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ANNEX

ANNEX

to the

Commission Implementing Regulation

**laying down a list of specific high-value datasets and the arrangements for their
publication and re-use**

1. Geospatial

1.1. Datasets in scope

The geospatial thematic category includes datasets within the scope of the INSPIRE data themes Administrative units, Geographical names, Addresses, Buildings and Cadastral parcels as defined in Annex I to Directive 2007/2/EC of the European Parliament and of the Council¹ as well as Reference parcels and Agricultural parcels as defined in Regulation (EU) No 1306/2013 of the European Parliament and of the Council² and of Regulation (EU) No 1307/2013 of the European Parliament and of the Council³ and the related delegated and implementing acts⁴, setting out their granularity and geographical coverage and listing some or all of the key attributes listed in the table below.

Datasets	Administrative units	Geographical names	Addresses	Buildings	Cadastral parcels	Reference parcels	Agricultural parcels
<i>Granularity</i>	All generalisation levels available up to the level of scale 1:5000. From municipalities to countries; sea-frontiers.	N/A	N/A	All generalisation levels available up to the level of scale 1:5000.	All generalisation levels available up to the level of scale 1:5000.	Equivalent at least to 1:10 000 and, as from 2016, to 1:5000 as referred to in Article 70(1) of Regulation (EU) 1306/2013	Equivalent at least to 1:10 000 and, as from 2016, to 1:5000 as referred to in Article 70(1)

¹ Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE) (OJ L 108, 25.4.2007, p. 1).

² Regulation (EU) 2021/2116 of the European Parliament and of the Council of 2 December 2021 on the financing, management and monitoring of the common agricultural policy and repealing Regulation (EU) No 1306/2013 (OJ L 435, 6.12.2021, p. 187)

³ Regulation (EU) 2021/2115 of the European Parliament and of the Council of 2 December 2021 establishing rules on support for strategic plans to be drawn up by Member States under the common agricultural policy (CAP Strategic Plans) and financed by the European Agricultural Guarantee Fund (EAGF) and by the European Agricultural Fund for Rural Development (EAFRD) and repealing Regulations (EU) No 1305/2013 and (EU) No 1307/2013 (OJ L 435, 6.12.2021, p. 1)

⁴ Commission Delegated Regulation [(EU) .../... of 4 May 2022] supplementing Regulation (EU) 2021/2116 of the European Parliament and of the Council with regard to the integrated administration and control system in the common agricultural policy and the application and calculation of administrative penalties for conditionality and Commission Implementing Regulation [(EU) .../... of 17 May 2022] laying down rules for the application of Regulation (EU) 2021/2116 of the European Parliament and of the Council with regard to the integrated administration and control system in the common agricultural policy

							of the Regulation (EU) 1306/2013
Geographical coverage	Single or multiple datasets that shall cover the entire country when combined.						
Key attributes	Unique identifier; Unit type (administrative or maritime unit); Geometry; Boundary status; National identification code; Identification code of the upper administrative level; Official name; Country code; Name in multiple languages (only for countries with more than one official language) including a language with Latin characters, when feasible.	Unique identifier; Geometry; Name in multiple languages (only for countries with more than one official language) including a language with Latin characters, when feasible; Category.	Unique identifier; Geometry; Address locator (e.g. house number); Thoroughfare (street); name; Administrative units (e.g. municipality, province, country); Postal descriptor (e.g. post code); Date of last update.	Unique identifier; Geometry (footprint of the building); Number of floors; Type of use.	Unique identifier; Geometry (boundary of cadastral parcels); Type of parcel; Parcel code; References to the administrative area to which the parcel belongs.	Unique identifier; Geometry (boundary and area); Land cover ⁵ ; organic ⁶ ; Stable landscape elements ⁷ (“EFA-layer”); areas with natural/specific constraints; animal (total number); Animal (species type); Animal (production type)	Unique identifier; Geometry (boundary and area of each agricultural parcel); Land uses (crops or crop groups); Organic; Individual landscape element; Permanent grassland.

⁵ The agricultural area as referred to in Article 4(1) of Regulation (EU) No 1307/2013.

⁶ Informing whether the parcel is managed under organic practices.

⁷ Referred to as a reference “Ecological Focus Areas (EFA) layer” in the Land Parcel Identification System (LPIS) (Article 70 of Regulation (EU) 1306/2013).

1.2. Arrangements for the publication and re-use

a) The datasets shall be made available for re-use:

- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
- in a publicly documented, Union or internationally recognised open, machine-readable format;
- through application processing interfaces ('APIs') and bulk download;
- in their most up-to-date version.

b) The metadata describing the datasets within the scope of the INSPIRE data themes shall contain at least the metadata elements set out in Commission Regulation (EC) No 1205/2008.⁸

c) For the implementation of the Reference parcels and Agricultural parcels datasets, Member States shall take into consideration the ongoing implementation of Directive 2007/2/EC as well as the obligation foreseen by Article 67(3) of Regulation (EU) 2021/2116.

⁸ Commission Regulation (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata (OJ L 326, 4.12.2008, p. 12).

2. Earth observation and environment

2.1. Datasets in scope

The earth observation and environmental category includes earth observation, including space-based or remotely-sensed data, as well as ground-based or in situ data, environmental and climate datasets within the scope of the INSPIRE data themes listed in the first table below and defined in Annexes I-III to Directive 2007/2/EC, and datasets produced or generated in the context of the legal acts listed in the second table below. The most up-to-date datasets as well as historical datasets available at all generalisation levels up to the level of scale 1:5000 covering the entire country when combined are included.

Furthermore, the earth observation and environmental thematic category includes all “Environmental information”, as defined in Article 2 of Directive 2003/4/EC of the European Parliament and of the Council⁹, and the environmental information listed in Directive 2003/4/EC, Article 7 “Dissemination of environmental information”.

INSPIRE DATA THEMES (as defined in Annexes to Directive 2007/2/EC)
Hydrography (I)
Protected sites (I)
Elevation (II)
Geology (II)
Land cover (II)
Orthoimagery (II)
Area management / restriction / regulation zones & reporting units (III)
Bio-geographical regions (III)
Energy Resources (III)
Environmental monitoring Facilities (III)
Habitats and biotopes (III)
Land Use (III)
Mineral Resources (III)
Natural risk zones (III)

⁹ Directive 2003/4/EC of the European Parliament and of the Council of 28 January 2003 on public access to environmental information and repealing Council Directive 90/313/EEC (OJ L 41, 14.02.2003, p. 26).

