

18 June 2020

11th INSPIRE MIG meeting

Status report

MIG subgroup 2016.5

Priority list of datasets for e-Reporting

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The 4 task areas

1. Manage and update the priority list of eReporting datasets

UPDATED priority dataset version 2.1

<https://ies-svn.jrc.ec.europa.eu/projects/2016-5/wiki/>

2. Make data available as is

MS to publish from 15.5.2018 onwards in the INSPIRE Geoportal

3. Common and interoperable European data models

Stepwise by per reporting obligation/data ... based on demand and reporting deadlines

4. Monitoring the availability of pan-European datasets

Through the EU Geoportal https://inspire-geoportal.ec.europa.eu/pdv_home.html



Task 1: Updates of the PDS list

Pan European Datasets

89	Entries in the list of PDS (unique datasets)	
3	Reference datasets 7.02 Population - densely populated built-up areas 23.01 Biogeographical regions (pan-European dataset) 46.01 Biogeographical regions (national datasets)	
86	Data for reporting obligation	
61	Datasets - mandatory	
15	Datasets - optional in reporting obligation	
1	Dataset or reference 17.01 FD units of management or reference to WFD river basin districts	
5	Attribute (reported as attribute in another dataset when applicable)	
1	Document 37.01 Areas exempted from permission of dumping waste	
3	Reference (to national published data) 16.01 FD flood risk zones low probability scenario 16.02 FD flood risk zones medium probability scenario 16.03 FD flood risk zones high probability scenario	

- Categorisation of datasets
(reference data, reported data)
- Responsibility
- Expected reporting form
- References to datasets in other legislation
- Reference to Reporting obligation (as in Reportnet ROD)
- Mapping to INSPIRE themes

- Keyword proposals from the code list

Feedback from group members coming in – entire MIG is invited

Task 2:

Where do they come from?

Status by Member State

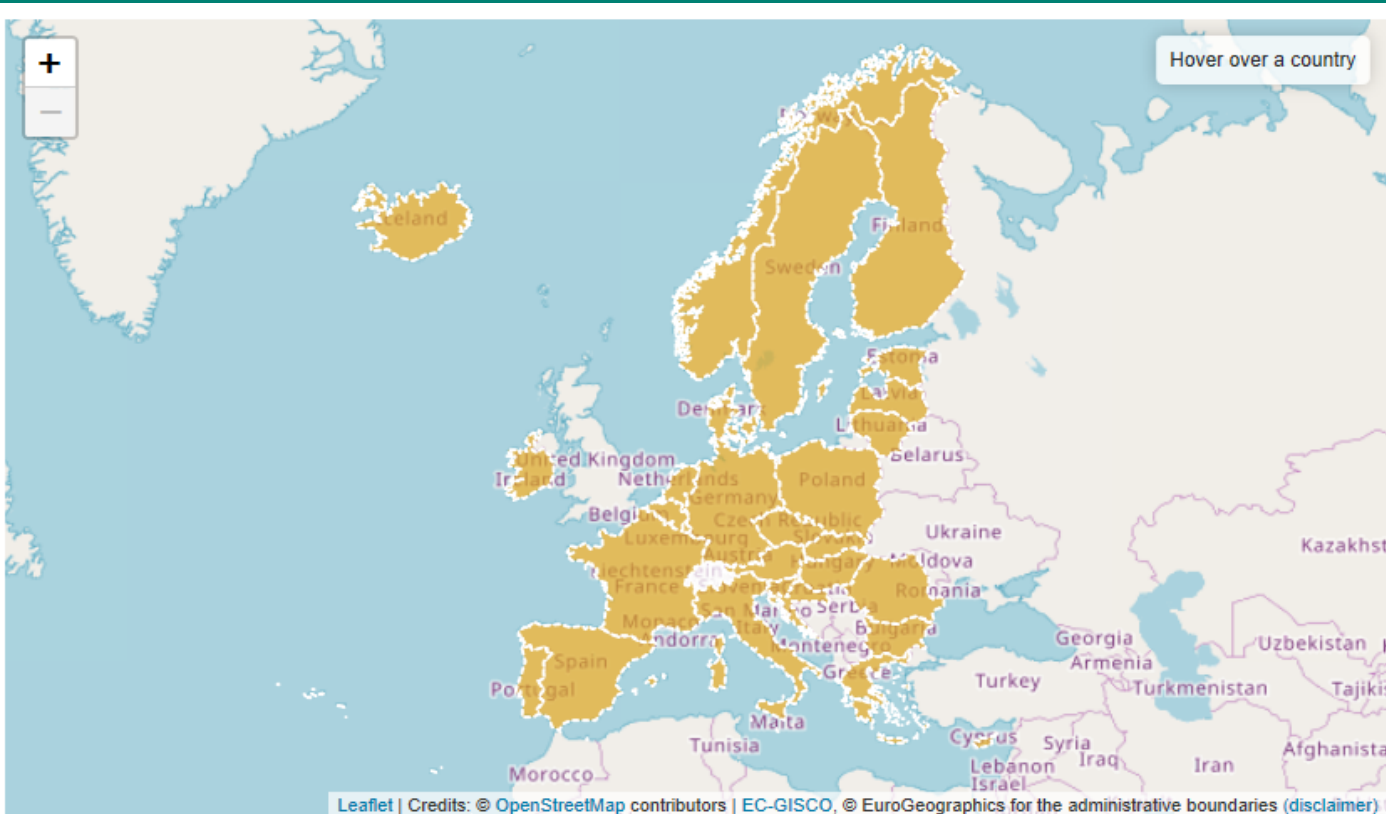
Which topic do they represent?

