



## Minimum list of spatial datasets linked to reporting obligations in EU environment legislation

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**Creator** DG ENV

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**Addressee** MIG-T (and ultimately MIG-P) as well as Experts Groups on reporting

**Identifier** xxx

**Description** Based on the discussion in the permanent policy sub-group of the MIG (MIGP-P) in December 2015 in relation to priority setting in the INSPIRE implementation, it was agreed that one of the priorities will be to support eReporting under EU environment legislation. As a first step, the Commission agreed to come forward with an initial draft list of spatial data sets which are explicitly required to be reported under the some 50 pieces of environment legislation currently being screened in the context of the Fitness Check for Environmental Monitoring and Reporting<sup>1</sup>.

The enclosed should be developed further over the coming weeks so that a first minimum list can ultimately be discussed and agreed at the next meeting of MIG-P in June 2016.

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**Requested actions:** The members of the MIG-T are invited to:

- Take note of the list and ask questions for clarifications.
- Comment, as appropriate.
- Discuss the list with their national experts responsible for reporting of these datasets with the view to making these datasets available in the national geoportals as soon as possible.

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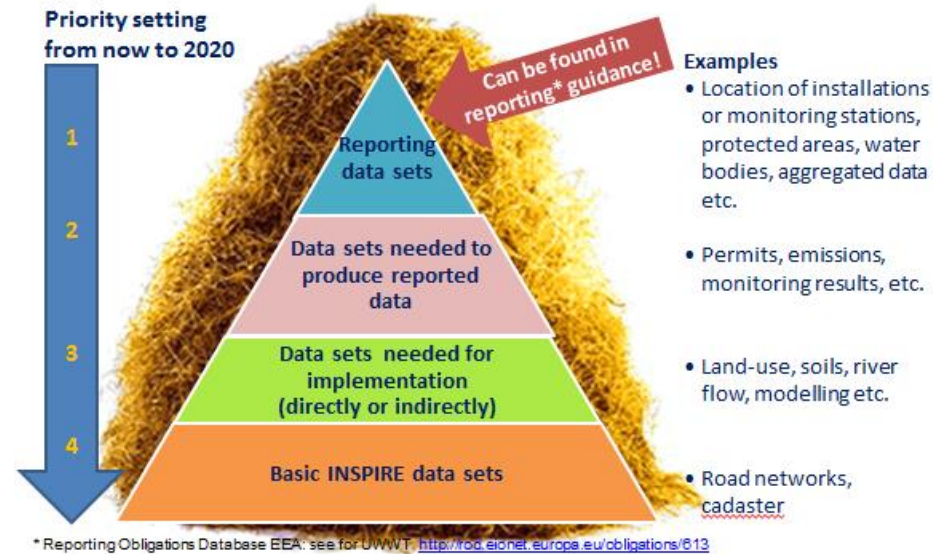
<sup>1</sup> [http://ec.europa.eu/environment/legal/reporting/index\\_en.htm](http://ec.europa.eu/environment/legal/reporting/index_en.htm)

# Minimum list of spatial datasets linked to reporting obligations in EU environment legislation

(draft, 23/03/2016)

## Introduction and approach

During the orientation debate at the MIG-P meeting in December 2016, there was support for the proposal to set clearer priorities at EU level (complementing the national priorities) in the further implementation process for INSPIRE. One of the main priorities was the support of implementation of EU environment policy through focussing on reporting spatial data. Looking at all spatial datasets covered by the INSPIRE Directive, the following priority setting pyramid was discussed and found large support.



It was agreed that the Coordination Team (CT) would come forward with a detailed list of spatial data sets which fall under the priority 1 which are those spatial data sets that are explicitly required by reporting obligations under the EU environment legislation. As a first attempt to compile such a list, the 56 pieces of legislation covered by the Fitness Check for Environmental Monitoring and Reporting<sup>2</sup> were taken as a starting point. When preparing an inventory, some 170 reporting obligations were identified in total. As part of this inventory, the main spatial data sets included in the reporting obligations (e.g. templates, guidelines or decisions) were identified and validated with the policy units responsible for these reporting obligations.

### **Current list**

The current list is a first draft of a minimum list of spatial datasets in the sense of Article 3.3 of Directive 2007/2/EC. It is a minimum list because there may be other specific spatial data sets which, at this stage, have not been considered (e.g. because reporting obligations are under review as in the case for the Marine Strategy Framework Directive for 2018). Moreover, there are other pieces of legislation with relevance for the environment but falling under the competence of other DGs in the Commission (e.g. CLIMA, MARE, etc.). A screening of a wider set of legislation will take place at a later stage and will further lead to an expansion of the list.