Oceanographic geographical features (III)
Production and industrial facilities (III)
Sea regions (III)
Soil (III)
Species distribution (III)

ENVIRONMENTAL DOMAIN	Legal acts laying down the key variables
Air	Articles 6-14 of Directive 2008/50/EC of the European Parliament and of the Council ¹⁰ , Articles 7 of Directive 2004/107/EC of the European Parliament and of the Council ¹¹
Climate	Articles 18(1), 19, 26(2), 39(3) of Regulation (EU) 2018/1999 of the European Parliament and of the Council ¹² , Article 26 of Regulation (EC) 1005/2009 of the European Parliament and of the Council ¹³
Emissions	Article 24, 32, 55, 72 of Directive 2010/75/EU, Article 21 of Directive 2012/18/EU of the European Parliament and of the Council ¹⁴ , Article 10 of Council Directive 91/676/EEC ¹⁵ , Article 7 of Regulation (EC) No 166/2006 of the European Parliament and Council ¹⁶ ,

¹⁰ Directive 2008/50/EC of the European Parliament and of the Council of 21 May 2008 on ambient air quality and cleaner air for Europe (OJ L 152, 11.6.2008, p. 1).

¹¹ Directive 2004/107/EC of the European Parliament and of the Council of 15 December 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air (OJ L 23, 26.1.2005, p. 3).

¹² Regulation (EU) 2018/1999 of the European Parliament and of the Council of 11 December 2018 on the Governance of the Energy Union and Climate Action, amending Regulations (EC) No 663/2009 and (EC) No 715/2009 of the European Parliament and of the Council, Directives 94/22/EC, 98/70/EC, 2009/31/EC, 2009/73/EC, 2010/31/EU, 2012/27/EU and 2013/30/EU of the European Parliament and of the Council, Council Directives 2009/119/EC and (EU) 2015/652 and repealing Regulation (EU) No 525/2013 of the European Parliament and of the Council (OJ L 328, 21.12.2018, p. 1).

¹³ Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (OJ L 286, 31.10.2009, p. 1).

¹⁴ Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC (OJ L 197, 24.7.2012, p. 1).

¹⁵ Council Directive 91/676/EEC of 12 December 1991 concerning the protection of waters against pollution caused by nitrates from agricultural sources (OJ L 375, 31.12.1991, p. 1).

¹⁶ Regulation (EC) No 166/2006 of the European Parliament and of the Council of 18 January 2006 concerning the establishment of a European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC (OJ L 33, 4.2.2006, p. 1).

	Article 18 of Regulation (EU) 2017/852 of the European Parliament and of the Council ¹⁷ , Article 10 of Directive (EU) 2016/2284 of the European Parliament and of the Council ¹⁸
Nature preservation and biodiversity	Articles 4, 9, 12 of Directive 2009/147/EC of the European Parliament and of the Council ¹⁹ , Articles 4, 6, 16, 17 of Council Directive 92/43/EEC ²⁰ , Article 24 of Regulation (EU) 1143/2014 of the European Parliament and of the Council ²¹ , Data for the nationally designated protected areas inventory – (CDDA), National biogeographical regions
Noise	Articles 4, 5, 7, 10 of Directive 2002/49/EC of the European Parliament and of the Council ²²
Waste	Article 15 of Council Directive 1999/31/EC ²³ , Article 18 of Directive 2006/21/EC of the European Parliament and of the Council ²⁴ , Article 10 of Council Directive 86/278/EEC ²⁵ , Articles 15-17 of Council Directive 91/271/EEC ²⁶ ,

¹⁷ Regulation (EU) 2017/852 of the European Parliament and of the Council of 17 May 2017 on mercury, and repealing Regulation (EC) No 1102/2008 (OJ L 137, 24.5.2017, p. 1).

¹⁸ Directive (EU) 2016/2284 of the European Parliament and of the Council of 14 December 2016 on the reduction of national emissions of certain atmospheric pollutants, amending Directive 2003/35/EC and repealing Directive 2001/81/EC (OJ L 344, 17.12.2016, p.1).

¹⁹ Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (OJ L 20, 26.1.2010, p. 7).

²⁰ Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ L 206, 22.7.1992, p. 7).

²¹ Regulation (EU) No 1143/2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species (OJ L 317, 4.11.2014, p. 35).

²² Directive 2002/49/EC of the European Parliament and of the Council of 25 June 2002 relating to the assessment and management of environmental noise (OJ L 189, 18.7.2002, p. 12).

²³ Council Directive 1999/31/EC of 26 April 1999 on the landfill of waste (OJ L 182, 16.7.1999, p. 1).

²⁴ Directive 2006/21/EC of the European Parliament and of the Council of 15 March 2006 on the management of waste from extractive industries and amending Directive 2004/35/EC (OJ L 102, 11.4.2006, p. 15).

²⁵ Council Directive 86/278/EEC of 12 June 1986 on the protection of the environment, and in particular of the soil, when sewage sludge is used in agriculture (OJ L 181, 4.7.1986, p. 6).

²⁶ Council Directive 91/271/EEC of 21 May 1991 concerning urban waste-water treatment (OJ L 135, 30.5.1991, p. 40).

	Article 13 of Regulation (EU) 2019/1021/EU of the European Parliament and of the Council ²⁷ , Article 15 of Commission Recommendation 2014/70/EU ²⁸
Water	Articles 15-17 of Directive 91/271/EEC, Article 13 of Directive 2006/7/EC of the European Parliament and of the Council ²⁹ , Articles 5, 8, 11, 13, 15 of Directive 2000/60/EC, Articles 3-6 of Directive 2006/118/EC of the European Parliament and of the Council ³⁰ , Article 5 of Directive 2008/105/EC of the European Parliament and of the Council ³¹ , Articles 17, 18 of Directive 2020/2184/EU of the European Parliament and of the Council ³² , Articles 3-8, 10 of Directive 2007/60/EC of the European Parliament and of the Council ³³ , Articles 6-11, 13, 14, 17-19, 26, 27 of Directive 2008/56/EC of the European Parliament and of the Council ³⁴
Horizontal legislation	Articles 15, 18 of Directive 2004/35/EC of the European Parliament and of the Council ³⁵ ,

²⁷ Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants (OJ L 169, 25.6.2019, p. 45).

²⁸ 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 (OJ L 39, 8.2.2014, p. 72).

²⁹ Directive 2006/7/EC of the European Parliament and of the Council of 15 February 2006 concerning the management of bathing water quality and repealing Directive 76/160/EEC (OJ L 64, 4.3.2006, p. 37).

³⁰ Directive 2006/118/EC of the European Parliament and of the Council of 12 December 2006 on the protection of groundwater against pollution and deterioration (OJ L 372, 27.12.2006, p. 19).

