DG AGRI process for
IACS data sharing under INSPIRE

AGRI D3 – Implementation support and IACS

12th MIG meeting

27 November 2020

Content

- "DG AGRI process"
  - Context & method

- "IACS65" EC arrangement to support MS
  - Role of AGRI, collaboration with ENV
  - Support of JRC B6, D3 and D5

- Concluding remarks

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Context

DG AGRI PROCESS for IACS data sharing under INSPIRE

- IAS and EU policy

  - CAP (current and coming) → **art 65** new CAP

  - Internal audit → more collaboration with EC services (ENV, EEA, CLIMA...)

  - Green deal (farm to fork) → specific targets (need for data, beyond the CAP *stricto sensu)*

  - Europe fit for digital age → Digital Europe programme; EU common data space (public ←→ private ?)

- DG AGRI process

  - Legal and technical framework: **INSPIRE**

  - Spatial and **non-personal** data (IACS/LPIS&GSAA)

  - **Collaboration** with EC services AND the Member States (Coordination bodies/Paying agencies)

  - **Efficient access** to data and **effective re-use of data** (use cases, pilot project)

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Method

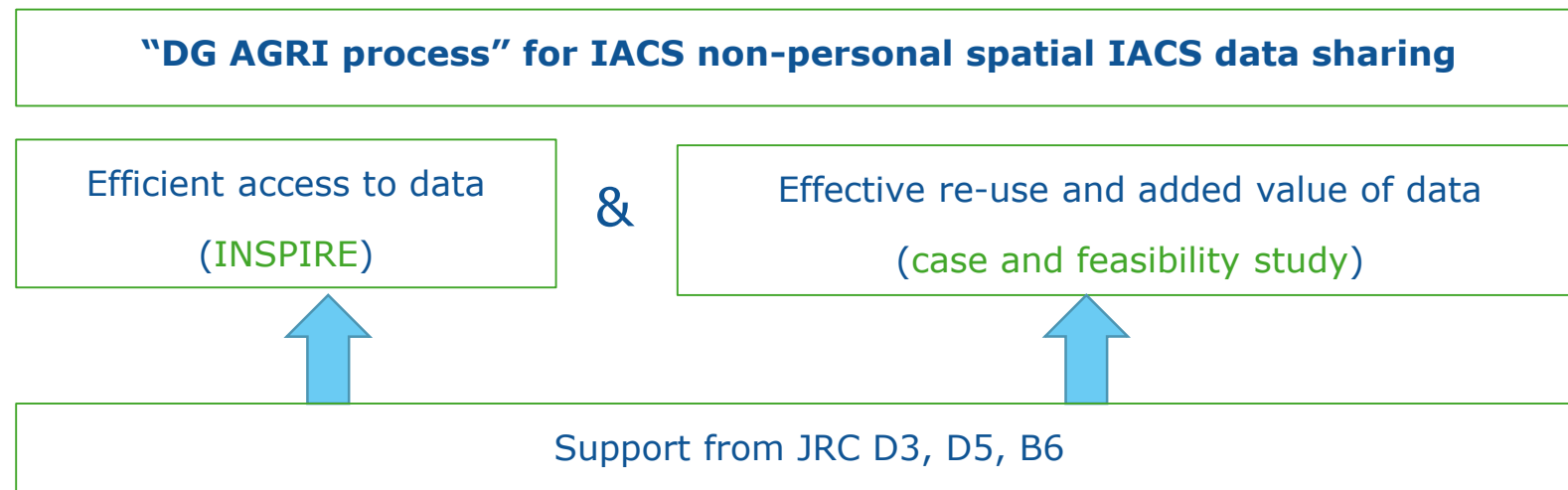DG AGRI PROCESS for IACS data sharing under INSPIRE

AGRI D3 - Implementation support and IACS

→ Current and future CAP

→ EU policy (Environment and digital)

→ Internal Audit Service IAS

In collaboration with <u>EC</u> <u>services</u> and <u>Paying agencies</u>

common understanding of the legal context (CAP, INSPIRE, GDPR) and

actual implementation in the geoportal

"DG AGRI process" for IACS non-personal spatial IACS data sharing

Efficient access to data (INSPIRE)	&	Effective re-use and added value of data (case and feasibility study)