Status by theme (legislation)

Country	27/05/2019		Trends since 27/05/2019*	16/03/2020	
	Metadata	Download services	Download services	Metadata	Download services
Austria	76	66	↑	92	87
Belgium	104	33	↑↑	164	99
Bulgaria	0	0	↑↑	121	84
Croatia	6	0	—	15	1
Cyprus	5	5	**	5	0
Czech Republic	39	4	↑↑	41	25
Denmark	38	1	↑↑	50	47
Estonia	21	1	—	21	3
Finland	19	7	↑	18	16
France	105	0	↑**	99	7
Germany	65	40	**	103	24
Greece	0	0	↑↑	54	54
Hungary	12	0	—	20	2
Iceland	2	2	—	2	2
Ireland	9	0	—	39	0
Italy	12	0	—	43	3
Latvia	0	0	↑	34	11
Liechtenstein	0	0	—	0	0
Lithuania	0	0	↑↑	75	66
Luxembourg	67	58	↑	77	77
Malta	54	50	—	54	54
Netherlands	41	12	↑	68	39
Norway	9	1	—	14	1
Poland	0	0	↑	46	6
Portugal	223	21	—	135	26
Romania	21	9	—	27	9
Slovakia	12	2	↑↑	52	20
Slovenia	4	1	↑	9	6
Spain	81	79	**	85	0
Sweden	24	0	↑↑	75	55
Switzerland	0	0	—	0	0
Total	1049	392		1638	824

Legislation	#Metadata 27.5.2019	#Metadata 16.3.2020	#Download services 27.5.2019	#Download services 16.3.2020	Key directive popular name
directive 1999/31/ec	5	12	1	4	
directive 2000/60/ec	359	433	128	192	Water Framework Directive
directive 2002/49/ec	250	314	89	214	Noise Directive
directive 2006/21/ec	2	1	7	4	
directive 2006/7/ec	20	12	21	12	
directive 2007/60/ec	208	265	71	75	Floods Directive
directive 2008/50/ec	76	96	19	31	Ambient Air Quality Directive
directive 2008/56/ec	24	59	13	37	
directive 2009/147/ec	58	77	38	47	Birds Directive
directive 2010/75/eu	15	31	2	12	
directive 2012/18/eu	12	17	4	9	
directive 86/278/eec	5	10	0	2	
directive 91/271/eec	67	91	18	50	Urban Waste Water Treatment Directive
directive 91/676/eec	29	38	13	20	
directive 92/43/eec	102	125	60	77	Habitats Directive
directive 98/83/ec	11	16	3	9	
EEA annual work programme	61	46	25	30	Largely Nationally Designated Areas CDDA
national legislation	15	17	7	10	
recommendation 2014/70/EU	4	5	1	1	
regulation (EC) 166/2006	21	52	6	28	
regulation (EU) 1143/2014	7	20	1	15	
regulation (EU) 2017/852	2	3	0	1	

Task 2/4:



INSPIRE Geoportal Data Set Statistics

1586

Metadata records

845

Downloadable Data Sets

837

Viewable Data Sets

Spatial scope coverage:

- National
- Regional

Change in download services since 16.3.20

BG 84 > 3

FR 9 > 0

ES 0 > 85

SE 55 > 19

Select a COUNTRY

Austria	92 87 87	Finland	18 16 15	Latvia	57 16 24	Portugal	136 56 71
Belgium	163 83 90	France	128 0 7	Liechtenstein	0 0 0	Romania	27 10 10
Bulgaria	3 3 3	Germany	133 51 67	Lithuania	79 65 4	Slovakia	57 18 17
Croatia	16 2 4	Greece	54 54 54	Luxembourg	77 77 61	Slovenia	9 6 0
Cyprus	5 0 0	Hungary	20 2 2	Malta	54 54 54	Spain	85 84 85
Czech Republic	32 28 23	Iceland	2 2 0	Netherlands	61 43 38	Sweden	61 19 57
Denmark	50 47 41	Ireland	42 0 0	Norway	14 1 1	Switzerland	0 0 0
Estonia	22 2 6	Italy	43 3 11	Poland	46 6 5		

* status 17.06.2020



Task 2 - Summary

Key observations:

2 (3) EU Member States – Cyprus and Ireland (France)
still without any download services (down from 6 MS in June 2019)

Further 8 EU Member States (Bulgaria, Estonia, Hungary, Italy, Poland, Romania, Slovenia)
provide 10 or less downloadable datasets

Still an overall lack of download services

(Missing references between services and data sets should by now have been fixed)

Different approaches regarding spatial data extent (local, regional, national)

„As-is“ data provided in diverse formats and service type (e.g. URL, ATOM feed, WFS)

Task 3: Common and interoperable European data models

Harmonised data models – information on INSPIRE 2016.5 wiki

- CDDA – Nationally Designated Areas
- Referencing INSPIRE in environmental reporting
- EU Registry on Industrial Sites
- Species distribution (reporting under the Invasive Alien Species Regulation)
- Natural Risk Zone (reporting under the Floods Directive) (on-going)

Latest calls for reporting obligations – reporting data flows



Eionet Portal

<https://www.eionet.europa.eu/>

Other harmonised reporting data flows including spatial information according to INSPIRE



EUROPEAN AIR QUALITY PORTAL

<https://aqportal.discomap.eea.europa.eu>

Water Framework Directive reporting
data flows

<http://cdr.eionet.europa.eu/help/WFD>

Environmental Noise directive
(under development)

Task 3: Scope of the END reporting data model

Noise sources

INSIDE URBAN AREA

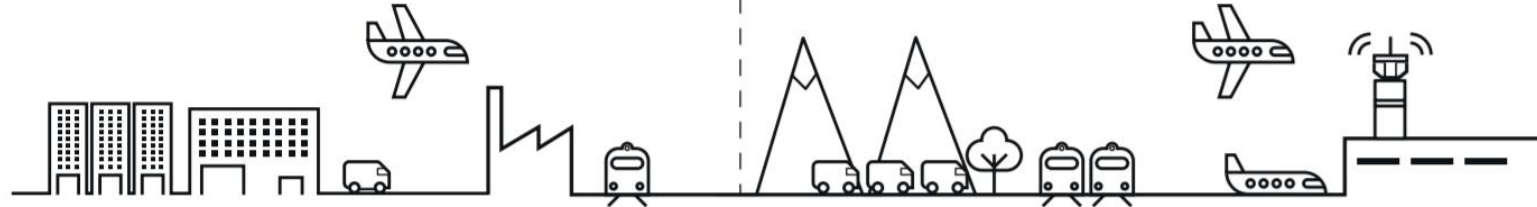
Roads, railways, airports and **industries** inside urbanised areas — called agglomerations — with a population exceeding 100 000 inhabitants and a population density such that the Member State considers it to be an urbanised area.

OUTSIDE URBAN AREA

Major roads > 3 000 000 passages/year

Major railways > 30 000 passages/year

Major airports > 50 000 movements/year



Notes: Coverage since 31 December 2008.

Source: EEA, based on EU (2002).

Strategic noise mapping (noise contours and exposure data)
Noise action plans

Noise pollution management in the MS / countries:

Request for detailed high-scale data:

Terrain, transport (networks, transport flow), buildings, land cover / land use, population, industrial sites, ...