³¹ Directive 2008/105/EC of the European Parliament and of the Council of 16 December 2008 on environmental quality standards in the field of water policy, amending and subsequently repealing Council Directives 82/176/EEC, 83/513/EEC, 84/156/EEC, 84/491/EEC, 86/280/EEC and amending Directive 2000/60/EC of the European Parliament and of the Council (OJ L 348, 24.12.2008, p. 84).

³² Directive (EU) 2020/2184 of the European Parliament and of the Council of 16 December 2020 on the quality of water intended for human consumption (OJ L 435, 23.12.2020, p. 1).

³³ Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risks (OJ L 288, 6.11.2007, p. 27).

³⁴ Directive 2008/56/EC of the European Parliament and of the Council of 17 June 2008 establishing a framework for community action in the field of marine environmental policy (Marine Strategy Framework Directive) (OJ L 164, 25.6.2008, p. 19).

³⁵ Directive 2004/35/CE of the European Parliament and of the Council of 21 April 2004 on environmental liability with regard to the prevention and remedying of environmental damage (OJ L 143, 30.4.2004, p. 56).

2.2. Arrangements for the publication and re-use

- a) The datasets shall be made available for re-use:
 - under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
 - in a publicly documented, Union or internationally recognised open, machine-readable format;
 - through APIs and bulk download.
- b) The metadata describing the data within the scope of the INSPIRE data themes set shall contain at least the metadata elements set out in the Annex to Regulation (EC) No 1205/2008.
- c) The datasets shall be described in a complete and publicly available online documentation describing at least the data structure and semantics.
- d) The datasets shall use Union or internationally recognised and publicly documented controlled vocabularies and taxonomies, where available.

³⁶ Regulation (EU) 2020/852 of the European Parliament and of the Council of 18 June 2020 on the establishment of a framework to facilitate sustainable investment, and amending Regulation (EU) 2019/2088 (OJ L 198, 22.6.2020, p. 13).

3. Meteorological

3.1. Datasets in scope

The meteorological thematic category includes datasets on observations data measured by weather stations, validated observations (climate data), weather alerts, radar data and numerical weather prediction model data with the granularity and key attributes listed in the table below.

Datasets	Observations data measured by weather stations	Climate data: validated observations	Weather alerts	Radar data	NWP model data
<i>Granularity</i>	Per weather station, full temporal resolution	Per weather station, full temporal resolution	Alerts, 48 hrs or more ahead	Per radar station in the MS and national composite	Minimum 48 hrs ahead in 1hr steps, national, at 2.5km/best available grid
<i>Key attributes</i>	All observation variables measured	All validated measured observation variables; daily average per variable		Reflectivity, Backscatter, polarization. Precipitation, wind, and echotops	Deterministic and/or ensembles if available, for meteorologically relevant parameters and levels

3.2. Arrangements for the publication and re-use

a) The datasets shall be made available for re-use:

- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
- in any of the formats specified in the table below or another Union or internationally recognised open, machine-readable format;
- through APIs and bulk download;
- pursuant to the update frequency and timeliness specified in the table below.

- b) The metadata describing the data set shall be complete and available on the web in an open and widely used machine-readable format.
- c) The datasets shall be described in a complete and publicly available online documentation describing at least the data structure and semantics³⁷.

Datasets	Observations data measured by the weather stations	Climate data: validated observations	Weather alerts	Radar data	NWP model data
Format	BUFR, NetCDF, ascii (for real time data), JSON (for hourly data)	NetCDF, JSON	XML (Cap or RSS / Atom)	HDF5, JSON	GRIB (or NetCDF), JSON
Update frequency and timeliness	Every 5-10 minutes in real time for automated stations, hourly unvalidated for all stations, for the last 24 hrs	Daily validated hourly (and better temporal resolution) and daily average observations data; all digitised historical data	As issued or hourly	Near real time in 5 minute intervals (or available shortest interval)	Every 6 hrs, or better temporal resolution, from the last 24 hrs.

³⁷ For instance the INSPIRE Data Specification on Atmospheric Conditions and Meteorological Geographical Features (https://inspire.ec.europa.eu/documents/Data_Specifications/INSPIRE_DataSpecification_AC-MF_v2.0.pdf) provides approaches and use cases for representing and documenting the meteorological datasets.

4. Statistics

4.1. Datasets in scope

The statistics thematic category includes statistical datasets related to reporting obligations as defined in the legal acts listed in the table below.

In order to identify in a complete manner the relevant legal references in the legal acts, for some of the datasets it is necessary to refer to concepts from a number of provisions and Annexes, as presented below in Tables 1-18. For those datasets, the definitions from the legal acts referred to in the table below apply. The legal acts are also applicable where it is indicated so in the footnotes to Tables 1-18.

Time series shall begin no later than at the date of application of the respective legal act listed in the table below.

Datasets	Legal acts laying down the key variables of the datasets in scope and their breakdowns
Industrial production	Regulation (EU) 2019/2152 of the European Parliament and of the Council ³⁸ Table 26 of the Annex to Commission Implementing Regulation (EU) 2020/1197 ³⁹
Industrial producer price index breakdowns by activity	Table 5 of Annex I to Implementing Regulation (EU) 2020/1197
Volume of sales by activity	Table 7 of Annex I of Implementing Regulation (EU) 2020/1197
EU International trade in goods statistics – exports and imports breakdowns simultaneously by partner, product and flow	Regulation (EU) 2019/2152
Tourism flows in Europe (see Table 1 and 2 below for variables in scope)	Section 2 of Annex I to Regulation (EU) No 692/2011 of the European Parliament and of the Council ⁴⁰

³⁸ Regulation (EU) 2019/2152 of the European Parliament and of the Council of 27 November 2019 on European business statistics, repealing 10 legal acts in the field of business statistics (OJ L 327, 17.12.2019, p. 1).

³⁹ Commission Implementing Regulation (EU) 2020/1197 of 30 July 2020 laying down technical specifications and arrangements pursuant to Regulation (EU) 2019/2152 of the European Parliament and of the Council on European business statistics repealing 10 legal acts in the field of business statistics (OJ L 271, 18.8.2020, p. 1).

⁴⁰ Regulation (EU) No 692/2011 of the European Parliament and of the Council of 6 July 2011 concerning European statistics on tourism and repealing Council Directive 95/57/EC (OJ L 192, 22.7.2011, p. 17).

