



5-Evolutree ISS Information System Metadata : ISO standard – INSPIRE – Templates

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1. INSPIRE Directive

1.1. Inspire Background

INSPIRE is a Directive (2007/2/EC) of the European Parliament and of the Council establishing an Infrastructure for Spatial Information in the European Community. The purpose of such an infrastructure is to assist policy-making in relation to policies and activities that may have a direct or indirect impact on the environment. The Directive was approved on the 14th March 2007, and came into force on the 15th May 2007.

INSPIRE should be based on the infrastructures for spatial information that are created by the Member States. Such infrastructures should be designed to ensure that spatial data are stored, made available and maintained at the most appropriate level; that it is possible to combine spatial data from different sources across the Community in a consistent way and share them between several users and applications; that it is possible for spatial data collected at one level of public authority to be shared between other public authorities; that spatial data are made available under conditions which do not unduly restrict their extensive use; that it is easy to discover available spatial data, to evaluate their suitability for the purpose and to know the conditions applicable to their use.

To achieve these aims, the Directive focuses in particular on five key areas: metadata, the interoperability and harmonisation of spatial data and services for selected themes (as described in Annexes I, II, III of the Directive see paragraph 18); network services and technologies; measures on sharing spatial data and services; coordination and monitoring measures. The text of the INSPIRE Directive is available from the INSPIRE web site (www.ec-gis.org/inspire). Member States are required to bring into force national legislation, regulations, and administrative procedures necessary to comply with the Directive by the 15th May 2009.

To ensure that the spatial data infrastructures of the Member States are compatible and usable in a Community and transboundary context, the Directive requires that common Implementing Rules (IRs) are adopted in a number of specific areas. These IRs will be adopted as Commission Regulations or Decisions, and will be binding in their entirety. The Commission is assisted in the process of adopting such rules by a Regulatory Committee composed by representatives of the Member States and chaired by a representative of the Commission. The Committee was established in June 2007. According to the INSPIRE Directive, the IRs on metadata must be adopted within one year of the entry in force of the Directive, i.e. by 15th May 2008.

1.2. The Directive Requirements for Metadata

The general principle informing the need for metadata is expressed in Paragraph (6) of the Directive's preamble, i.e. that the "infrastructures for spatial information in the Member States should be designed to ensure that [...] it is easy to discover available spatial data, to evaluate their suitability for the purpose and to know the conditions applicable to their use".

Metadata is defined in Art. 3, point (6) as: "information describing spatial data sets and spatial data services and making it possible to discover, inventory and use them."

The Directive covers the spatial data sets that fulfil the conditions defined in Article 4, and in particular (Art. 4-1):



- (a) they relate to an area where a Member State has and/or exercises jurisdictional rights;
- (b) they are in electronic format;
- (c) they are held by or on behalf of any of the following:
 - (i) a public authority, having been produced or received by a public authority, or being managed or updated by that authority and falling within the scope of its public tasks;
 - (ii) a third party to whom the network has been made available in accordance with Article 12;
- (d) they relate to one or more of the themes listed in Annex I, II or III. Art. 5 is dedicated to Metadata and requires the following:
 - 1. Member States shall ensure that metadata are created for the spatial data sets and services corresponding to the themes listed in Annexes I, II and III, and that those metadata are kept up to date.
 - 2. Metadata shall include information on the following:
 - (a) the conformity of spatial data sets with the Implementing Rules provided for in Article 7;
 - (b) conditions applying to access to, and use of, spatial data sets and services and, where applicable, corresponding fees;
 - (c) the quality and validity of spatial data sets;
 - (d) the public authorities responsible for the establishment, management, maintenance and distribution of spatial data sets and services;
 - (e) limitations on public access and the reasons for such limitations, in accordance with Article 13 6 .
 - 3. Member States shall take the necessary measures to ensure that metadata are complete and of a quality sufficient to fulfil the purpose set out in point (6) of Article 3.
 - 4. Rules for the implementation of this Article shall be adopted by one year following the date of entry into force of this Directive in accordance with the regulatory procedure referred to in Article 22. These rules shall take account of relevant, existing international standards and user requirements, in particular with relation to validation metadata.

The timetable for the creation of metadata is set out in Art. 6, and indicates that metadata for the data themes in Annexes I and II of the Directive should be created no later than 2 years following the adoption of the IRs (i.e. by May 2010) and for Annex III no later than 5 years following the adoption of the IR (i.e. May 2013).