In this first screening, a total of 45 reporting obligations have been identified that involve spatial information (spatial data sets) linked to the above-mentioned pieces of legislation. Based on these reporting obligations, 81 sets of spatial information have been identified with a legal obligation to report to the Commission. When comparing the requested spatial information, the 81 requests can be further reduced to a total of 46 unique spatial data sets.

Mostly, such data sets can be related easily to data themes in the INSPIRE Directives but there are some data sets which fall potentially under more than one data theme. Moreover, there are some reporting data sets where the link to INSPIRE would need to be discussed in more principle terms, e.g. the identification of competent authorities which could be linked to addresses or statistical reporting information that could be linked to geographic subdivisions of countries. How to deal with such systematic, re-occurring questions will need further discussion.

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<sup>2</sup> <http://ec.europa.eu/environment/legal/reporting/pdf/Environmental%20Legislation%20currently%20covered%20by%20the%20Fitness%20Check.pdf>

In conclusion, the current minimum list is the first version of a “living document” which should be reviewed, amended and developed further on a regular basis. The list can therefore become an operational and dynamic tool to discuss the inter-linkages and creation of synergies between the implementation of the INSPIRE Directive and the conduct of the reporting process under environment legislation.

### **Next steps**

The current list should be discussed and agreed as a first working list at the MIG-P meeting in June. The list and this process should also be discussed in the reporting expert groups established under EU environment legislation (this is organised through the Focus Group). Feedback from these groups shall be considered in the further development and the regular reviews of the list.

After the agreement on this first list in June, the following actions should be pursued:

1. Member States should make these data sets available through their national systems (at least “as is”) and link them to the EU Geoportal. These datasets should be brought into line with the INSPIRE obligations as soon as possible.
2. To support the alignment to the INSPIRE obligations, the CT (mainly EEA and JRC) will develop this list further by deepening the understanding by assessing the link to the INSPIRE obligations in more detail. A discussion on the “maturity level” of the implementation of the obligations may need to be discussed in this context. Some concrete suggestions for simplifying this process (eg. by supporting the use of data and services) will be discussed. The results of this work will be presented and discussed at the MIG-T in autumn.
3. Member States are also invited to discuss at national level the link of these data sets with the level 2 and 3 in the above-mentioned priority setting. This should result in a presentation of related datasets (e.g. the environmental monitoring data collected at monitoring stations – an Environmental Monitoring Facility) in the national systems. Such related datasets should also be linked to the EU Geoportal. An exchange of experiences and approaches will be organised in the context of the MIG work.
4. The MIG-T and the MIG-P will regularly review the list. A first review and exchange of experiences will already take place in the second half of 2016. A subsequent review should then be envisaged once per year. An up-to-data list will be made available through the INSPIRE webpage.

**Table: Minimum list spatial datasets linked to reporting obligations in EU environment legislation (status: March 2016)**

Legislation	Short description	Theme	Detailed reporting requirement	# Spatial data sets	Sub-elements/spatial data sets (with unique number)
<a href="#">Directive 2008/50/EC of the European Parliament and of the Council on ambient air quality and cleaner air for Europe (including Implementing Decision 2011/850/EU)</a>	Information on Ambient Air Quality	Air	2011/850/EC, Art 6-14 gives full detail: information on zones & agglomerations, assessment regimes & methods, primary validated data and aggregated, attainment of objectives, source apportionments, air quality plans and measures, attainment year	4	1) AQ management zones & agglomeration 2) AQ monitoring networks 3) AQ monitoring stations 4) All AQ data (i.e. both measurement & modelling) associated with AQ monitoring stations
<a href="#">Directive 2004/107/EC of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air (Including Implementing Decision 2011/850/EU)</a>	Information on Ambient Air Quality (i.e. on As, Cd, Hg, Ni, B(a)P)	Air	2011/850/EC, Art 6-14 gives full detail: information on zones & agglomerations, assessment regimes & methods, primary validated data and aggregated, attainment of objectives, source apportionments, air quality plans and measures, attainment year	4	1) AQ management zones & agglomeration 2) AQ monitoring networks 3) AQ monitoring stations 4) All AQ data (i.e. both measurement & modelling) associated with AQ monitoring stations
<a href="#">Directive 2002/49/EC relating to the assessment and management of environmental noise.</a>	List of major roads, railways, airports and agglomerations (DF1_5)	Noise	location of agglomerations, major airports and major roads/railways	3	5) Roads, railways and air transport network 6) Agglomerations 7) Population
<a href="#">Directive 2002/49/EC relating to the assessment and management of environmental noise.</a>	Noise reduction measures already in place (DF6_9)	Noise	location of agglomerations, major airports and major roads/railways concerned by noise reduction measures in place	3	5) Roads, railways and air transport network 6) Agglomerations 7) Population
<a href="#">Directive 2002/49/EC relating to the assessment and management of environmental noise.</a>	Strategic noise maps (DF 4_8)	Noise	Areas of noise exposure in agglomerations, major airports, major roads and major railways	1	8) Area management/restriction/regulation zones and reporting units (strategic noise maps, noise restriction zones)