Noise modelling

Action plans

Implementing measures

Information dissemination to public

Scope of END data model harmonisation

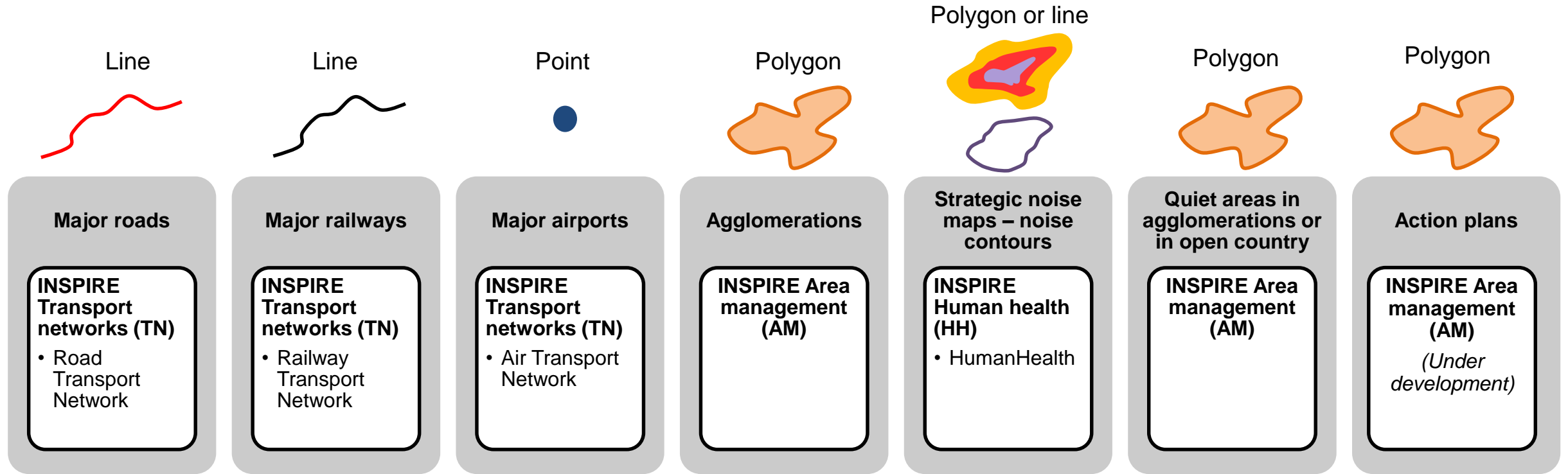
Reported data according to the common harmonised END data model

- Competent authorities
- Noise limit values
- Major roads, major railways, major airports, agglomerations
- Strategic noise maps
- Noise control programmes
- Noise action plans, quiet areas

Task 3: END – INSPIRE alignment

- **Based on legal basis:**
 - Environmental Noise Directive 2002/49/EC
 - INSPIRE Directive 2007/2/EC
 - Regulation on the alignment of reporting obligations (legislation related to environment) (EU) 2019/1010
- **Data model:**
 - Includes **new END content requirements**
 - **Harmonises strategic noise maps**
 - Includes **structured information for summary of action plans and quiet areas**
 - Includes **spatial information based on INSPIRE data models**
 - **Stronger use of object identifiers** (INSPIRE external spatial object identifiers, thematic identifiers)
- In preparation - **Reporting Implementing Rules**
- Reporting data flow to **Reportnet 3.0 in 2022 (strategic noise maps)**

Task 3: END data model – spatial information



Datasets representing major roads, major railways and major airports in the END scope (selection and subset (modified) of geospatial transport networks data)

Strategic noise maps – exposure data:
possibility to report at different spatial units: LAU, agglomeration, airport, NUTS 2, NUTS 3 or country

References to other geospatial data

Reference to:

- Country
- Units of NUTS / LAU

Applicable to:

- Strategic noise maps – exposure data
- Noise control programmes



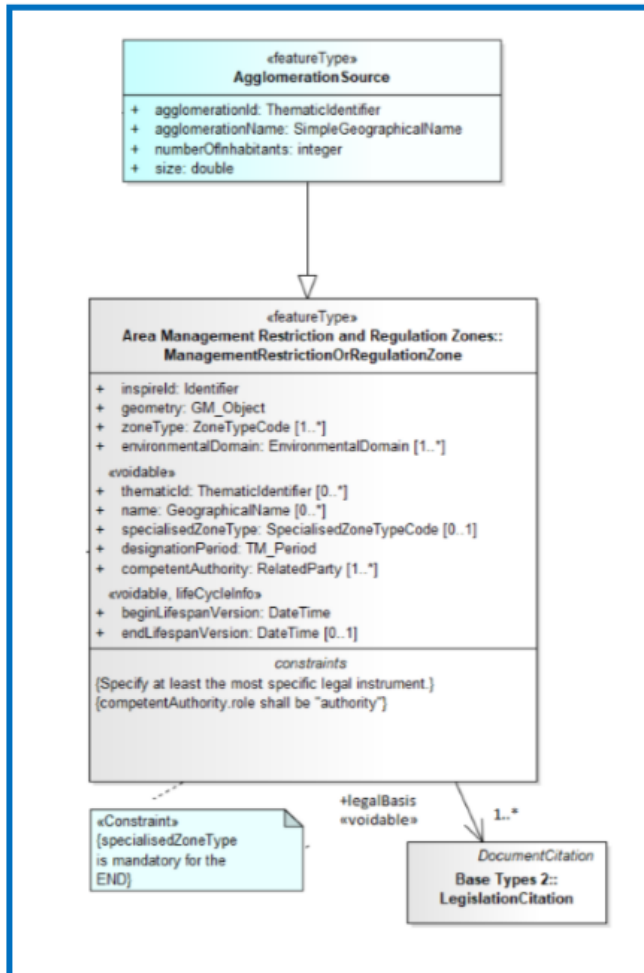
 INSPIRE spatial data theme

 Selected for END reporting purpose

Task 3: END data modelling approach

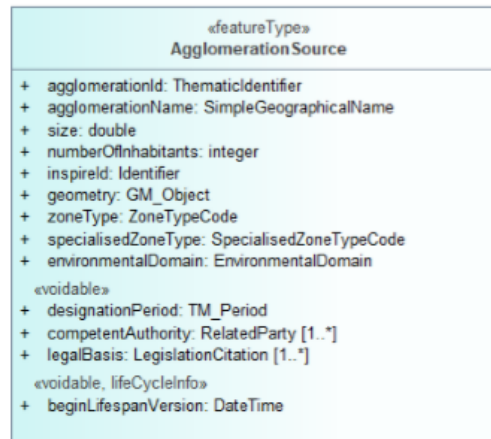
Extended INSPIRE data models
(extension guidelines, alternative
simplified data types)

Data model – Full View



Reporting content

Data model - Streamlined View



Focus on

- ❑ END *domain-specific* requirements
- ❑ pieces of information from INSPIRE models *relevant to END*
- ❑ mandatory elements from INSPIRE models *irrelevant to END* (however useful for users outside of noise domain to easily discover/ reuse/ structure noise spatial information + needed for compliance)

Documentation of default values
(voidable, code list values, identifier
scheme (thematic identifier))

default/ recommended values for INSPIRE attributes

INSPIRE attributes values for the END and relevant encoding :

```
<zoneType
xmlns:href="http://inspire.ec.europa.eu/codeList/ZoneTypeCode/noiseRestrictionZone">
</zoneType>
```

```
<environmentalDomain
xmlns:href="http://inspire.ec.europa.eu/codeList/EnvironmentalDomain/noise">
</environmentalDomain>
```

beginLifespanVersion

Date and time at which this version of the spatial object was inserted or changed in the spatial data set.

For the END purposes set to the reporting date .

Encoding example:

```
<beginLifespanVersion>2018-10-15T00:00:00Z</beginLifespanVersion> OR provide
nilReason (see below)
```

The following elements are not relevant to END (but mandatory voidable in INSPIRE), a nilReason will be provided:

```
<designationPeriod nilReason="unpopulated" xsi:nil="true"></designationPeriod>
```

```
<competentAuthority nilReason="unpopulated" xsi:nil="true"></competentAuthority>
```

```
<legalBasis nilReason="unpopulated" xsi:nil="true"></legalBasis >
```

agglomerationId.identifier --> shall be filled in with the unique code for the agglomeration defined in the guidelines

agglomerationId.identifierScheme --> shall be 'EUENDCode'

when possible the inspireId.localId can be the same as agglomerationId.identifier, but if the MS have already in place different rules for INSPIRE identifiers they are free to use their own encoding.