	10%
2007	5%	Not yet set	Not yet set



Other UK regions

- Also de-coupled from 1 January 2005
- Scotland
 - Pure historic option
 - National envelope for quality calf production
 - Voluntary modulation
- · Northern Ireland
 - Static, vertical hybrid option
 - Flat rate 20% arable, 50% SAPS,BSPS,SPS
- Wales
 - Historic option
 - Voluntary modulation





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Timeline for introducing SPS in England

22 July 2004: Minister's announcement
 July – August 2004: Sending out of information

statements completed

1 October 2004: First date for start of 10

month period for farmers to have land at their disposal

• Autumn 2004: Information booklets sent out

on set-aside & cross-

compliance

• 1 Jan 2005: Scheme year started. Cross-

compliance began



Timeline for introducing SPS in England (cont.)

15 Jan 2005: Set - aside period began
 March 2005: Application forms & Scheme

Rules sent out

• 16 May 2005: Deadline for receipt of

application forms

31 August 2005: Set-aside period closed
 December 2005: Payment window opens





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Entitlements

- Establishment- creation of the asset giving right of entry to the scheme
- Activation using the entitlement to generate a payment
 Establishing an entitlement:
- · Must be a farmer carrying out an agricultural activity
- Must be 'managing' eligible ha -

"The agricultural area of the holding taken up by arable land and permanent pasture except area under permanent crops, forests or used for non-agricultural activities" (Article 44.2 of 1782/2003)

Activating an entitlement:

- Land must be at farmer's disposal for at least 10 months starting from a date not earlier than 1 September of preceding calendar year and not later than 30 April (in England, period restricted to 1 October – 30 April) – in 2006, farmers can use 2 different 10 month periods.
- Need to activate an entitlement once in 3 years



Agricultural activity:

"....the production, rearing or growing of agricultural products including harvesting, milking, breeding animals and keeping animals for farming purposes, or maintaining the land in good agricultural and environmental condition as established under Article 5." (Article 2(c) of 1782/2003)





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Penalties

Two types -

- Eligibility
- Cross compliance

Eligibility Penalties:

- · Late receipt
- · Over claiming
- · Wrong crop
- · Land held for less than 10 months
- Failure to declare all agricultural land

Cross-compliance penalties:

- · Based on a matrix, with breaches classified according to:
- **Intent** (negligent or intentional)
- **Extent** (on-farm effect or off-farm effect)
- **Severity** (minimum, medium or high effect)
- **Permanence** (rectifiable or permanent)
- **Repetition** (1st breach or 1st 6th breach)



Cross-compliance

"farmer receiving direct payments shall respect the statutory management requirements referred to in Annex III.......and the good agricultural and environmental conditions established under Article 5"

(Article 3, 1782/2003)

Scope of Cross-compliance:

- Farmers in receipt of direct payment will be required to respect 3 types of cross compliance:
- Statutory Management Requirements (SMR)
- Presumption of retaining the overall area of permanent pasture
- Good Agricultural and Environmental Conditions (GAEC)
 (Defined by the Member State on the basis of the framework set
 out in Article 5 and Annex IV, with an emphasis on soil
 protection, and protection of habitats/landscape features.)





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Statutory Management Requirements (SMR)

9 EC Directives and Regulations applicable from 1 Jan 05

Environment	SMR 1	Wild bird cover
	SMR 2	Ground water
	SMR 3	Sewage sludge
	SMR 4	Nitrate vulnerable zones
	SMR 5	Habitats
Public and animal health	SMR 6	Animal identification and registration – Pigs, goats and sheep
	SMR 7	Cattle registration
	SMR 8	
	SMR 8a	Animal identification and registration – sheep and goats



Good Agricultural & Environmental Conditions (GAEC)

The context: "...to avoid the abandonment of agricultural land and ensure that it is maintained in GAEC..."

GAEC defined:

- Regionally England, Scotland, Wales and N. Ireland
- Without prejudice to existing Good Farming Practice under RDR and existing agri-environment schemes
- · Covers whole holding but only agricultural activities

In England we have 17 GAECs, covering the following areas:





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GAEC categories

Of the datagories		
Soil	GAEC 1	General requirements
Management and protection	GAEC 2	Post-harvest management of land after combinable crop (from harvest to 1 March)
	GAEC 3	Waterlogged soil
	GAEC 4	Burning of crop residues
Management of habitats	GAEC 5	Environmental Impact Assessment – uncultivated land and semi-natural areas & forestry
	GAEC 6	Sites of Special Scientific Interest (SSSI)
	GAEC 7	Scheduled monuments
	GAEC 8	Public rights of way
	GAEC 9	Overgrazing and unsuitable supplementary feeding
	GAEC 10	Heather and grass burning
	GAEC 11	Control of weeds
	GAEC 12	Eligible land which is not in agricultural production
	GAEC 13	Stone walls
	GAEC 14	Protection of hedgerows and water courses
	GAEC 15	Hedgerows
	GAEC 16	Felling of trees
	GAEC 17	Tree preservation orders
-	•	rural payments agency

Remote sensing pilot check of GAECs

- Our aim: to pilot the concept of undertaking checks using satellite imagery in 2005, rather than to actually control a proportion of our 1% sample.
- Selected 2 zones (BRIG and KILN) for the pilot. Chosen as contain good representation of landscape features covered by GAECs, e.g. include areas of heather and stone walls not found in all parts of England.
- Mike Wooding from RSAC will be presenting some findings of this pilot in a later session.





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Session 2 – Review of 2005 years CwRS Campaign

Chairman:

Pär Johan ÅSTRAND JRC, IPSC, Agrifish Unit



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Presentation 1 - Summary Statistics 2005

Paolo Pizziol

JRC, IPSC, Agrifish Unit

Abstract

In 2005, about 163000 applications have been controlled with Remote Sensing in 339 sites, 210 out of them provided with satellite-borne imagery. This year, taking into account the substantial increase of applications and OTS controls, the large majority of MS has increased the rate of CwRS, in particular UK, DK, CY, NL. The use of VHR satellite imagery, compared to the use of aerial-borne VHR photos, prevails on most sites and this has resulted in a higher cost/site rate and a lower number of images/site rate as well. The sites in CZ,DK,ES,UK are more expensive compared to the others (due to the size and to the number of satellite images required) and 73% of the overall EC images budget is used for 7 MS (F,D,E,I,UK,IE,H) collecting the 56% of the total sites.

As preliminary conclusions, in a context of an increasing number of controls wRS, there is a higher rate of rejects compared to the past years, probably due to the increased use of VHR data and also to the stricter rules on area measurements tolerances implemented in some MS.

Keywords: Control with Remote Sensing, sites, satellite-borne imagery, aerial-borne imagery, EC images budget



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Control with Remote Sensing Campaign 2005

Summary statistics

Paolo PIZZIOL

S1S1}}iro

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Outline

- General
- · Tables delivery status
- 2005 vs 2004 figures
- Charts

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Preliminary conclusions

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General

- 24 Member States involved
- 27 Contractors
- 5.5 M applications (4.8 M in 2004), > 163 000 checked with RS
- 339 sites (210 controlled using satellite-borne imagery)
- · Novelties:
 - CAP reform enforced (e.g. SPS in 10 MS)
 - LPIS GIS available in all MS
 - Cross compliance implemented in all MS (i.e. GAEC controls)
 - 2003 ref.year eligibility checks
 - New management IT tool at JRC: LIODOTNET

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Status



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Summary statistics available to date

- > 90% controlled applications covered
- 23 tables sets collected (4 contractors missing)
- 4 delivered in time, 4 within the following week
- Avg delivery delay: 2 weeks
- Feedback field inspection: results missing
- Cost tables empty 9/23, partial 4/14

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2005 vs 2004: sites and controls

- Sites 339 > 284 (with sat images EU financed: 210 > 155)
 - The increase (+35%) is due to VHR/HR sat/sites
- Number of OTS checks
 - 6.7% < 7% (<u>but</u> total applications + 14%)
- Number of dossiers CwRS:
 - $-163\,000 > 153\,000 \ (+6.5\%)$
- EU: 44.5% of OTS are performed with RS(46% in 2004)
 - 4 MS this rate is below 5% (SI,LT,EE,FI)
 - 3 MS this rate is between 12-34% (PL,EL, LV*)
 - 17 MS this rate is above 50%



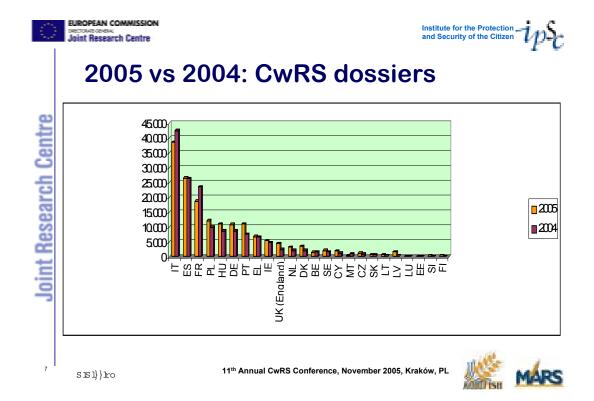
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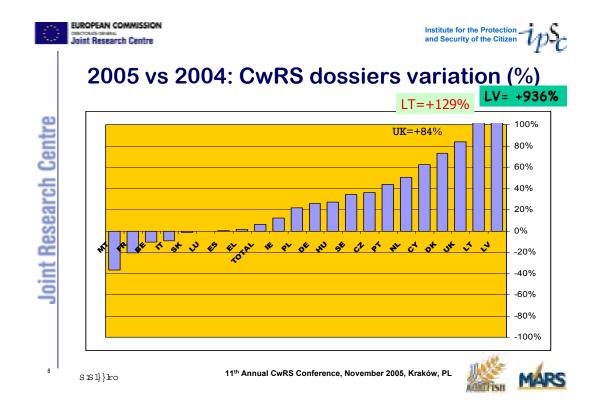






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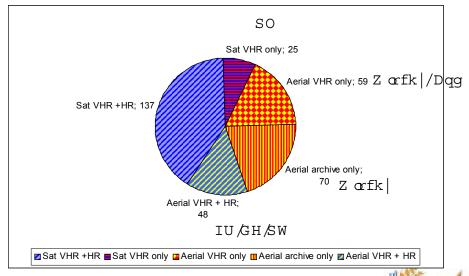
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Methodology/site



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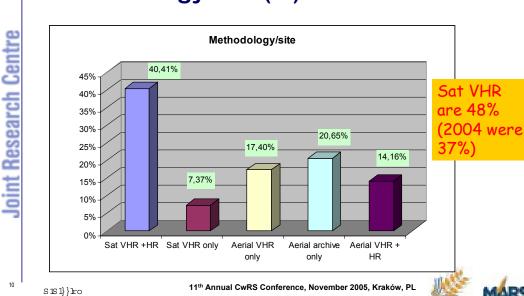






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Methodology/site (%)





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2005 vs 2004: image budget (EC DG AGRI)

Total budget (EU)

5 M > 3.3 M Euros (+51%!)

Avg cost/site (EU)

24 000 > 20 900 (+15%)

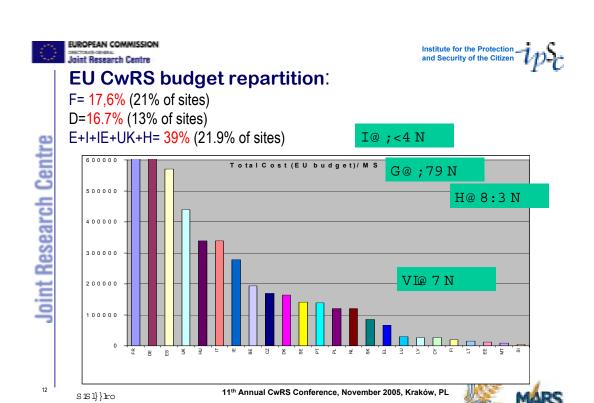
Avg n.images/site (total number almost stable > 950)

4.5 < 6.2

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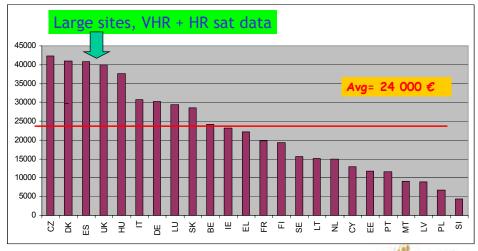
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Cost/site (images)



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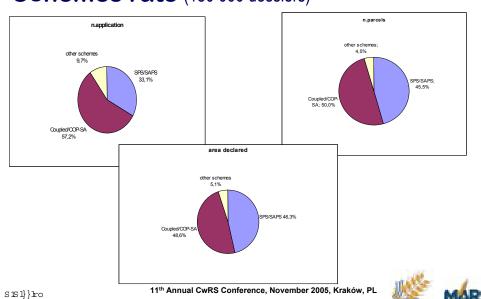




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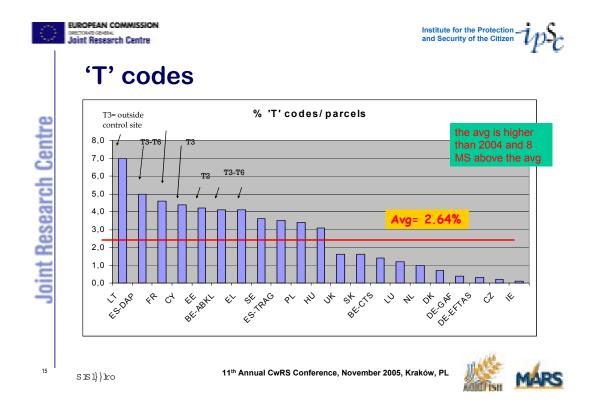


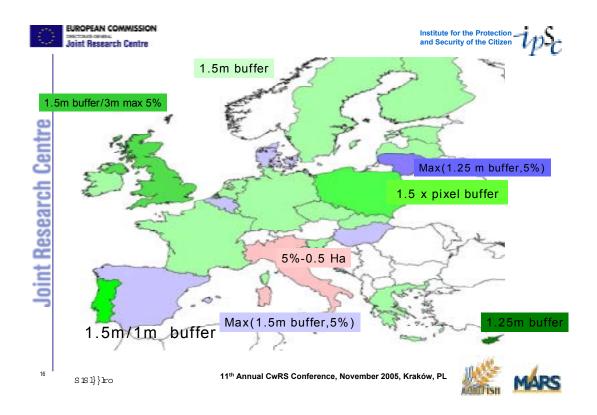
Schemes rate (150 000 dossiers)





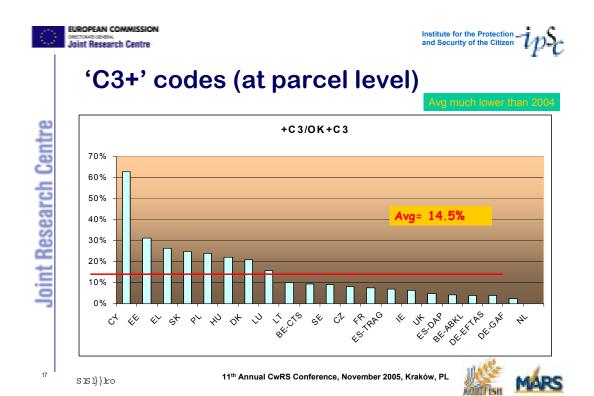
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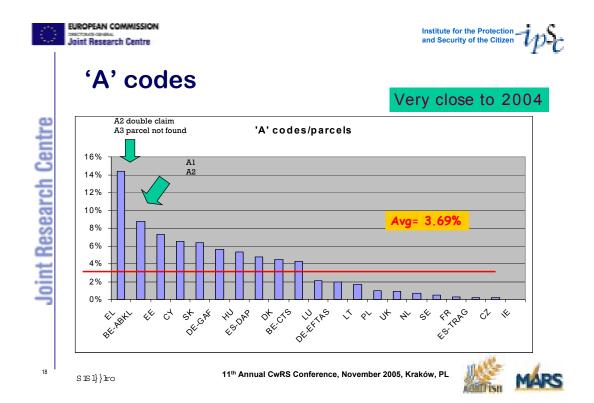






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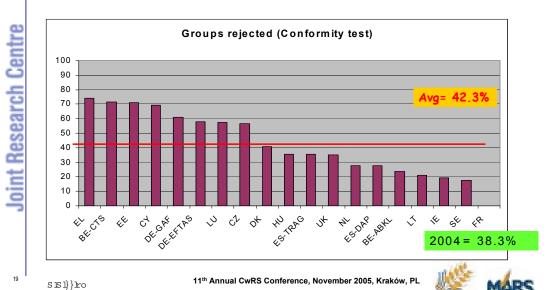


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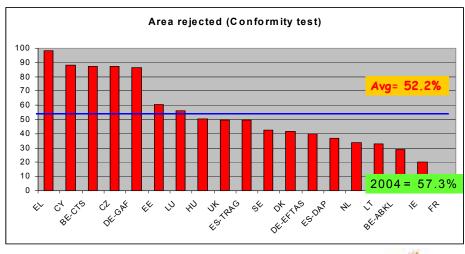
Conformity test (1)



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Conformity test (2)



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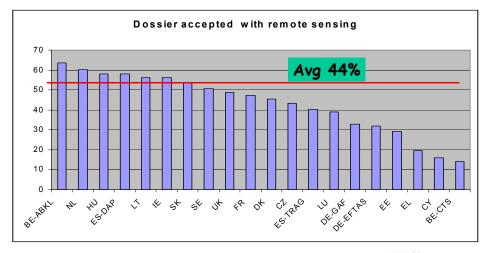
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Global results (main schemes): accepted dossier



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Conclusions (preliminary)

- Higher rate of rejects compared to 2004 (trend of last 3 years confirmed)
- Increasing (compared to 2004):
 - n.applications,
 - n.controls with RS
 - n.sites,
 - DG AGRI budget x RS,
 - images cost/site
- Stable: overall image number
- Decreasing: n.image/site
- GAEC checks: CwRS only by IE?

Thanks for your attention!!

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Presentation 2 - Results of the Quality Control of 2004 Campaign

Hervé Kerdiles JRC, IPSC, Agrifish Unit

Abstract

Since the 1996 campaign, each CwRS contractor has to provide the data used and his control results (imagery, vectors and DB in a predefined format) every year on a site selected by the Administration. A quality control (QC) of the contractors' work is then performed on a sample of QC sites by the MARS group in support to the Member States Administrations.

For the 2004 campaign, priority has been given to the new Member States (MS) and contractors from the seven new MS having applied CwRS in 2004 were quality checked against only one (new) contractor from the EU 15. The simplified QC approach which is based on a quick analysis of the QC databases provided followed by a 3-4 days visit at the contractor's premises has been widely used: 6 of the 8 contractors were subjected to this type of QC which is not only limited to checking the contractor's work but also examines the whole control chain and allows to better understand the specific context of each MS.

The results of the QC 2004 will be presented to show all MS non optimal practices and potential problems due to particular systems so that corrective action can be taken where relevant.

Keywords: QC, CwRS.



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Results of the Quality Control of the 2004 campaign

Hervé Kerdiles, Andrew Rowlands JRC IPSC AGRIFISH

11th Annual CwRS Conference, 23-25 November 2005, Kraków, PL

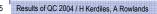




Outline



- Introduction: QC data delivery dates, contractors selection and type of QC
- Findings
 - Sites and dossiers selection
 - Inaccurate LPIS
 - Overlaps not detected
 - Poor use of (VHR) imagery
 - False over / under-claims
 - Miscellaneous
 - · Lack of consistency checks
 - Treatment of parcels below min size
 - CAPI errors



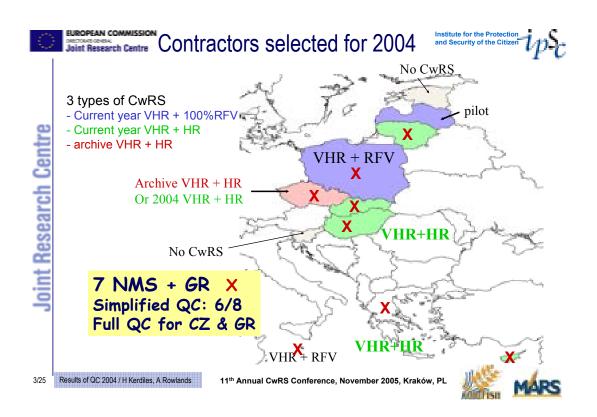
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QC checks: simplified QC for 6/8 contractors



- ♣ Automatic queries run on QC DB at the JRC
 - control of anomalies
 - consistency checks
 - diagnosis checks

Remote office check

♣3-5 days visit at the contractor's premises

♥ clarification of anomalies found (lighter reporting)

Rapid Contractor Visit

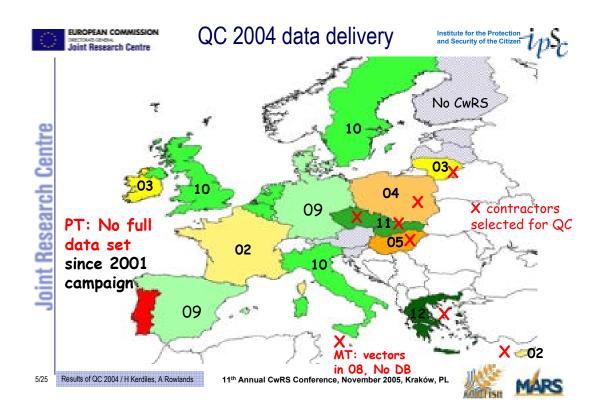
■ CAPI checks (diagnosis at parcel level) on a sample of dossiers/parcels on the contractor's system ⇔avoid artefacts of DB export, better understanding of context





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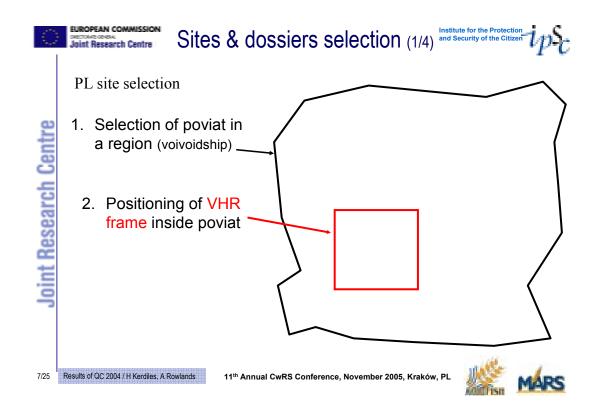
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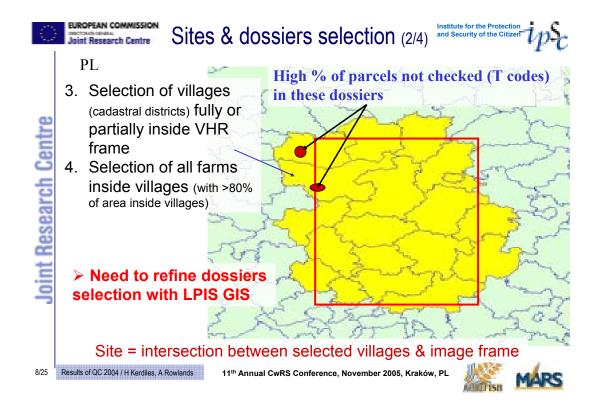






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Sites & dossiers selection (3/4) Institute for the Prote and Security of the Ci



SK 12 400 applications CwRS: 786 (86%)



CwRS: 2 sites selected by risk analysis include 2200 dossiers > 786

sampling needed inside sites to select 786 dossiers: 23% random, 77% risk

♦ Total random sample = 23% x 913 = 210 dossiers

Remark 1: Random sample should be 23% of 5% of applic = 143 dossiers instead of 210

Remark 2: 86% of random sample in 2 sites selected by risk analysis at MS level, number of random dossiers expected to be in the 2 CwRS sites is 210 x 2 200/12 400 = 37 dossiers << 186

Reg. respected but random sample may be biased, risk analysis may look poor

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Sites & dossiers selection (4/4)



- CY: 5.1% OTS checks
 - Classical inspections: 40% of OTS checks, 20% random, 80% risk analysis
 - CwRS: 60% of OTS checks on 2 sites selected ... at random, all dossiers with 80% area falling inside site selected

random sample = 68% of OTS checks >> 20-25%

 MT: 20% OTS checks Random sample 25% of 20% sample = $\frac{5\%}{6}$ of all applications instead of 1 - 1.25% of all applications

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10/25 Results of QC 2004 / H Kerdiles, A Rowlands







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Outline



QC data delivery dates, contractors selection and type of QC

Findings

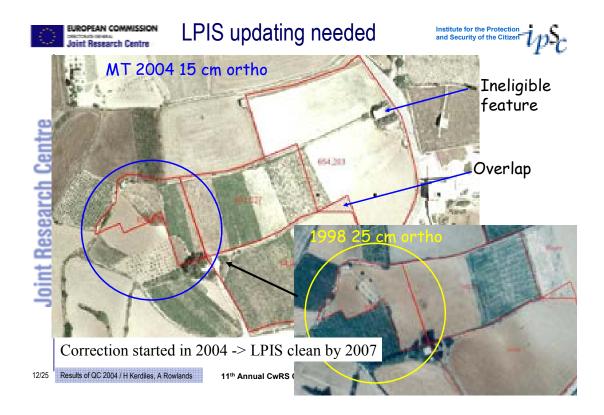
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Overlap in LPIS



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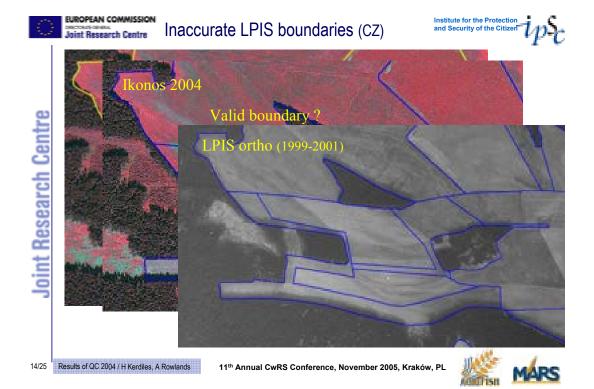
MT 2004 15 cm orthophoto

· Overlaps in LPIS should be automatically detected

13/25 Results of QC 2004 / H Kerdiles, A Rowlands

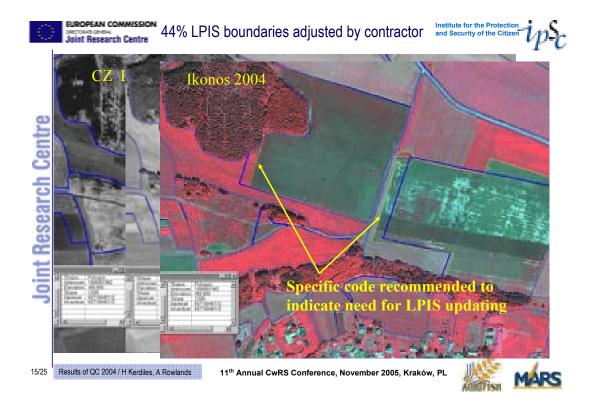


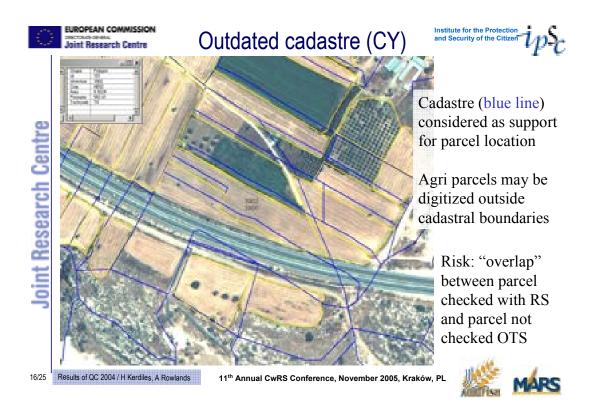






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Outline



QC data delivery dates, contractors selection and type of QC

Findings

- Sites and dossiers selection
- Inaccurate LPIS
- Overlaps not detected
- Poor use of (VHR) imagery
- False over / under-claims
- Miscellaneous
 - · Lack of consistency checks
 - · Treatment of parcels below min size
 - · CAPI errors

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17/25 Results of QC 2004 / H Kerdiles, A Rowlands

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Overlaps



- Overlaps not detected (SK, CY)
- Start CAPI operators work with 1 dossier at a time without displaying the interpretation of other dossiers claiming area in the same LPIS parcel
- Overlaps should be systematically detected e.g. at end of dossier check
- ❖ Additional risk in CY: cadastral boundaries not reliable, interpreter goes outside cadastral boundaries -> multiple claim on same piece of land possible

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18/25 Results of QC 2004 / H Kerdiles, A Rowlands







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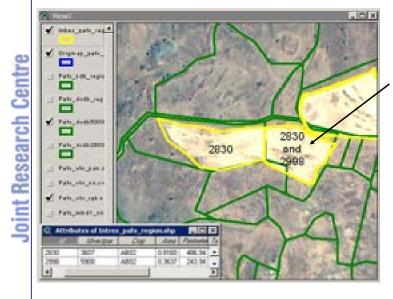


Overlap in CY



Cadastre in green, CAPI in yellow

Area of 0.4 ha assigned to 2 parcels of barley and retained twice



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Overlap in CY



This seed in the season of the

2 cadastral parcels declared as barley for 1.34 and 0.27 ha (total 1.61 ha)

1 parcel interpreted and assigned to both declared parcels (yellow); retained area = 2 x 0.92 = 1.84 ha

Agricultural parcel area = 1.5 ha (?) Pb: correctness of cadastral boundaries

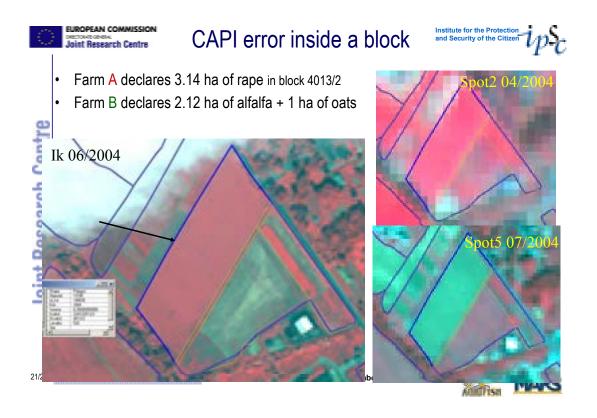
AMERICAN

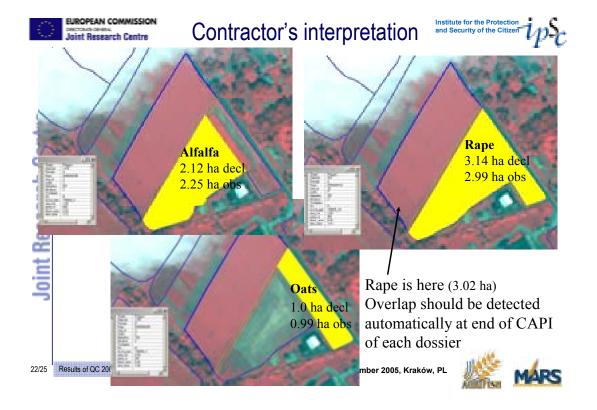


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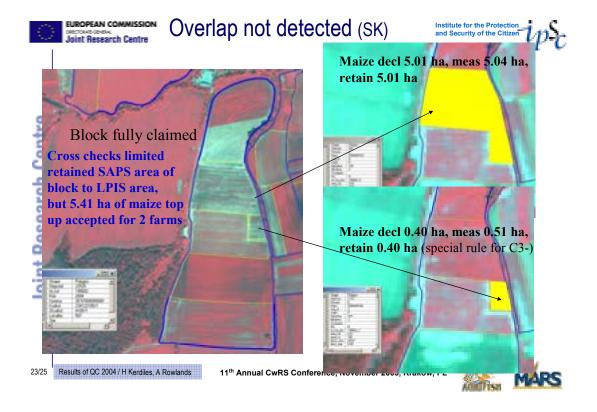






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Overlaps



Importance of problem in SK

59 parcels involved in significant overlaps (overlap area >10% parcel area) out of 1293 interpreted parcels in QC site

- For 26 parcels, no problem: at least 1 parcel disallowed by changing LPIS land use to "unknown land use"
- For 20 parcels: operator error (lack of awareness of other polygon), but enough area in the block to accommodate all claims (to be checked with Admin cross checks)
- For 12 parcels: real overlap (incorrect parcel location), of which 8 were in blocks with some underclaims -> retained area reduced to declared (special rule) -> retained block area not overestimated. Excess retained area = 3.5 ha CNDP
- **GR**: duplicate claims identified (A2 code) but area retained twice for 20 parcels (excess retained area of 50 ha)

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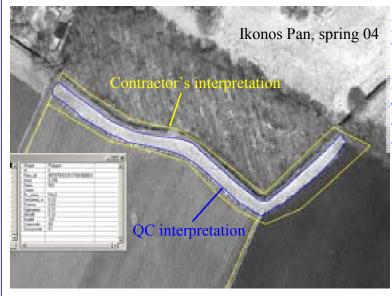






Use of VHR imagery?