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Method

DG AGRI PROCESS for IACS data sharing under INSPIRE
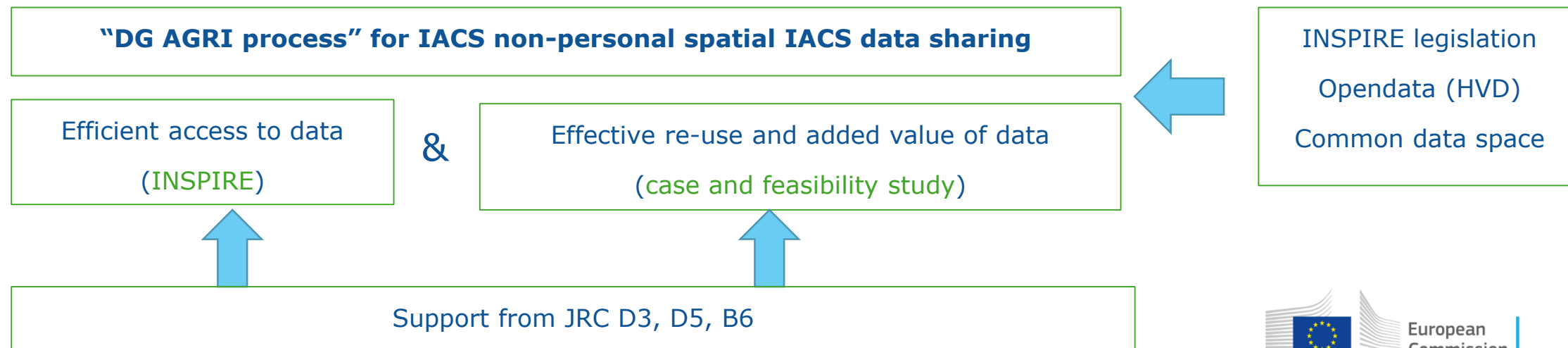
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Support from JRC D3, D5, B6

European Commission

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DG AGRI PROCESS for IACS data sharing under INSPIRE

AGRI D3 - Implementation support and IACS

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"DG AGRI process" for IACS non-personal spatial IACS data sharing		INSPIRE legislation
Efficient access to data (INSPIRE)	**&** Effective re-use and added value of data (case and feasibility study)	Opendata (HVD) Common data space

Support from JRC D3, D5, B6

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"IACS65": EC services will work together for

Discoverability of IACS data and **accessibility**

Interoperability of data sets and services through pilot projects (previous volunteers and new entrants)

Demonstration through practical examples focusing on **soil health** and others such as potentially LULUCF, statistics, crop types/yield, CAP indicators

Exploration and planning on how to use IACS potential, integrating and further analyzing available IACS data

Collaboration with the Member States and other institutional stakeholders

European Commission

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Collaboration with the Member States and other institutional stakeholders

→ MoU ENV/AGRI

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AGRI ← → Member States (CB/PA)
mapping – data sharing practices in the MS

Who?

What?

How?

[To whom?]