Datasets	Legal acts laying down the key variables of the datasets in scope and their breakdowns
	Article 1 of Commission Delegated Regulation (EU) 2019/1681 ⁴¹
Harmonised Indices of consumer prices	Article 3 of Regulation (EU) 2016/792 of the European Parliament and of the Council ⁴²
National accounts – GDP main aggregates (see Tables 6-7 below for variables in scope)	Regulation (EU) No 549/2013 of the European Parliament and of the Council ⁴³ , in particular Annex B
National accounts – key indicators on corporations (see Table 8 below for variables in scope)	Regulation (EU) No 549/2013, in particular Annex B
National accounts – key indicators on households (see Table 9 below for variables in scope)	Regulation (EU) No 549/2013, in particular Annex B
Government expenditure and revenue (see Table 10 below for variables in scope)	Regulation (EU) No 549/2013, in particular Annex B
Consolidated government gross debt (see Table 11 and 12 below for variables in scope)	Chapter I of Council Regulation (EC) No 479/2009 ⁴⁴
	Regulation (EU) No 549/2013
Environmental accounts and statistics	Annex I to Regulation (EU) No 691/2011 of the European Parliament and of the Council ⁴⁵
	Annex I and II to Regulation (EC) No 2150/2002 of the European Parliament and of the Council ⁴⁶
Population, Fertility, Mortality	Regulation (EU) No 1260/2013 of the European Parliament and of the Council ⁴⁷

⁴¹ Commission Delegated Regulation (EU) 2019/1681 of 1 August 2019 amending Regulation (EU) No 692/2011 of the European Parliament and of the Council concerning European statistics on tourism, as regards the transmission deadlines and adaptation of Annexes I and II (OJ L 258, 9.10.2019, p. 1).

⁴² Regulation (EU) 2016/792 of the European Parliament and of the Council of 11 May 2016 on harmonised indices of consumer prices and the house price index, and repealing Council Regulation (EC) No 2494/95 (OJ L 135, 24.5.2016, p. 11).

⁴³ Regulation (EU) No 549/2013 of the European Parliament and of the Council of 21 May 2013 on the European system of national and regional accounts in the European Union (OJ L 174, 26.6.2013, p. 1).

⁴⁴ Council Regulation (EC) No 479/2009 of 25 May 2009 on the application of the Protocol on the excessive deficit procedure annexed to the Treaty establishing the European Community (Codified version) (OJ L 145, 10.6.2009, p. 1).

⁴⁵ Regulation (EU) No 691/2011 of the European Parliament and of the Council of 6 July 2011 on European environmental economic accounts (OJ L 192, 22.7.2011, p. 1).

⁴⁶ Regulation (EC) No 2150/2002 of the European Parliament and of the Council of 25 November 2002 on waste statistics (OJ L 332, 9.12.2002, p. 1).

⁴⁷ Regulation (EU) No 1260/2013 of the European Parliament and of the Council of 20 November 2013 on European demographic statistics (OJ L 330, 10.12.2013, p. 39).

Datasets	Legal acts laying down the key variables of the datasets in scope and their breakdowns
	Annex II to Commission Implementing Regulation (EU) No 205/2014 ⁴⁸
	Regulation (EC) No 862/2007 of the European Parliament and of the Council ⁴⁹
	Commission Regulation (EU) No 351/2010 ⁵⁰
	Regulation (EU) No 1260/2013
	Implementing Regulation (EU) No 205/2014
	Regulation (EU) No 2020/851 of the European Parliament and of the Council ⁵¹
Population (see Table 3 below for variables in scope)	Regulation (EU) No 1260/2013
	Implementing Regulation (EU) No 205/2014
	Regulation (EC) No 862/2007
	Regulation (EU) No 351/2010
Fertility (see Table 4 below for variables in scope)	Regulation (EU) No 1260/2013
	Implementing Regulation (EU) No 205/2014
Mortality (see Table 5 below for variables in scope)	Regulation (EU) No 1260/2013
	Implementing Regulation (EU) No 205/2014
	Commission Regulation (EU) No 328/2011 ⁵²
	Commission Regulation (EU) No 349/2011 ⁵³
	Council Decision 93/704/EC ⁵⁴
Current healthcare expenditure	Annex II to Regulation (EC) No 1338/2008

⁴⁸ Commission Implementing Regulation (EU) No 205/2014 of 4 March 2014 laying down uniformed conditions for the implementation of Regulation (EU) No 1260/2013 of the European Parliament and the Council on European demographic statistics, as regards breakdowns of data, deadlines and data revisions (OJ L 65, 5.3.2014, p. 10).

⁴⁹ Regulation (EC) No 862/2007 of the European Parliament and of the Council of 11 July 2007 on Community statistics on migration and international protection and repealing Council Regulation (EEC) No 311/76 on the compilation of statistics on foreign workers (OJ L 199, 31.7.2007, p. 23).

⁵⁰ Commission Regulation (EU) No 351/2010 of 23 April 2010 implementing Regulation (EC) No 862/2007 of the European Parliament and of the Council on Community statistics on migration and international protection as regards the definitions of the categories of the groups of country of birth, groups of country of previous usual residence, groups of country of next usual residence and groups of citizenship (OJ L 104, 24.4.2010, p. 37).

⁵¹ Regulation (EU) No 2020/851 of the European Parliament and of the Council of 18 June 2020 amending Regulation (EC) No 862/2007 on Community statistics on migration and international protections (OJ L 198/1, 22.6.2020, p. 1).

⁵² Commission Regulation (EU) No 328/2011 of 5 April 2011 implementing Regulation (EC) No 1338/2008 of the European Parliament and of the Council on Community statistics on public health and health and safety at work, as regards statistics on causes of death (OJ L 90, 6.4.2011, p. 22).

⁵³ Commission Regulation (EU) No 349/2011 of 11 April 2011 implementing Regulation (EC) No 1338/2008 of the European Parliament and of the Council on Community statistics on public health and health and safety at work, as regards statistics on accidents at work (OJ L 97, 12.4.2011, p. 3).

⁵⁴ 93/704/EC: Council Decision⁵⁴ of 30 November 1993 on the creation of a Community database on road accidents (OJ L 329, 30.12.1993, p. 63).