Declared 0.33 ha waste seed (SA)

Measured -0.63 by contractor -0.26 by QC -0.31 by GPS



Results of QC 2004 / H Kerdiles, A Rowlands



27/25

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Pasture inclu y contracto

Use of VHR imagery?



Declared 14.20 ha Winter barley

Measured

- -15.51 by contractor
- -14.20 by QC and by GPS





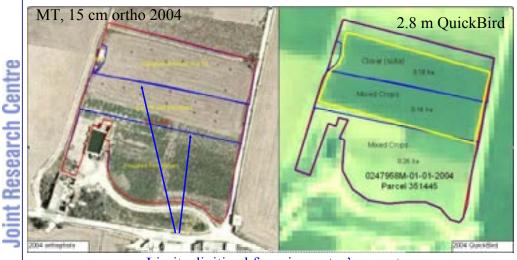






Use of VHR imagery?





Limits digitized from inspector's report

Inspectors should use the VHR pansharpened imagery in the field

28/25 Results of QC 2004 / H Kerdiles, A Rowlands

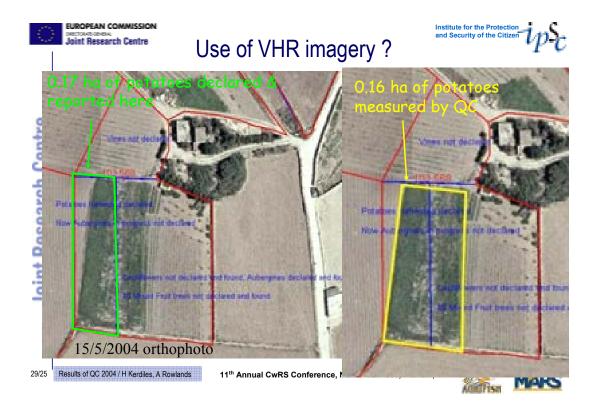






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30/25 Results of QC 2004 / H Kerdiles, A Rowlands







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False over / under-claims: measured object ≠ declared object



- CZ: SAPS only in 2004, farmer's block (~agricultural parcel) farmers declare crop category (arable, forage...) in LPIS parcel
 - when 1 agri parcel observed in LPIS parcel, no pb
 - when **n >1 sub-parcels** observed in LPIS parcel
 - ♥ declared area is compared to measured area of each sub-parcel => n overclaims (C3+)
 - Low impact on retained area (contractor stricter than QC), but method leads to false rejected dossiers

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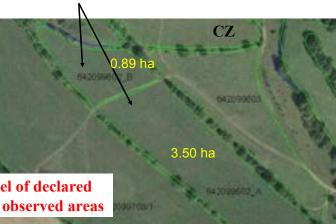
Subdivision of LPIS parcel (1/2)



Declared parcel (4.44 ha grassland) split in 2 sub-parcels A & B of the same use

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Declared area (4.44 ha) compared to measured area of each sup-parcel: -> 2 false overclaims Since total measured area = 4.39 ha



Check tolerance at level of declared parcel: decl. area vs Σ observed areas



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Subdivision of LPIS parcel (2/2) Institute for the Protein and Security of the Co

Declared 2.09 ha of grassland split in 3 sub-parcels of different uses by contractor

Declared area (2.09 ha) compared to measured area of each sub-parcel: -> 3 C3 codes Pb due to declaration

error: >1 crop category should be declared even if same payment

Recommendation: declare crop

33/25 Results of QC 2004 / H Kerdiles, A Rowlands

 \mathbf{CZ} **GAEC** infraction)

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What to do when declared parcel boundaries are not visible?

• Classical mistake: try to measure it (on the basis of sketch map...)

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Parcel limits not visible on imagery



Maize parcels found inside tolerance, over-claimed, under-claimed...

but boundaries cannot be determined from imagery -> area check at agri parcel level not valid

35/25 Results of QC 2004 / H Kerdiles, A Rowlands

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What to do when declared parcel boundaries are not visible?

- Classical mistake: try to measure it (on the basis of sketch map...)
- Measure the "physical" parcel (group of parcels with the same response), then compare the measured area to the sum of declared areas in the OTSC sample...

36/2

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Underclaims & joint cultivations (JC) Total Control of the Control





33 parcels of wheat declared by 33 farmers for a total of 103 ha

Measured area 153 ha ⇒ 33 "underclaims"

JC = 16% of physical parcels but 37% of claimed parcels of site. Nearly 50% of JC found underclaimed!

Special rule in 2004: compensation in a group limited to under and overclaims





Underclaims & joint cultivations Institute for the Protection and Security of the Citization



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Solution: check all claims in the parcel (if info available from applications) or in the block

Measured area

 Σ declared areas

Declaring JC as physical parcels would reduce # of claimed parcels by 27% in site







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Lack of consistency checks



- CY: vector area sometimes not equal to DB measured area
- GR: Many inconsistencies in DB (1% of parcel with invalid crop group combination)
- GR: reference area = area of digitized sketch maps!
- GR: Disagreement on technical code for 7% of parcels, mainly on tolerance application: 671 OK should be C3, 153 C3 should be OK due to artefact (correct code in PARCELM changed in CATEGPARC) -> 138 groups changed to reject and 15 to accept by QC

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Treatment of small parcels

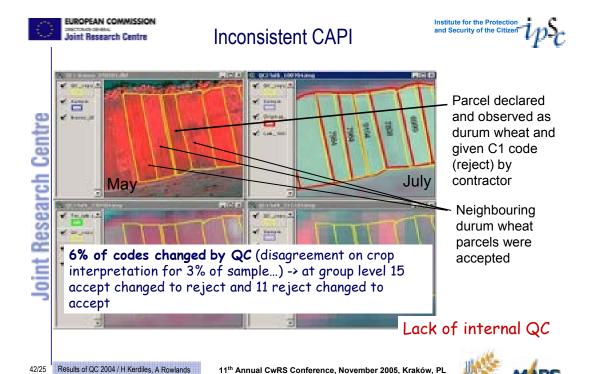


- CY: A1 code should be given to parcels < min size (0.05 ha) and not T6
- PL: Acceptation of 700 parcels found below min parcel size (0.1 ha) over 2 sites due to error in Admin SW -> 48 ha SAPS, 30 ha CNDP unduly accepted
- However, in some cases, very strict application of rule

Cad parcels J and P declared as 0.11 ha of pastures each by same farmer; ditch removed at CAPI ♦ 4 subparcels < 0.1 ha each! (0.06 to 0.09 ha)

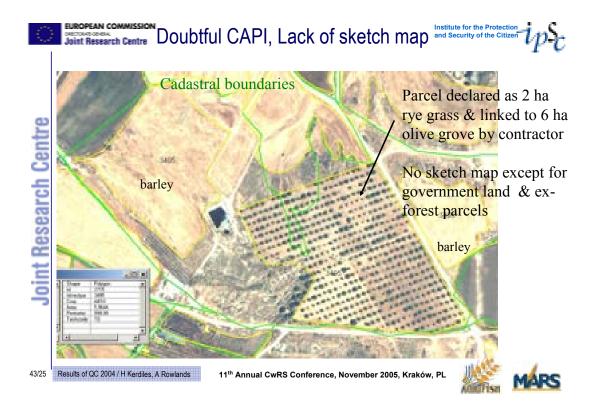
Parcel acceptable if J and P declared as 1 parcel

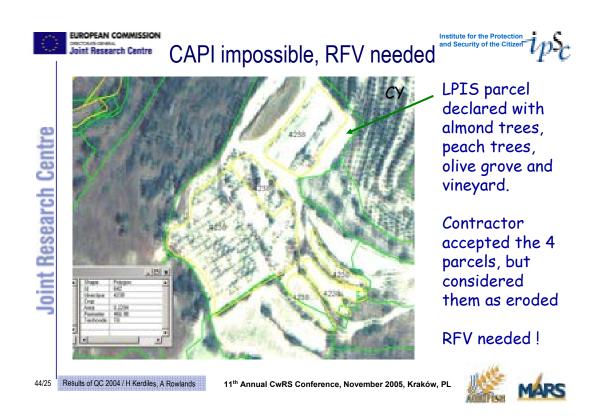
41/25 Results of QC 2004 / H Kerdiles, A Rowlands





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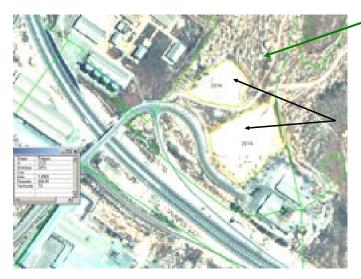
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Poor check of GAEC



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Parcel declared as 10 ha barley correctly rejected by contractor

2 sub-parcels considered as eroded (G3)

Likely building area to be confirmed by RFV

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Conclusions



- Some new problems, but "classical" errors still present (contractors selected on basis of risk analysis with no element of representativeness)
- Administrations should QC & monitor closely their contractors, especially new contractors
- Trend towards simplified QC: less CAPI but better understanding of whole system, artefacts clarified, preliminary conclusions at end of visit
 - SQC not only of contractor's work but also of Administration strategy ...
 - In case of any doubt during campaign, JRC available
- QC reports on problems found, not on good points and progress with respect to previous campaigns

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Presentation 3 - CwRS 2005: High resolution data

Paolo Pizziol JRC, IPSC, Agrifish Unit

Abstract

In 2005, in support of the Control with Remote Sensing Campaign 2005, 745 high resolution images have been acquired over 184 sites, at cost of about 2 M Euros. The sensors operating were Spot 2, Spot 4, Spot 5, Landsat 5 TM, IRS P6 Liss and Radarsat-1.

Respect to 2004, sites increased of 20%, number of images of 10 % but costs increased of 19%. Bad weather in summer has lowered the general success rate of 94%., similar to previous campaign. This year, radar data programming has been stopped over certain sites upon acquisition of good optical Spring 1 data

In general, the campaign has been positive. For some images the delivery has been delayed due to bad processing or data corruption problems. This year, all players (JRC; contractors and providers) have been supported by a new management database, called LIODOT NET., created to streamline the communication and the overall management. However, this new system has required some extra work for adaptation (all) and fine-tuning (JRC).

Keywords: Control with Remote Sensing, High resolution Imagery, Spot 2, Spot, Spot 5, Landsat 5 TM, IRS P6 Liss, Radarsat-1, LIODOTNET



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Control with Remote Sensing Campaign 2005

High Resolution Data

Paolo PIZZIOL, Cherith ASPINALL

P.Pizziol/C.Aspinall

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Outline

- 1. Sites
- 2. Windows
- 3. Sensors
- 4. Images
- 5. Budget

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- 6. Success rate
- 7. Windows interaction
- 8. Problems HR
- 9. Problems SAR

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Sites

- 183 sites planned to be covered by HR sensors (+20% compared to 2004)
- 49 sites programmed only for HR
- 61 sites (in BE, DE, DK, IE, LT and UK, above 50° parallel), planned for SAR back-up (17 completed - cfr.ahead)
- · AT did not participate in the CwRS Campaign
- PL, SI, MT, FI and LV required only VHR (Sat) data
- · PT required only HR (sat) data

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Windows

- 7 windows pre-defined for HR optical data collection:
- Winter
- Spring 1
- Spring 2

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- Summer 1
- Summer 2
- Summer 3

Total of 694 windows opened

2 time series (first choice triplet and second choice triplet) defined for 'radar' sites

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Sensors

- 6 HR sensors:
 - SPOT2, SPOT4 and SPOT5
 - IRS P6 LISS
 - Landsat 5 TM
 - Radarsat-1

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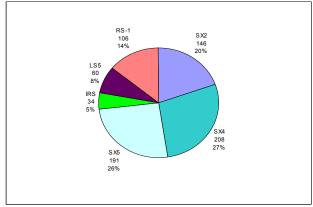






Images

745 images acquired: 639 optical and 106 radar (+10% compared to 2004)



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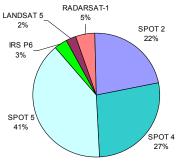
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Image Budget (only HR)

- >2 M € spent (+19% compared to 2004):
- Avg. number of images/site: 4 (including radar)
- Avg. cost of an image: 2.755 € (including radar)
- Avg. cost/site: 11.218 € (including radar)



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rate (success closed)

> 94% 97% 93% 90% 84% 100%

Success rate (optical HR)

 The average success rate was 94% (same as 2004): bad weather during summer over Central Europe!

	Success					closed (optical available)	failed	Total Windows	
Window/sensor	SX2	SX4	SX5	IRS	LS5	Total			
Autumn	11	63	48	3	14	139	1	7	147
Winter	3	6	7		1	17		1	18
Spring1	32	56	38	11	16	153	6	5	164
Spring2	37	43	44	11	17	152	3	12	167
Summer1	55	36	38	7	11	147		16	163
Summer2	5	4	10	2		21		4	25
Summer3	3		6		1	10			10
Total Images Available	146	208	191	34	60	639	10	45	694

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Windows 'interaction'

- As last Campaign, VHR data acquisition could close an HR window, with contractor's agreement: this occurred 5 times (AACH,HESK,HOOF Spring 1; GRIE,TREB Spring 2)
- 4 windows closed due to aerial and RFV back-up availability
- This Campaign excluding DK and BE sites optical data acquisition could also stop radar programming: this happened for 44 out of 61 sites! Result: only 17 time series have been completed.

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Comments/problems during the Campaign: optical data

- 4 images processed with incorrect coordinates (e.g. autumn DE_FLEC)
- 14 LS5 TM scenes (e.g.BE_FERN, DE_ZBDW), affected by Landsat5 processing failure [end May/early June 2005] which caused (in some cases) extensive delays in production.
- 3 images with saturated bands
- 3 incorrect images & 3 corrupted files uploaded in LIODOTNET
- 1 site cancelled after acquisition. Reported non-use of HR data due to VHR data availability (e.g.EL_TIDA VHR images used in place of SX4 Spring 1)

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Comments/problems during the Campaign: SAR data (1)

- In the beginning of the Campaign, urgent replacement of second choices triplets required on 11 sites out of 61
- Satellite anomaly on the site BE HORE caused the cancellation of the site
- Due to the availability of good optical images, only 17 triplets have been completed.
- 3 MS downloaded the data (IE,DK,BE) but only BE Wallonie used them

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Comments/problems in the campaign: SAR data (2)

- Slow communication flow JRC-Provider
- Late information on images' availability
- JRC committed SARMAP to carry out a study on SAR data processing (orthorectification and filtering) but data were delivered late (K-SAT had SW problems in SLC pre-processing)

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Administrative problems

- Adaptation to the new system LIODOTNET (all)
- Problems in accessing/using LIODOTNET (K-SAT)
- Chasing people for LIODOTNET updating (contractors)
- Late delivery of some products (Eurimage)
- Late start of invoices' payment (JRC)
- Late nomination of contractors [EL (1st June) and PT (11th Aug.)]

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Thanks for your attention!!

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Presentation 4 - Acquisition of VHR satellite data

Mihaela Fotin JRC, IPSC, Agrifish Unit

Abstract

The presentation gives a summary of the 2005 Very High Resolution (VHR) satellite image acquisition campaign as part of the operational Control with Remote Sensing activities.

At the 2005 CwRS Campaign 23 Member States with 27 contractors participated. The number of the VHR sites controlled was 161, with size between 190 and 2000 km2, of which: 61 QuickBird, 97 Ikonos, 1 Eros only and 2 SPOT5 supermode only. Were acquired and distributed 335 images.

The total area planned was 130,833 km2 and 129,587 km2 was acquired.

The presentation gives detailed statistics on the, number and distribution of sites, total area planned and acquired per sensor, country and acquisition window success rates. An analysis is provided for all image providers for the period between window opening dates and the final image acquisition dates.

The image acquisition campaign 2005 was successful due to the proficiency of all the parties involved: image providers, contractors, national administrations and CwRS image acquisition team.

Keywords: Very High Resolution (VHR) Satellite Image Acquisition, CwRS



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Summary statistics of 2005

VHR Image Acquisition Campaign

- > VHR acquisition 2005
 - budget, sites, acquisition windows, cloud cover
- Results (detailed statistics per provider)
 - success rates
- **Conclusions**

VHR Statistics - 2005 Campaign/ M. Fotin, P. Åstrand

11th Annual CwRS Conference, November 2005, Kraków, PL





1

2



VHR image acquisition 2005 - budget, sites

DG AGRI finances imagery through:

- · Council Regulation (EC) 165/94 and
- · Commission Regulation (EC) 601/94

HR/ VHR budget 4.989.000 euro

- VHR budget 2.995.000 euro

Participants 23 Member States

(AT,PT not participating)

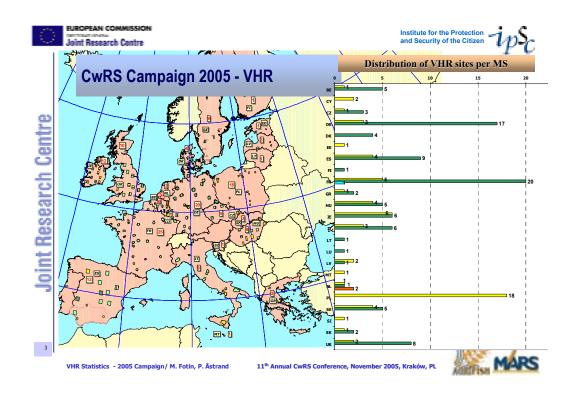
No. of sites controled | 161

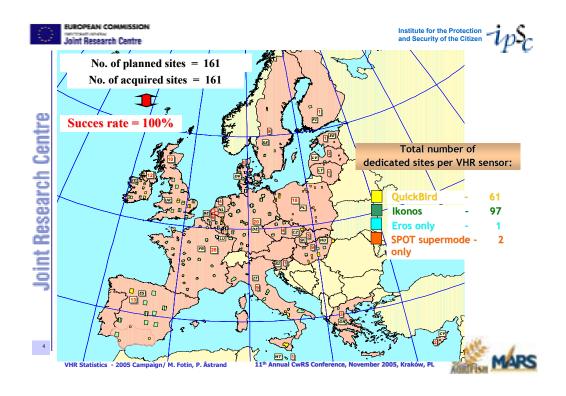
VHR Statistics - 2005 Campaign/ M. Fotin, P. Åstrand





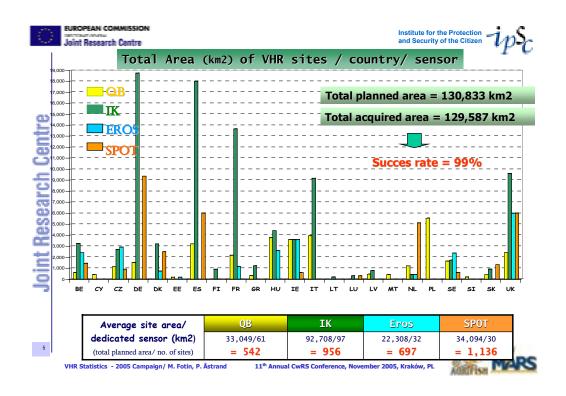
DIRECTORATE GENERAL JRC JOINT RESEARCH CENTRE – ISPRA Institute for the Protection and Security of the Citizen Agrifish Unit

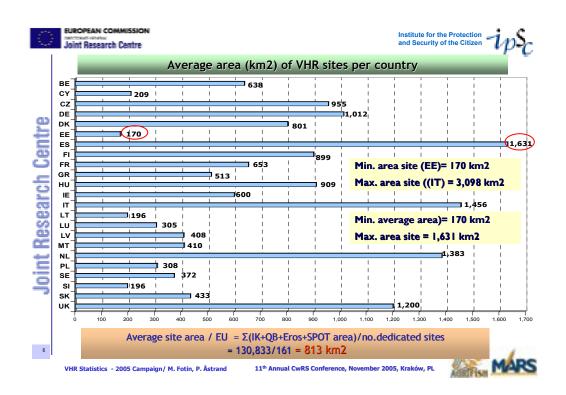






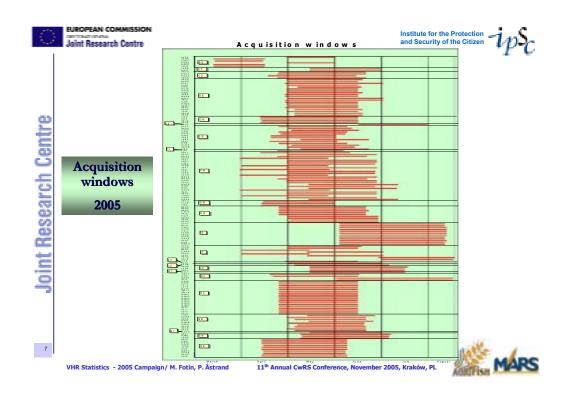
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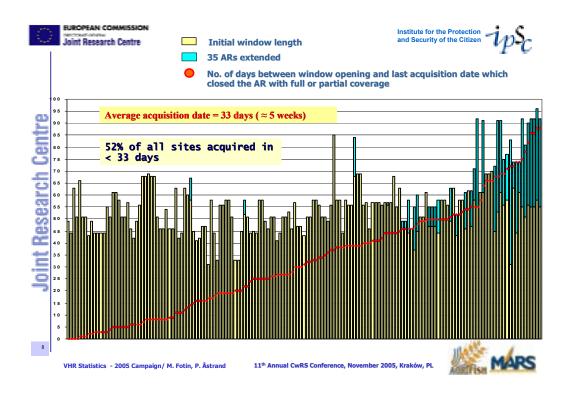






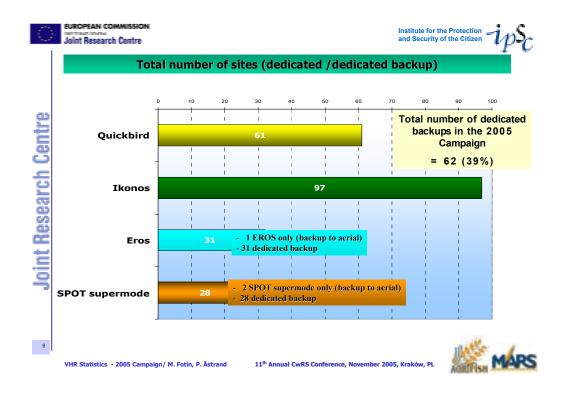
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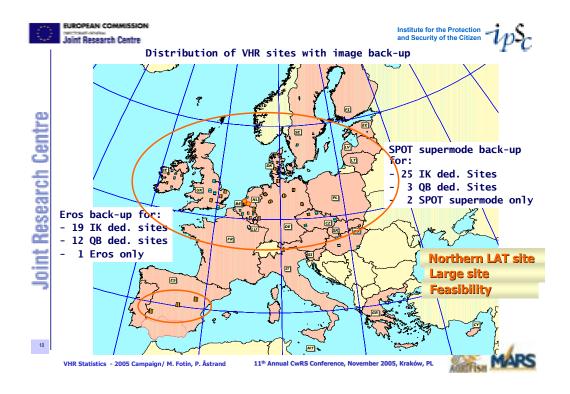






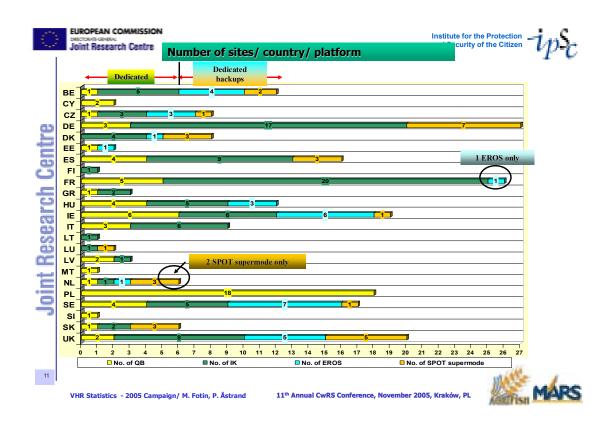
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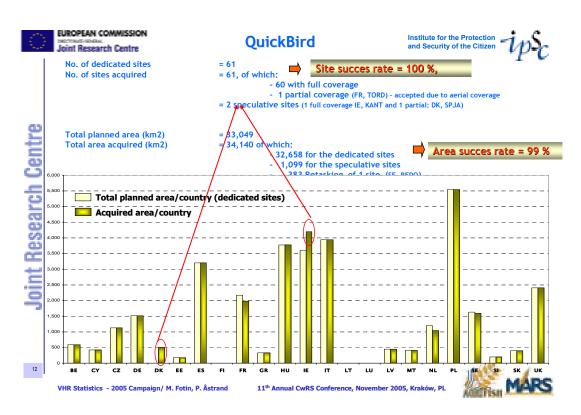






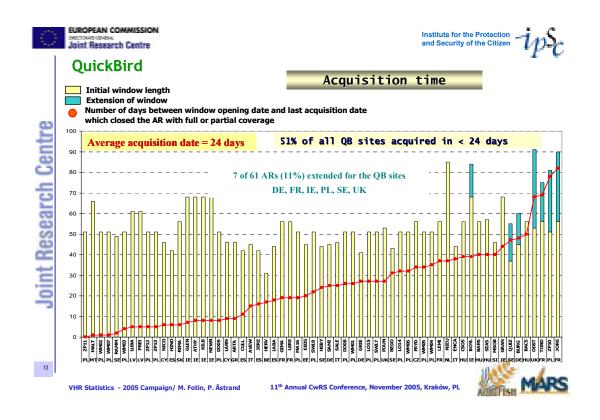
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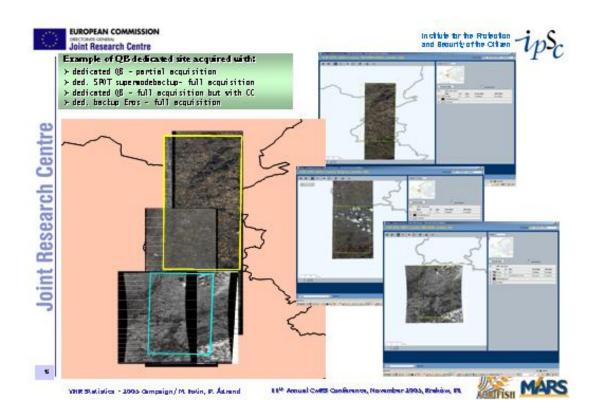
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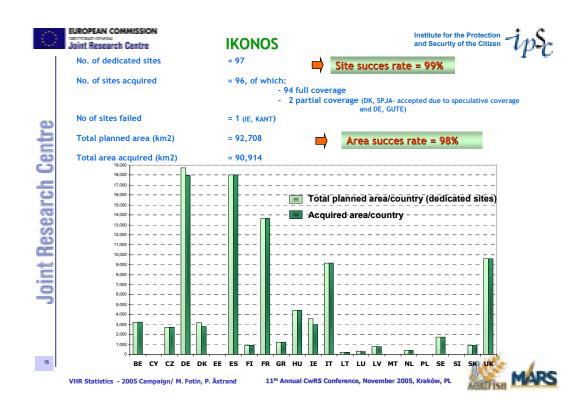






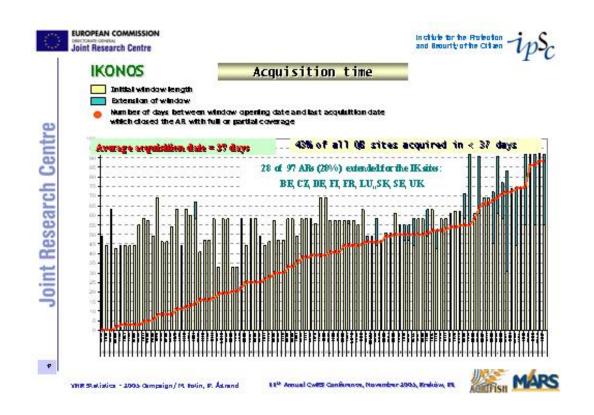
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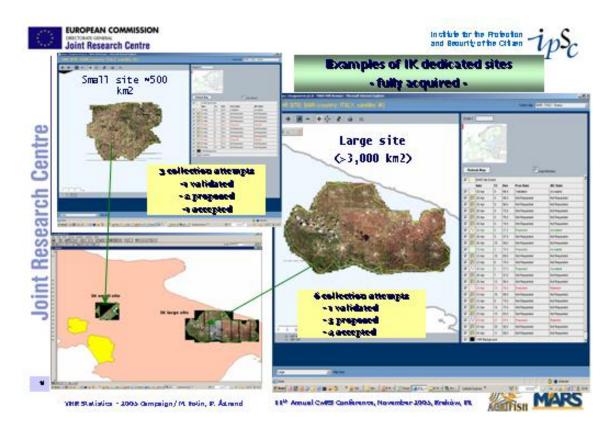