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AGRI ← → Member States (CB/PA)
mapping – data sharing practices in the MS
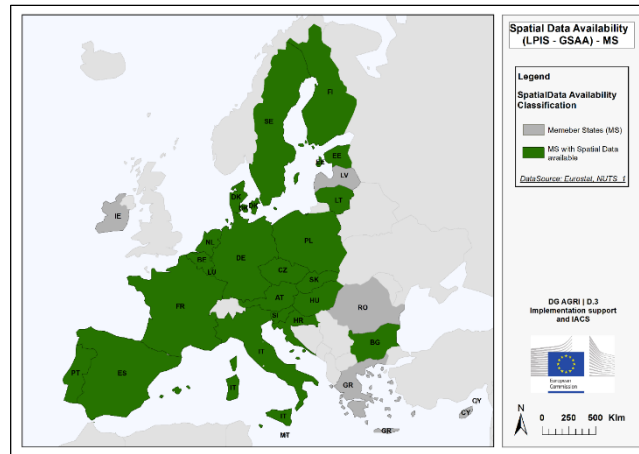
MS participation (June20)
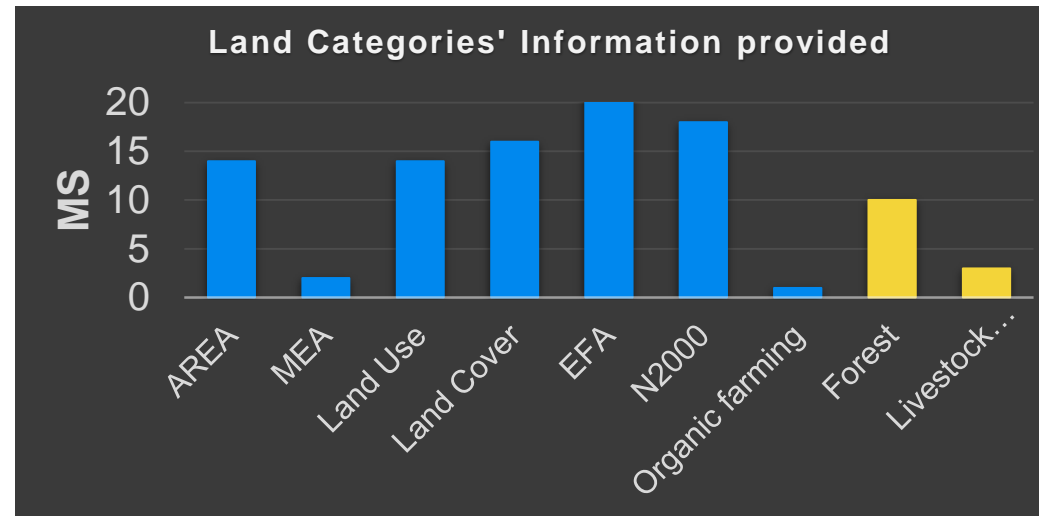
→ MS share… efficiency (EU level)? Re-use? INSPIRE?

→ Continous discussion with MS

Data sharing – inspire – 'agri' tools
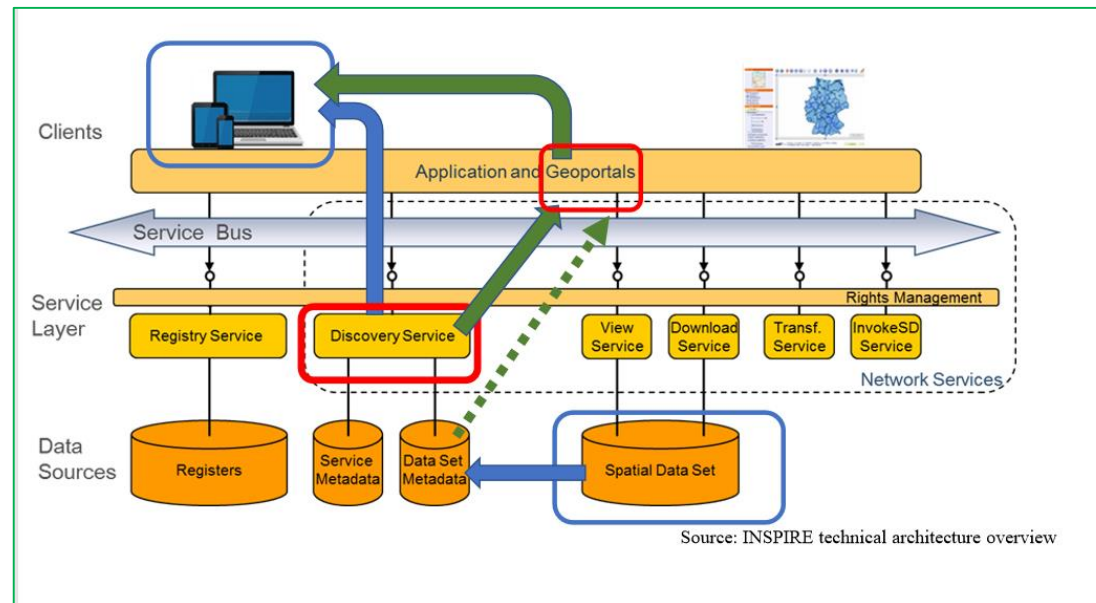
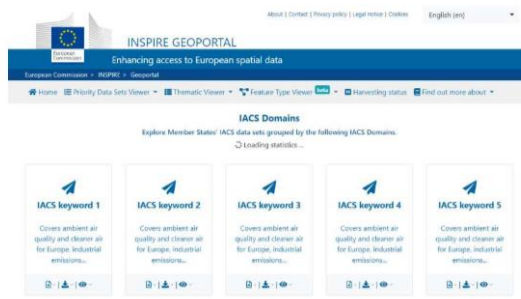**Not published – internal AGRI**
Built with MS input