<a href="#">Directive 2000/60/EC establishing a framework for Community action in the field of water policy (including Directive 2008/105/EC as amended by 2013/39/EU - surface water EQS and Directive 2006/118/EC - groundwater)</a>	River Basin Districts and Competent Authorities	Water	Boundaries of river basin districts/catchments. Competent Authorities	1	9) Area which sets out the boundaries of RBD 9) Competent Authority for the RBD
<a href="#">Directive 2000/60/EC establishing a framework for Community action in the field of water policy (including Directive 2008/105/EC as amended by 2013/39/EU - surface water EQS and Directive 2006/118/EC - groundwater)</a>	Characterisation of River Basin Districts	Water	location of water bodies and protected areas including information on pressures and risks	3	10) location of water bodies 11) location of protected areas (Art 6 and 7) 12) data associated to water bodies such as risks
<a href="#">Directive 2000/60/EC establishing a framework for Community action in the field of water policy (including Directive 2008/105/EC as amended by 2013/39/EU - surface water EQS and Directive 2006/118/EC - groundwater)</a>	Monitoring Programmes	Water	location of monitoring stations	1	13) monitoring stations associated to water bodies
<a href="#">Directive 2000/60/EC establishing a framework for Community action in the field of water policy (including Directive 2008/105/EC as amended by 2013/39/EU - surface water EQS and Directive 2006/118/EC - groundwater)</a>	River Basin Management Plans	Water	Reporting of geospatial datasets covering River Basin Districts, water bodies (surface and groundwater), protected areas and monitoring stations.	11	10) data related to water bodies for many quality elements [ENV C1 comment: actually this is reported in the XML data which is linked to the GML - but not only that , there are many other attributes at water body level that are reported]
<a href="#">Directive 2007/60/EC of the European Parliament and of the Council on the assessment and management of flood risks.</a>	Preliminary Flood Risk Assessment and Areas of Potential Significant Flood Risk	Water	Areas of flood risk	1	14) preliminary flood map
<a href="#">Directive 2007/60/EC of the European Parliament and of the Council on the assessment and management of flood risks.</a>	Flood Hazard Maps and Flood Risk Maps	Water	Flood maps	2	15) Flood Hazard Map 16) Flood Risk Maps

<a href="#">Directive 2007/60/EC of the European Parliament and of the Council on the assessment and management of flood risks.</a>	Units of Management and Competent Authorities	Water	Boundaries of management units. Competent Authority	1	17) Management Units 17) Competent Authority
<a href="#">Directive 2008/56/EC of the European Parliament and of the Council establishing a framework for community action in the field of marine environmental policy.</a>	Information on the subdivision of marine regions and subregions	Water	subdivisions of marine regions or subregions	1	18) marine regions and sub-regions incl. Assessment units
<a href="#">Directive 2008/56/EC of the European Parliament and of the Council establishing a framework for community action in the field of marine environmental policy.</a>	Monitoring programmes	Water	location of monitoring stations	1	19) monitoring stations
<a href="#">Council Directive 98/83/EC on the quality of water intended for human consumption.</a>	Report on Quality of Water for Human Consumption	Water	water supply zones and related monitoring information, attainment of limit values	2	20) DWD water supply zones 21) DWD small water supplies
<a href="#">Directive 2006/7/EC concerning the management of bathing water quality</a>	Monitoring and Classification of Bathing Waters	Water	attainment of limit values	1	22) data (measurement, monitoring) associated with DWD zones
<a href="#">Directive 2006/7/EC concerning the management of bathing water quality</a>	Identification of Bathing Areas	Water	bathing water areas (beaches falling under the Directive)	1	23) BWD bathing areas
<a href="#">Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora</a>	Implementation Report	Nature	biogeographic units, habitat types, presence or absence and range ( distribution map & range map (for the next round the range map will not be required anymore)	2	24) biogeographic regions (biogeographic regions are used as unit but they are not reported) 25) gridded habitat maps using INSPIRE geographical grid system
<a href="#">Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (Including Commission Decision of 18 December 1996 concerning a site information format for proposed Natura 2000 sites)</a>	Information on Natura2000 sites	Nature	maps of areas of N2000 sites	1	26) location of sites