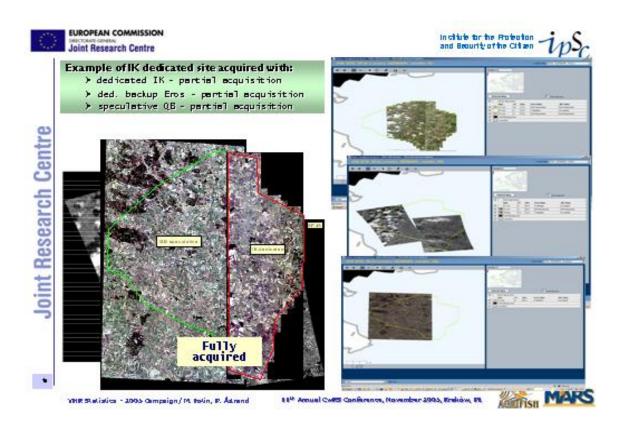
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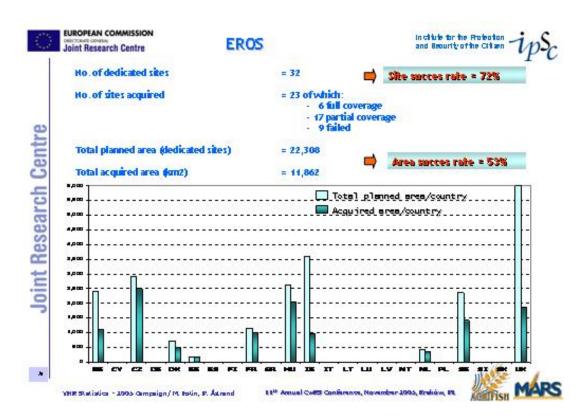






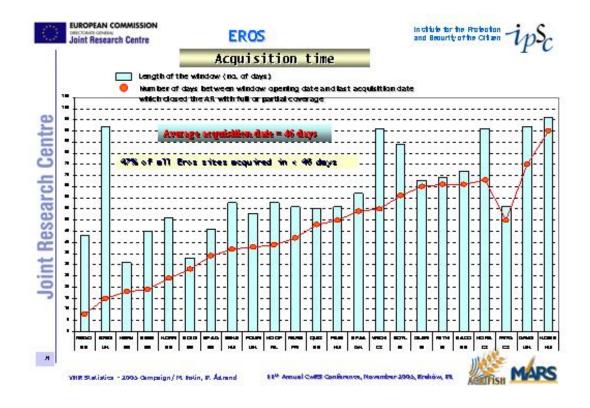
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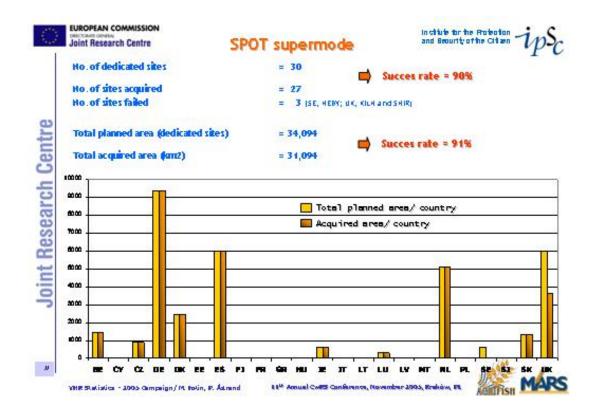






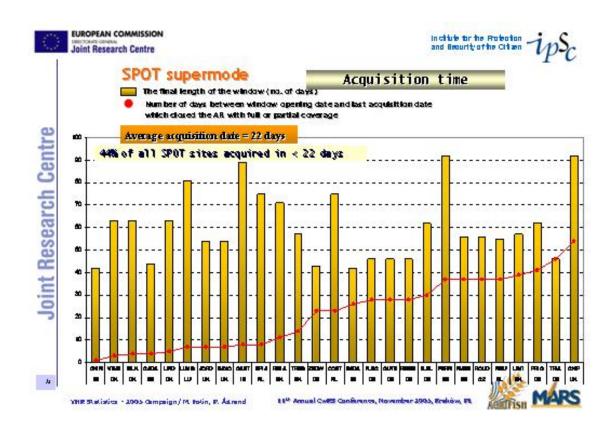
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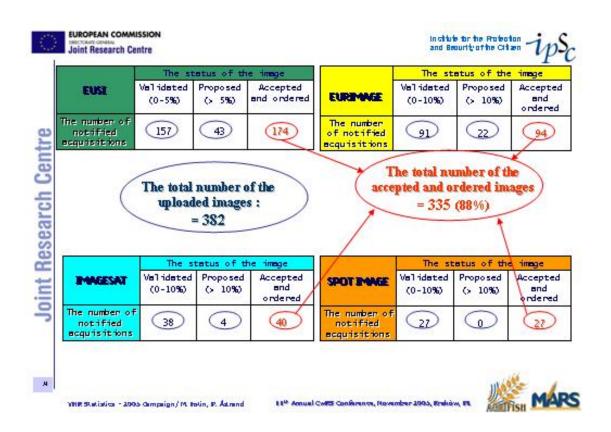






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Images uploaded by Provider - Cloud Cover

All Image Providers used LIODOTNET server to upload : validated, proposed, backup, and speculative backup imagery (in case of VHR image with their related shapefiles)

Images uploaded/CC	< 5%	5 - 8%	2 - 10%	10 - 12%	s 12%	TOTAL
EURIMAGE	82 (78%)	8	1	10	12	113
EUSI	157 (79%)	12	10	5	16	200
IMAGESAT	25 (60%)	9	4	4	0	42
SPOTEMAGE	27 (100%)	0	0	0	0	27
TOTAL	291	29	15	19	28	382

m	< 22	= 76.0 % of total uploaded	(391)
CC	5-10%	= 11.6 % of total unloaded	(40)
α	» 10%	= 12.4 % of total uploaded	(47)

		Proposed	Accepted	
EURIMAGE	(CC>10%)	22	3	13.6%
EUSI	(CC> 5%)	43	17	39.5%
IMAGESAT	(CC>10%)	4	2	50.0%

WHR Statistics - 2005 Campaign/ M. Bolin, P. Astrand

11th Annual Cw85 Conference, November 2005, Brekow, Ft.





Conclusions



- Successful campaign
- High success rate maintained (100% for sites & 99% for area)
- **Expenditure within budget**
- Use of VHR satellites at a maximum technical capacity
- Good collaboration between all actors involved in image acquisition campaign (mage providers JRC contractors MS Administrations) importance of quick reaction of all actors within LioDotNet
- Cloud cover assessment still needs to be homogenized
- Use of multiple CC imagery to mask out clouds

In reality, the image providers acquired approximately 3-5 times as much area as was accepted



More imagery could be provided to contractors to deal with cloud cover

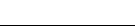
✓ VHR backup ~ 40% will be maintained in the 2006 Campaign - how useful?

23-25 November, 2005, Krakow, Poland

Use of Lio DotNet server and MARS VHR Browser to ensure a good interaction for the acquisition management of the 2006 Campaign

WHE Statistics - 2005 Campaign/M. totin, P. Astrand

11th Arnual Cw85 Conference, November 2005, Brekow,





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Presentation 5 – Organising 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005, part 1

Pär Johan Åstrand

AgriFish Unit, European Commission JRC

Abstract

This presentation will give an introduction to whole process of the VHR Satellite Remote Sensing data image acquisition in the 2005 years Campaign from an organisation, and resources perspective, before giving the word to two typical image providers (EUSI, Eurimage) deeply involved in the technical aspects related to image acquisition for the Campaign.

As preamble it is important to stress two main issues;

- 1.)VHR image acquisition within the CwRS of area-based subsidies is done to provide the MS Administrations with imagery (a tool) to be able to adhere to Regulatory parcel measurement tolerances required in the controls process; the Commission Regulation (EC) 796/2004 § 6 states that "MS shall ... ensure that agricultural parcels are reliably identified...and enable each agricultural parcel to be located and measured", further § 30 of same regulation on determination of areas, states "that a measurement tolerance may be defined by the competent authority that shall not exceed either 5% of the agricultural parcel area or a buffer of 1.5 m applied to the perimeter of the agricultural parcel"
- 2.)On the basis of the Council Regulation (EC) 165/94 and of the Commission Regulation (EC) 601/94, Commission Services are required to centralize the satellite images acquisition. This task has been transferred to DG JRC since 1999 (ref.17 September 1998/VI/34942). This is, since 2002, managed through a subdelegation of signature by DG AGRI to DG JRC. i.e. Satellite imagery for the CwRS programme is financed by the Commission Services (DG AGRI).

Having said this, the presentation will briefly detail the CwRS workflow, the Image Acquisition workflow (with respective player, and action), the human resources involved, and mention some numbers on IT technology (LIODOTNET) transactions.

Keywords: VHR Very high resolution, CwRS Control with remote Sensing, tolerance, IT technology, and LIODOTNET (a WEB based informatics application).



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Organising 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005

JRC part 1;

the VHR Satellite Remote Sensing data image acquisition in the 2005 years Campaign from an organisational, and resources perspective

130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand











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preamble

- VHR image acquisition within the CwRS of area-based subsidies is done to provide the MS Administrations with imagery (a tool) to be able to adhere to Regulatory parcel measurement tolerances required in the controls process
 - Commission Regulation (EC) 796/2004 (§ 6, § 30)
- Satellite imagery for the CwRS programme is financed by the Commission Services (DG AGRI)
 - Council Regulation (EC) 165/94, Commission Regulation (EC) 601/94
 - managed through a subdelegation of signature by DG AGRI to DG JRC.

130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand



23-25 November, 2005, Krakow, Poland

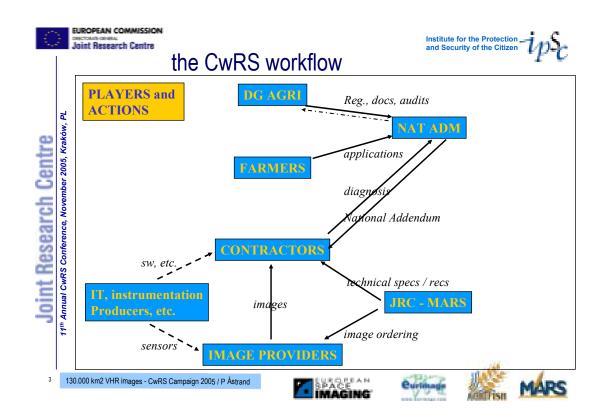


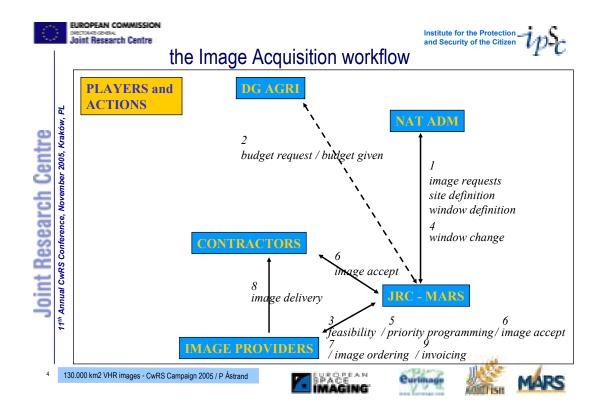






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the Image Acquisition - sample actions

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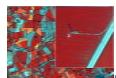
1

image requests site definition window definition

- 161 sites
 - dedicated prime QB, IK
- 62
 - dedicated backup EROS, SPS (39%)
- total area 130,000 km2
- 35 extended windows



- 382 images uploaded
 - validated or proposed
- 335 images accepted
- image providers manage a volume of approx 3-5 times the volume they sell
 - i.e. total VHR area acquired is 3-5 times the 130.000 km2



130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand













Human Resouces

DG AGRI

- 1-2 staff active part time:

0.5 mm

National Administrations

- 23/25 MS; 1staff 1 mm on image acquisition, risk analysis etc.:

23 mm

JRC - MARS

- 3-4 staff full time during campaign (6+ month):

24 mm

Image providers

- 6 providers with 2-3 staff each through Europe, Israel, US full time during campaign (6+ month):

72 mm

Contractors

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 approx 30 contractors with 1 staff working ½ time on image acquisition/validation during campaign (6+ month):

90 mm Total ≈210 mm















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Annual CwRS Conference, November 2005, Kraków, PL

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IT Technology - LIODOTNET (and VHR Browser)

120 Interactive users

9.757 Acquisition Request published

221 Sites defined

621 Windows defined

2,023 Uploaded acquisitions

450 **Orders**

Mails sent 10.230

What is LioDotNet

Note - statistics valid for HR/VHR Campaign

130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand







between different actors







VHR Image Acquisition

- How does all this work, or detailing some aspects of this work:
 - EUSI (a typical image provider)
 - order entry through to image acquisition, including order feasibility checks, weather forecasts, direct tasking, and collection strategies
 - Eurimage (another typical image provider)
 - · CC assessment, notifications of full/partial acquisition with LIODOTNET, validated and proposed acquisitions, image production and delivery, invoicing procedure







130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand



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JOINT RESEATCH CENTRE "Annual CWRS Conference, November 2005, Kraków

- thank you!
- · par-johan.astrand@jrc.it

9 130.000 km2 VHR images - CwRS Campaign 2005 / P Åstrand











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Presentation 5 – Organising 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005, part 2

George Ellis

EUSI GmbH

Abstract

Following part 1 presented by JRC, in part 2 EUSI will focus on the procedures from order entry to image acquisition, including order feasibility checks, weather forecasts, direct tasking, and collection strategies.

In detail this will expand on

- geometric and resource order feasibility using order priorities, historical weather data, and collection capacity over Europe
- weather forecast models for pass selection
- collection schedule editing for direct tasking using real-time weather information
- collection strategies specific to the 2005 VHR campaign

Keywords: VHR, weather forecast, image acquisition, direct tasking



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Organizing 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005

European Space Imaging Part 2:

The VHR Satellite Remote Sensing data image acquisition in the 2005 years Campaign: from order entry to image acquisition

130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI













From Order Entry to Image Acquisition

- Feasibility study
- Weather forecast
- 3. Direct tasking
- Collection strategies
- **Efforts** 5.

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2 130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI











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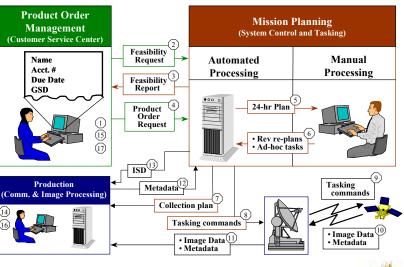
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Ground Segment Interfaces

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130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI













1. Feasibility Study

- Geometric feasibility
 - Repeat rate
- Resource feasibility
 - Historical weather
 - Regional demand

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130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI



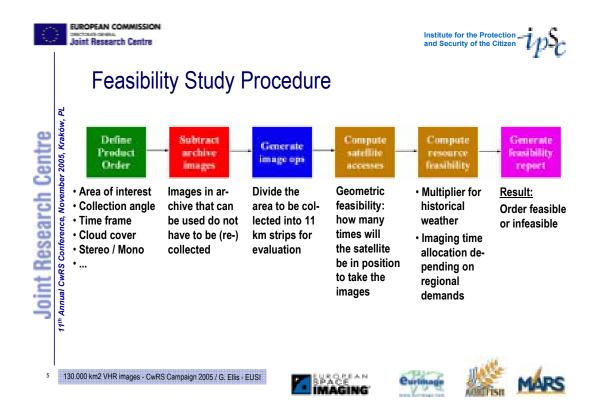


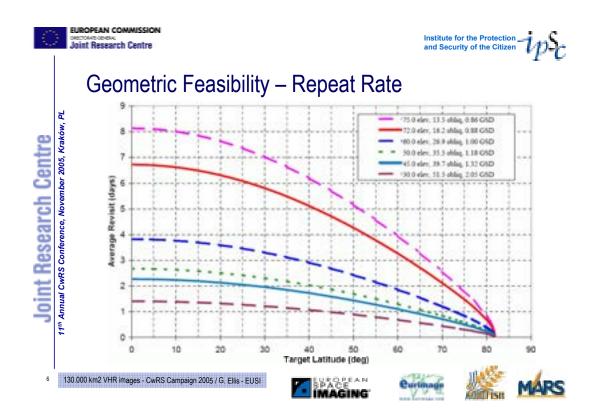






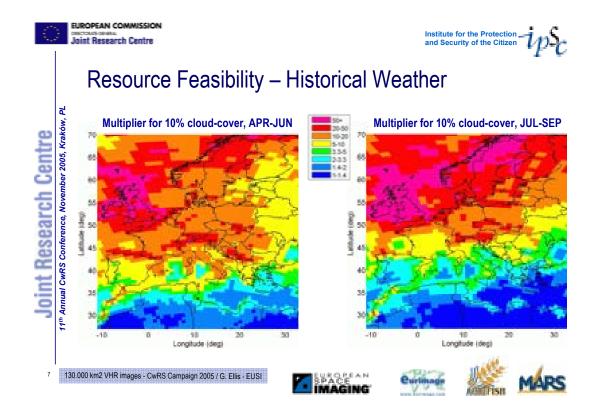
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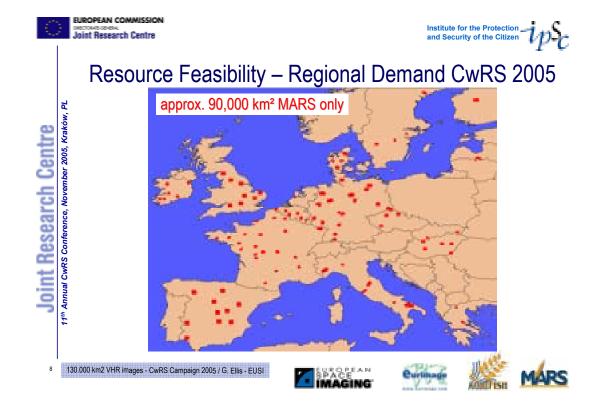






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2. Weather Forecast

- Time line
 - up to 1 month prior to pass: pass request (no weather forecast)
 - 48 hrs prior to pass: pass confirmation
 - 48 to 36 hrs prior to pass: exact activity window determination
- Forecast models
 - Freely available (SKIRON, BOLAM, NMM22...)
 - Commercial services

130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI





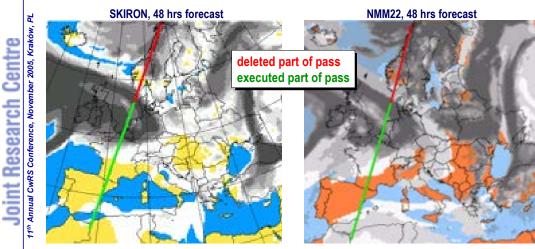








Different Forecast Models for the Same Pass



→ Activity window change 02-JUN-2005



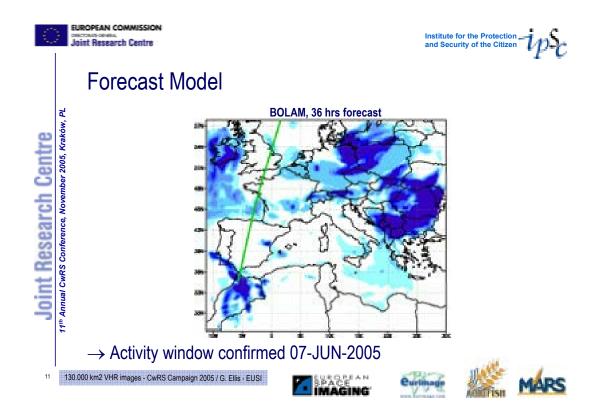


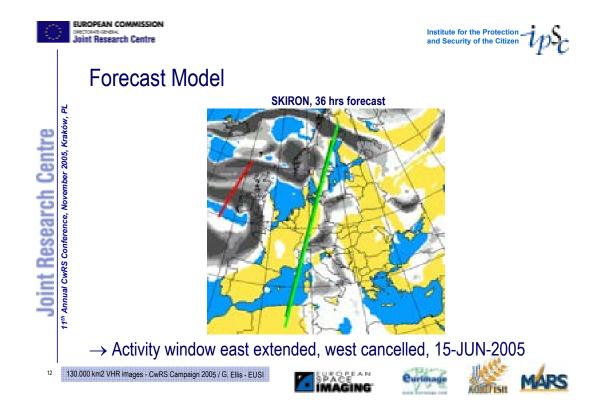






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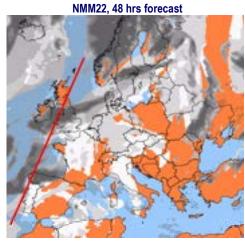
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Different Forecast Models for the Same Pass

SKIRON, 48 hrs forecast Annual CwRS Conference, November 2005, Kraków, PL Joint Research Centre



→ Activity window cancel 25-JUN-2005

13 130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI













3. Direct Tasking

- Time line
- Collection opportunity
- 24-hr scheduler
- Near-real-time weather
- Schedule editing process

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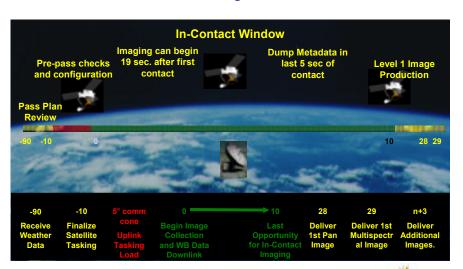
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Time Line for Direct Tasking

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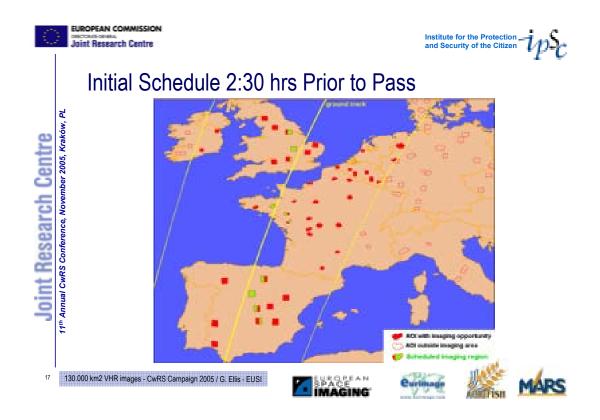


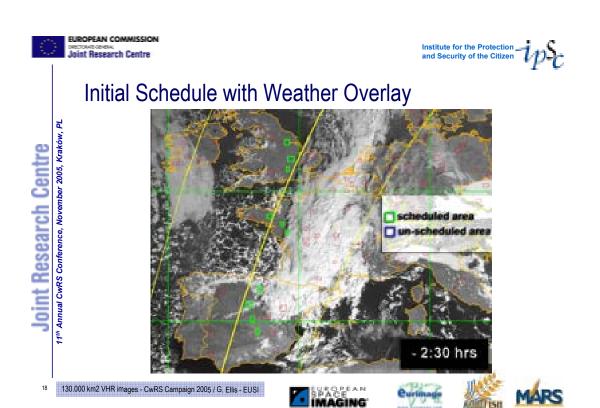






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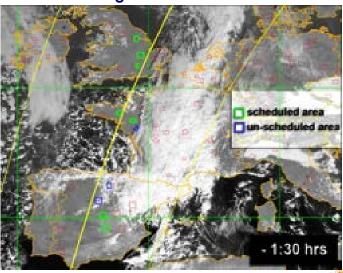
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First Schedule Editing Iteration

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Annual CWRS Conference, November 2005, Kraków, F



130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI





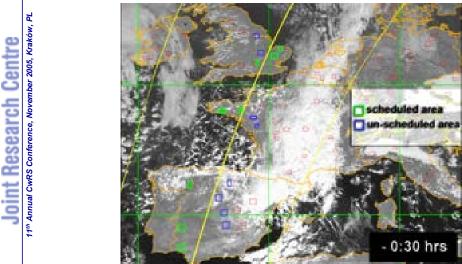








Final Collection Schedule 30 Minutes prior to Pass













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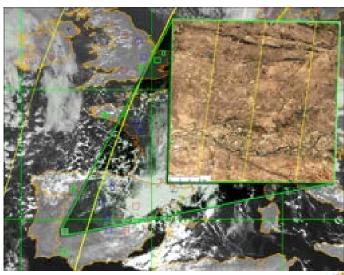
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Example Result of Collection





130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI













4. Collection Strategies

- · Single pass collections
 - Standard strategy
 - Strategy for CwRS Campaign
- · Multiple pass collections
 - Standard strategy
 - Strategy for CwRS Campaign

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Institute for the Protection and Security of the Citizen

Single Pass Collection

Standard strategy

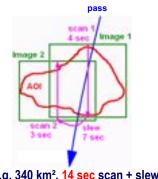
- Maximize generic area
- Minimal imaging overlap



23 130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI

CwRS strategy

- Minimize satellite time usage
 - → Saved time is used to point satellite at next target



e.g. 340 km², 14 sec scan + slew





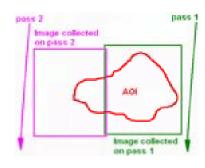




Institute for the Protection and Security of the Citizen Multiple Pass Collections

Standard strategy

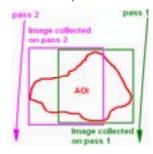
- Maximize generic area
- Minimal imaging overlap



e.g. 440 km² collected, 20 km² overlap

CwRS strategy

- Maximize imaging overlap
- Minimize cloud cover
 - → Overlap eliminates clouds



e.g. 370 km² collected, 110 km² overlap











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5. Efforts for CwRS 2005

Persons operationally involved at EUSI

- Operations Manager	2 @ 50 % each
- Satellite Tasking Controller	1 @ 70 %, 3 back-up
- Ground Station Software Administrator	1 @ 70 %, 3 back-up
- Ground Station Hardware Administrator	1 @ 70 %, 3 back-up
- Product Order Manager	1 @ 100 %, 2 back-up
- Production Manager	1 @ 40 %, 3 back-up
- Administration Manager	1 @ 50 %
- Sales Manager	1 @ 20 %
- General Manager	1 @ 10 %

Collections

- Number of collections: 344 - Total area collected incl. overlap & recollections: 355900 km²

130.000 km2 VHR images - CwRS Campaign 2005 / G. Ellis - EUSI













Thank you for your attention

www.euspaceimaging.com

gellis@euspaceimaging.com info@euspaceimaging.com



23-25 November, 2005, Krakow, Poland









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Presentation 5 – Organising 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005, part 3

Axel Oddone

Eurimage SpA

Abstract

Following part 1 and 2 presented by JRC and EUSI, in part 3 Eurimage will focus on the final working procedure for the 2005 VHR campaign, after that an image has been acquired.

This will include: CC assessment, notifications of full/partial acquisition through upload in LIODOTNET, validated and proposed acquisitions, image production and delivery, invoicing procedure. All the intensive interactions between JRC-suppliers-contractors, especially through the use of the LIODOTNET and VHRBrowser on-line tools, will be clearly shown.

Keywords: VHR, Cloud Cover, LIODOTNET, VHRB, image delivery



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Annual CWRS Conference, November 2005, Kraköv

Organising 130.000 km2 of VHR image acquisition for the CwRS Campaign 2005

Eurimage part 3;

the VHR Satellite Remote Sensing data image acquisition in the 2005 years Campaign: from acquisition to image delivery and invoicing

Axel Oddone - Eurimage













After the acquisition has been made...