Online
https://agridata.ec.europa.eu/extensions/DataPortal/home.html

+

Spatial «IACS» data

INSPIRE GEOPORTAL

Source: INSPIRE technical architecture overview

European Commission

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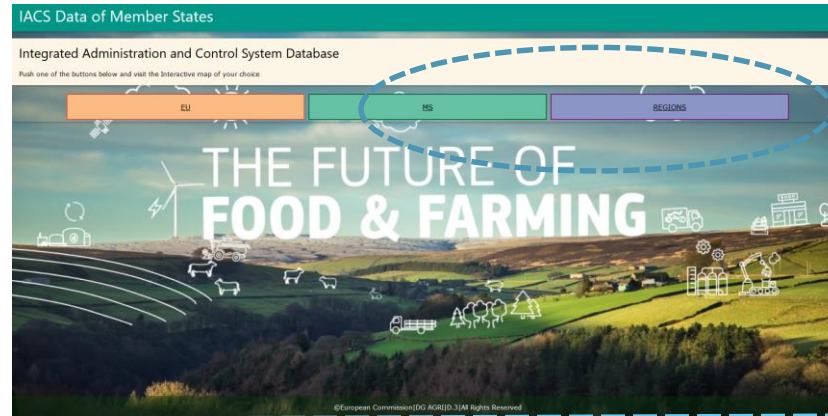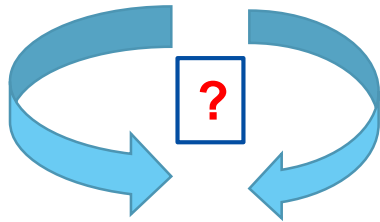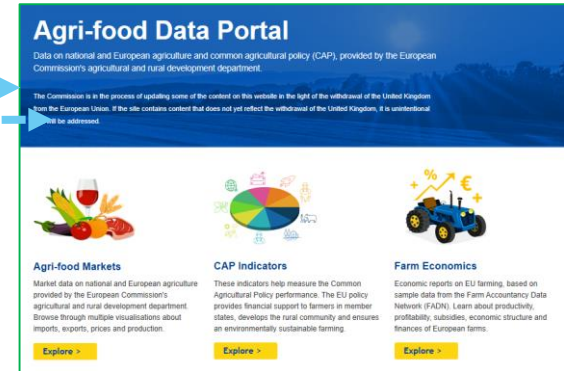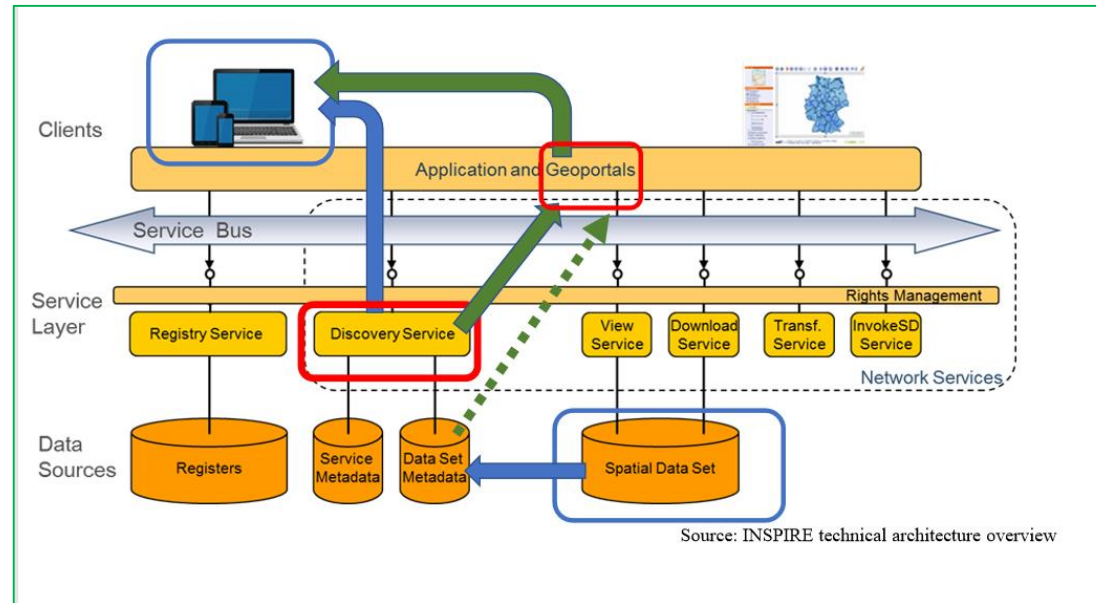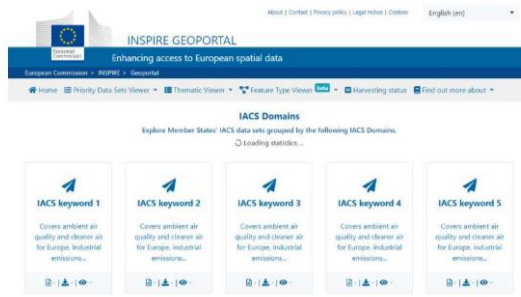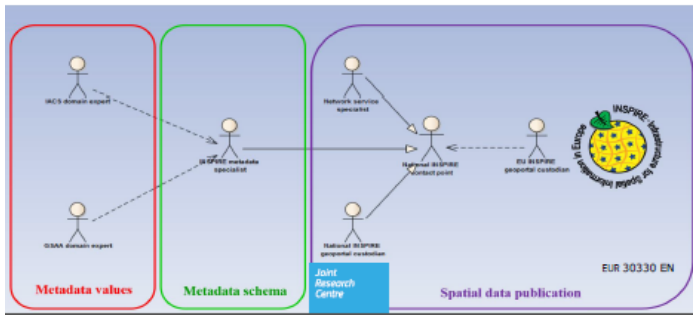
Improved discovery of IACS spatial data and discussion paper for interoperability and harmonization

JRC TECHNICAL REPORT

Technical Guidelines on IACS Spatial Data Sharing
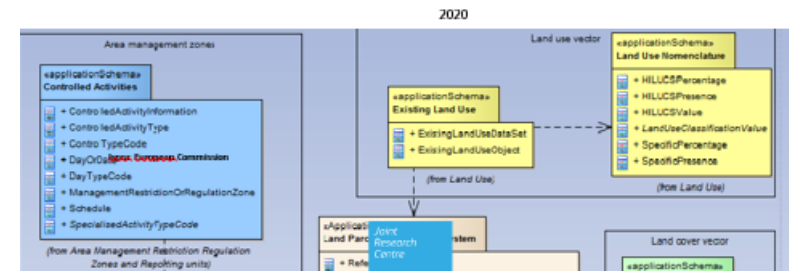Part 1 – Data discovery

Tóth, Katalin.
Milenov, Pavel

EUR 30330 EN

JRC TECHNICAL REPORT

IACS Spatial Data Sharing. Part 2: Interoperability and Data harmonization. Discussion paper

JRC120451

Tóth, K.