<a href="#">Directive 2009/147/EC (Codified version) replacing Directive 79/409/EEC on the conservation of wild birds</a>	Implementation Report	Nature	similar to Habitats Directive (distribution map & range map (for the next round the range map will not be required anymore)	2	24) biogeographic regions (biogeographic regions are used as unit but they are not reported) 25) gridded habitat maps using INSPIRE geographical grid system
<a href="#">Directive 2009/147/EC (Codified version) replacing Directive 79/409/EEC on the conservation of wild birds</a>	Information on Natura2000 sites	Nature	maps of areas of N2000 sites	1	26) location of sites
<a href="#">EU Regulation (EU) No. 1143/2014 on Invasive Alien Species</a>	Reporting on the distribution of invasive alien species of Union and regional concern	Nature	distribution of species	1	27) maps of distribution of species using INSPIRE grids
<a href="#">EU Regulation (EU) No. 1143/2014 on Invasive Alien Species</a>	Reporting on various issues, including on the surveillance system, actions plans, eradication and management measures etc.	Nature	surveillance facilities	1	28) location of surveillance stations, facilities
<a href="#">Regulation (EC) No 166/2006 of the European Parliament and of the Council concerning the establishment of a European Pollutant Release and Transfer Register.</a>	Report covering data reported by industrial facilities covering 65 economic activities within 9 industrial sectors	Industrial emissions	list of facilities and related emissions data	2	29) locations of facilities 30) information related to actual pollutant releases
<a href="#">Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast)</a>	Reporting obligations on IED-installations (including data on competent authorities, permit information (e.g. derogations), and baseline reports)	Industrial emissions	list of installations, general information, contact information, competent authorities, and permit information	2	31) location of industrial and agricultural installations falling under IED



<a href="#">Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast)</a>	Baseline report submitted to the MS by the operator	Industrial emissions	list of installations for which a baseline report has been prepared under article 22	2	31) location of industrial and agricultural installations falling under IED
<a href="#">Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) (Recast)</a>	Transitional plans covering selected pollutants from the (large) combustion plants	Air	location of combustion plants	1	32) location of combustion plants
<a href="#">Council Directive 91/271/EEC concerning urban waste-water treatment.</a>	Information on monitoring results	Water	location of wastewater treatment plants, agglomerations, discharge points and sensitive areas	5	6) location of agglomerations 33) location of UWWT plant 34) location of discharge point linked to WFD water body 35) GIS of sensitive areas, less sensitive areas and catchment
<a href="#">Council Directive 91/271/EEC concerning urban waste-water treatment.</a>	National implementation programmes	Water	investment plans per plant in accordance with new Art 17 template	2	due to the Link to the Article 15 reporting 33) location of UWWT plant
<a href="#">Council Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural source.</a>	Monitoring and Implementation report	Water	monitoring data written text	2	34) NiD monitoring stations and related data
<a href="#">Council Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural source.</a>	Vulnerable zones notification	Water	datasets of vulnerable zones (if applicable: some MS have the whole territory, therefore no reporting is required)	1	35) NiD management zone