Datasets	Legal acts laying down the key variables of the datasets in scope and their breakdowns
	Annex II to Commission Regulation (EU) 2015/359 ⁵⁵
Poverty (see Table 13 below for variables in scope)	Regulation (EU) 2019/1700 of the European Parliament and of the Council ⁵⁶ Commission Implementing Regulation (EU) 2019/2180 ⁵⁷ Commission Implementing Regulation (EU) 2019/2181 ⁵⁸ Commission Implementing Regulation (EU) 2019/2242 ⁵⁹
Inequality (see Table 14 below for variables in scope)	Regulation (EU) 2019/1700 Implementing Regulation (EU) 2019/2180 Implementing Regulation (EU) 2019/2181 Implementing Regulation (EU) 2019/2242
Employment (see Tables 15-16 below for variables in scope)	Regulation (EU) 2019/1700 Commission Implementing Regulation (EU) 2019/2240 ⁶⁰
Unemployment (see Table 17 below for variables in scope)	Regulation (EU) 2019/1700 Implementing Regulation (EU) 2019/2240
Potential labour force (see Table 18 below for variables in scope)	Regulation (EU) 2019/1700 Implementing Regulation (EU) 2019/2240

⁵⁵ Commission Regulation (EU) 2015/359⁵⁵ of 4 March 2015 implementing Regulation (EC) No 1338/2008 of the European Parliament and of the Council as regards statistics on healthcare expenditure and financing (OJ L 62, 6.3.2015, p. 6).

⁵⁶ Regulation (EU) 2019/1700 of the European Parliament and of the Council of 10 October 2019 establishing a common framework for European statistics relating to persons and households, based on data at individual level collected from samples, amending Regulations (EC) No 808/2004, (EC) No 452/2008 and (EC) No 1338/2008 of the European Parliament and of the Council, and repealing Regulation (EC) No 1177/2003 of the European Parliament and of the Council and Council Regulation (EC) No 577/98 (OJ L 261I, 14.10.2019, p. 1).

⁵⁷ Commission Implementing Regulation (EU) 2019/2180 of 16 December 2019 specifying the detailed arrangements and content for the quality reports pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council (OJ L 330, 20.12.2019, p. 8).

⁵⁸ Commission Implementing Regulation (EU) 2019/2181 of 16 December 2019 specifying technical characteristics as regards items common to several datasets pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council (OJ L 330, 20.12.2019, p. 16).

⁵⁹ Commission Implementing Regulation (EU) 2019/2242 of 16 December 2019 specifying the technical items of data sets, establishing the technical formats and specifying the detailed arrangements and content of the quality reports on the organisation of a sample survey in the income and living conditions domain pursuant to Regulation (EU) 2019/1700 of the European Parliament and of the Council (OJ L 336, 30.12.2019, p. 133).

⁶⁰ Commission Implementing Regulation (EU) 2019/2240 of 16 December 2019 specifying the technical items of the data set, establishing the technical formats for transmission of information and specifying the detailed arrangements and content of the quality reports on the organisation of a sample survey in the labour force domain in accordance with Regulation (EU) 2019/1700 of the European Parliament and of the Council (OJ L 336, 30.12.2019, p. 59).

Table 1. Specification for the *yearly Tourism flows in Europe high-value dataset*

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ● = required for Member States where a sufficiently large sample size exists to allow for precise estimates, as set out in the relevant Regulation, ↓ = NUTS 2 breakdowns are to be offered as a consequence of NUTS 3 being offered

Breakdowns	Key variables	Nights spent at tourist accommodation establishments		Participation in tourism for personal purpose		Tourism trips made by EU residents	Tourism nights spent by EU residents	Tourism expenditure made by EU residents
		<i>Supply side information on domestic and inbound tourism</i>		<i>Share of the population (15+) that make tourism trips with overnight stays for personal purpose during a given reference year</i>		<i>Demand side information on domestic and outbound tourism trips</i>	<i>Demand side information on domestic and outbound tourism nights</i>	<i>Demand side information on domestic and outbound tourism expenditure</i>
Country of origin	– Resident – non-resident	●	●					
Duration of the trip	– Long – Short			●		● ⁶¹	● ⁶¹	● ⁶¹
Destination country	– Domestic – Outbound				●	● ⁶¹	● ⁶¹	● ⁶¹
Means of transport	7 categories ⁶²					● ⁶¹	● ⁶¹	● ⁶¹
Means of accommodation	7 categories ⁶²					● ⁶¹	● ⁶¹	● ⁶¹
Booking modalities ⁶³	Various attributes ⁶²					● ^{61,63}	● ^{61,63}	● ^{61,63}
Geographical	NUTS 2 region	↓	●					
	NUTS 3 region	●						
	Coastal/non-coastal areas		●					

⁶¹ Univariate and multivariate statistics are only required for combinations which have a sufficiently large sample size to allow for precise estimates to be presented.

⁶² See Annex II to Regulation (EU) No 692/2011 of the European Parliament and of the Council of 6 July 2011 concerning *European statistics on tourism and Commission Delegated Regulation (EU) 2019/1681 of 1 August 2019 amending Regulation (EU) No 692/2011 of the European Parliament and of the Council of 6 July 2011 concerning European statistics on tourism, as regards the transmission deadlines and adaptation of Annexes I and II.*

⁶³ *Booking modalities* is a triennial module – this breakdown is only required on a triennial basis (not on an annual basis).

Degree of urbanisation (3 categories)		●					
City (<i>selected cities only</i>) ⁶⁴	●						

Table 2. Specification for the monthly **Tourism flows in Europe** high-value dataset

Key variables	Nights spent at tourist accommodation establishments	
	<i>Supply side information on domestic and inbound tourism</i>	
Breakdowns		
Country of origin – Resident – non-resident		●
Geographical NUTS 2		●

Table 3. Specification for the yearly **population** high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ● = required for Member States that meet conditions set out in the relevant Regulation; ○ = voluntary

Key variables	Population on 1 January					Median age	Old age dependency ratio <i>Proportion of people 65+ to people 20-64</i>
Sex	●	●	●	●	●	●	
Age	●	●	●	●	●		
Education attainment level <i>ISCED 2011</i> ⁶⁵					○		
Marital status				○			
Citizenship		●					
Country of birth			●				

⁶⁴ City-specific statistics are only required for specific cities.

⁶⁵ International Standard Classification of Education.