Additional requirements for Metadata come in Art. 11-1 (a) and 11-2 in which Member States are required to establish and operate discovery services making it possible to search for spatial data sets and services on the basis of the corresponding metadata, and to display the content of such metadata, based at a minimum on the following criteria:

- (a) keywords;
- (b) classification of spatial data and services;
- (c) the quality and validity of spatial data sets;
- (d) degree of conformity with the Implementing Rules provided for in Article 7;
- (e) geographical location;
- (f) conditions applying to the access to and use of spatial data sets and services;
- (g) the public authorities responsible for the establishment, management, maintenance and distribution of spatial data sets and services.

The Directive does not mandate the use of any particular natural language for the metadata content. The Directive recognizes the importance of multi-lingual aspects and mandates the use of multi-lingual thesauri in the context of interoperability of spatial datasets and services (Art. 8-2).

1.3. What Datasets are Affected by INSPIRE

Article 4 of the INSPIRE Directive defines which spatial datasets are covered.

- 1. This Directive shall cover spatial data sets which fulfil the following conditions:
 - (a) they relate to an area where a Member State has and/or exercises jurisdictional rights;
 - (b) they are in electronic format;
 - (c) they are held by or on behalf of any of the following:
 - (i) a public authority, having been produced or received by a public authority, or being managed or updated by that authority and falling within the scope of its public tasks;
 - (ii) a third party to whom the network has been made available in accordance with Article 12;
 - (d) they relate to one or more of the themes listed in Annex I, II or III.
- 2. In cases where multiple identical copies of the same spatial data set are held by or on behalf of various public authorities, this Directive shall apply only to the reference version from which the various copies are derived.
- 3. This Directive shall also cover the spatial data services relating to the data contained in the spatial data sets referred to in paragraph 1.
- 4. This Directive does not require collection of new spatial data.
- 5. In the case of spatial data sets which comply with the condition set out in paragraph 1(c), but in respect of which a third party holds intellectual property rights, the public authority may take action under this Directive only with the consent of that third party.
- 6. By way of derogation from paragraph 1, this Directive shall cover spatial data sets held by or on behalf of a public authority operating at the lowest level of government within a Member State only if the Member State has laws or regulations requiring their collection or

dissemination.

- 7. The description of the existing data themes referred to in Annexes I, II and III may be adapted in accordance with the regulatory procedure with scrutiny referred to in Article 22, in order to take into account the evolving needs for spatial data in support of Community policies that affect the environment.

1.4. INSPIRE Brief and Planning Overview

The INSPIRE Directive concerns data owned by public member state authority of the European union and third parties accessing services in the INSPIRE rules.

It concerns in particular data about the environment :

Annexe 1 : Data necessary to look out for data and site.

Annexe 2 : Data complementary.

Annexe 3 : Thematic data.

(refer to the inspire directive text to get more details <http://www.ec-gis.org/inspire/>)

2008 -2009 : Rules adoption.

2010 : Implementation Annexe I, II.

2011 : Conformity Annexe I for new data.

2013 : Implementation Annexe III.

2014 : Conformity Annexe II, III for new data.

2016 : Conformity Annexe I.

2016 : Conformity Annexe II, III.

1.5. ISO Topic Categories

Isotopic Categories and Keywords

1. Farming

Rearing of animals and/or cultivation of plants.

This category applies to the following INSPIRE Themes: Agricultural and aquaculture facilities (III.9)

2. Biota

Flora and/or fauna in natural environment.

This category applies to the following INSPIRE Themes: Bio-geographical regions (III.17), Habitats and biotopes (III.18) and Species distribution (III.19)

3. Boundaries

Legal land descriptions

This category applies to the following INSPIRE Themes: Administrative units (I.4) and Statistical



units (III.1)

4. Climatology / Meteorology / Atmosphere

Processes and phenomena of the atmosphere

This category applies to the following INSPIRE Themes: Atmospheric conditions (III.13) and Meteorological geographical features (III.14)

5. Economy

Economic activities, conditions and employment

This category applies to the following INSPIRE Themes: Energy resources (III.20) and Mineral resources (III.21)

6. Elevation

Height above or below sea level

This category applies to the following INSPIRE Themes: Elevation (II.1)

7. Environment

Environmental resources, protection and conservation

This category applies to the following INSPIRE Themes: Protected sites (I.9)

8. Geoscientific Information

Information pertaining to earth sciences

This category applies to the following INSPIRE Themes: Soil (III.3), Geology (II.4) and Natural risk zones (III.12)

9. Health

Health, health services, human ecology, and safety

This category applies to the following INSPIRE Themes: Human health and safety (III.5)

10. Imagery Base Maps / Earth Cover

Base maps

This category applies to the following INSPIRE Themes: Orthoimagery (II.3) and Land cover (II.2)