2020

with support of JRC D5

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Support Paying Agencies modern ways to share data

- INSPIRE provides a stack of 'enabling' guidelines that facilitate data sharing

- Guidelines are non-legally binding and can be used for various use cases

  - Data encodings

    - GML, GeoJSON, GeoPackage (ongoing investigation)

  - Sharing of static geospatial data

    - ATOM

    - Web Feature Service

    - Web Coverage Service

    - OGC API – Features

  - Sharing of dynamic spatio-temporal data

    - Sensor Things API

    - Sensor Observation Service

with support of JRC B6

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Illustration of data uses (soil health)

IACS: LPIS & GSAA

- Spatial location of agricultural features
- Practices

- Sewing/harvest date
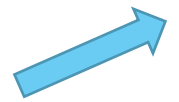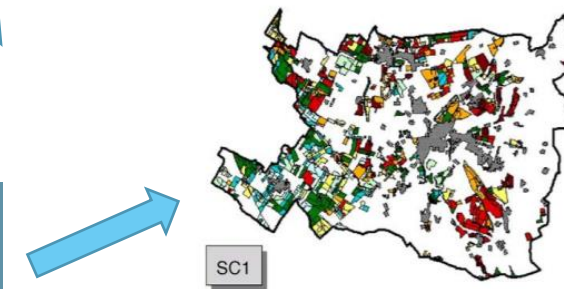- Cover (residue management, tillage)

ESDAC

- Soil properties

MODELS

- Metadata
- Discoverability
- Accessibility
- Interoperability
- EU Common Data Space

with support of JRC D3

Collaboration with MS

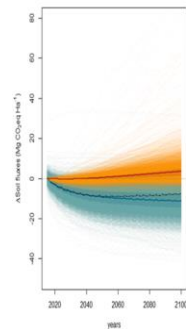- → call to express interest for collaboration !

Participation in the interoperability tasks

- Good response in the survey and willingness to collaborate in pilot projects
- Pilot projects – reusing IACS spatial information in 4 use cases
  - LULUCF
  - Crop classification
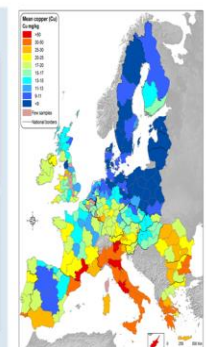 - Agricultural statistics
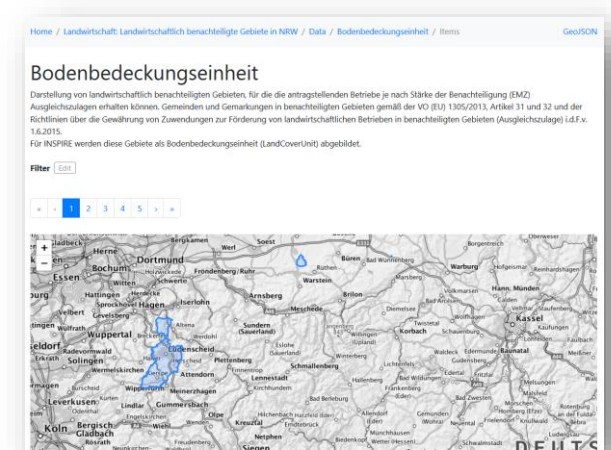 - Environmental indicators

SOIL health

Soil C/N fluxes   Soil erosion / degradation   Pesticide / pollution   Soil biodiversity

OGC API – Features in INSPIRE

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Concluding remarks

DG AGRI PROCESS for IACS data sharing under INSPIRE

- EC support to MS in different aspects – contribution to EU twin policy objectives (green deal; digital)

- Evolution of INSPIRE, PSI… & Opendata: opportunity (HVD)

- Guidelines for Member States (discovery → interoperability)

- Data sharing use cases on soil health (link with CAP and environmental ambitions)

- Technical : IACS 65, OpenIACS (CEF), NIVA…. Synergies?

- Collaboration with Member States essential (concrete implementation, use case/pilot)

- More exchange IACS ← → INSPIRE 'communities'

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Thank you

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