Human development index	<i>HDI is a regrouping of country of birth and of country of citizenship</i>		●	●				
Region	NUTS 3	●					●	●

Table 4. Specification for the *yearly fertility* high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ↓ = NUTS 2 breakdowns are offered as a consequence of NUTS 3 being offered

Key variables		Crude birth rate	Fertility rates by mother's age	Total fertility rate
Breakdowns		The ratio of the number of live births during the year to the average population in that year. The value is expressed per 1000 population.	the ratio of the number of live births to mothers of age x to the average female population of age x.	Mean number of children that would be born alive to a woman during her lifetime if she were to pass through and survive her childbearing years conforming to the fertility rates by age of a given year.
Age			●	
Region	<i>NUTS 2</i>	↓	●	↓
	<i>NUTS 3</i>	●		●

Table 5. Specification for the *yearly mortality high-value dataset*

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● =mandatory, ↓ = NUTS 2 breakdowns to be offered as a consequence of NUTS 3 being offered

Key variables		Crude death rate	Infant mortality rate	Life expectancy
Breakdowns		The ratio of the number of deaths during the year to the average population in that year. The value is expressed per 1000 population.	The ratio of the number of deaths of children under one year of age during the year to the number of live births in that year. The value is expressed per 1000 live births.	
Age				●
Sex				●
Region	<i>NUTS 2</i>	↓	●	●
	<i>NUTS 3</i>	●		

Table 6. Specification for the yearly National accounts – GDP main aggregates high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ↓ = NUTS 2 breakdowns are to be offered as a consequence of NUTS 3 being offered

Key variables		Gross domestic product at market prices	Gross value added		Final consumption expenditure of households	Gross fixed capital formation		Compensation of employees	Employment		Gross national income	Net lending/net borrowing of the total economy	
			Variable B.1g ^{67;68}	Current prices		Volumes	Variable P.31_S.14 ^{67;68}		Current prices	Volumes			Variable D.1 ^{67;68}
Breakdowns ⁶⁶	Industry	NACE Rev. 2 ⁶⁹	●	●	(No breakdowns)	●	●	●	●	●	●	(No breakdowns)	(No breakdowns)
	Asset type	AN_F6					●	●					
	Region	NUTS 2	↓ ⁷⁰	↓		●			●	↓	●		
		NUTS 3	● ²³	●						●			

⁶⁶ Breakdowns as required by Regulation (EU) No 549/2013 on a mandatory basis.

⁶⁷ Concept, level of detail, frequency, timeliness and time series as defined in Regulation (EU) No 549/2013.

⁶⁸ Frequency and seasonal adjustment as prescribed in Regulation (EU) No 549/2013.

⁶⁹ Up to NACE A*64 (if no regional breakdown) – NACE A*10 for NUTS 2 – NACE A 6 for NUTS 3.

⁷⁰ For **B1GQ**, regional breakdowns are not required for *volume* or *derived growth rates*.

Table 7. Specification for the *quarterly National accounts – GDP main aggregates high-value dataset*

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved

Key variables		Gross domestic product at market prices	Gross value added	Final consumption expenditure of households	Gross fixed capital formation	Compensation of employees	Employment
		Variable B.1gq ^{67;68} Current prices and volumes, derived growth rates	Variable B.1g ^{67;68} Current prices and volumes	Variable P.31_S.14 ^{79;80} Current prices and volumes	Variable P.51g ^{67;68} Current prices and volumes	Variable D.1 ^{67;68} Current prices	Variable EMP ^{67;68} Persons and hours worked
Breakdowns ⁶⁶							
Industry	NACE Rev. 2 ⁷¹	(No breakdowns)	•	(No breakdowns)		•	•
Asset type	AN_F6				•		

Table 8. Specification for the yearly *National accounts – key indicators on corporations high-value dataset*

Key variables	Gross fixed capital formation of non-financial corporations Variable P.51g_S.11 ⁷² Current prices	Gross operating surplus and mixed income of non-financial corporations Variable 9B.2g & B3g)_S.11 ⁷² Current prices	Total financial sector assets Variable F.A_S.12 ⁷² Current prices, non-consolidated	Total financial sector liabilities Variable F.L_S.12 ⁷² Current prices, non-consolidated ²⁶	Net lending/net borrowing of non-financial and financial corporations Variables B.9_S.11 ⁷² and B.9_S.12 ⁷² Balancing item
Breakdowns	<i>(No breakdowns for this high-value dataset)</i>				

⁷² Concept, level of detail, frequency, timeliness and time series as defined in Regulation (EU) No 549/2013.

Table 9. Specification for the yearly National accounts – *key indicators on households high-value dataset*

Key variables		Disposable income of households – gross and net		Gross fixed capital formation for households	Savings of households, gross	Total households sector assets	Total households sector liabilities	Net lending/net borrowing of households
		Gross disposable income	Net disposable income	Variable P.51g_S.14 ²⁷ Current prices	Variable B.8g_S.14 ²⁷ Current prices	Variable F.A_S.14 ²⁷ Current prices, non-consolidated	Variable F.L_S14 ²⁷ Current prices, non-consolidated ²⁸	Variable B.9_S.14 ²⁷ Balancing item. Current prices.
Breakdowns								
Region	NUTS 2	(No breakdowns)	●	(No breakdowns)				

⁷³ Concept, level of detail, frequency, timeliness and time series as defined in Regulation (EU) No 549/2013.

Table 10. Specification for the yearly **Government expenditure and revenue** high-value dataset

Breakdowns		Key variables	Total general government revenue	Total expenditure	Net lending/ net borrowing of general government (B.9)
Dimension	Categories ⁷⁴		<i>Defined in Regulation (EU) No 549/2013, Annex A, 8.100 and Chapter 20 by reference to a list of categories</i>	<i>Defined in Regulation (EU) No 549/2013, Annex A, 8.100 and Chapter 20 by reference to a list of categories</i>	<i>Balancing item of government revenue and expenditure</i>
Revenue category	<ul style="list-style-type: none"> – Market output – Output for own final use – Payments for non-market output – Taxes on production and imports – Other subsidies on production – Receivable property income – Current taxes on income, wealth, etc., – Net social contributions – Other current transfers and capital transfers 	•			
Expenditure category	<ul style="list-style-type: none"> – Intermediate consumption – Gross capital formation – Compensation of employees – Other taxes on production – Subsidies – Payable property income – Current taxes on income, wealth, etc. – Social benefits other than social transfers in kind – Social transfers in kind - purchased market production – Other current transfers – Adjustments for the change in pension entitlements – Capital transfers and acquisitions less disposals of non-financial non-produced assets 			•	(No breakdowns for this key variable)

⁷⁴ As defined in Regulation (EU) No 549/2013, Annex A, 8.100 and Chapter 20

Table 11. Specification for the yearly **Consolidated government gross debt** high-value dataset

Key variable		Government gross debt
Breakdown		<i>Government debt is defined as the total consolidated gross debt at nominal value in the following categories of government liabilities (as defined in ESA 2010): currency and deposits (AF.2), debt securities (AF.3) and loans (AF.4).</i>
Dimension	Categories ⁷⁵	
Government liability category	– Currency and deposits (AF.2) – Debt securities (AF.3) – Loans (AF.4)	•

Table 12. Specification for the quarterly **Consolidated government gross debt** high-value dataset

Key variable		Government gross debt
Breakdown		<i>Government debt is defined as the total consolidated gross debt at nominal value in the following categories of government liabilities (as defined in ESA 2010): currency and deposits (AF.2), debt securities (AF.3) and loans (AF.4).</i>
Dimension	Categories ⁷⁵	
Government liability category	– Currency and deposits (AF.2) – Debt securities (AF.3) – Loans (AF.4)	•

⁷⁵ As defined in Regulation (EU) No 549/2013.