- Few hours after acquisition we receive via FTP from the US a Browse Image, level 2A processing in Natural Colors, with 16 m resolution in GeoTIFF format
 - File size between 5 and 180 MB, depending on viewing angle and strip length
 - Overall 2005 VHR campaign QuickBird Browse Images data volume: 8 GB
- We load the Browse Image into ArcGIS 9, to perform Cloud Cover evaluation

Axel Oddone - Eurimage



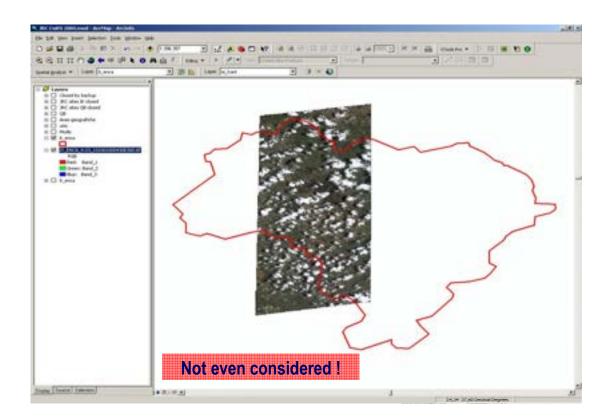








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Cloud Cover evaluation

- · Pixel-based classification of clouds, on the area intersection between:
 - Acquisition strip and Site area
 - Exclusion of areas of acquisitions already validated by JRC
- Importance of human operator to understand value of:
 - Clouds and Haze
 - Distribution of clouds

Axel Oddone - Eurimage













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Cloud Cover evaluation

• 3 possibilities:

- if CC < 10%

→ image validated

- if 11 < CC < 30%

→ image proposed

- if CC > 31%

→ image discarded

 Subareas may be validated/proposed for each acquisition, if > 100 Km²

Axel Oddone - Eurimage

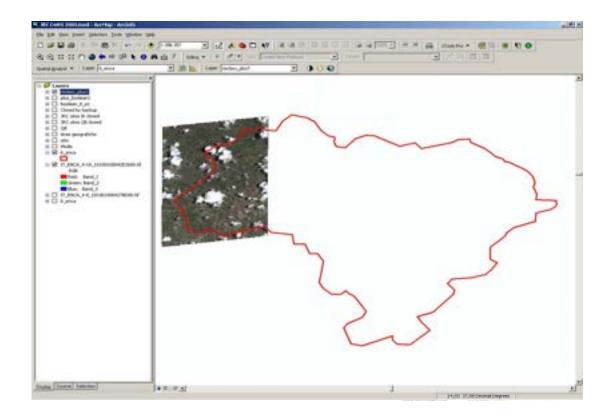
Annual CwRS Conference, November 2005, Kraków, PL





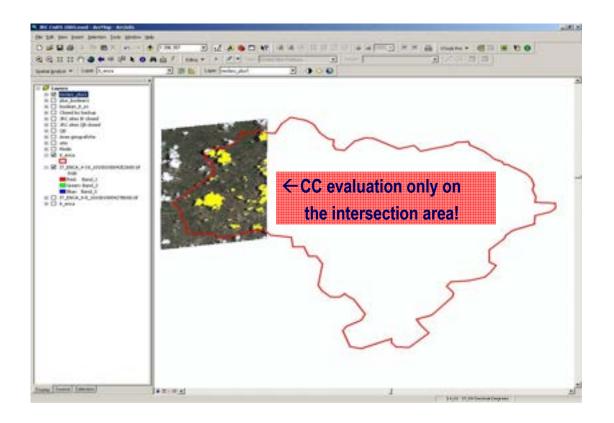


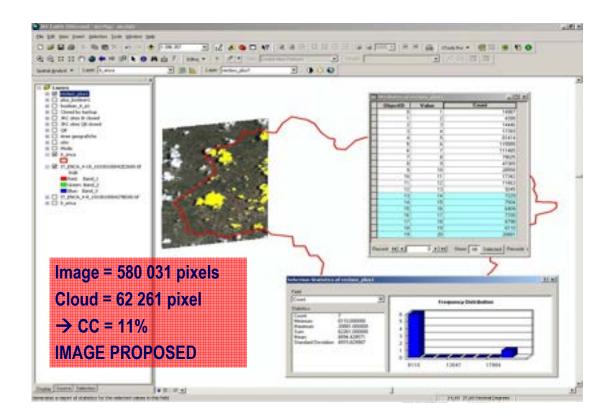






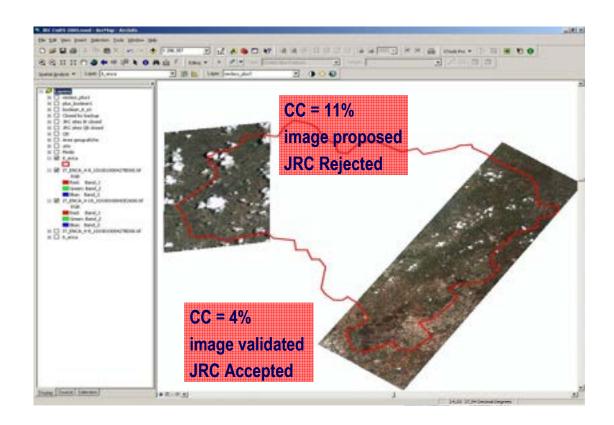
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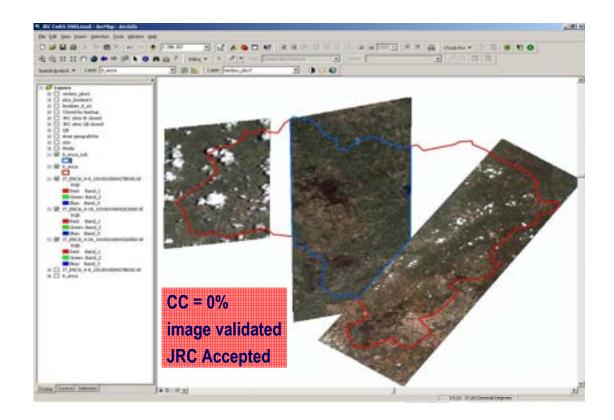






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Upload of acquisition into LIO DOTNET

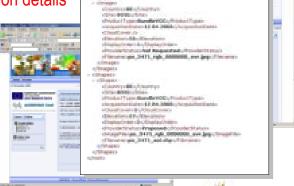
· We find the site page into the system and we upload a zip file containing:

- XML file with acquisition details

- Browse Image
- shape file if needed
- · We receive an upload confirmation by LIO via e-mail



Axel Oddone - Eurimage









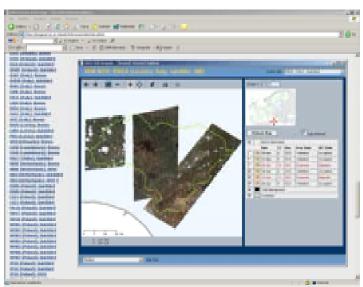






VHR Browser

The Joint Research Centre acquisitions can be seen and downloaded from the VHRB, the JRC on-line **GIS** application



Axel Oddone - Eurimage



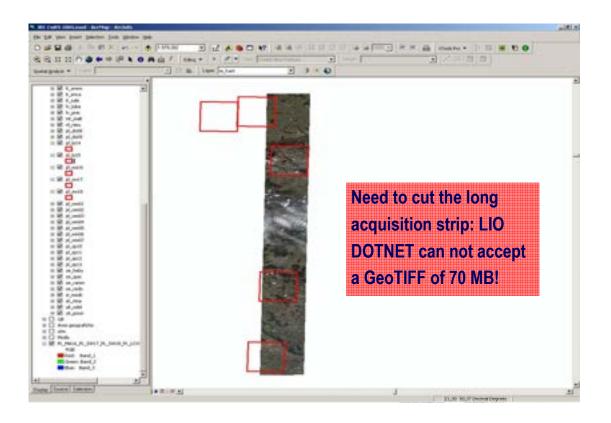


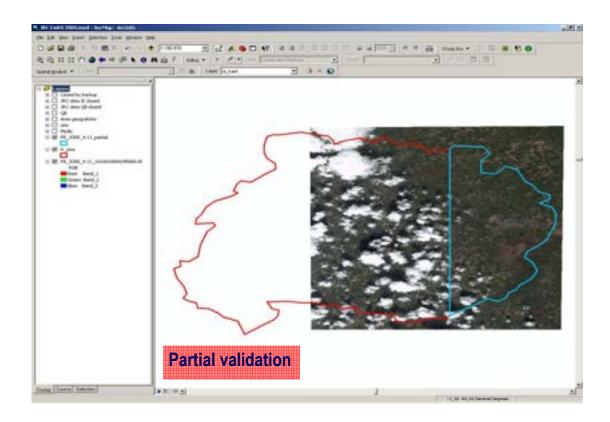






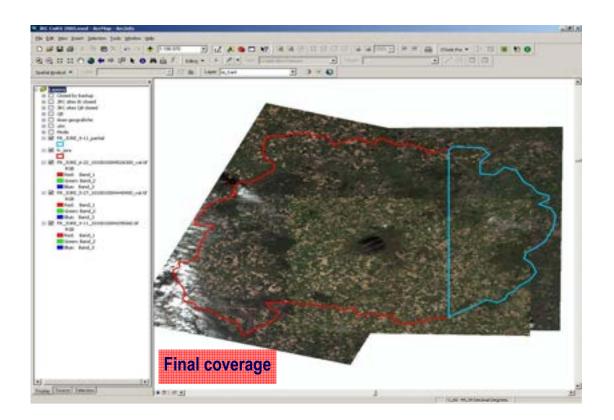
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Procedures 1

- After having uploaded acquisitions into LIO, we need to wait LIO e-mail with JRC acceptance/rejection:
 - Acceptance if acquisition validated
 - Acceptance/rejection for proposed acquisitions, after contractor comments (through LIO) @
- After order completion (or in case of partial shipment):
 - LIO sends closing e-mail
- JRC sends Order Letter via fax
- we start an immediate and quick production of the images













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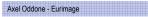




Procedures 2

- JRC clicks into LIO for every Order Letter:
 - Creation date
 - Signature date
 - Sent date
- We click into LIO the date when we receive the OL

















Procedures 3

- Shipment:
 - DVD via international courier
 - FTP download
- We click into LIO the shipment date and add a delivery note if needed (LIO sends upload notification)
- Contractors click into LIO the receiving date



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Joint Research Centre

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Procedure 4

- Invoicing procedure for each Order Letter:
 - We send an e-mail to JRC with a simulated invoice
 - JRC replies for acceptance or changes
 - We send the final invoice via priority mail
 - JRC certifies reception
- · All these actions require a click in the LIO



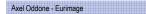


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Other automatic LIO notifications via e-mail:

- **Opening of every Acquisition Request**
- · Window extensions:
 - Acceptance of any partial acquisition
 - Closing old AR
 - Opening New AR
- · Closing of speculative backup sites **(a)**
- · Dedicated backup acquisitions
- Disabled acquisitions













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How many @ @ @ have you seen?

- · Definitely we handled a lot of e-mails this year!
 - More than 1,000 automatically received from LIO!
 - A lot of others due to discussions and invoicing
 - Everything in a few campaign months only...
- · We are only a little slice of the overall cake...
- I can only imagine how many E-mails are in JRC mailboxes!

Axel Oddone - Eurimage













Persons operationally involved during the VHR Campaign

- Eurimage:
 - 1 fully dedicated CSR (with at least 1 backup)
 - 1 dedicated technical support
 - 1 Project Manager
 - 1 dedicated Commercial responsible Officier
- DigitalGlobe:
 - 1 Strategic Account Specialist
 - Planning, Production & Shipment departments

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Overall volumes:

- 396 acquisitions
- 8 GB of Browse Images
- > 350 GB of images shipped to contractors
- Adding all the other satellite providers, the VHR campaign has really worked with big numbers this year!

Axel Oddone - Eurimage













Thank you for your attention!

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Presentation 6 – Organisation and strategy of image acquisition for the 2006 CwRS campaign in France

Fleur Francois-Chemery ONIC, FR

Abstract

In 2005, CwRS has been performed in 45 different sites. For each of them, four high resolution satellite images and one 1-meter resolution have to be provided. All these images have to be acquired and processed as quickly as possible to be able to finish the CAPI on the 15th of August. As a consequence it is necessary to imagine –especially for the 1-meter resolution image- solutions in order to guarantee the supply of the image for each site.

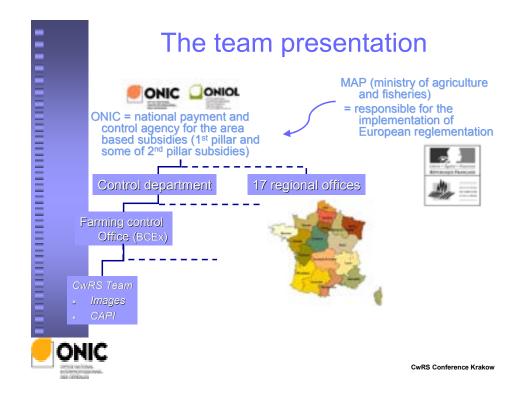
Three main actions will be developed in this presentation: the prioritisation of sites in order to enlarge the programmation acquisition windows, the use of different sensors (satellites and airborne) and choice of more than one contractor for the orthocorrection to maximize the production capacity.

The implementation of alert procedures minimizes the risk of missing an image or receiving it too late. This presentation will also describe the organisation of the different actors in the orthoimagery supply chain.



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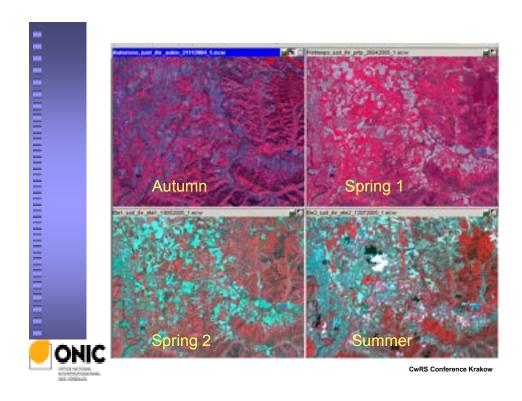
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The image requirements

- **45 control sites (33 142 Km²)**
- For each:
 - 4 HR satellites image
 - → Autumn
 - → Spring 1
 - Spring 2
 - Summer
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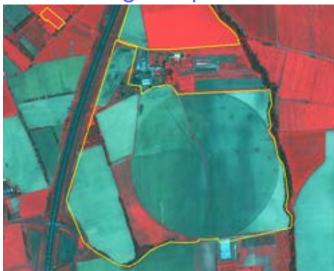
The image requirements

- 45 control sites (33 142 Km²)
- For each:
 - 4 HR satellites image
 - → Autumn
 - Spring 1
 - Spring 2
 - Summer
 - 1 one-meter resolution image (to measure the parcels)

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The image requirements



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Objectives

- Paying controlled applications at the same time as the others, after the 1st of December
- Ground inspections for rejected applications before the end of September



Finishing the CAPI before 15 th of August (official date for CAPI contractors)

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Constraints

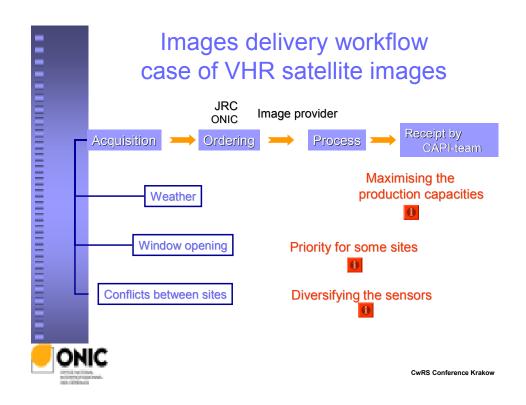
- Mid-June : beginning of the CAPI in 19 different CAPI-teams
 - with at least autumn, spring 1 & 2 images
 - and if possible the 1-meter image
 - Schedule constraint
- Providing the CAPI-teams with products which correspond to the technical recommendations
 - Accuracy
 - Internal Quality Check
 - Quality constraint

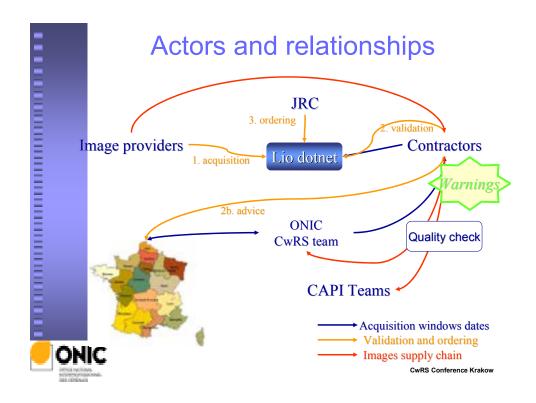
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The CwRS team actions

- Implementation with the JRC of acquisition strategy for the campaign.
- Defining the acquisition windows according to theoretical vegetative schedules
- Coordinating the different contractors in charge of image processing
- Reacting to requests from contractors, CAPIteams, JRC ...
- Deciding priorities if necessary

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Contractors' actions

Satellite images:

- Proposing if necessary acquisition window adjustments to the ONIC regional offices
- Communicating all the acquisition windows to the JRC
- · Quality check for a CAPI use
- Searching, proposing and validating archive images in case of acquisition difficulties
- Informing the ONIC regional offices of each validated acquisition.
- Receiving, processing and delivering within the deadline images to CAPI-teams

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Contractors' actions

Aerial photographs:

- Proposing an acquisition strategy according to the ONIC CwRS team acquisition windows already decided
- Carrying out some flight plans
- · Taking the aerial photographs
- Informing the ONIC team of each acquisition and validation
- Processing and delivering the orthophographs

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ONIC regional offices actions

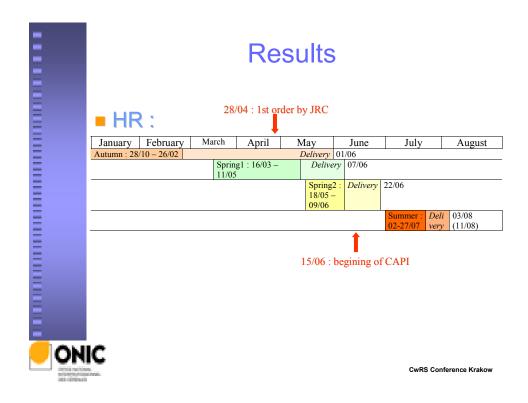
- Validating the opening acquisition dates.
- Giving their opinion about quicklooks
- Carrying out the ground data collection after each validated acquisition

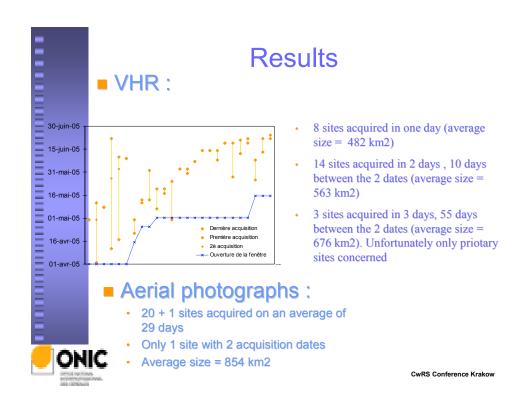






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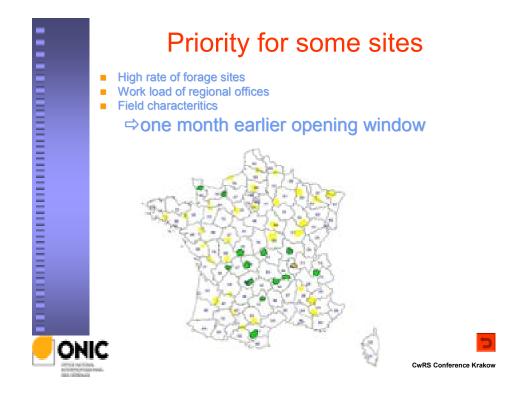
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To conclude, a few questions to improve our 2006 strategy and organisation:

- Which criteria should we retain in the choice of sensors (localisation, site area ...) to maximize the chance of having one day-acquisitions?
- How will the given priorities and the conflicts between sites be monitored? Could we expect to have programation plannings or estimated dates for the VHR acquisitions?
- What about the estimated date for the first order in 2006 ?

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Diversifying the sensors VHR / airborne orthophotos IKONOS / Quickbird according to: Site area Climate Rugged surfaces

Diversifying the sensors

VHR / airborne orthophotos

IKONOS / Quickbird

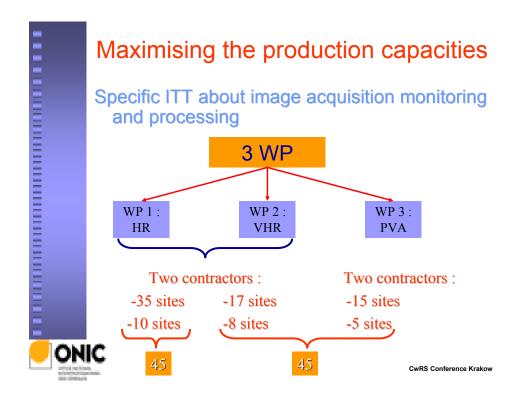
VHR satellite image
Quick-Bird
IKONOS

Aerial photograps
Silver-film camera
Digital camera



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Maximising the production capacities

- Delivery times :
 - ◆ Aerial photographs : 3 + 20 days
 - ◆ HR: 3 days
 - ♦ VHR : 7 days
- Quantities of images to process
 - According to production capacities shown in the tenderers' offer
 - Possible change of balance for the following campaign





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Presentation 6 - HORUS: a new centralised CAPI software in France.

Alain Petitjean

ONIC, FR

Abstract

Why new software? For three principal reasons:

The increasing part of the control with remote sensing above 80% of the checks,

The new CAP reform and the added difficulty in France with the decision of "recoupling" 25%

We are convinced of the capacity of remote sensing to prepare the GAEC controls and environmental controls of the 2^{nd} pillar.

The decision to set up the new software was taken in July 2003 and after tender the company SWORD ESRI was chosen in June 2004. After eight months of specification and development Horus was born in February 2005.

The architectural scheme of the software is centralised in ONIC Paris with images on the local CAPI site. The 19 CAPI sites (17 ONIC and 2 Contractors) are linked in real time to the central data base.

Other than the classic CAPI area the software is able to control nuts or prepare the GAEC spot check and the rural development spot check (PHAE). There is also an annual images referencing control site for operator training, and tools for the control campaign management.



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HORUS





A new centralised CAPI software in France







CwRS conference - Krakow- 23-25 november 2005

3 reasons for a new software

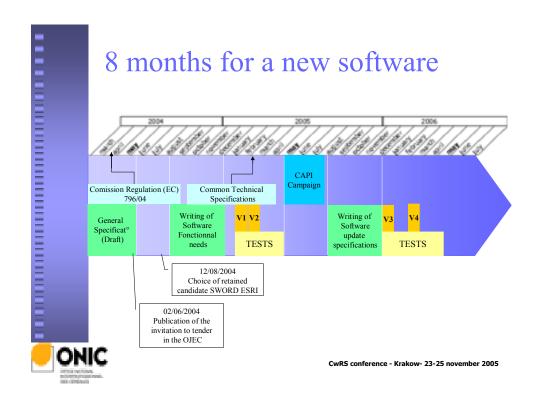
- > CAP reform from 2005→ no easy way to upgrade existing CAPI software
- ➤ Complication of national regulation → decision of "recoupling" 25%
- ➤ Majority part of RS controls (85% in 2005), → the solution must be centralized, easy to manage

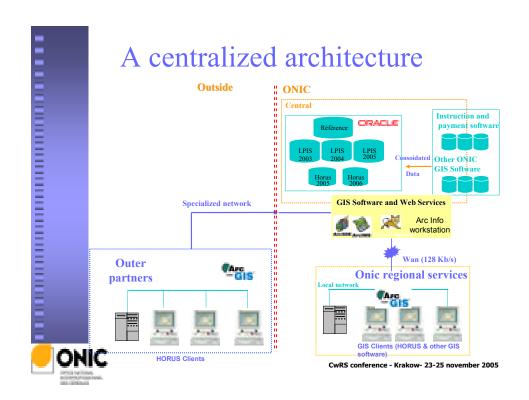


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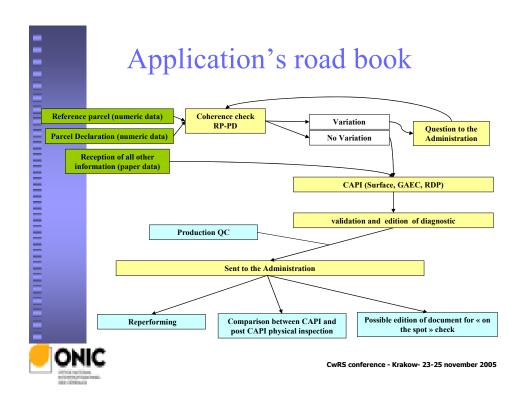
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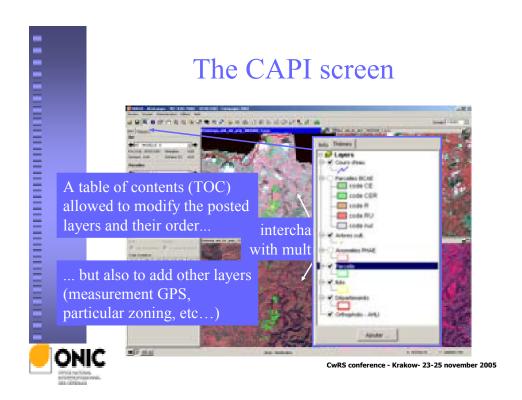






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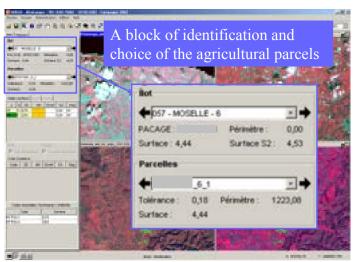




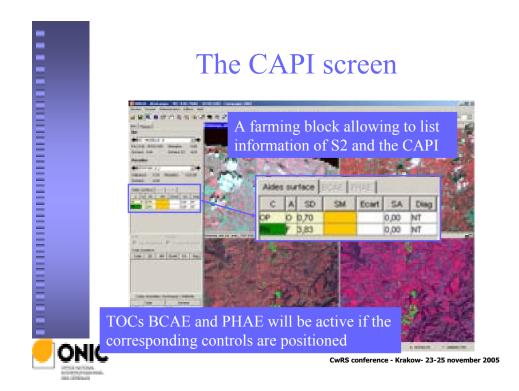
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The CAPI screen

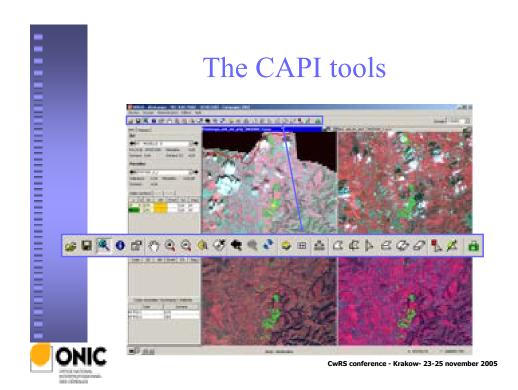


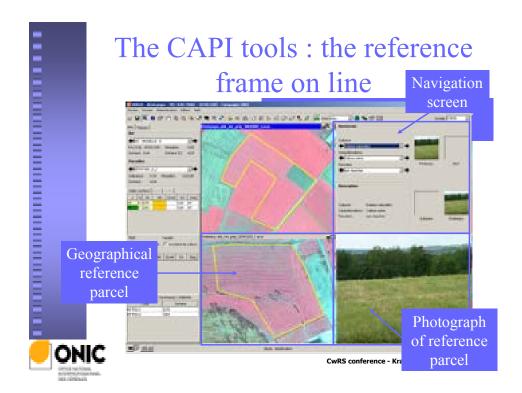
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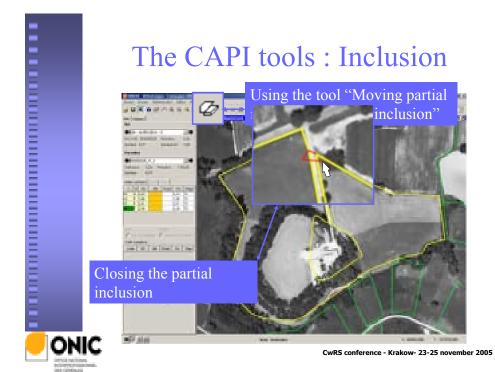
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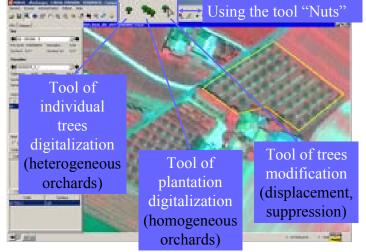


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The CAPI tools: Nuts





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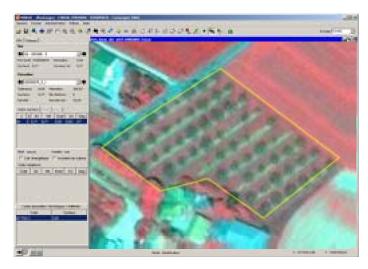
The CAPI tools: Nuts



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The CAPI tools: Nuts



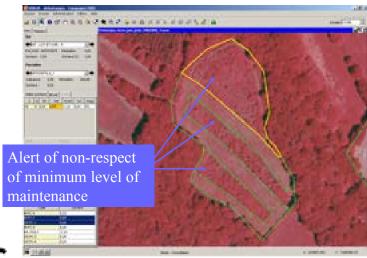
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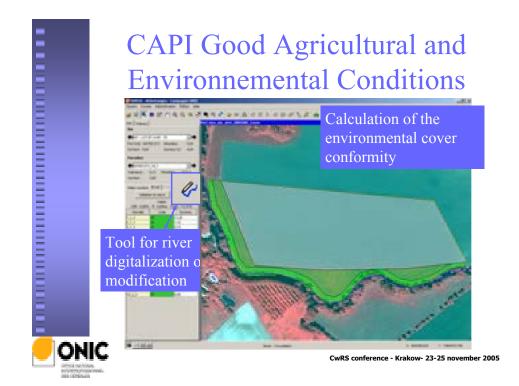
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CAPI Good Agricultural and Environnemental Conditions

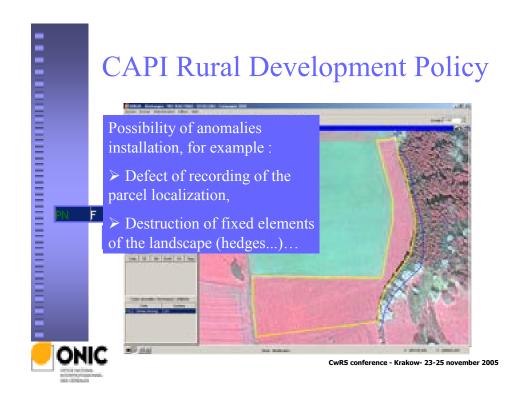


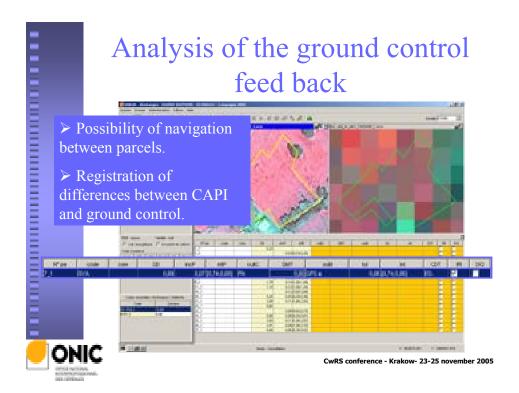
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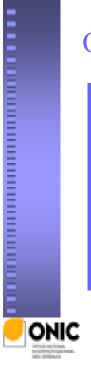






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Other modules and possibilities

- Diagnosis (with the dossier, the parcel, the financial compartment and various comments);
- Documents of ground control (cartographic...);
- > Questions to the administration;
- Integrated tools for supervision : Quality checks, Reperforming, Follow-up of dossier;
- *>* ...

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Production management

- > Easy way to produce weekly mainboard
- > Every project manager in CAPI unit can also look at real time information with a specific request tool.