<a href="#">Regulation (EC) No 1221/2009 of the European Parliament and of the Council of 25 November 2009 on the voluntary participation by organisations in a Community eco-management and audit scheme (EMAS), repealing Regulation (EC) No 761/2001 and Commission Deci</a>	Communication of changes to the EMAS register	Governance	EMAS register - list/location of EMAS facilities/sites (per site registered)	1	36) Site locations
<a href="#">Council Directive 1999/31/EC on the landfill of waste</a>	MS to notify Commission of exempted islands and isolated settlements	Waste	List of islands and isolated settlements that are exempted.	1	37) Location of islands and isolated settlements that are exempted.
<a href="#">Directive 2006/21/EC on the management of waste from extractive industries and amending Directive 2004/35/EC</a>	MS implementation reports, including information on accidents or near-accidents	Waste	Competent Authorities to report to by operators. Location of facilities and identifying those with accidents (or near-accidents)	1	38) Location of facilities 38) Competent Authorities
<a href="#">Directive 2006/21/EC on the management of waste from extractive industries and amending Directive 2004/35/EC</a>	MS to transmit to Commission information on events notified by the operators of extractive waste facilities	Waste	Location of facilities	1	38) Location of facilities
<a href="#">Directive 2006/21/EC on the management of waste from extractive industries and amending Directive 2004/35/EC</a>	MS to notify Commission of exemptions under Article 24.4 (facilities that stopped accepting waste before 1 May 2006, were completing closure procedures, or would be effectively closed by 31 December 2010)	Waste	location of exempted facilities	1	39) Location of facilities

<a href="#">Directive 2012/18/EU Seveso III</a>	Notification and information on major accidents	Industrial accidents	Location of and information on major accidents	1	40) Location of major accidents
<a href="#">Directive 2012/18/EU Seveso III</a>	Information on establishments	Industrial accidents	Location of and information on establishments	1	41) Location of establishments
<a href="#">COMMISSION RECOMMENDATION of 22 January 2014 on minimum principles for the exploration and production of hydrocarbons (such as shale gas) using high-volume hydraulic fracturing (2014/70/EU)</a>	Information about the environmental status of the installation and its surrounding surface	Industrial emissions	baseline data and monitoring results	1	42) Location of boreholes
<a href="#">COMMISSION RECOMMENDATION of 22 January 2014 on minimum principles for the exploration and production of hydrocarbons (such as shale gas) using high-volume hydraulic fracturing (2014/70/EU)</a>	Report of incidents or accidents	Industrial emissions	Causes of incident/accident, its consequences and remedial steps taken	1	42) Location of boreholes
<a href="#">Council Directive 86/278/EEC on the protection of the soil, when sewage sludge is used in agriculture.</a>	Report on the use of sludge in agriculture: the quantities used, the criteria followed and any difficulties encountered	Soil	Report on the use of sludge Names and addresses of the recipients of the sludge. Place where the sludge is to be used.	2	43) Names and addresses of agricultural facilities 44) Location of the agricultural sites where sludge is deposited

<a href="#">Regulation (EC) No 1102/2008 of the European Parliament and of the Council of 22 October 2008 on the banning of exports of metallic mercury and certain mercury compounds and mixtures and the safe storage of metallic mercury</a>	<p>Economic operators targetted in Art. 2 to submit to Commision and MS info on quantity of mercury that is still used, stored and gained and on volume of mercury waste sent to waste storage facilities and contact details of such facilities</p>	<p>Waste</p>	<p>Location of the facility.</p> <p>Georeferenced statistics at facility level. Common identifier, e.g. NUTS codes, for linking to spatial objects (statistical units)</p>	<p>1</p>	<p>45) Location of facilities</p>
<a href="#">Regulation 1367/2006 on the application of the Aarhus Convention to Community institutions and bodies</a>	<p>Report on the state of the environemnt (Requirement only for EC, not for MS)</p>	<p>Governance</p>	<p>n.a. for COM report but EEA SOER has several spatial data elements. Further link needs to be addressed.</p>		<p>t.b.d.</p>
<a href="#">COMMISSION RECOMMENDATION of 22 January 2014 on minimum principles for the exploration and production of hydrocarbons (such as shale gas) using high-volume hydraulic fracturing (2014/70/EU)</a>	<p>Information about the chemical substances used in oil and/or gas wells that have been hydraulically fractured</p>	<p>Industrial emissions</p>	<p>location of installations and planned projects; permits and names of operators</p>	<p>2</p>	<p>42) Location of boreholes 46) Location of planned boreholes</p>
<a href="#">COMMISSION RECOMMENDATION of 22 January 2014 on minimum principles for the exploration and production of hydrocarbons (such as shale gas) using high-volume hydraulic fracturing (2014/70/EU)</a>	<p>Results of inspections, non-compliance and sanctions</p>	<p>Industrial emissions</p>	<p>Reporting requirements not further specified</p>	<p>1</p>	<p>42) Location of boreholes</p>