Table 13. Specification for the *yearly poverty rate* high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ○ = required for Member States that meet conditions set out in the relevant Regulation

Key variables		People at risk of poverty or social exclusion rate	At-risk-of-poverty rate	Severe material and social deprivation rate	Material and social deprivation rate	People living in households with very low work intensity
		Percentage of people either at risk of poverty or in severe material deprivation or living in a household with very low work intensity	Percentage of people living in a household which equivalised disposable income is lower than 60% of the median equivalised national disposable income	Percentage of people living in a household than cannot afford at least 4 of 9 items considered to be desirable or even necessary to lead an adequate life	New concept of deprivation excluding some durables and replacing them by social items (e.g., leisure activity, get with friends)	Percentage of people living in a household where the members of working age worked less than 20 % of their total potential during the previous year
Sex	Male/female	●	●	●	●	●
Age	0-17 18-64 64+	●	●	●	●	●
Education attainment level	ISCED 2011 – Less than primary – Primary and lower secondary education (levels 0-2); – Upper secondary and post-secondary non-tertiary education (levels 3 and 4); – Tertiary education (levels 5-8)	●	●	●	●	●
Citizenship	National/EU/Non EU	●	●	●	●	●
Country of birth	National/EU/Non EU	●	●	●	●	●
Most frequent activity status	– Employed persons – Employees – Employed persons except employees – Not employed persons – Unemployed persons – Retired persons – Other inactive persons	●	●	●	●	●
Income quintile	1,2,3,4,5	●	●	●	●	●
NUTS 2		○	○	○	○	○

Table 14. Specification for the *yearly inequality rate* high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Legend for breakdowns: ● = mandatory, ○ = required for Member States where this is feasible as set out in the relevant Regulation

Key variables		Income quintile share ratio S80/S20		Gini coefficient of equivalised disposable income	
		Breakdowns		<i>The ratio of total income received by the 20 % of the population with the highest income (top quintile) to that received by the 20 % of the population with the lowest income (lowest quintile)</i>	
Sex	Male / female			●	(No breakdowns available for this key variable)
Age	Less than 65 / More than 65			●	
Region	NUTS 2				

Table 15. Specification for the yearly **employment** high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Breakdowns		Key variables	Employment rate of people aged 20 to 64					Part-time work of people aged 20 to 64			
Sex		Male/female	●	●		●			●	●	
Age		20-24 years, 25-29 years, 30-34 years, ... , 55-64 years	●		●		●				
		15-24 years, 25-54 years, 55-64 years							●		●
Education attainment level	ISCED 2011	– Less than primary – Primary and lower secondary education (levels 0-2); – Upper secondary and post-secondary non-tertiary education (levels 3 and 4); – Tertiary education (levels 5-8)		●	●			●		●	●
Region		NUTS 2				●	●	●			

Table 16. Specification for the quarterly **employment** high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Breakdowns		Key variables	Employment rate of people aged 20 to 64		
Sex		Male/female	●	●	
Age		20-24 years, 25-29 years, 30-34 years, ... , 55-64 years	●		●
Education attainment level	ISCED 2011	– Less than primary – Primary and lower secondary education (levels 0-2); – Upper secondary and post-secondary non-tertiary education (levels 3 and 4); – Tertiary education (levels 5-8)		●	●

Table 17. Specification for the yearly unemployment high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Breakdowns		Key variables	Unemployment rate of people aged 15 to 74						Long term unemployment rate of people aged 15 to 74		
Sex		Male/female	●	●		●			●	●	
Age		15-24 years, 25-54 years, 55-74 years	●		●		●		●		●
Education attainment level	ISCED 2011	– Less than primary – Primary and lower secondary education (levels 0-2) – Upper secondary and post-secondary non-tertiary education (levels 3 and 4) – Tertiary education (levels 5-8)		●	●			●		●	●
Region		NUTS 2				●	●	●			

Specification for the quarterly unemployment high-value dataset

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved.

Breakdowns		Key variables	Unemployment rate of people aged 15 to 74			Long term unemployment rate of people aged 15 to 74		
Sex		Male/female	●	●		●	●	
Age		15-24 years, 25-54 years, 55-74 years	●		●	●		●
Education attainment level ⁷⁶	ISCED 2011	– Less than primary – Primary and lower secondary education (levels 0-2) – Upper secondary and post-secondary non-tertiary education (levels 3 and 4) – Tertiary education (levels 5-8)		●	●		●	●

⁷⁶ By ISCED 2011.

Table 18. Specification for the *yearly potential labour force high-value dataset*

Note: The breakdowns simultaneously indicated in a column should be offered for the crosstabulation of all variables involved

Breakdowns		Key variables	Persons aged 15 to 74 seeking work but not immediately available	Persons aged 15 to 74 available to work but not seeking
Sex	Male/female		●	●
Age	15-24 years, 25-54 years, 55-74 years		●	●

4.2. Arrangements for the publication and re-use

a) The datasets shall be made available for re-use:

- as frequently as required by the corresponding legislation referred to under 4.1. (e.g. monthly, quarterly, yearly);
- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
- in CSV, XML (SDMX), JSON or another publicly documented, Union or internationally recognised open, machine-readable format;
- through APIs and bulk download;

b) The metadata describing the data set shall be available as a well-developed structured file containing at least a description of the statistical data, the statistical concepts, methodologies and information on data quality.

c) The datasets shall be described in a complete and publicly available online documentation describing at least the data structure and semantics.

d) Datasets shall use Union or internationally recognised and publicly documented controlled vocabularies and taxonomies, where available.

5. Companies and company ownership

5.1. Datasets in scope

The companies and company ownership thematic category includes datasets containing basic company information and company documents and accounts at individual company level and with the key attributes listed in the table below.

Datasets	Basic company information: key attributes	Company documents and accounts The descriptions of the datasets and their key attributes shall be understood in accordance with Articles 4, 5, 9-19a, 24, 28-29a, 31, 35, 39, 40, 43 and 48c of Directive 2013/34/EU of the European Parliament and of the Council ⁷⁷ and Articles 4-6 of Directive 2004/109/EC of the European Parliament and of the Council ⁷⁸ .
	<ul style="list-style-type: none"> - Name of the company (full version; alternative names when applicable); - Company status (such as when it is closed, struck off the register, wound up, dissolved (as well as the date of these events), economically active or inactive as defined in national law); - Registration date; - Registered office address; - Legal form; - Registration number; - Member State where the company is registered; - Activity/activities that are the object of the company, such as the NACE code. 	<ul style="list-style-type: none"> - Accounting documents, which include: <ul style="list-style-type: none"> o Financial statements (incl. the list of participating interests, subsidiary undertakings and associated undertakings, their registered office address and proportion of capital held), audit reports. o Non-financial statements, management reports and other statements or reports. o Annual financial reports.