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- ♦ A very good CAPI tool
- Distant support
- Distant quality ckecks
- Flexibility of organization, easiness of zone treatment management
- ◆ Real time statistics
- > Negative:
 - Sensitive to server's breakdown Security and maintenance guaranteed by specialized service

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SESSION 3 – Restricted Session for MS National Administrations

Chairman: Hervé KERDILES JRC, IPSC, Agrifish Unit

Presentations of SPS by MS: BE, IT, DE, DK, SE



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Presentation 1 - Overview of JRC questionnaire

Hervé Kerdiles - Agrifish Unit, IPSC, JRC





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Summary of the answers to the questionnaire on SPS implementation

Hervé Kerdiles, Olivier Léo JRC IPSC AGRIFISH

11th Annual CwRS Conference, 23-25 November 2005, Kraków, PL





Presentation outline



- Variation in number of applications
- Calculation of entitlements eligible ha, values
- eligible crops in SPS
- Agricultural parcel declaration
- Crop groups
- Importance of coupled payments
- New criteria in risk analysis

SPS survey / H Kerdiles, O Léo

11th Annual CwRS Conference, November 2005, Kraków, Pl.

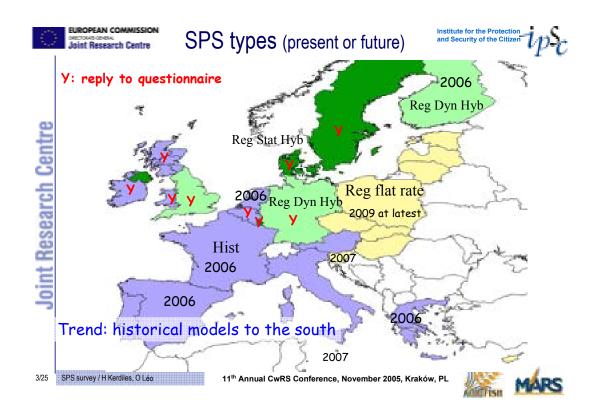


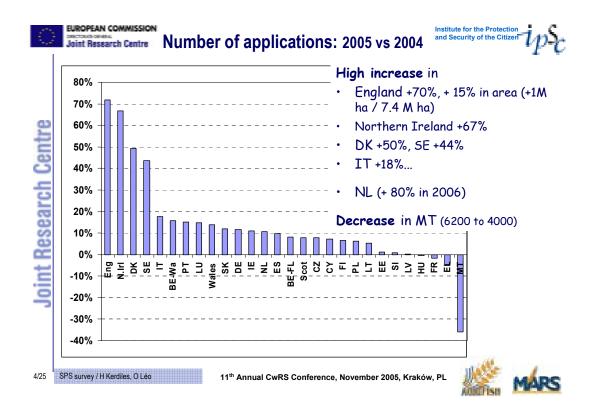


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Characteristics of new population Institute for the Protection and Security of the Citize



- Observed increase due to change in eligibility rules
 - Livestock farms: dairy farms & farmers < 15 LU (IE, BE, Scotland, SE)
 - Small farms in DK (grasslands), SE (small landowners), England (6 parcels on avg vs 24 for IACS applicants): horse keepers, horticulturists, pig farmers (now eligible)
 - Potatoes, vegetables and fruit producers (regional model, with sticker)
 - Farmers with no claim in 2004 and activating entitlements (IE, N Ireland, BE-Wa)
- Consequences on administrative controls? On risk analysis? (new applicants likely to make more errors, but may receive relatively low amounts of subsidies...)

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Entitlements - eligible ha



- **Regional** SPS: # entitlements = # eligible ha declared on 1st year
- **Historical** SPS: # entitlements = avg # of ha paid over 2000-2002 # entitlements < # eligible ha = Σ of crops now eligible for SPS (sugar beet, starch potatoes, grasslands not declared in the past...)
 - Scotland: 5.8 M ha claimed 4.2 M standard entitlements, 50 000 Set-Aside (73%)
 - BE Wallonie: 675 000 ha claimed 600 000 ha standard, 16 000 SA, 900 special (91%)
 - IE: 4.707M ha claimed 4.648 M entitlements (98%)

Consequences on risk analysis?

Sk Risk of a 100 ha farm with 80 entitlements?

Notification: temporary entitlements (March in IT, May in IE), definitive entitlements: Aug-Nov (IT), December (DK, LU, BE, Scotland, SE), not yet fixed (England, Wales, N Ireland, DE)

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Entitlements values



Regional model:

- normal entitlements ~ 300 €/ha (DE, DK, LU), 117 €/ha (N SE) -250 €/ha (S SE)
- Variations:
 - permanent grasslands ~ 70-80 €/ha (DE, DK), 117 €/ha (SE)
 - Set-aside: 80 € / ha (DE, LU), flat rate (? €/ha) in England (standard SPS = 90% historical + 10% flat rate)
 - · Authorized entitlements (vegetables, potatoes, fruit)
- Historical model: large variations due to "history"
 - normal entitlements: 0.03-5000 €/ha (BE Wa), 4 -1900 €/ha (Wales), 0.9-4300 €/ha (Scotland)
 - On average 312 €/ha in IT
 - Set-aside: 230-425 €/ha (BE Wa), 315-360 €/ha (Wales), 25-360€/ha (Scotland)

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SPS eligible crops



- Historical: All crops except permanent crops (nuts excluded but hops OK, olive grove OK in 2006), vegetables, table potatoes and fruit
- Regional: All crops except permanent crops.

Vegetables, potatoes and fruit may be accepted (if authorized i.e. "with sticker")

- Still need to identify vegetables, potatoes and fruit (before checking entitlement)
- Regional flat rate (in 10 NMS): all crops?
- Consequence on the need of HR images?



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Agricultural parcel declaration



Agricultural parcel: continuous piece of land, 1 farmer, 1 single crop group (last amendment to Com Reg 796/04 of Nov 2005)

🦴 Farmer may declare crop or crop group

- England: perm pastures (4 types), set-aside (8 types), energy crops (8 types, some with precise crop), 3 protein crops, vegetable-fruit-potato, flax, hemp, hops, 4 types of nuts, temporary grass (3 types) & other (i.e.
- CZ: arable, grasslands, vineyard, orchard, vegetable garden
- It's a simplification, but declaring crop useful for
 - Cross compliance (crop rotation in IT art 69 of 1782/03; control of manure in BE, broad row crops forbidden on steep parcels)
 - LFA aid based on calculation of profit margin = function of crop
 - OTS check when LPIS parcel is shared by >1 farmer (block, cadastre)
 - statistics

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Crop groups



- SPS:
 - standard entitlement, set aside, permanent pastures (DE, DK, IE), forage (fodder beet and rape)
 - Vegetables & fruit, potatoes
 - special (?)
- Direct aids (title IV):
 - Energy crops, protein crops, nuts, starch potato, durum wheat, rice, seeds, hops (when not included in standard entitlements), tobacco, (cotton, part of olive in 2006)...

♦ How important are these crops ?

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Importance of coupled payments



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	BE FL	DK	LU	UK En	UK Scot	UK Wa	UK N Irl
Protein	100 ha (0.02%)	0.8% area	5% appl 0.4% area	7% appl 0.3% parc	453 appl (2.1%)	116 appl (0.6%)	20 appl (0.05%)
Energy crops	0	0.6% area	1% appl 0.2% area	1% appl 0.1% parc	147 appl (0.7%)	9 appl (0.05%)	45 appl (0.1%)
Nuts	2 parc		0.05% appl	102 appl 127 parc			
Starch potatoes	0	0.7% area					

- Other coupled crops more important in southern MS
- Coupled payments: 6-8% of applications in DK (18-23000 ha / 2.7 M ha) SE (1.2% of parcels, 2.5% of area) and England, 0.5% in BE
- If minority of (scattered) farmers, consequences for CwRS?

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New criteria in Risk analysis



- Coupled payment crops (starch potato, protein crops, energy crops, nuts, seeds, tobacco)
- Fruit and vegetables (DK, BE FL, UK En)
- Permanent pastures (BE FL, UK En)
- permanent crops, sugar beet (IE)
- Entitlements close to declared area (historical model)
- # of set-aside entitlements (BE Wa)
- # of special entitlements (BE Wa), applications without area (DE)
- Decrease in area (BE FL)
- Parcels on blocks registered in 2004 or 2005
- Land adjacent to watercourses (IE)
- Organic production (UK En)
- New applications, new LPIS parcels claimed (SE)

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- Time for presentations by 6 MS
 - Complementary information in particular by southern MS
- · Round table to get more insight on SPS and discuss the future of CwRS

Thank you

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13/25 SPS survey / H Kerdiles, O Léo







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Presentation 2 - Single Payment Scheme in Flanders (BE) - 1st year of implementation

Jos De Smedt, Gilbert Maesschalck - Ministerie van de Vlaamse Gemeenschap, BE

Single Payment Scheme in Flanders (BE)

1st year of implementation

by
Jos De Smedt
Gilbert Maesschalck



Part I Implementation procedures

Historical Model

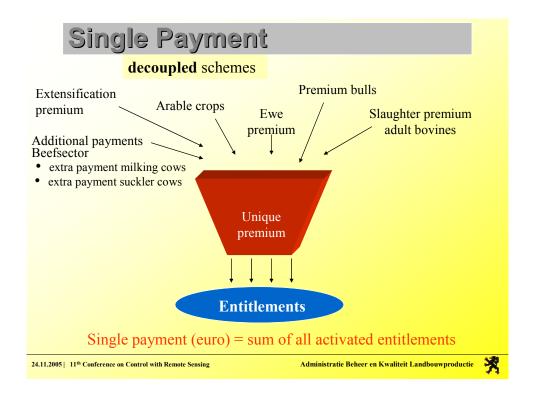
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Overview of coupled schemes

Sector	Scheme	Specification	Remark	
Milk	milk premium + extra payment	First application in 2004	Decoupled in 2006	
Animal	Suckler cows	Basis + supplementary premium	100 %	
	Slaughter premium	Calves	100 %	
	Seeds	Linseed, spelt	100 %	
Arable	Tabacco		Decoupled in 2006	

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General steps implementation

Data 2000 - 2001 - 2002

Preliminary payment entitlements

Disputes, revisions, national reserve, reductions, ...

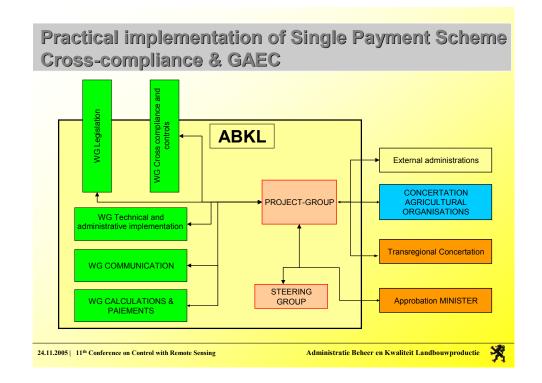
Single Application

Definitive payment entitlements

Single payment

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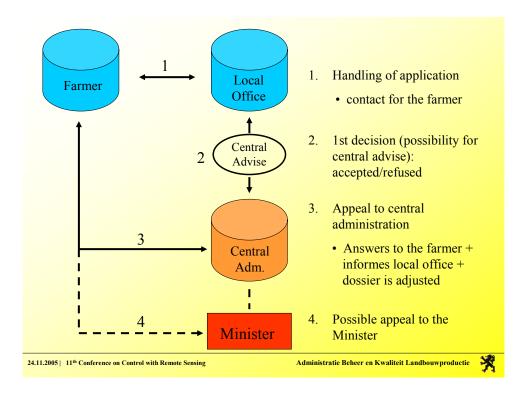


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Handling of claims, applications and disputes

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Results claims for revision

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Different categories

	Category	ок	ко	DO	Total	OK (%)	Rel (%)
1	Dispute of reference data	126	372	19	517	28,1	6,1
2	Starting farmers in reference period	200	80		280	71,5	3,3
3	Hardship cases	158	192	1	351	45,3	4,2
4	Transfer of total holding (merge/change in names/heritance)	2998	94		3092	97	36,4
5	Transfer of part of holding (partial take-over/scissions)	102	13	0	115	88,7	1,4
6	Private contract clause (sale)	3826	214		4040	94,8	47,5
7	Private contract clause (lease)	82	30		112	73,3	1,3
	TOTAL	7492	995	20	8507	88,4	100

OK : accepted KO : not accepted DO : partly accepted

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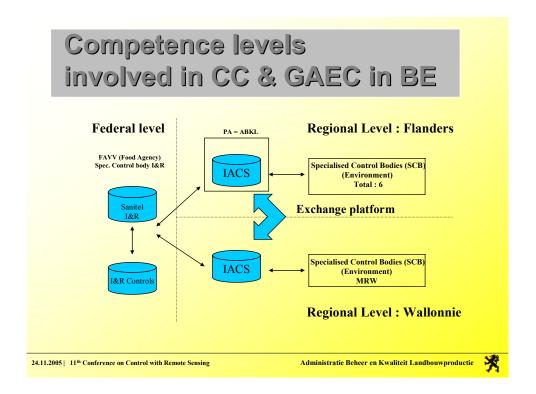


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Cross-compliance

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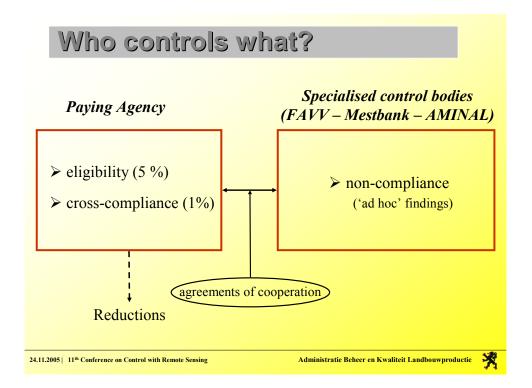
Strategy Cross-compliance & GAEC

Strategy in Flanders

- ✓ Paying agency (PA) = competent autority for controls CC & GAEC
- ✓ Specialised control bodies (SCB) = competent for specific measures
- ✓ Cooperation between PA & SCB
- ✓ Search for integrated controls (1 control-team)
- ✓ Simplification for farmers

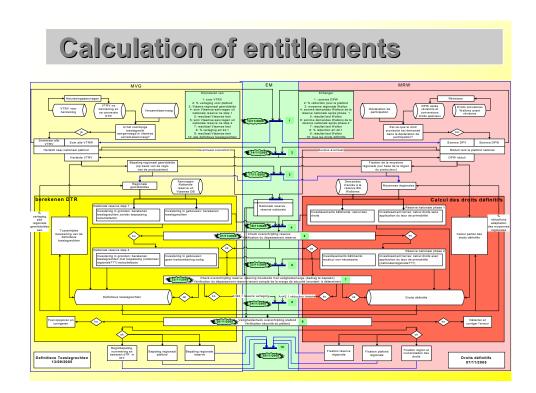
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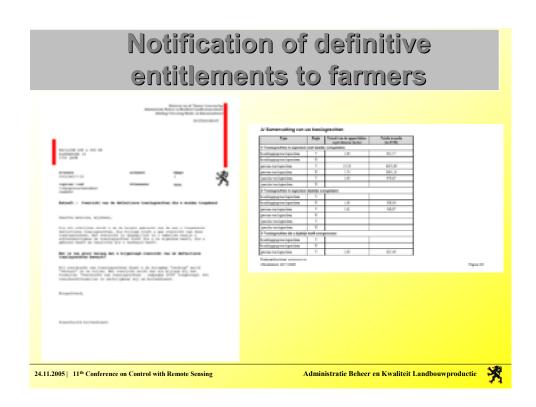






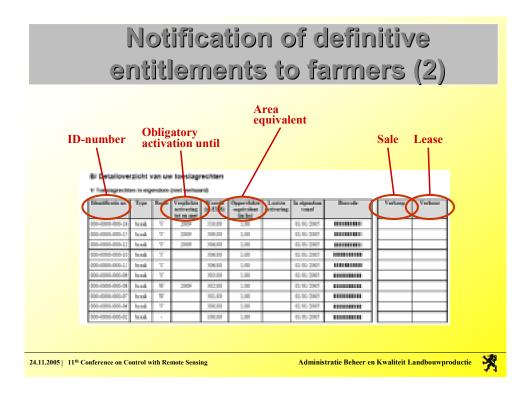
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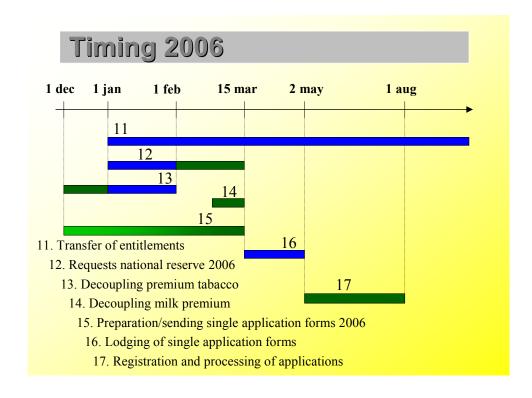






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Part II Single application

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Single application form

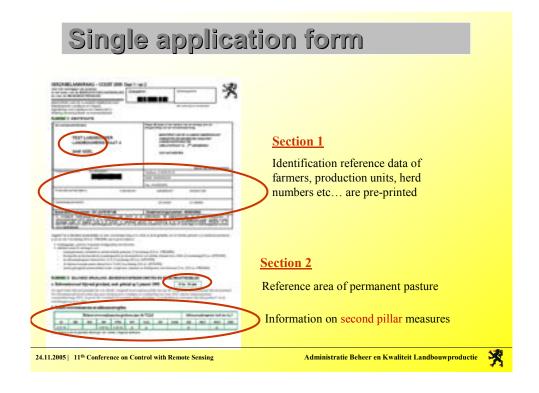
- ✓ Single application (for SPS, AEM,... schemes)
- ✓ Crop requested at parcel level
 - Easier for farmer
 - Crop necessary for automatic CAPI
 - Crop needed if claim for 2nd pillar (manure limitation as a function of crop & zone)
 - Crop useful for regional, national and Eurostat stats.

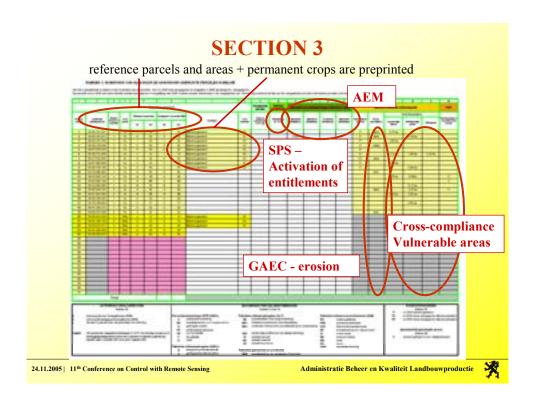
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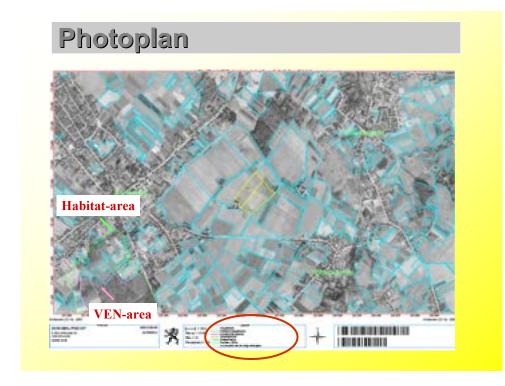
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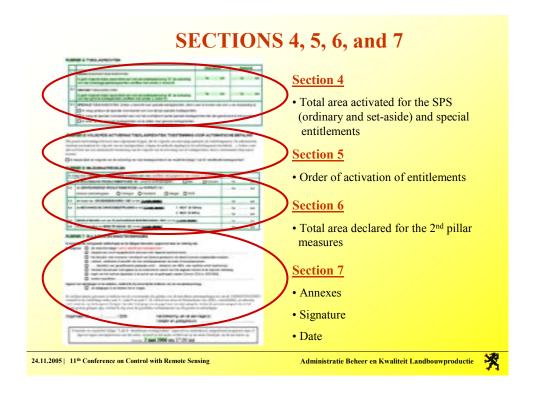






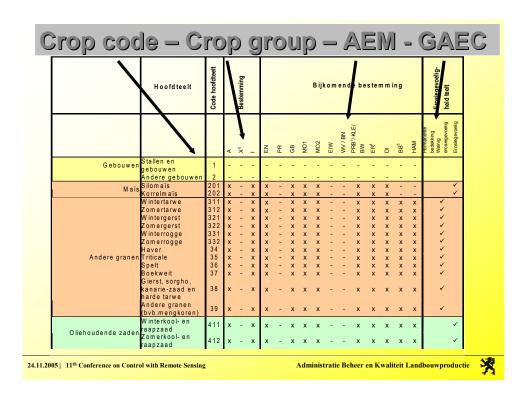
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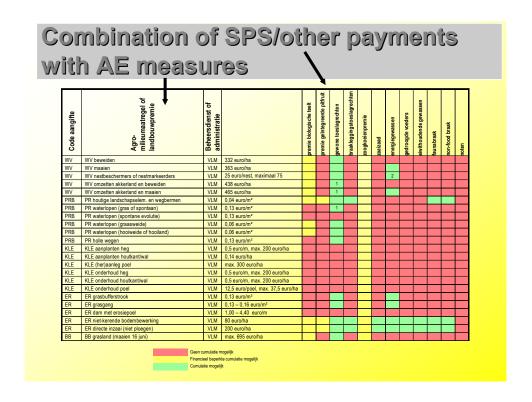






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Groups & crops to be checked

Main groups

- SPS normal: all crops (including hops, grasslands) but excl. perm crops, vegetables, potatoes, fruits
- SPS Set-aside
- Perm. grasslands (separate to assess maintenance of 2003 ratio interdiction to reduce the perm grassland area at farm level)
- Title IV (0.5% of applications, 0.3% of area)
 - protein crops +/- 100 ha
 - nuts (2 parcels)
 - Seeds (flax, spelt)
 - No claim for hemp, starch potato, energy crops

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Statistics 2004 ⇔ 2005

- Number of claims: + 10 % 25.000 in 2004 to 27.500 in 2005
- Area claimed: + 25 %
 - 408.000 ha in 2004 to 515.000 ha (2005)
 - due to inclusion of sugar beet parcels and parcels from small cattle farmers (< 15 LSU) which were not obliged to declare their parcels before + areas previously not claimed for payment + milk producing farmers
- Number of parcels: +3.4%
 - 381.000 (2004) 394.000 (2005)
- Coupled payments (title IV)
 - = 0.5% of applications and 0.3% of area

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Controls

- Control: No change in methodology (crop and area reported by inspector as before) but changes in calculation of sanctions wrt groups
 - 1 ha of protein crop declared, 1 ha of cereals found
 - > OK for SPS group, reject for protein group
- Reference year check: set aside can not be claimed on a parcel with permanent crop in May 2003 (check based on IACS GIS)
- Special check on permanent grasslands
- New criteria in risk analysis:
 - Entitlements close to declared area
 - Presence of permanent pastures
 - Decrease of declared area
 - "sensitive" crops (annual horticulture, endive)

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Risk analysis for remote sensing sites 2005

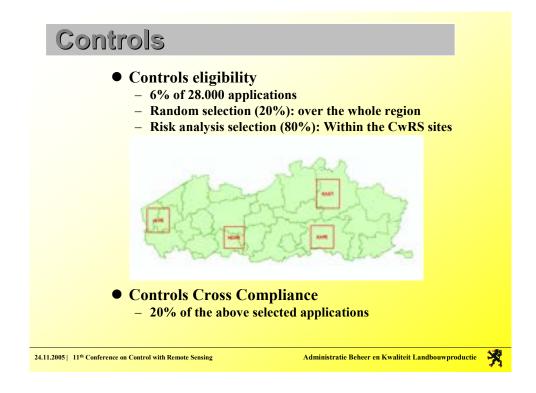
- average amount of aid paid in a region
- number of referenceparcels / km²
- average size of a parcel in a region
- number of sanctioned producers in the region in the previous campaign
- share of large farms
- region controlled with remote sensing in the previous years (2001-2004)
- + factors for definitive location: situation of urban areas, national borders, distribution over the provincial offices

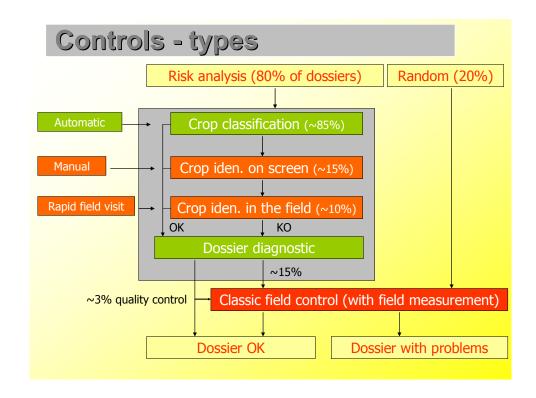
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Risk Analysis - Criteria (15)

- high subsidies
- incoherences between declared area and graphic system
- applications with many small parcels
- applications with set-aside parcels
- applications with parcels close to lower limits (area/width)
- applications with 'sensitive' crops
- applications with a strong decrease in number of parcels
- complete activation of entitlements
- permanent pasture
- producers with sanctions in the previous year(s)
- producers of seeds
- large increase in area
- new producers
- producers with sanctions in the animal sector
- producers not yet controlled in the previous years

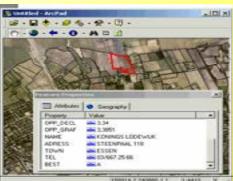
Controls - Field measurements

Field measurements

- Automatically preprinted forms and orthophotoplans
- Very accurate (< 1m) professional GPS
- Aireal photographs as background for the whole of Flanders
- Complete information for all parcels in Flanders
- Measured parcels are visualised on screen and directly copied into the dossier on PC



24.11.2005 | 11th Conference on Control with Remote Sensing



Administratie Beheer en Kwaliteit Landbouwproductie





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Thank you for your attention Questions?



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Presentation 3 - ITALY - 1st year of implementation of SPS

Maurizio Piomponi - AGEA, IT





ITALY 1st year of implementation of SPS

2005 CwRS Campaign



Italian Governmental Decisions



Starting year	2005			
Decoupled model	Historycal model on national basis			
Arable crops	Decoupled income support			
Seeds	Coupled income support			
Beef and veal	Decoupled income support			
Sheeps and goats	Decoupled income support			
Specific type of farming and quality production	8% arable crops7% beef and veal5% sheeps and goats			
National Reserve	Member State			
Olive Oil	Decoupled income support from 2006			
Tobacco	40% Decoupled income support from 2006			
Milk and dairy products	Decoupled income support from 2006			

2005 CwRS Campaign

Krakow – 23/25 November 2005



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Applications....



Single application model for:

- Single Payment Scheme
- Coupled schemes
- Forage

2005 CwRS Campaign

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... Applications ...



SINGLE PAYMENT SCHEME

According to Title III of Regulation EC n° 1782/2003 (Historycal Model)

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... Applications ...



COUPLED SCHEMES

Payment schemes according to Title IV of EC Reg. 1782/2003 as:

- Specific quality premium for durum wheat;
- Protein crop premium;
- Crop specific payment for rice
- Area payment for nuts
- Aid for energy crops
- Seed aid
- Dairy premium and additional payments

2005 CwRS Campaign

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... Applications ...



Specific type of farming and quality production as art. 69 EC Reg. 1782/2003 and applied in Italy by DM 2026/04 for:

- durum wheat:
- Other wheat and meslin other than durum wheat
- Maize
- Multiannual rotation

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... Applications



FORAGE

Dried fodder, in accordance with art. 15 of (EC) regulation n° 382/2005 (as article 14, paragraph 1, EC reg. n. 796/2004, as well as use of area listed in Annexe V of EC reg. n. 1782/03)

2005 CwRS Campaign

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How to declare the land use



- · Use of area for each cadastral parcel
- Uses or area codified as classifications in EC Regulations n° 1444/02 and n° 1810/04.