⁷⁷ Directive 2013/34/EU of the European Parliament and of the Council of 26 June 2013 on the annual financial statements, consolidated financial statements and related reports of certain types of undertakings, amending Directive 2006/43/EC of the European Parliament and of the Council and repealing Council Directives 78/660/EEC and 83/349/EEC (OJ L 182, 29.6.2013, p. 19).

⁷⁸ Directive 2004/109/EC of the European Parliament and of the Council of 15 December 2004 on the harmonisation of transparency requirements in relation to information about issuers whose securities are admitted to trading on a regulated market and amending Directive 2001/34/EC (OJ L 390, 31.12.2004, p. 38).

5.2. Arrangements for the publication and re-use

a) The datasets shall be made available for re-use

- without undue delay after the latest update;
- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence, with additional conditions concerning the re-use of personal data where relevant;
- in a Union or internationally recognised open, machine-readable format (XHTML for documents in the scope of the Commission Delegated Regulation (EU) 2018/815⁷⁹; other formats if and where prescribed by applicable Union law) and complete metadata (for documents in the scope of Commission Delegated Regulation (EU) 2016/1437⁸⁰, the metadata specified in that Regulation, where applicable; for other documents, the metadata prescribed by applicable EU law, if any), machine-readability shall not be imposed to data that are maintained in formats that are not machine readable (e.g. scanned company documents and accounts) or to unstructured/non-machine readable data fields included as part of machine readable documents;
- through APIs and bulk download;
- at individual company level.

b) The datasets shall be described in a complete and publicly available online documentation describing at least the data structure and semantics.

c) The datasets shall use Union or internationally recognised and publicly documented controlled vocabularies and taxonomies, where available, such as the Core Business Vocabulary⁸¹.

⁷⁹ Commission Delegated Regulation (EU) 2018/815 of 17 December 2018 supplementing Directive 2004/109/EC of the European Parliament and of the Council with regard to regulatory technical standards on the specification of a single electronic reporting format (OJ L 143, 29.5.2019, p. 1).

⁸⁰ Commission Delegated Regulation (EU) 2016/1437 of 19 May 2016 supplementing Directive 2004/109/EC of the European Parliament and of the Council with regard to regulatory technical standards on access to regulated information at Union level (OJ L 234, 31.8.2016, p. 1).

⁸¹ <https://joinup.ec.europa.eu/collection/registered-organization-vocabulary/solution/registered-organization-vocabulary/release/100>.

6. Mobility

6.1. Datasets in scope

The mobility thematic category includes datasets within the scope of the INSPIRE data theme ‘Transport networks’ as set out in Annex I to Directive 2007/2/EC, at all generalisation levels available up to a scale of 1:5000, covering the entire country when combined, including as key attributes national identification code, geographical position as well as links with cross-border networks, where available.

INSPIRE DATA THEME (as defined in Annex I to Directive 2007/2/EC)
Transport networks

For those Member States to which Directive 2005/44/EC of the European Parliament and of the Council⁸² applies, this category also includes the datasets in the table below; the datasets are understood as described in Directive 2005/44/EC.

Inland waterways datasets	Data type
<ul style="list-style-type: none">• Fairway characteristics• Long-time obstructions in the fairway and reliability• Rates of waterway infrastructure charges• Other physical limitations on waterways• Regular lock and bridge operating times• Location and characteristics of ports and transshipment sites• List of navigation aids and traffic signs• Navigation rules and recommendations	Static data
<ul style="list-style-type: none">• Water depths contours in the navigation channel• Temporary obstructions in the fairway• Present and future water levels at gauges• State of the rivers, canals, locks and bridges	Dynamic data

⁸² Directive 2005/44/EC of the European Parliament and of the Council of 7 September 2005 on harmonised river information services (RIS) on inland waterways in the Community (OJ L 255, 30.9.2005, p. 152).

<ul style="list-style-type: none"> • Restrictions caused by flood and ice • Short term changes of lock and bridge operating times • Short term changes of aids to navigation 	
<ul style="list-style-type: none"> • Waterway axis with kilometres indication • Links to the external xml-files with operation times of restricting structures • Location of ports and transshipment sites • Reference data for water level gauges relevant to navigation • Bank of waterway at mean water level • Shoreline construction • Contours of locks and dams • Boundaries of the fairway/navigation channel • Isolated dangers in the fairway/navigation channel under and above water • Official aids-to-navigation (e.g. buoys, beacons, lights, notice marks) 	<p>Inland electronic and navigational charts (Inland ENC according to the Inland ECDIS Standard)</p>

6.2. Arrangements for the publication and re-use of transport network datasets:

- a) Transport network datasets shall be made available for re-use
 - immediately after the latest update;
 - under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
 - in a Union or internationally recognised open, machine-readable format;
 - through APIs and bulk download;
 - in their most up-to-date version.
- b) The metadata describing transport network datasets shall contain at least the metadata elements defined in Regulation (EC) No 1205/2008.
- c) The datasets shall be described in a complete and publicly available online documentation describing at least the data structure and semantics.

- d) The datasets shall use Union or internationally recognised and publicly documented controlled vocabularies and taxonomies, where available.

6.3. Arrangements for the publication and re-use of inland waterways datasets

- a) Inland waterways datasets shall be made available for re-use
- under the conditions of the Creative Commons BY 4.0 licence or any equivalent or less restrictive open licence;
 - in the format defined in Directive 2005/44/EC;
 - through APIs and bulk download;
 - including the International Ship Reporting Standard ('ISRS') location code attribute;
 - in accordance with the update frequency and timeliness specified in the table below;
 - in the granularity specified in the table below.
- b) The metadata describing inland waterways datasets shall be complete and available on the web in a Union or internationally recognised open, machine-readable format.
- c) The documentation of inland waterways datasets shall be in accordance with Directive 2005/44/EC and implementing measures and standards based on Directive 2005/44/EC.

Datasets	Static	Dynamic/Urgent	Electronic Navigational Charts
<i>Update frequency and timeliness</i>	When necessary	Daily to (near) real time	Every 3 months, in case of changes to the dataset
<i>Granularity</i>	Individual waterway kilometre or nautical mile level; waterway hectometre level where applicable		National waterway network and cross-border nodes