Opportunities: .	-											
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2005 CwRS Campaign

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... How to declare the land use



Opportunities:

- Easier use for farmer
- Semplified controls for National Base Areas
- Crop useful for Eurostat stats
- CwRS semplified

2005 CwRS Campaign

Krakow – 23/25 November 2005



Statistics



- Total Number of applications received in 2005: 714.000 (of which about 50.000 claimed only dairy premium)
- Total Number of applications received in 2005 for SPS: 650.000 (+8% in front of claims for aid surface of 2004 (602.000))
- Total Area claimed in 2005 for SPS (ha): 7.960.000 (+11% in front of 2004 (7.196.000))

2005 CwRS Campaign

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...Statistics



- · Coupled payments for surface:
 - title IV : 206.000 (30%) applications e 1.660.000 ha (21% of SPS area)
 - art. 69 = 357.000 (53%) application e 3.027.000 ha (54% of SPS area)
- · Forage:
 - 7% of applications and 11% of SPS area

2005 CwRS Campaign

Krakow - 23/25 November 2005



Controls



- New criteria in risk analysis:
 - Risk criteria for GAEC
- Reference year check: set aside can not claimed on a parcel with permanent crop in May 2003 (check based on IACS, GIS DB)
- Special check on permanent grasslands
- Checks of eligibility
- No change in CwRS methodology (crop and area reported by inspector as before) but changes in calculation of sanctions.
 For instance:
 - 1 ha of protein crop declared, 1 ha of cereals found:
 OK for SPS group, but rejected for protein group

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Calculation of entitlements



- Temporary entitlements for the 1° wave of CAP reform sent to farmers from January to March 2005
- 50.000 applications to access the National reserve
- Definitive entitlements notified to farmers from August to November, 30th
- · Approximately 700.000 farmers involved
- Approximately 7,5 millions of entitlements calculated
- 2,345 Mio€ Italy's budget in 2005
- Approximately value for each hectar: 312 €
- Working in progress: Farmers identification for the 2° wave of CAP reform (1,3 million farmers involved: dairy, olive oil, tobacco)
- Prevision: Temporary entitlements for the 2° wave of CAP within March 2006

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Presentation 4 - SPS 2005 in Germany

Axel Heider - Federal Ministry of Consumer Protection, Food and Agriculture, DE



SPS 2005 in Germany

11th CwRS-Conference in Krakow 23. – 25. November 2005

Dr. A. Heider, Federal Ministry of Consumer Protection, Food and Agriculture

Implementation of decoupling in Germany

- General beginning of decoupling 2005¹⁾
- Maximum use of the existing options of decoupling¹⁾
- Limited redistribution of the payment volume among the regions
- 1) In the case of tobacco 40% decoupling as from 2006; as of 2010 decoupling of a further 10 % of the coupled tobacco aid as well as transfer of the remaining 50 % of the coupled aid to a restructuring aid



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SPS 2005 in Germany

Type of SPS (regional, historical, static/dynamic hybrid)	Dynamic Hybrid
List the different entitlements and	set aside, normal (arable, grassland)
their value in € / ha	special permits for vegetables, potatoes (other than starch) and fruits
(mean value)	average: permanent pasture ca. 80 €
	arable land ca. 300 €
Total number of applications received in 2005	ca. 389.250 applications = +13 %
	there of:
	 Hardship cases (i.e. natural disaster, epizootic affecting,) ca. 4% (15.000 applications)
	• farmers in a special situation (i.e. investments, milk hardship cases, transfer of least land,): ca. 4% (15.000 applications)

SPS 2005 in Germany

Reasons identified	Slight increase in number of applicants (+13%) because of • farmers with pasture land (without animal subsidies in 2004), in particular horse farmers • producers of vegetables, fruits and potatoes (others than starch)			
allocation of payment entitlements	December 2005 (if possible)			
Time of payment	first instalment (80%): in December 2005 final payment: intended between March and June 2006			



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New IT-developements

- New central IACS database in Munich
 - cross checks of datas about farmers
 - cross checks of agricultural parcels among the *Länder*
 - administering payment entitlements
 - data exchange between premium and specialized authorities (cross-compliance)
 - monitoring the ceilings
 - monitoring the modulation
 - statistical reports, if required

Control aspects

- **■** Parcel identification
 - LPIS / GIS
 - remote sensing or traditional on-the-spot check on 5 % of the farms
- <u>Use</u> of agricultural parcels, in particular
 - set-aside (special payment entitlements)
 - areas under fruit/vegetable/"table"-potato cultivation (special "stickers" for these entitlements)
 - specific coupled crops: energy crops, protein crops, starch potatoes, tobacco, nuts; hops (only for producer associations)
 - cross-compliance (in particular preservation of permanent pasture, GAECs)



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Use of Remote Sensing 2005 Germany

- 11 (of 16) Länder used RS
- 28 control zones; 17 VHR-zones (Ikonos, Quickbird)
- ~ 11.000 applications controlled by RS
- 2 private contractors
- coordination by BMVEL (Federal Ministry)

Common Technical Specifications

+ National Addendum

Use of Remote Sensing 2005 Germany

Control of CC - GAECs by RS:

- 7(11) Länder
 - ➤ Maintenance of landscape features (various forms and conditions; depending on the actual application procedure and GIS)
- 5 Länder
 - > first tests of control for the following standards:
 - 1. Soil erosion
 - → Minimum soil cover (during winter time)
 - 2. Soil organic matter / soil structure
 - → Standards for crop rotations → use of land
 - 3. Protection of <u>permanent pasture</u> and avoiding the encroachment of unwanted vegetation on <u>arable land</u>
 - → Conditions of the land taken out of production



Thank you for your attention



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Presentation 5 – Implementation of SPS in Denmark 2005

Nielsen Tom Damgaard - Directorate for Food, Fisheries and Agrobussines, DK

Implementation of SPS in Denmark 2005

Basic information

- · Hybrid model
- 70.760 applications (47.391 in 2004)
- 2.736.731 hectares (2.329.078 ha in 2004)
- Application contains 4 main groups
 - Cultivated/non cultivated land (300,22 € / ha)
 - Set aside (300,22 € / ha)
 - Permanent pasture (67 € / ha)
 - Others non eligible

Crops is to be declared for control purposes



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Coupled payment

Energy crops

(17.445 ha = 0.6% of total area)

Protein crops

(23.146 ha = 0.8% of total area)

Starch potato

(18.976 ha = 0.7% of total area)

Entitlements

2005

- 1. Normal entitlement
- 2. Set aside
- 3. Permanent pasture
- 4. Grass combined with agrienvironmental mesures
- Above mentioned with stickers for fruit and vegetables
- 6. Special ent. without land
- Stickers from Nat. R.

10 types in 2005

2006

- 1. Normal entitlement
- 2. Set aside
- Above with stickers for fruit and vegetables
- 4. Special without land
- 5. Stickers from Nat. R.

6 types in 2006



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General problems:

- IT support
 - How to implement SPS? Solution: Development of new software programs to support the existing programs
- Number of applications ?
 - 80.000 application forms were distributed to farmers + additional 4.000
 - 70.760 applications (47.391 in 2004)
 - 2.000 phone calls per day
 - Staff (120 man years 70 in 2004)

New applicants - how do they look like?

Small farms - 10 ha/dossier

- 49 ha "normal" dossier

Field size - 2,46 ha

- 3,72 ha "normal" dossier

Parcel/dossier - 4,18

- 13,36

Pasture land



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New applicants

- Many incomplete applications
 - No maps
 - No crop
 - Not familiar with LPIS-system
- Result: 130 incomplete dossiers -> Classical Control (9 in 2004)

Problems with regard to OTSC

- What is to be controlled?
 - First impression: One crop category this is going to be easy
 - Reality: Nothing was easy = long and difficult year
- Number of controls?
 - 5,3 % normal control rate
 - Population unknown (84.000 application forms)
 - Only 85 % returned as real applications
 - Result: 6 % control rate in 2005



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Problems with regard to OTSC

- New rules to be understood by administration / RS contractor / inspectors
 - Experienced late interpretation of rules, especially with regard to sanctions
 - Entitlements as a second layer (Defined as perm. pasture for entitlement, but crop is wheat – OK)
 - Same field can occur in several categories (ex. rape as decoupled payment and coupled payment energy)
- Result: 12 categories for RS

Declared and controlled groups

Declaration groups:

- 1. Cultivated/uncultivated
- 2. Set aside
- 3. Perm. Grass
- 4. Other

Α	Cultivated/uncultivated			
AIF	SPS without Perm. Grass			
В	Fruit, vegetables and table potatoes etc			
С	Protein crops			
D	Energy crops			
E	Starch potatoes			
EB	SPS			
F	Perm. grass pr. 21. April 2003			
G	Perm. grass after 21. April 2003			
Н	Set aside			
I	Agricultural area, not cultivated			
J	Only entitlement			
K	Other parcels			
P	MB&OM - organic farming			
Q	Organic farming			

**** * * ***

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How to calculate sanctions?

- · New approach:
 - One big crop category, including set aside
 - The measured area for a field is used for different purposes:
 - Establishing entitlements
 - Decoupled payment
 - Coupled payment

Example:

If parcel is accepted for decoupled payment but only part of parcel is sown with right crop and therefore not accepted for coupled payment. Result – extra measurement required.

How to calculate sanctions?

• Example 1:

• <u>Declared</u> <u>Measured</u> <u>Diff.</u> 90 ha wheat 85 ha -5 ha

2 ha protein8 ha set aside8 ha

Over declaration (5*100/95) = 5,26 %

Sanction (2*5)*100/95 = 10,53 %

Entitlements: Set aside 8 % of 95 = 7,6

Normal (rest) = 87,4



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How to calculate sanctions?

• Example 2 – coupled payment

Declared Measured Diff.
90 ha wheat 85 ha -5 ha
2 ha protein 1,8 ha -0,2 ha

8 ha set aside 8 ha

Decoupled over declaration: (5,2*100/94,8) = 5,49 %Decoupled sanction: (2*5,2)*100/94,8 = 10,97 %Coupled over declaration: (0,2*100/1,8) = 11,11 %

Coupled sanction: (2*0,2) = 0,4 ha

How to calculate sanctions?

• Example 3 – set aside

 Declared 	<u>Measured</u>	Diff.		
90 ha wheat	85 ha	-5 ha		
2 ha protein	1,8 ha	-0,2 ha		
8 ha set aside	7 ha	- 1		

Short of set aside compared to entitlements: 0,51 ha

Decoupled over declaration: (6,2+0,51)*100/(93,8-0,51) = 7,19 %Decoupled sanction: (2*(6,2+0,51))*100/(93,8-0,51) = 14,39 %

Entitlements: Set aside 8 % of 93,8 = 7,51

Normal (rest) = 86,29

**** * * ***

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Presentation 6 – CwRS and the hybrid model in Sweden

Arne Andersson - Swedish Board of Agriculture, SE

Abstract

The hybrid model

Sweden has chosen to implement the Single Payment Scheme in 2005. It is designed as a hybrid model with 5 regions based on historic yield levels. The value of an entitlement consists of :

- Basic entitlement value, a regionalized value where entitlements for arable land varies between 117 €/ha in the low-yield regions to 250 €/ha in the highest yielding regions. The entitlement value for permanent grassland and pastures is not regionalized. It is set to 117 €/ha for the entire country.
- Additional value, a historical per-farm value, based on earlier received animal premia.

Farmers growing vegetables, berries or potatoes must have a special authorization, or "sticker" attached to their entitlements in order to receive SPS payments. These stickers have been given to farmers growing these crops in 2003. The entitlements with stickers have the same payment value as those without.

The applications

The Swedish farmers apply on one single, integrated application form covering SPS, Coupled schemes, LFA and AEM:s. The crop should be declared since it is of importance in most of the Swedish AEM:s, and for statistical reasons. Over thirty percent of the application are sent in through the SAM Internet web service and from 2006 onwards, we will introduce the possibility to apply by sending an SMS confirming that the application has not changed since previous year.

The controls

The overall control methodology has not changed significantly due to the SPS. One new element is the inspection of not declared parcels (Art.14 Reg. 796/2004).

In the SPS itself, there are very few payment groups. In order to make it possible to make correct decisions on the value of different entitlements, in the CwRS work we have had to use artificial crop groups to trigger actual field inspections where the correctness of the application can be questionned. Sweden has also decided to control most AEM:s by Remote Sensing with 100 % RFV.

Keywords: Hybrid model, Sweden, SPS, Remote Sensing



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CwRS and the hybrid model in Sweden



Arne Andersson
Swedish Board of Agriculture

11th CwRS Conference, Kraków, 23-25 nov 2005



Regions and entitlement value Region **Preliminary Final** value value 255 € 250 € 240 € 234 € 200€ 194€ 155 € 149€ 125 € 117€ Grassland 117€ 125 €



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Entitlements in the hybrid model

- Basic entitlements
 - Regional (CAP Arable, SAP, 50% SCP, 25% SBP)
 - Historical (SP, EXT, 50% SCP, Suppl arable)
- Set-aside entitlements
- Vegetable, berries and table potato permit



Annual declaration

- One single integrated application form:
 - SPS
 - Coupled schemes (e.g. energy, proteins)
 - AEM:s
 - LFA
- Farmer still declares all crops.
- Declarations on paper forms, Internet and SMS





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Payment groups

- SPS only one payment group but...
 - Arable
 - Permanent grassland/pasture
 - Set-aside
 - Vegetables, berries and potatoes, 40 000 ha
- Protein crops, 39 000 ha
- Energy crops, 31 000 ha
- Starch potatoes, 7 300 ha
- AEM:s



GAECs

- Arable land
 - Maintenance of agricultural suitability
 - No bushes or scrubs
 - · Proper drainage
 - Green cover
- · Permanent pastures
 - Yearly grazing
 - Encroachment control





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Control consequences of SPS

- Classical OTS controls
 - Less focus on crop unless AEM:s
 - Undeclared parcels
- CwRS
 - Crop still important
 - Artificial crop groups
 - One parcel can exist in several payment groups. Problems in reporting.
 - GAECs not suitable for CwRS
 - AEMs included in CwRS (not SPS related)



Risk analysis

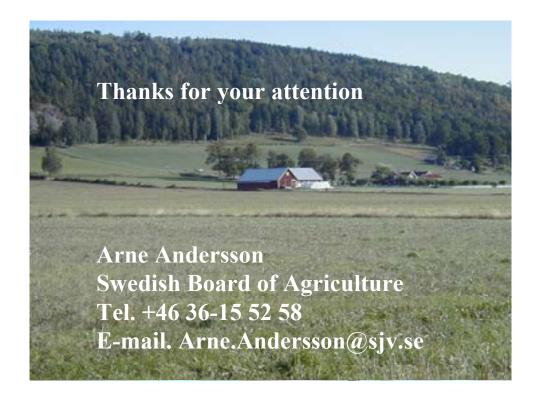
- No entitlement-related risk in 2005
- · Focus on
 - New applicants
 - New blocks or blocks not previously included in applications





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Risk analysis for CwRS: HU and IE

Presentation 7 – The risk analysis in the site and dossier selection in the year 2005 CwRS campaign in Hungary

Mónika Magyar, Péter Horváth, Anna Kovács, Tamás Pribela, Szabolcs Iván, József Nagy Agricultural and Rural Development Agency (ARDA), HU

István László, Miklós Lelkes, Irén Hubik, Gábor Csornai Institute of Geodesy, Cartography and Remote Sensing (FÖMI), HU

Abstract

The presentation gives an overview on the site and dossier selection method in the year 2005 Hungarian remote sensing control program.

In 2004 and 2005, the Institute of Geodesy, Cartography and Remote Sensing (FÖMI) carried out the Control with Remote Sensing of Area-based Subsidies. From the 208 000 submitted claims, 8 660 was controlled with remote sensing. In 2005, similar number of applications has been submitted, but the overall control rate was significantly increased, which yielded that the target number of the remote sensing checks grew to 11 000.

Based on the year 2004 experience, a larger set of risk factors and a sophisticated GIS method have been elaborated to appropriately select the sites and the dossiers to be controlled. The same 14 factors were used in both the site selection and the dossier selection. The majority of them were calculated at dossier level, the others at physical block level.

During the site selection, the dossier level risk values were calculated first. Following this, each block was assigned with the combination of its block level risk factors and the risk values of the dossiers referring to that block. The site centres were determined in GIS, using a "sliding window" technique. Using a grid, the risk values of the blocks have been summarized over a rectangle. The 9 sites were determined with appropriately selected rectangles.

In the case of 5 sites, all the dossiers falling into the site were selected. In the remaining 4 sites, the control sample was defined with further risk analysis and with a special procedure that is the consequence of the way we handle the joint cultivations in CwRS.

Keywords: control with remote sensing, control sample, risk analysis, site selection, dossier selection



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The risk analysis in the site and dossier selection in the year 2005 CwRS campaign in Hungary

Mónika Magyar, Péter Horváth, Anna Kovács, Tamás Pribela, Szabolcs Iván, József Nagy **Agricultural and Rural Development Agency (ARDA)**

István László, Miklós Lelkes, Irén Hubik, Gábor Csornai Institute of Geodesy, Cartography and Remote Sensing (FÖMI)



11th Annual Conference on Control with Remote Sensing of Area-based Subsidies



Institutional background

The Institute of Geodesy, Cartography and Remote Sensing (FÖMI)

carries out CwRS as a *delegated task* from the

Agricultural and Rural Development Agency (ARDA).



11th Annual Conference on Control with Remote Sensing of Area-based Subsidie





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Features of controls in 2005, Hungary

Total number of the dossiers submitted: 207456

(similar to the number in 2004)

Overall control rate: 7%, 14473

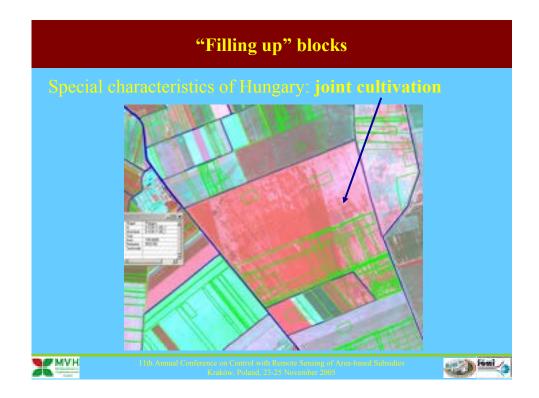
"Large" sample of dossiers subject to remote sensing controls: 11002 in 9 sites

(it was 8662 in 2004 in 9 sites)



11th Annual Conference on Control with Remote Sensing of Area-based Subsidie Kraków, Poland, 23-25 November 2005







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"Filling up" blocks

Special characteristics of Hungary: joint cultivation

Hard OTS checks, all parcels have to be processed at the same time.

Technical recommendations 3:

"7.3 In order to improve the efficiency of the control, applications sharing a reference parcel with any application from the control sample should be included."

Auxiliary applications



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Site selection

A compound risk value is calculated for every block.

Risk factors:

- Determined by the OTSC Department of ARDA
- 2 factors are calculated directly for the blocks
- 12 factors are calculated for the dossiers



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Site selection

Risk factors (1/2)

- Subsidy amount (dossier) ?
- Sum declared area (dossier)
- Number of declared parcels (dossier)
- Number of different declared crops (dossier) 7
- Number of different physical blocks (dossier) 7
- Number of different payment groups (dossier) 7
- Average parcel size (dossier) ^{」フ}
- Minimum parcel size (dossier)



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Site selection

Risk factors (2/2)

- Ratio of parcels close to the eligibility limit (dossier) 77
- Sum area of the dossier is close to the eligibility limit (dossier) Compound
- Ratio of parcels declared as pasture (dossier) ≥

 ✓
- Results of the year 2004 OTSC: ratio of the erroneous parcels (dossier)
- Area coverage: ratio of the declared and the eligible area (block) घ⊿ (min@100%)
- Probability of presence of joint cultivation (block) 77



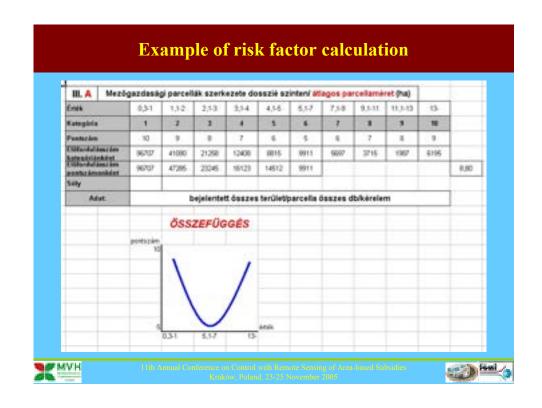
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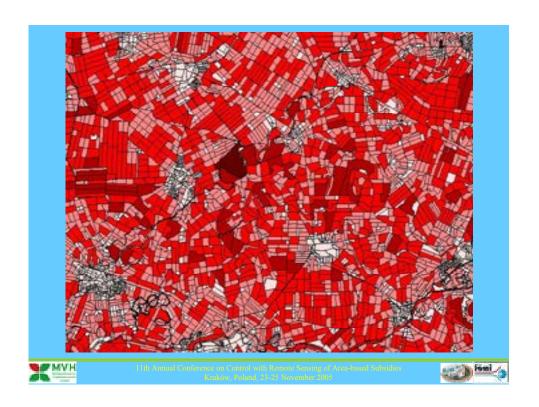




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Site selection

A compound risk value is calculated for every block.

Risk factors:

- Determined by the OTSC Department of ARDA
- 2: calculated directly for the blocks
- 12: calculated for the dossiers

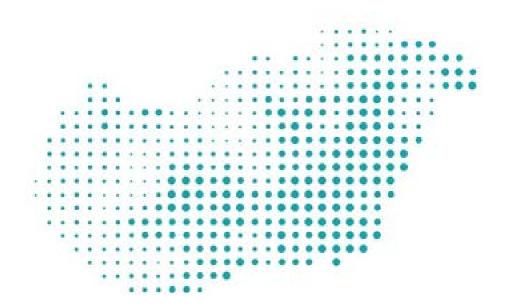
"Sliding window" technique, using IACS-GIS.

Constraints for the sites, e.g. buffer



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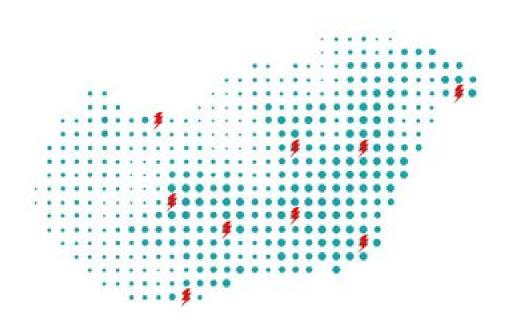
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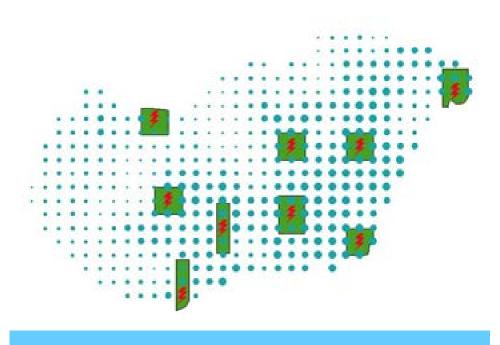
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Dossier selection

- 5/9 sites with the 80% rule
- 4/9 sites with further risk analysis: similar criteria as in the site selection
- Implicit enlargement of the sample via auxiliary applications
- Refinement of the sample
 - -Direct applications (80% sites + risk analysis sites, apps over risk threshold): 7611
 - -"Auxiliary" applications (risk analysis sites, under risk threshold, the parcels sharing block with the direct applications cover >= 80%): 3391
- This refinement did not significantly weaken the risk analysis, (the overall risk value of the sites did not decrease significantly)



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Conclusion

- Second year of EU subsidies in Hungary both in application and control
- Very big sample (11000 target dossiers for RS) compared to similar MS
- · Fulfilment of the requirements of the regulations
- The findings of the DG AGRI Audit (Nov 2004) and the QC Mission (Jul 2005) have been taken into account.
- Improved efficiency of the controls



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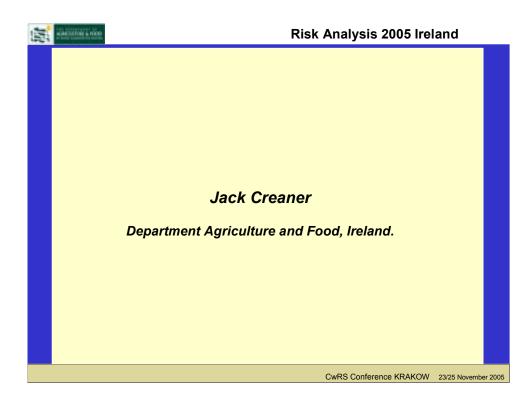


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Presentation 8 - Risk Analysis 2005 Ireland

Jack Creaner - Department Agriculture and Food, IE



Risk Analysis 2005 Ireland Inspection Requirements General overview of process Datasets used Selection of Risk categories Eligibility Das SMR's GAEC's Selecting for Cross compliance Entitlement Calculation



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Œ.	stantoned Letter	Risk Analysis 2005 Ireland
	Requirements	
	■ ELIGIBILITY	5% of full population
	■ DAS & GFP	5% of population LFA's
	ENVIRONMENT	1% of eligible population
	■ PUBLIC & ANIMAL HEALTH	5% of eligible population
	■ GAEC	1% of full population
		CwRS Conference KRAKOW 23/25 November 2005



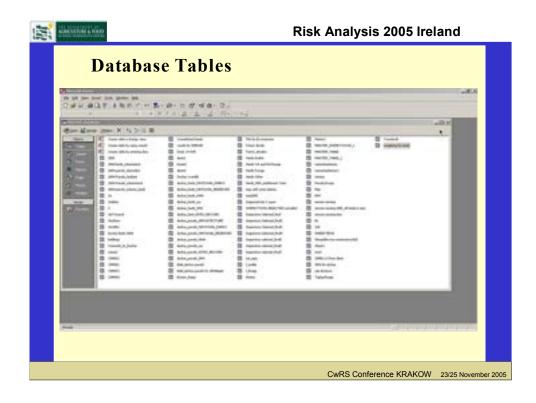
Risk Analysis 2005 Ireland

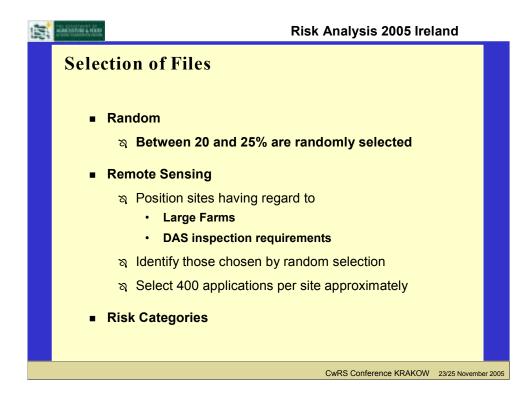
Overview of Process

- Identify Population
- · Identify the Risk Categories
- Select Remote Sensing sites
- Identify herds with >80% land in each site
- Devise queries to extract data from GIS to create datasets
- Explore other datasets pertaining to identified risks
- Rank risk categories to reflect potential impact
- Apply weighting values to datasets
- Create database, build matrix table of query results & investigation



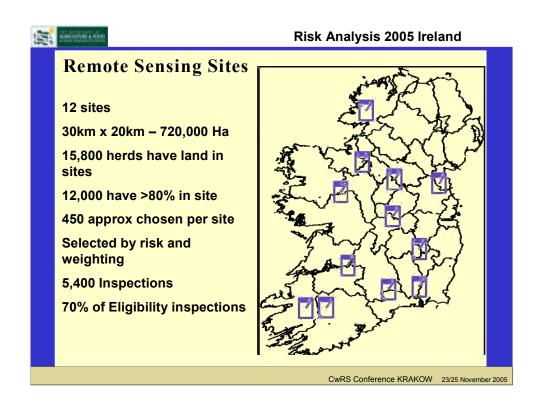
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Risk Analysis 2005 Ireland **Datasets** Dataset weight Dataset weight Arable penalty of 20%+ in 2004 10 Applicant with sub-divided parcels 7 7 Forage penalty of 20%+ in 2005 10 In CA scheme Remote Sensing herd 10 Applicant in high nitrate area 6 Applicant adjacent to lakes, rivers etc. 8 Applicant with a Sheep flock 6 Applicant with SAS 8 Applicant with address change 6 Applicants with >15% change in 2004 8 Applicant with commonage parcels 6 Applicants with 3-20% Arable penalty Applicant with name change 8 6 Applicants with 3-20% Forage penalty 8 Potato producer 6 Top Arable applicants (area) 8 SAC 6 Top Forage applicants (area) SPA CwRS Conference KRAKOW 23/25 November 2005



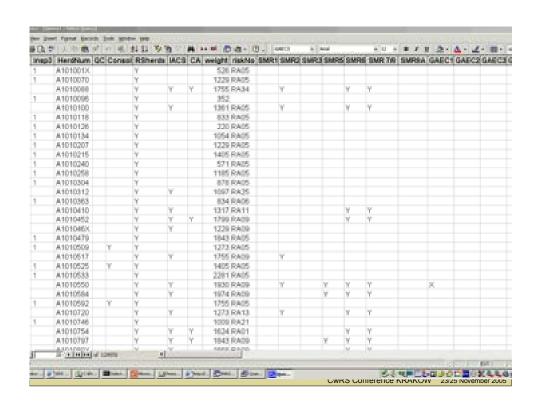
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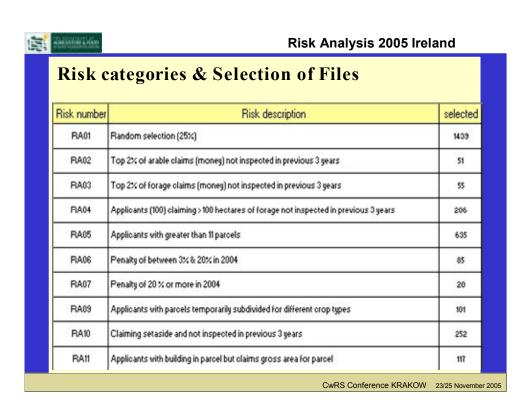
Risk Analysis 2005 Ireland **Datasets** weight Dataset Dataset weight Sugar beet grower 6 CMMS2 4 Applicant with > 11 parcels 5 CMMS3 4 Applicant with grant aided forestry 5 CMMS4 4 Applicants with > 100 hectares 5 Dual claimed in 2004 4 Arable applicant 5 Number of sheep tags >100 4 Claimed area is < 85% of gross area of parc 5 Overclaim in 2004 4 Applicant not in REPS Stocking density > 1.4hu/ha 4 Applicant with <5 hectares 4 3 Applicant in peat area Applicant with new parcel in 2004 4 Applicant in sandy area 3 CMMS1 4 Applicant who declared scrub 3 CwRS Conference KRAKOW 23/25 November 2005

weight	Dataset	weigh
3	Applicant with pigs	2
3	National Parks	1
3	S+M	1
3	Stocking density < 1.4hu/ha	1
3	Stocking density < 11u/ha	1
2	Applicant in REPS	-5
2	Inspected in previous 3 years	-15
	3 3 3 3 3	3 Applicant with pigs 3 National Parks 3 S+M 3 Stocking density < 1.4hu/ha 3 Stocking density < 1hu/ha 2 Applicant in REPS



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Risk Analysis 2005 Ireland

lisk number	Risk description	selected
RA12	Arable herds not inspected in previous 3 years	263
RA13	Forage herds not inspected in previous 3 years	455
RA14	Claimed area is 10% lower than gross area	410
RA16	New parcels created in 2004 not inspected in 2004	356
RA20	Applicants with permanent crops	56
RA34	Applications where the area changed > 15% from previous year	272
RA58	Applicant picked from remote sensing and weighting table	466
RA72	Applicants inspected in previous 3 years	40
RA73	Applicants applying for Consolidation (sub set of other inspections)	120
RA74	Applicants applying for PCC (sub set of other inspections)	60

Risk Analysis 2005 Ireland

Risk categories & Selection of Files (especially for LFA)

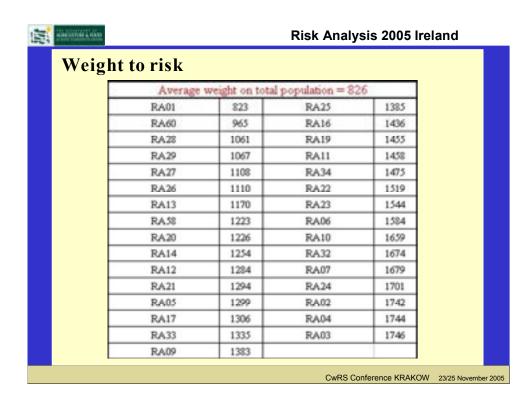
Risk number	Risk description	selected
RA21	Applicants claiming close to minimum stocking density	168
RA22	Applicants claiming CA on 40+ hectares	943
RA23	Applicants with a name change from previous year	28
RA24 Applicants with an address change from previous year		17
RA25	Applicants close to minimum area for CA i.e. <5 hectares	252



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Risk Analysis 2005 Ireland Risk categories & Selection of Files (with a view to X Compliance) Risk number Risk description sele RA26 Herds with > 10 births and > 20% of the births recorded on the same day (Nominated by CMMS) 4

	Risk number	Risk description	selected
	RA26	Herds with > 10 births and > 20% of the births recorded on the same day (Nominated by CMIMS)	483
	RA27	Herds with > 10 births in the year where > 80% of the births are female (Nominated by CMMS)	124
I	RA28	Herds with > 10 births in the year where > 80% of the births are male (Nominated by CMMS)	216
ĺ	RA29	Herds with > 10 births where number of late registrations is > 50%. (Nominated by CMMS)	813
ĺ	RA60	Bovine/Sheep penalties + other nominations (Nominated by Castlebar)	
ĺ	RA17	Herds with sugar beet crop	82
Ĭ	RA19	Applicants with Forestry grant aided land	66
ĺ	RA32	Applications containing commonage shares	227
Ì	RA33	Applications with land adjacent to lakes or rivers	140
ľ			





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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

SMR 1 Conservation of wild birds

SPA dataset used for selection under this category with importance given to overgrazing with cattle & sheep especially on commonage and stressed land.

- SPA (Special Protection Areas)
- Cattle farmers
- Sheep farmers
- Commonage users

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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

SMR 2 Protection of ground water against pollution

Datasets to use will identify potential problem areas such as sheep dip, herbicides and fungicides, waste oil, effluent, slurry etc.

- Sheep farmers
- Arable farmers
- Non REPS farmers
- · Adjacency to watercourses
- Nitrate areas > 150kg/hectare
- Greater than 15% change from previous year (potential abuse of leased land



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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

SMR 3 Use of sludge

- Dataset of farmers and contractors who spread sludge
- Adjacency to watercourses
- · Nitrate sensitive areas

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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

SMR 5 Habitats and flora and fauna

Datasets used to identify possible overgrazing or supplementary feeding of animals within the SAC areas especially on stressed land such as commonages.

- · Special Areas of Conservation (SAC) dataset
- Cattle and sheep farmers
- Commonage areas
- Non REPS farmers
- · Farms with small acreage



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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

SMR 6, 7 & 8 Identification and Registeration of Animals

Datasets used are

- Cattle, sheep, goats and pigs
- Bovine and sheep penalities
- Separate RA from CMMS on above datasets

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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

GAEC 1 Soil erosion

Risk on this standard includes ploughed land, poaching and non adherance to Commonage Framework Plans (CFP)

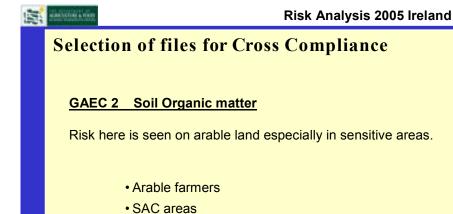
- Arable farmers
- · Herds with commonage
- Applicants with high stocking density especially cattle on commonages



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SPA areasHeritage areas

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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance GAEC 3 Soil Structure Ensure that soils are not unduly rutted or compacted by machinery or poached by livestock especially where soil is wet. • Disadvantaged areas • > 15% change on previous year • High stocking density

Small farm areaArable farmers



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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

GAEC 4 Minimum level of Maintenance

Land to be maintained to ensure that agricultural activity may continue into the future

- · Disadvantaged areas
- · SAC, SPA, NHA
- Commonage herds
- · Low stocking density

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Risk Analysis 2005 Ireland

Selection of files for Cross Compliance

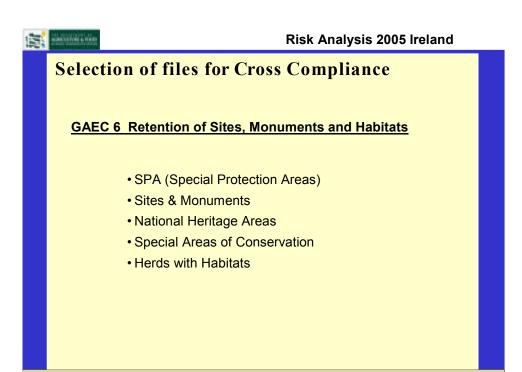
GAEC 5 Protection of Permanent Pasture

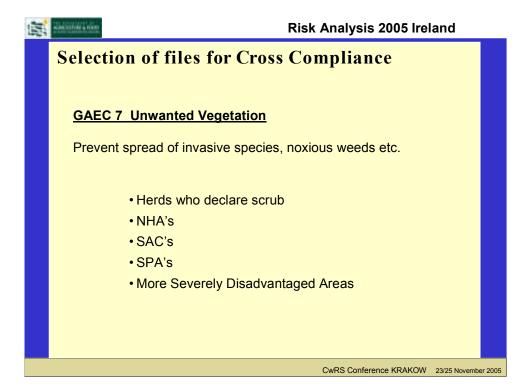
Permanent Pasture in State should not decrease significantly.

- Arable herds
- Herds with Permanent Crops
- Change >15%



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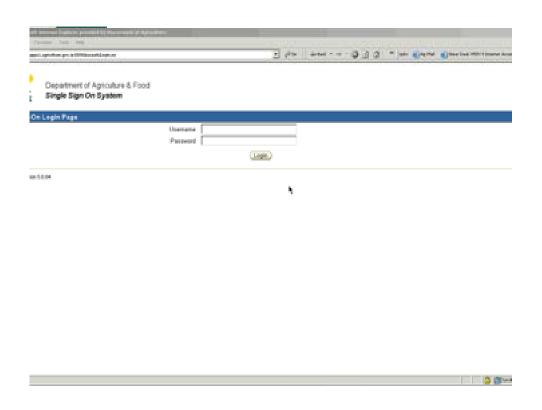






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SESSION 4 - 2006 Campaign and future evolution

Chairman:

Jaqcues Delincé Agrifish Unit Head, JRC, IPSC



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Presentation 1 - Status of the Implementation of the Land Parcel Identification System in Bulgaria

Pavel Milenov Remote Sensing Application Center – ReSAC, ASDE, BG

Abstract

The presentation is focused on the current activities and projects, related to the preparation of the LPIS in Bulgaria. A short description of the status of orthophoto production and coverage is provided. Special attention is given to a Pilot Project, supported by MARS-PAC at JRC in the region of Assenovgrad, Bulgaria. The main aims of the project are to complete results obtained during Pilot Study for CwRS of Areabased Subsidies for the region of Isperih (financed by JRC) in a different context (smaller agriculture, mountains areas) and to support the definition of the overall strategy for LPIS in Bulgaria. Another important point is the preparation of the technical recommendations for the block CAPI. Archive VHR satellite imagery from Quickbird was used together with two types of DEM – SRTM and Ref3D.

One of the crucial questions for the Bulgarian Administration is it possible to use the existing cadastre during implementation phase as ancillary information. This approach is needed due to the risks on orthophoto coverage and time constraints for the building of a completely new LPIS for the whole country before January 2007. The preliminary results from the project in Assenovgrad, combined with the previous findings, showed that the overall good geometric quality of the agriculture cadastre, even in mountainous areas, could be considered as outstanding. After the LPIS workshop, organized by JRC in ISPRA (September 2005) it was decided that the Bulgarian Administration could use the cadastre as LPIS for the 1st year(s) with the support of orthophoto, then migrating to physical blocks or farmer's blocks (ilots). Priority should be given to the important agricultural areas in the delivery / processing of orthophotos, in order to create in advance the physical blocks, using the cadastral layer to optimize the block creation. The use of satellite imagery as alternative of the aerial orthophoto production is also discussed, taking into account the slow procedures in tendering and contracting the different lots, as well as the flight authorisation of the border areas. A specific IACS procedure for LPIS and control in the areas not covered by orthoimages should be prepared.

Finally, a current research of another pilot project, supported by the Ministry of Agriculture and Forestry (in the frame of FP6 SAFIR) is briefly presented. The project methodology combines voice and graphic user interface within a compact mobile GIS/GPS enabled system to facilitate and speed up the work of the field inspectors for data collection for LPIS and validation of the results from the CwRS. The voice activated portable GIS/GPS systems, based on VQL perform verbal dialog with the field user, guiding him and allowing easy ways for alphanumerical data collection and vector data creation/update, without the need of complex training in IT and especially the specifics of GIS.

Keywords: LPIS, IACS-GIS, orthophoto, block creation, VHR, CAPI, parcel measurement, data integration, VQL



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Challenges of the Bulgarian LPIS

- Geographic data
 - Better than 1:10,000 map specification (RMSE <2.5m)
 - UTM instead of the existing geodetic system BNCS 1970
- Parcel area measurement (SAPS Scheme)
 - Minimum parcel size of 0.1 ha/ minimum farm size of 1 ha
 - · Accuracy 1,5m -buffer tolerance
- Ortho-image
 - minimum specifications: < 1m pixel, natural color
 - · DEM should be delivered
- Other requirements
 - Definition of eligible zones for LFA;
 - Information on environment / sensitive zones based on NATURA 200;
 - Information on Slope and erosion
 - The Ministry of Agriculture and Forestry is responcible for the creation and maintenance of the LPIS
 - Approximately 400 000 eligible farmers
 - · Up to now 100 000 farmers registered



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The LPIS Dilemma

Due to the risks on orthophoto coverage and time constraints,

it is not realistic to think to building a completely new LPIS for the whole country before January or February 2007 (sending forms to farmers)

- 1. Should we use Cadastre or not during implementation phase as an ancillary information?
- 2. Will it be more efficient to start IACS with Cadastre then to migrate to real parcels/ blocks? or to establish since the beginning a new system?



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Cadastre as support to the declaration process

- Already available and covers 94% of the territory
- Known by farmers and used in the existing state funded schemes
- Already digital in the national geodetic projection
- Replace costly and long *meeting with farmers*
- Good geometric quality, which is claimed to be less than 1 meter
- Quite recent, created between 1995 and 2000
- The adequacy to refer agricultural parcels had to be evaluated
- Might generate additional source of confusion with farmers
- Could open Pandora's box on problem on cadastre

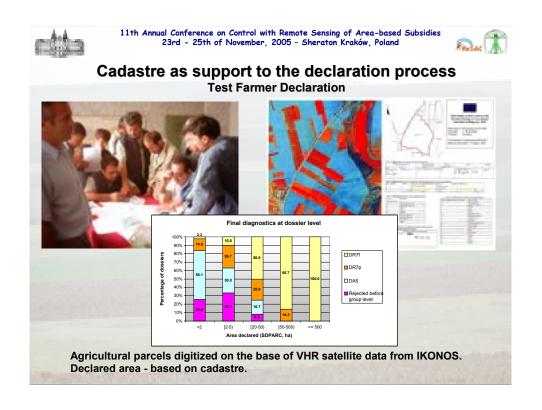
The cadastre was clearly a point to assess in Pilot project

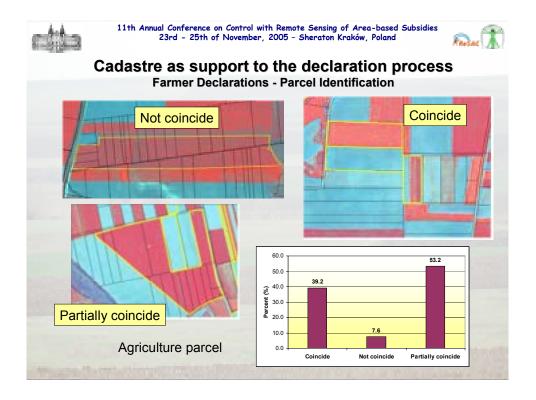
Two pilot project supported by MARS-PAS at JRC in 2004-2005





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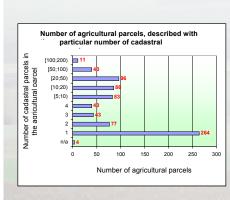
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Specific constraints using the cadastre





The 740 agricultural parcels sampled in ISPERITH municipalitie are identified by about 10600 cadastral parcels, i.e a mean value of 14 cadastral parcels for one agricultural parcel.



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Conclusions on the use of the cadastre

The overall good geometric quality of ALIS, even in mountainous areas, can be considered as outstanding

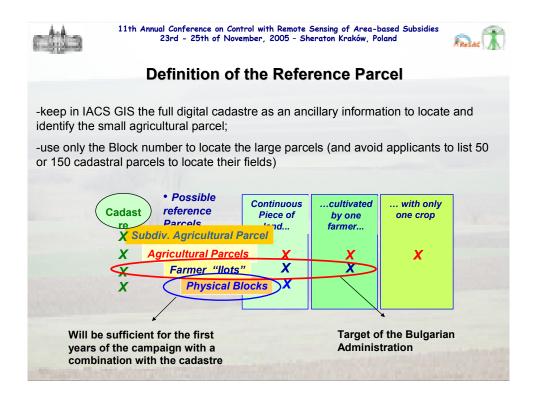
New blocks will replace many cadastral parcels in intensive agricultural plains

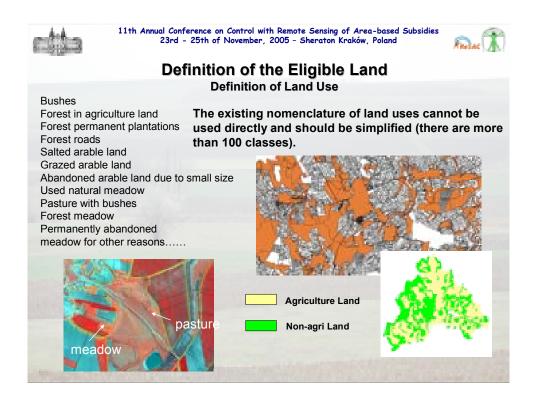
Existing cadastral boundaries with updated land use will be used in mountainous / hilly marginal areas





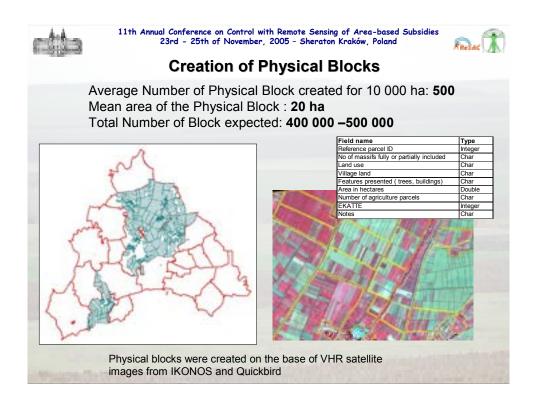
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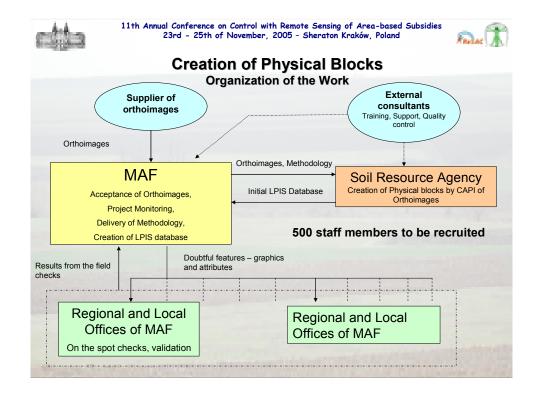






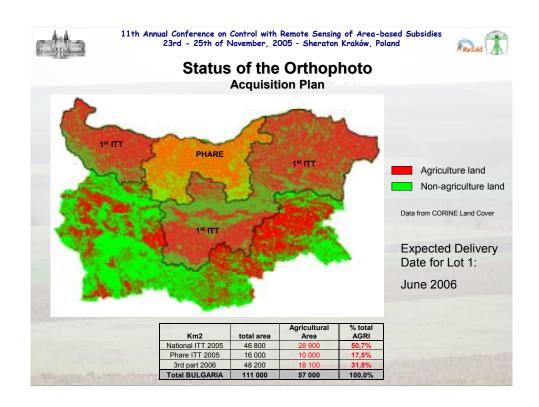
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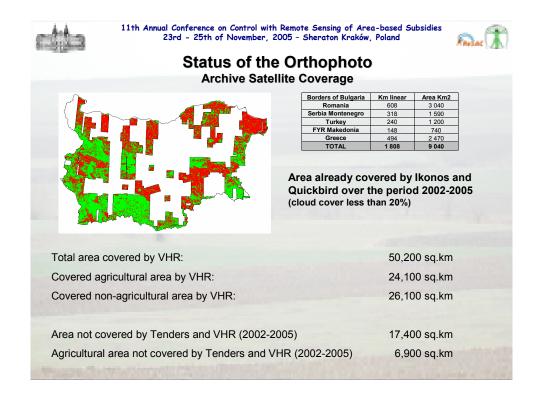






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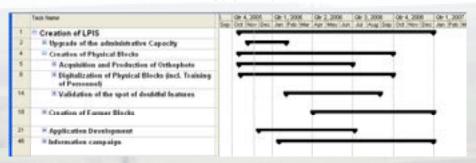
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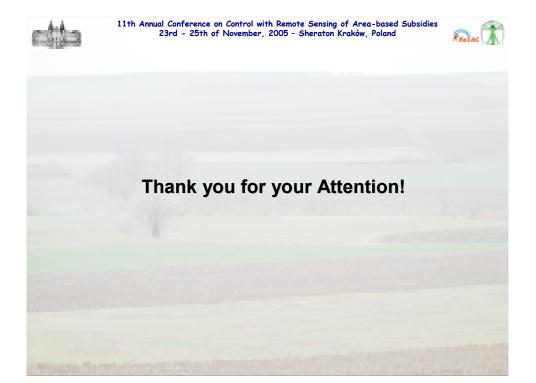


Action Plan



In the next two months:

- 1. Test of pre-registration of farmer blocks in the Pilot ASSENOVGRAD area.
- 2. Aggregation and simplification of the ALIS land use nomenclature
- 3. Preparation of training program and manual for the local staff, initial training
- 4. Preparation of procedures for the block generation in LPIS and database maintenance
- 5. Finalization of prototype for voice activate mobile device for field data collection





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Presentation 2 - LPIS Creation in Romania - Current Status and Future Developments

Filip Razvan GHITESCU Ministry of Agriculture and Rural Development, RO

Abstract

Romania has taken important steps in the establishment of LPIS. The presentation covers the plan, the status, the challenges and the future developments in the construction of LPIS. The main topics discussed refer to the share of responsibility among various institutional actors, the methodology used/type of reference parcel, status of provision with ortho-images, digitization of physical blocks, establishment of the link between the physical blocks and the farmers, actualization of the initial digitization and consolidation of LPIS.

Romania decided to establish its LPIS based on orthoimages and physical blocks. After the accession, Romania will apply the Single Area Payment Scheme, with an eligibility threshold of 1ha/farm and 0.3ha/lot. The responsibility for the LPIS creation, implementation, administration and development is held by the Paying and Intervention Agency for Agriculture. The National Agency for Cadastre and Real Estate Publicity is responsible for the acquisition of orthoimagery covering the entire territory of the country and for transferring this orthoimages to PIA. This year (2005), PIA tendered the digitization of the physical blocks and launched the nationwide "Farm Registration" project, whose purpose is to pre-register all the potential applicants for direct payments and to serve as data input in the establishment of a link between the physical blocks and the farmers.

Keywords: Romania, LPIS, IACS, orthophoto, physical blocks, digitization, paying and intervention agency, linkage, preparation, creation.



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ROMANIA Ving and Intervention Agen

Status of LPIS Creation in Romania

Filip Razvan GHITESCU
Counsellor of European Integration

CwRS Krakow 23-25 November 2005



CONTENTS

- LPIS Framework
- Methodology Used/Reference Parcel
- Provision of orthophotos
- Digitization of physical blocks
- · Establishment of Link to the Farmers
- Updating and maintenance of LPIS

ROMANIA

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ROMANIA g and Intervention Agency

LPIS Framework

- Romanian Paying and Intervention Agency has the full responsibility for the creation and maintenance of LPIS.
- The ortho-images needed for the creation of LPIS are provided by National Agency for Cadastre and Real Estate Publicity
- Government Memorandum: Romania will apply SAPS, with the eligibility threshold of
 - 1ha/farm and
 - minimum parcel size of 0.3ha
- Approximately 1.8-2.0 eligible farmers
- Intended GAECs for 2007 to be announced by MAFRD in December.



METHODOLOGY USED

- · LPIS based on ortho-images and Physical Blocks
- Ortho-images
 - 240.000 sqkm
 - 6 different photogrametric flight campaigns, various stages of processing
 - Expected Delivery Date of the last batch: 15.02.2006
- Physical Blocks
 - Estimated number of PB:2-3 million

YEAR / PROJECT	PERENTAGE OF TOTAL AREA COVERED BY FLIGHTS
2001 (Aero 01)	2%
2002 (Aero 03)	7%
2004 (Aero 05, Matra, Aero 06)	34%
2005 (Aero 07)	57%

ROMANIA lying and Intervention Agency

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and Intervention Agency

DIGITIZATION OF PHYSICAL BLOCKS

- Tender for digitization of physical blocks and print-outs.
 - Tender was closed on the 14th of October
 - 4 lots covering the entire country
 - Expected Results: physical block system and printouts for the linkage process
- Tender for Quality Control of the digitization and print-outs.
 - Still open until the 6th of December
 - Expected Results: Small GIS, Coordination support, Quality Control of the digitization and print-outs



ESTABLISHMENT OF THE LINK TO THE FARMERS

- Pre-requisites
 - Nationwide Farm Registration
 - Print-outs form the Digitization of Physical Blocks
- · Farm Registration started 1st of October
- ✓ So far 350.000 farms registered
- ✓ Expected to end in March 2006
- ✓2.000 staff members of PIA, NAAC and ARDD.



Training of Farm Registration teams

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g and Intervention Agency

ESTABLISHMENT OF THE LINK TO THE FARMERS

- Expected Result: contact information and parcel list for all potentially eligible farmers
- The parcel list contains a column with geographical indications concerning the parcel and an additional column with the physical block ID number.
 - The physical block ID number corresponding to each parcel will be filled-in during the linkage process.
 - Linkage process to start in April 2006



Linkage: assigning PB IDs to the parcels declared by farmer



ESTABLISHMENT OF THE LINK TO THE FARMERS

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- Objective: establish a correspondence between the parcels declared by the farmers during the farm registration and the corresponding physical block ID number.
- Target: <u>at least</u> 70% of the eligible area (approx. 10,5 mil. ha). Ideally:
 - All Large Farms (>20 ha): 24.000 farms covering 52% of UAA
 - All Medium Farms (5-20ha): 130.000 farms covering 14% of UAA
 - And 30% of the small farms (1-5ha): 550.000 farms covering 9,5% of UAA
- Expected Results of Linkage:
 - Correction of Physical Block Boundaries and
 - Crosschecks/Early Warning System

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UPDATING AND MAINTENANCE OF LPIS

- g and Intervention Agency
 - First correction of the physical block boundaries to be performed after the linkage process,
 - From 2007 on, annually, following the onthe-spot controls
 - Maintenance of LPIS will be performed by PIA staff



WHAT COMES NEXT?

ROMANIA g and Intervention Agency

- IACS Software, Hardware and Network Tenders, expected in January 2006.
 - 3 separate tenders.
- Establishment of 168 local offices of the PIA, the third level of the organizational structure.



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THANK YOU!

QUESTIONS?



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Presentation 3 - Integrated Administration and Control System - IACS-GIS Land Parcel Identification System - LPIS in TURKEY

Eyüp Köksal, İ. Hakan ERDEN

Ministry of Agriculture and Rural Affairs (MARA), General Directorate of

Production and Development, Agricultural Land Evaluation

Department, TK

Abstract

The Presentation deals with an analysis of the current situation and preparatory period of Integrated Administration and Control System – IACS, Land Parcel Identification System – LPIS and Geographic Information System – GIS in Turkey.

The Presentation has been prepared in the scope of giving brief information on three main issues; I) The short history of regarding IACS initiative works in Turkey, II) The works/results similar or related with above mentioned subjects, responsible bodies, infrastructure etc. III) The EU Project named "Formation of Integrated Administration and Control System (IACS) and Establishment of Land Parcel Identification System (LPIS) in Turkey" under the "Preparation for the Implementation of EU Common Agricultural Policy"

Consequently; the expectation from this presentation, as a Candidate Country, besides giving information, is sharing the experiences of MSs.

Keywords: EU harmonization period, legislation and legal basis (EU&TR) public administration, common agricultural policy, land parcel information system, Integrated administration and control system, geographic information infrastructure.



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INTEGRATED ADMINISTRATION AND CONTROL SYSTEM - IACS- GIS LAND PARCEL IDENTIFICATION SYSTEM - LPIS in TURKEY

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GENERAL DIRECTORATE OF AGRICULTURAL PRODUCTION AND DEVELOPMENT





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finistry of Agriculture and Rura Ifairs (MARA) -TURKEY

INTEGRATED ADMINISTRATION AND CONTROL SYSTEM (IACS)

INITIATION OF THE STUDIES
REGARDING IACS IN TURKEY
AND PERIOD UP TO NOW

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 Studies related to IACS in EU harmonization period have started in 1998 under the coordination of EU General Secretariat and State Planning Organization (SPO)

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y of Agriculture and Rura (MARA) -TURKEY

Several Bodies/Institutions out of MARA have been interested with IACS (1998 - 2003)

Throughout the period;

- Meetings with EU General Secretariat,
- Studies with EU consultants,
- Under the present coordination, subcommision studies realized by the participation of related institutions and agencies and evaluation of these studies,
- Work on legislation research studies,
- Organization of various seminars and meetings,
- Under the frame of providing the participation to related meetings,

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As a result of the evaluation of these studies as a whole:

It has been decided that studies related to IACS and the establishment of the system should be carried out under the coordination of Ministry of Agriculture and Rural Affairs.

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try of Agriculture and Rur s (MARA) -TURKEY Under the direction of the commitments taking place in National Program and this decision;

Coordination and establishment of the System studies are carried out actively by the Department of Agricultural Land Evaluation which is bound to the Directorate of Agricultural Production and Development functioning in the structure of our Ministry starting from August 2003.

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nistry of Agriculture and Rura airs (MARA) -TURKEY In Resolution no 2003/5930 and 2003 participation Membership Document (Legal Base in Turkey)

Completion of Animal Identification and Registration System to be linked to the "Integrated Administration and Control System" and initiation of preparatory studies for other components such as Land Parcel Identification System *short term*.

"Integrated Administration and Control System - IACS" were mentioned among mid term priorities.

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STUDIES CARRIED OUT
UNTIL NOW
AND
CURRENT SITUATION

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inistry of Agriculture and Rura ffairs (MARA) -TURKEY First of all, studies carried out till now have been examined and works to be done have been determined.

As it is foreseen in existing legislation, at the beginning of 2004 Standard Project Fiche preparation covering the subjects of, "Establishing Integrated Administration and Control System and Land Parcel Identification System" started.

In the basic frame of Project, a PILOT PROJECT related to the formation of Land Parcel Identification System was planned to take place.

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In line with the given decision, the Standard Project Fiche was prepared and sent to EUGS on March 2004 to be submitted to EU Commission.

During the preparation phase of Project, contributions of EUGS and EU Joint Research Center in Italy have been made use.

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The name of the project :

Formation of Integrated Administration and Control System (IACS) and establishment of Land Parcel Identification System (LPIS) in Turkey

Beneficiary of the Project:

Ministry of Agriculture and Rural Affairs

General Directorate of Agricultural Production and Development –

GDAPD

Department of Agricultural Land Evaluation -ALED

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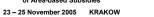
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Remote Sensing of Area-based Subsidies





Aim Of The Project:

To provide support for Ministry of Agriculture and Rural Affairs in establishing the main elements of IACS according to EU norms,

To increase the capacities of beneficiaries about legal and institutional issues related to IACS and Land Parcel Identification System - LPIS in accordance with the EU legislation and applications,

To initiate the preparations for establishment of an Integrated Administration and Control System which operates in the medium term,

To establish the elements of a system, which operates in harmony with the EU, in order to make rational agricultural plans and supports.

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Budget of the project : 1.075.000.-Euro (grant)

PROJECT'S IMPLEMENTATION SCHEDULE

Preparation Period : Nov. 2004 - Jan 2005

Forecast Published : March 2005 Start of Implementation (Expected): End of Feb 2006

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Remote Sensing of Area-based Subsidies

23 - 25 November 2005 KRAKOW



THE PLANNED RESULTS OF THE PROJECT

The basic elements of the Integrated Administration and Control System will be defined, and present activities and frame related to the basic elements will be drawn. Institutional frame will be drawn in this direction and necessary cooperation and coordination will be provided.

Designing a functioning Integrated Administration and Control System (IACS) and Land Parcel Identification System in Turkey

System Establishment oriented investment needs will be determined.

All breakdowns will be removed before nation-wide implementation via tests of the pilot project implementation.

Land Parcel Identification System will be established by the help of pilot project, useful data related to implementation will be received.

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Thanks for your attention

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Presentation 4 - Integration of the second wave and following steps in the Cap reform

Ansa Norman Palmér DG Agriculture and Rural Development

Abstract

The reform of the Common Agriculture Policy and the introduction of the Single Payment Scheme adopted by the Council in 2003 were followed by a "second wave" that included the regimes for cotton, olive oil and tobacco. As the first part of the reform the payments are decoupled from the obligation to produce. However, there is a possibility for the Member States to let a part of the payments to farmers remain coupled to the obligation to produce in order to entitled to the aid.

The rules for the implementation of the reform are to be found in three Commission Regulations ((EC) No 795/2004, (EC) No 796/2004 and (EC) No 1973/2004), which had to be adopted to comply with this second wave. This was completed whilst keeping the next steps of the CAP Reform in mind, such as the reform of the sugar regime, all in order to facilitate their introduction in the Single Payment Scheme at a later stage.

Keywords: Single Payment Scheme, CAP Reform



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Content

- The second wave of the reform, Regulation (EC) No 1782/2003 as amended by Regulation (EC) No 364/2004
- The decoupled part, Regulation (EC) No 795/2004
- The re-coupled part Regulation (EC) No 1973/2004
- IACS, Regulation (EC) No 796/2004
- Next steps of the reform



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The second wave of the reform, Cotton, olive oil and tobacco.

Regulation (EC) No 1782/2003





The second wave (I)



The reform in summary

- Enter into force 1 January 2006
- Minimum de-coupling
 - Cotton
 - Fixed at 65 %
 - Olive oil
 - Minimum 60 %
 - Tobacco
 - Minimum 40 %, from 2010 fully de-coupled



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The second wave (II)



The reform in summary

- Cotton
 - A national base area established
 - Possible differentiation of aid for members of approved inter-branch organisations
 - An extra payment to farmers that are members of approved inter-branch organisations
 - From 2007 an amount should be available for restructuring programmes under Rural development in the cotton producing regions





The second wave (III)



The reform in summary

- Tobacco
 - Transfer to the Community Tobacco Fund
 - 4 % in 2006 and 5 % in 2007 of the aid granted for information actions
 - When fully de-coupled 50 % of the initial reference amount will be transferred to the Single Payment Scheme and 50 % to restructuring programmes under Rural development in the producing regions concerned



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The second wave (IV)



The reform in summary

- Olive oil
 - Contribute to the maintenance of olive groves of environmental or social value
 - Granted per Olive GIS-ha
 - Only for areas with olive trees planted before 1 May 1998 or replacing trees or surfaces covered by a programme approved by the Commission
 - MS shall fix an aid per olive GIS-ha for up to maximum of five categories
 - MS may withhold up to 10 % of the tobacco component of Annex VII ceiling to ensure community finance of work programmes drawn up by approved operators' organisations.

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The second wave



The de-coupled part

Regulation (EC) No 795/2004



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The Decoupling part (I)



Recalculation/establishment of Payment Entitlements (PE)

- Historical model
- Member States that implement the reform in 2006
 - No specific measures, included in the first establishment

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The Decoupling part (II)



Recalculation/establishment of Payment Entitlements (PE)

- Historical model
- Member States that already implemented the reform 2005
 - Farmers who do not have any PE
 - No specific measures, reference amount divided by the number of corresponding hectares
 - Farmers who had PE in year 2005
 - The number of PE he <u>owns</u> plus the amount and the number of hectares established in the reference period



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The Decoupling part (III)



Recalculation/establishment of Payment Entitlements (PE)

- Regional/Hybrid model
- Regional model
 - All PE increase its value with the same amount resulting by dividing the increase in the National Ceiling with the number of PE
- Hybrid model
 - An flat rate part distributed to all PE
 - The historical part distributed as a "Top-up" to farmers concerned
 - Set-aside PE receives only the flat-rate





The Decoupling part (IV)



Special rules for Olive oil

- The number of hectare to be taken into account when calculating the PE should be the so called Oligis hectare defined in Annex XXIV of Regulation (EC) No 1973/2004
- Malta and Slovenia have special rules for 2006 where they may grant aid for Oligis hectares in 2006. These two Member States will implement the single payment scheme in 2007





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The Decoupling part (V)



General rules

- The linear reduction of a possible overshot of the national ceiling should effect all PE, "old and new"
- Reduction of the National reserve should be done
- The five years period for PE received from the National Reserve will not restart





The second wave



The re-coupled part

Regulation 1973/2004



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The Re-coupled part (I)



Implementing rules

- Mainly detailed implementation rules for the provisions in the Council Regulation
- The calculation of the Olive GIS-ha
- Communications from MS to the Commission

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The second wave



The Integrated Administration and Control System, (IACS)

Amendments of Regulation (EC) No 796/2004



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IACS (I)



Applications (Article 12-13)

- Decoupled part covered by existing rules
- Re-coupled aid
 - Cotton
 - The name and variety of cotton seed used
 - The name and address of the approved interbranch organisation of which the farmer is a member





IACS (II)



Applications (Article 12-13) cont.

- Re-coupled aid
 - Olive groves
 - · The number and positioning in the parcel
 - of the olive trees grubbed up and replaced
 - of the olive trees grubbed up and not replaced
 - of supplementary olive trees planted
 - Tobacco
 - · a copy of cultivation contract
 - an indication of the tobacco variety grown on each parcel
 - a copy of the supporting control certificate issued by the competent authority indicating the quantity of dried tobacco leafs delivered to the first processor



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IACS (III)



Cross-checks (Article 24)

- Between agricultural parcels declared and parcels authorised by the Member State for cotton production
- Between declarations of farmers to be a Member of an approved inter-branch organisation and the information provided by those organisations





IACS (IV)



Control rates (Article 26)

- 5 % of all farmers applying for the re-coupled tobacco aid
- 20 % of the approved inter-branch organisations in the framework of the crop specific payment in accordance with Chapter 10a of Title 4 of Regulation (EC) No 1782/2003
- 5 % of the first processors as regards checks during first processing and market preparation



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IACS (V)



Risk analyses (Article 27)

- For re-coupled tobacco aid,
 - quantities of raw tobacco, by variety, covered by contracts in relation to areas declared as under tobacco;
 - different sizes of first processing undertakings

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IACS (VI)



Specific requirements for on-the-spot checks

- Checks on approved inter-branch organisations for cotton (Article 31a)
- Checks on deliveries of tobacco (Article 33b)
- Placing under supervision and checks during first processing and market of tobacco (Article 33c)



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IACS (VII)



Basis of calculation of areas and possible reductions (Articles 50-52)

 Tobacco falls into the existing rules for starch potatoes and seeds, the same derogation is given

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IACS (VIII)



Reductions (Articles 54a-54b)

 Specific rules for re-coupled tobacco aid and the crop specific aid for farmers belonging to an approved inter-branch organisation for cotton



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IACS (IX)



General amendments done, not explicit for the second wave

- Definition of agricultural parcel re-introduced, slightly modified (Article 2(1)(a))
- Decreased control rate for nuts, following a feasibility study (Article 25(1)(d))
- Possibility to proportional administrative corrections when over declarations within the limits of the tolerances
- Tolerances for parcels smaller than 0.1 hectares (Article 30(1))
- Special provisions for additional payments, Articles 69 and 119 of Regulation (EC) No 1782/2003 added (Articles 38 and 63)

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The second wave



Next steps of the reform



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Next steps of the reform (I)



The Sugar reform

What are the objectives?

Improve the competitiveness and market orientation

Create a sustainable market balance in consistency with the EU's international obligations

Bringing the sugar sector in line with the CAP reform process (decoupling)

Provide a long-term policy framework, with no review in 2008

Budget neutrality





Next steps of the reform (II)



The Sugar reform

Intervention abolished

Replaced by a reference price

Price cut by 39%

Cut of Minimum Sugar Beet Price by 42,6%:

Price reporting system



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Next steps of the reform (III)



The Sugar reform

- Direct payments for sugar beet growers will:
 - Represent 60% of the estimated revenue from the proposed price cuts – applicable for EU-25
 - Be decoupled and thus become part of the single payment scheme, including respect of Cross Compliance standards





Next steps of the reform (IV)



Coming reforms

- On the agenda are:
 - Processed Fruit and vegetables
 - Wine



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Next steps of the reform (V)



Reviews foreseen in Regulation (EC) No 1782/2004

- At end of 2006 at latest
 - On the implementation of the energy crops scheme (Article 92)
- At end of 2007 at latest
 - on the possible consequences in terms of market and structural developments of the implementation of the so called stickers for Fruit and vegetables (Article 60)
 - on the application of the system of cross-compliance (Article 8)
- At end of 2009 at latest
- On possible consequences in terms of market and structural developments of the implementation of the re-coupling and the transitional period (Article 64)
- At end of 2010 at latest
 - On the application of the Farm advisory System (Article 16)





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Presentation 5 - Future Evolution of the control with Remote Sensing

Olivier LÉO DG JRC- IPSC Agriculture and Fisheries Unit

Abstract

For the past 2 years, MARS PAC has tried to figure out what will be the changes introduced by the CAP reform and will the simplified Scheme will generate some simplifications in the control procedures?

But the Control with remote sensing procedure is a heavy mechanism with some inertia. Changes were prudently introduced and this was useful to fully consider the diversity introduced by the different Models of SPS, their progressive implementation by the Member States and the successive waves of amendments to the CAP Regulations...

This presentation clarifies some of the present vocabulary and concepts of the controls with remote sensing, strongly justifying the analysis of future optimisation of the method as an integrated evolution of the On-the-Spot-Checks, to be driven by the users requirements (and not only by the technique), and optimised, in terms of control strategy, according to the specific regional context (type of model, importance of coupled schemes).

Area measurements are presently well specified by a coherent set of rules and technical tolerances which are applicable both at the LPIS, for field measurement or control with remote sensing. The SPS and the simplified definition of agricultural parcel (single payment group) may reduce in some situations the number of measurements to perform and will reinforce the use of IACS GIS, especially the interest of farmer blocks systems. Further requirements on IACS GIS are introduced for the control of the Nuts (2005) and the reform of the Olive oil sector (2006).

Requirements in terms of control of land use will become much more regional specific: Traditional use of HR imagery time series will remain fully appropriate in situations cumulating a number of coupled subsidies, but will become questionable in others, especially if declarations by farmers do not provide detailed information on the different crops within the SPS parcels.

In some cases, an interesting "reverse" approach would be to try to detect candidate non eligible crops (potatoes, vegetables...) instead of interpreting the declared crops. In other cases, a single VHR image should be sufficient to check non eligible feature or to trigger possible rapid field visits to doubtful or suspicious land use. More generally, the land use check may require a specific expertise of the photo-interpreters (distinction between different types of grasslands, check of maintenance), reinforcing the interest either to involve field inspectors in CAPI, or to associate interpreters in Rapid field visits.

Tests of supporting the control of GAECS with RS indicates in 2005 the high potential of CwRS and GIS tools in this field. The general efficiency remains questionable if the operational use is restricted to the 1% scattered sample in an Audit approach. A number of orientations are provided to consider ambitiously the implementation / control of GAECS and as a whole (possible inputs in the declaration, Administrative controls and FAS) but also to imagine possible additional control strategies to detect infringements on the less tangible requirements.

Keywords: CwRS, IACS GIS, CAP Reform, Single Payment Scheme, GAECs.



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11Th conference on Control with Remote Sensing Krakow, 23-25 November 2006

Mid term evolutions of Controls with Remote-sensing

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General context

- Since 2 years (Köln conference) we try to figure out
 - What will be the main changes in CwRS by the CAP Reform?
 - Will the "SPS" generate some changes? some simplifications?
- CwRS is a heavy machinery ⇒ some inertial effect
- Technical specifications carefully adapted, no dramatic changes,
- idem for Image requirements by MS for 2006 ...
- Easier to add new control requirements (ex GAECs), than to withdraw some others ...

But CwRS as OTSC will have to be optimised according to your national/regional implementation of CAP...

How ?



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Clarify the vocabulary & concepts (1)

- · + Controls with / without Remote Sensing
 - doesn't replace traditional inspections!
 - No opposition between modern sophisticated tools and "archaic" inspections, where
 - · First step was to meet the farmer
 - · Spend half a day on the kitchen table to discover paper maps
 - · Then select fields to visit and measure some of them
 - and final reporting to farmer ...
 - because such archaic inspection should not more exist
- We need to consider the technique(s) in the general OTS control process

The techniques are a support to perform efficient controls



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Clarify the vocabulary & concepts (2)

- CwRS requires indeed rather technical skills
 - involvement of «contractors» to process Imagery
 - but technology become more and more user friendly for the real users: Field inspectors /Control agency
- Risks of separation between technical operators/ users requirements

Some recent examples

- in 2003- 04. Poor ortho-correction of VHR image by some contractors used only in HR image processing
- In 2005. Automatic classification and diagnostic with VHR?
 Field inspectors not using VHR or not even aware that satellite VHR is as good as airborne imagery...

The main challenge for the future is to combine the best tools available for the new requirements



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Clarify the vocabulary & concepts (3)

- "Rapid" field visits?
 - Defined in 94-95, to mean « <u>direct</u> visits of fields, following a preparation by CwRS»
 - <u>Direct</u> i.e. without the farmer and without preliminary visit to the farm... (cf «Kitchen table GIS»)
- The main idea was not to be «rapid», but
 - to be efficient and independent from farmer
 - And more important
 - to avoid guessing/ deciding what's unclear on the image...
 - Or waiting for another image...



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Clarify the vocabulary & concepts

- · "Rapid" field visits
 - Are used on large scale in ITALY, POLAND, SPAIN (Andalusia)
 - With the support of one single VHR image (Aerial or satellite)

So called VHR+RFV approach

- VHR + "Rapid" field visits
 - is an efficient & pragmatic way of combining
 - RS (Office work preparation + mainly area measurement)
 - and field visit (check of land use and other requirements)

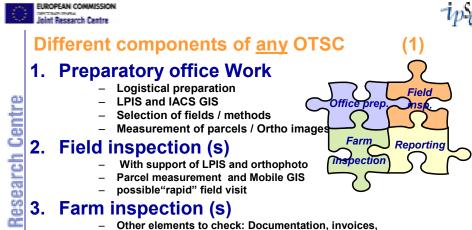
VHR+RFV is definitely one of the most credible Control approach, providing a good training & supervision of inspectors



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- Other elements to check: Documentation, invoices,
- Cross compliance (animals, equipments, GAECs etc)
- RDP (investments, etc...)
- Control reporting
 - Transmission of findings to the farmers
 - Notification of adjustments / penalties, IACS feed back

These components are complementary and have to be integrated in a pragmatic way for a efficient OTSC











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Different components of any OTSC

(2)

- With the availability of IACS GIS, All the OTSC
 - be prepared in office before visit
 - take benefit of IACS GIS information
 - be supported by the most recent available ortho-images.
- Useful data from CwRS should be available in IACS GIS
 - Ex. Ortho images of CwRS for next-year declaration
- The "rapid" field visits are also possible for controls without remote sensing
 - With interesting Mobile GIS / GPS equipments



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Evolution of the control requirements?

- Usual separation between
 - Area checks
 - Parcel measurement
 - Closely linked to the IACS GIS
 - Land use checks
 - Controls of eligibility of crops and Land uses
 - Closely linked to the type of SPS model, but also to the detail of crops in the declarations
- NB: Controls of Cross compliance will be developed separately



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Area measurement in SPS

(1)

Coherent approaches between sources and tools

- cf LPIS, CwRS, Field measurements with GPS
- Buffer approach & technical tolerances are similar
- Also accessible to farmers with same accuracy (GPS)!

According to the permanence /definition of the object Inspectors should be in position to decide between...

- keeping the reference area of the IACS GIS
- Performing a GIS measurement on archive Ortho (LPIS)
- Use campaign VHR ortho to measure the actual parcel
- Visit the parcel and perform a field measurement ...

Standardise methods and quality insurance should allow to trust measurements



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Area measurements in **SPS**?

 Not necessary to measure all individual parcels, but only the group of contiguous parcels of a single payment group.

cf new definition of the agricultural parcel in 796/04 Article 1

. "... contiguous area of land for which a single crop group is cultivated by a single farmer"

Consequences:

- 1. Less work, especially in case of field inspection/measurement In CwRS may be still cost efficient /useful to digitise all crops
- 2. More compensation between parcels / ilots (larger group).
- 3. But indeed stricter tolerances for buffer approach

 CF: Internal boundaries between crops do not generate extra
 technical tolerances...



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Area measurement in SPS?

- Regional Models. Entitlements to be activated are similar to the total area eligible
- Importance of accurate area measurements.
- oint Research Centre Historical Models. Eligible crops areas may be basically larger than the entitlements to be activated. SPS payments will be in any case ceiled to available entitlements
 - Area measurement less critical in some circumstance
 - Take into account in Risk analysis ∆ total declared /entitlements!
 - Reinforce more LPIS & IACS GIS than CwRS?



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Evolution of the LPIS & IACS GIS

- General content of LPIS
 - Farmer blocks or ilots become theoretically the best reference parcel system
 - · Provide a basis area for SPS Blocks
 - · Importance of sketch maps by farmers in case of physical blocks!
- But LPIS should be able to clearly identify
 - Whole farm area, submitted to cross compliance
 - And GAECS features included/ attached to parcels



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Evolution of the LPIS IACS GIS

- LPIS should be able to record/ manage
 - Total area eligible for SPS
 - **Including possible GAECS elements**

Cf article 30.2 of 796/04

- Area eligible for Coupled Aid schemes (title 4)
- SPS area strictly ceiled to the total area of the block.
- But area of other aid schemes Are taken into account separately And may overlap each others... Cf Article 49.3 of 796/04.





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Evolution of the LPIS IACS GIS

- Reform of the Olive Oil sector
 - OLI GIS integrates LPIS: Migration from Olive tree to areas...

OLIAREA (©JRC) base for calculation of entitlements Cf Annex XXIV of last Amendment to Reg. 1973/04 (October 2005)

- In almost all the MS total decoupling. Olive oil payments enter in amount and area of farm entitlements.

Partial coupling 5 % SP, ITA TBC ?

- Specific control requirements
 - Reference eligibility: Olive Tree (groves) planted after May 1998 are not eligible for SPS or coupled (Dec 01 for CY, MT)
 - Specific GAECS for Olive/Trees
 - · Maintenance of Olive Trees (Pruning, etc)
 - Possible Conservation of Olive trees (interdiction of uprooting)
 - Interest of OLIGIS historical info & orthophoto for controls!



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Evolution of the LPIS IACS GIS

Introduction of DRY NUTS

- Already integrated in IACS GIS
- But excluded from SPS
- On going pilot study by JRC
- DG AGRI propose possible simplifications (ongoing discussion with Member States)
- MARS intend to organize 1-2 Workshop(s) on practical implementation of Olive Tree and Nuts in IACS

ISPRA, April 2006

- Future reforms of 2006?
 - Vineyard GIS?
 - Fruit trees ?
 - > The general result is likely to rely on the IACS GIS general specifications, same thing for area measurement.



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Land use checks

(1)

- The full catalogue of possible control requirements is quite exhaustive
 - (Title 4, partial re-coupled, Top ups for SAPS...)
- but the real control requirements / CwRS strategy will differ
 - According to the remaining coupled aids Real importance in % of dossiers, areas, payments?
 - The exact definition of SPS

What is included? What is excluded?



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Land use checks

- Regional models: Almost all land uses can be eligible in SPS (outside «permanent» crops)
- Historical models. A number of crops are not eligible in SPS (Permanent crops, but also vegetable & fruits)
- Limited interest of multi-temporal imagery to check land use or Set aside

Especially if declaration do not provide the detail of the crops !

- Present HR Time-series can be justified according to the importance of Title 4 and re-coupling schemes
 - less relevant when marginal
 - Mainly centre and south Europe (more coupled aids, mediterranean package)...
 - Change in 2007 with Sugar beet in central-north Europe?



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Land use checks

(3)

- **New controls requirements?**
- Farmers may not declare some of their parcels for different reasons (non compliance, grassland ,etc)
 - More likely in Historical models
 - Totally new controls mechanisms, (Parcels "disappearing" from IACS declarations)
 - But mainly based on IACS GIS, Remote sensing could be used in case of presumption
 - Monitoring of the ratio of permanent pastures?
 - Mainly a IACS statistical procedure

JRC carry out a pilot study on monitoring of permanent grassland Ratio in 2006



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Land use checks

(4)

- In some SPS-only situation, HR imagery will become almost useless
 - 1 VHR sufficient to detect non-eligible features
 - RFV to address doubtful case & marginal coupled schemes.
 - Interest to reinforce LPIS and IACS GIS cross controls...
- In some other SPS situation, interest of opposite approach for CAPI
 - > Focus CAPI of the candidate non eligible crops (cf potatoes)
 - > Select most appropriate date/ image,
 - and automatic classification to trigger field inspections?
 - More generally, possible requirement to reinforce CAPI expertise to distinguish between different types of grasslands, type of maintenance, etc...
 - Interest of close follow up of contractors or involvement of the field inspectors in CAPI



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Control of cross compliance & GAECs (1)

- First tests in 2005 indicate strong interest of RS data (Cf session T2)
 - To control some of the GAECS.
 - to be completed in any case by field inspections!

But cost benefit of operational controls is still an issue for a scattered sample of 1% dossiers...

- DGAGRI accepts continuing on similar basis in 2006
 - Provision of HR satellite imagery (Radar?)
 - But results have to be clearly evaluated: control feasibility & efficiency compared with simple field visits

JRC will pay a specific attention on this in 2006!

There is no reason to provide images if there are not used

Testing methods should not prevent performing real checks



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Control of cross compliance & GAECs (2)

- A need for a more basic reflexion on controllability/ implementations of GAECS
- Some of the techniques presented could be deployed in IACS GIS (for Administrative controls)
- . Some tools could be also useful to support the farmers (Pre-printed information, FAS)
- Some specific control strategies may be imagined



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Control of cross compliance & GAECs (3)

 A very heterogeneous list of detailed requirements to check (SMR, Standards)

- · A difficult exercise
 - Difficulties to make a unique risk analysis?
 - How to perform complete & efficient checks?
 - Without useless burden to the 1% farmers selected ...
 - How to justify incomplete checks to Audit?



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Control of cross compliance & GAECs (4)

- Case of GAECS with deadline
 - "Something has to be done before xx/xx (date)"
 This "something" has a controllable evidence.
- · In term of control results:
 - Positive \rightarrow Fail or non compliant .
 - Negative \rightarrow OK.
 - False positive \rightarrow Controlled positive but in fact OK.
 - False negative → Controlled OK but in fact positive.



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Control of cross compliance & GAECs (5)

"Something has to be done before xx/xx (date)"



 If you control before the deadline... you may confirm compliant cases, but non compliant farmers still have time to correct before deadline

No penalties applicable... or need to return

If you control after the deadline... you identify real positive (Penalties applicable) but you may miss non compliant cases

Best date should be <u>as soon as possible after the deadline</u>
Can be useful for CWRS windows
But a more general concern for a efficient control

NB: Opposite results if "something should not be done before"



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Control of cross compliance & GAECs (6)

- Requirements to be controlled
 - can be rather permanent and tangible (Visible, documented)
 - may also be rather intangible
 - · cf infringement without traces,
 - · involving time periods and deadline...
- Tangible requirements are satisfactorily controllable by an Audit approach
 - 1. Selection of beneficiary on risk analysis
 - 2. Control of all cross compliancy issues (as exhaustive as possible)
- But multiplication of controls visits for a given farmer raise questions of efficiency, if not of use.



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Control of cross compliance & GAECs (7)

Two main questions

- How can we better deal with less tangible requirements?
- How can we better ensure efficient and acceptable controls?
- 1- Define as much as possible requirements by their documented evidence
- 2 What could be the additional controls approaches to cover less tangible requirements?
 - For instance, applicable to some of the GAECS requirements?



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Control of cross compliance & GAECs (8

- The Breach (or Fraud) detection?
 - Select a sensitive place and the right time period
 - Screen the whole population for this specific requirement
 - Detect and report breaches / infringements ...

Probably a usual approach by some control bodies

- Advantages / Constraints?
 - PRO: More efficient than a xth inspection to the 1% selected
 - CONS: Report only positive cases (breaches)
- Many possibilities
 - GAECS such a stubble burning, soil cover, soil structure, Water logging, etc
 - But also transverse field visits in specific periods (Habitat, bird, Nitrate)
 - Provide LPIS (access to LPIS) to other control bodies?



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Conclusions

- Optimization of future CwRS is a real challenge
- Most of the techniques and approaches are already available
- Solutions requires close collaboration
 - between final users (inspectors) and technical contractors
- But also a stronger involvement of the Commission (AGRI + JRC) in Support to MS
- We have to be more ambitious in term of Control of **GAECS**



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Thank you for your attention!

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Presentation 6 - CTS and Recommendations 1 - 2006 Campaign

Pär Johan Åstrand, Hervé Kerdiles AgriFish Unit, EU JRC

Abstract

This presentation will give an overview of the main changes to the CTS, and the Recommendations 1 on Site Selection, Satellite Programming and Image Acquisition and Delivery; the role of the National Addendum as a place where MS can introduce new rules will be discussed, and further the other new issues will be summarized:

New HR imagery DMC

New VHR backup imagery OrbView3, and Formosat2

Finally the Annex 1 to the Recommendations 1 will be introduced giving VHR area quota and preliminary # of sites requested by each MS for the Campaign 2006.

Keywords: Common Technical Specifications (CTS), VHR, Disaster Monitoring Constellation (DMC)



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Changes to
the Common Technical Specifications 2006
and
the Technical Recommendations 1 on Site Selection,
Satellite Programming and Image Acquisition and
Delivery

JRC IPSC Agrifish Pär Åstrand Hervé Kerdiles

11th Annual CwRS Conference, 23 - 25 November 2005, Kraków, PL







CwRS ITT participation

- Publication date
 - Official Journal 2005/S 233 229332 http://ted.publications.eu.int/official/
 - 2005 years CTS and Recommendations 1 will be available on http://agrifish.jrc.it/marspac/CwRS/default.htm
- 5 MS participating in this years CwRS Campaign ITT
- MS/sites/approx # of applications
 - CY/2/3000, DE/13/5500*, GR/3/6800, PT/18/15000, UK (Wales)/1/500
 - more details will be defined in the Member State's National Addendum

(*) - Baden-Württemberg (4), Hessen (3), Mecklenburg-Vorpommern (3), Schleswig-Holstein (2), and Bayern (1)

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CTS 2006 - emphasis on National Addendum

- · Role of CTS:
 - To define common rules & methodologies for CwRS
 - No guiding for situations that may be very specific e.g. no "compulsory" strategy for checking cross compliance issues (freedom to define and check GAEC left to MS);
- National Addendum: place where MS can introduce new rules e.g.
 - Define payment groups, control strategy (e.g. RFV), codes for GAEC non compliancy, management of parcels belonging to several groups, follow up procedures (sorting of minor and major rejects)....
 - Define control strategy for olive groves, cotton, tobacco...

National Addendum may "derogate" from CTS

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Questions received

- Can we treat parcels declared below min size as ineligible and avoid A1 code? Yes no CTS change needed (what matters is ensuring that such parcels are rejected, whether in administrative controls or by the contractor).
- Can we measure 2 (or more) contiguous "agricultural parcels" (2 crops as per the old definition) of the same payment group as 1 parcel?
 - these 2 parcels from the same crop group may be considered as 1 parcel in some MS ♥ Cf. last amendment of Com. Reg 796/2004

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CTS 2006 – imagery issues

- HR data
 - inclusion of DMC (Disaster Monitoring Constellation) imagery (32m) on competitive basis
 - max 1 DMC image / site
- VHR data
 - inclusion of Orbview3 (1m B/W), Formosat2 (2mB/W) possibly EROS B as backup imagery,

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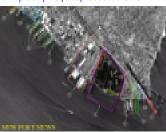


Recommendations 1 – 2006

- continued extra autumn, winter HR image for partial check of cross compliance / GAEC
- no. of images/site increases from average 3.5 (2005) to 3.9 (2006)
- use of DMC (HR), OrbView3, Formosat 2 (VHR backup)
- geometric correction
 - DMC
 - levels L1R (radiometrically corrected), and L2G (orthocorrected) data available (*)
 - OrbView 3
 - Levels Express (include satellite telemetry, RPC) or Enhanced (as Express plus post processed GPS data and metadata for rigorous photogram. triangulation)(*)
 - Formosat 2
 - levels 1A and 2A available (*)
- radar (as 2005)
 - if Spring 1 VHR/HR successful no radar image 2, 3
- VHF

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- CC, and multiple image delivery
- continued/increased use of LIODOTNET for image acquisition management



Formosat 2 - Image courtesy SPOTImage

 $(\mbox{\ensuremath{^{\star}}})$ – FC has still to be signed for DMC, Formosat, and OrbView provision (early 2006), pricing ?

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Recommendations 1 – Deadlines / Deliverables

- deadline for delivery of all sites, and shapefiles 31/12/2005
 - HR scene centres (Lat/Long DD WGS84)
 - Vector shape files of control sites (Lat/Long DD WGS84) (max 500 vertices...)
 - DE, ES have already delivered => thank you!
 - JRC need to perform VHR feasibility in January 2005
 - Window (opening/closure dates)
 - · including extra windows for cross compliance
 - autumn windows and sites should already have been handled to us...
 - Windows at this point already open for DE, DK, ES, FR, and GR

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Annex 1

DG AGRI has agreed to these amounts

- Recs 1 includes Annex giving VHR area quota and preliminary # of sites requested by each MS
- 22/25 MS participate to CwRS Campaign 2006
 - AT, FI, LU do not
 - VHR sites 198 (+23%), area 140,000km2 (+11%)
 - VHR Backup requested 59% (cf. 2005 40%), will be maintained at approx 40%
 - HR sites stable (+5%), HR images up (17%), no. of images / site 3.9 (cf. 3.5 in 2005)
 - radar imagery requests slightly down

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Annex 1

Total Sites	AP + RFV	VHR + RFV	HR + VHR	HR + AP	TOTAL (*)	APPLICATIONS
2004	128	13 (**)	64 (**)	82 (**)	287	160,000
2005	59	27	134	49	269	158,000
2006	47	(60	(138)	54	299	156,000

(*) excluding use of archive VHR or satellite

(**) including risk sites DE, and extra HU sites (6)

VHR sites	198	
total area requested (km2)	140,000	
HR sites	192	
HR images	744	
sites with 3 windows	42	
sites with 4 windows	132	
sites with 5 windows	18	
average no. of windows / site	3.9	(3.5 in 2005)
radar backup requested	54	(61 in 2005)

2006

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• Thank you!

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Abstract

The 11th yearly CwRS Conference on Controls with Remote Sensing of area-based subsidies was organized by the JRC (Institute for the Protection and Security of the Citizen, AGRIFISH Unit, MARS PAC) on 23-25 November 2006 in Kraków, Poland.

The Conference was organized in cooperation with the ARMA (Polish Paying Agency) and the Polish Ministry of Agriculture. It was held at the Sheraton Hotel, in Kraków. For the first time part of the conference was successfully organized with five parallel sessions plus poster session. The number of the participants registered to the event was 309, representing 36 countries (EU25, AC (BG, RO), CCs (HR, TR), and representatives from Albania (AL), Serbia Montenegro (SCR), Kosovo (KS), Macedonia (MK), and Switzerland, Israel, USA. Some registered participants (7%, mainly from PL) had to cancel their participation leading to a final number of 287 participants, which is a similar audience as last conference in Budapest.

A specific agreement with DG ELARG (TAIEX office) allowed the participation of above mentioned representatives from the CARDs countries. An important point was the involvement of the D1 Unit of DG AGRI who accepted to (co) chair 2 sessions. DG AGRI was in all present with 6 participants. JRC (Public Relations and IPSC AgriFish Unit) participated with 13 staff. The Conference in general gave input on the 2005 achievements, the new legislation, the problems and the solutions by the Member States, some approaches and considerations from the DG Agriculture, the technical progress, and the plans for 2006. Moreover, the EU, the MS Administrations, the Image Providers, and the contracting companies had a chance to meet each other and have discussions.

These proceedings are divided into two volumes (Volume 1 and Volume 2): the 1st one including all Plenary Sessions S1-S4, the 2nd one including all Parallel Technical Sessions (T1-T6).



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