11. Intelligence / Military

Military bases, structures, activities

This category does not apply specifically to any INSPIRE Theme

12. Inland Waters

Inland water features, drainage systems and their characteristics

This category applies to the following INSPIRE Themes: Hydrography (I.8)

13. Location

Positional information and services



This category applies to the following INSPIRE Themes: Geographical names (I.3) and Addresses (I.5)

14. Oceans

Features and characteristics of salt water bodies (excluding inland waters)

This category applies to the following INSPIRE Themes: Sea regions (III.16) and Oceanographic geographical features (III.15)

15. Planning / Cadastre

Information used for appropriate actions for future use of the land

This category applies to the following INSPIRE Themes: Cadastral parcels (I.6), Land use (III.4) and Area management/restriction/regulation zones & reporting units (III.11)

16. Society

Characteristics of society and cultures

This category applies to the following INSPIRE Themes: Population distribution – demography (III.10)

17. Structure

Man-made construction

This category applies to the following INSPIRE Themes: Buildings (III.2), Production and industrial facilities (III.8) and Environmental monitoring facilities (III.7)

18. Transportation

Means and aids for conveying persons and/or goods

This category applies to the following INSPIRE Themes: Transport networks (I.7)

19. Utilities / Communication

Energy, water and waste systems and communications infrastructure and services

This category applies to the following INSPIRE Themes: Utility and governmental services (III.6)

1.6. Theme of Annexe I II and III of INSPIRE

a) Annexe I

1. Coordinate reference systems

Systems for uniquely referencing spatial information in space as a set of coordinates (x, y, z) and/or latitude, longitude and height, based on a geodetic horizontal and vertical datum.

2. Geographical grid systems

Harmonised multi-resolution grid with a common point of origin and standardised location and size of grid cells.

3. Geographical names

Names of areas, regions, localities, cities, suburbs, towns or settlements, or any geographical or topographical feature of public or historical interest.

4. Administrative units

Units of administration, dividing areas where Member States have and/or exercise jurisdictional rights, for local, regional and national governance, separated by administrative boundaries.

5. Addresses

Location of properties based on address identifiers, usually by road name, house number, postal code.

6. Cadastral parcels

Areas defined by cadastral registers or equivalent.

7. Transport networks

Road, rail, air and water transport networks and related infrastructure. Includes links between different networks. Also includes the trans-European transport network as defined in Decision No 1692/96/EC of the European Parliament and of the Council of 23 July 1996 on Community Guidelines for the development of the trans-European transport network and future revisions of that Decision.

8. Hydrography

Hydrographic elements, including marine areas and all other water bodies and items related to them, including river basins and sub-basins. Where appropriate, according to the definitions set out in Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy and in the form of networks.

9. Protected sites

Area designated or managed within a framework of international, Community and Member States' legislation to achieve specific conservation objectives.

b) Annexe II

1. Elevation

Digital elevation models for land, ice and ocean surface. Includes terrestrial elevation, bathymetry and shoreline.

2. Land cover

Physical and biological cover of the earth surface including artificial surfaces, agricultural areas, forests, (semi-)natural areas, wetlands, water bodies.

3. Orthoimagery

Geo-referenced image data of the earth surface, from either satellite or airborne sensors.

4. Geology

Geology characterised according to composition and structure. Includes bedrock, aquifers and

geomorphology.

c) Annexe III

1. Statistical units

Units for dissemination or use of statistical information.

2. Buildings

Geographical location of buildings.

3. Soil

Soils and subsoil characterised according to depth, texture, structure and content of particles and organic material, stoniness, erosion, where appropriate mean slope and anticipated water storage capacity.

4. Land use

Territory characterised according to its current and future planned functional dimension or socio-economic purpose (*e.g.* residential, industrial, commercial, agricultural, forestry, recreational).

5. Human health and safety

Geographical distribution of dominance of pathologies (allergies, cancers, respiratory diseases, etc.), information indicating the effect on health (biomarkers, decline of fertility, epidemics) or well-being of humans (fatigue, stress, etc.) linked directly (air pollution, chemicals, depletion of the ozone layer, noise, etc.) or indirectly (food, genetically modified organisms, etc.) to the quality of the environment.

6. Utility and governmental services

Includes utility facilities such as sewage, waste management, energy supply and water supply, administrative and social governmental services such as public administrations, civil protection sites, schools and hospitals.

7. Environmental monitoring facilities

Location and operation of environmental monitoring facilities includes observation and measurement of emissions, of the state of environmental media and of other ecosystem parameters (biodiversity, ecological conditions of vegetation, etc.) by or on behalf of public authorities.

8. Production and industrial facilities

Industrial production sites, including installations covered by Council Directive 96/61/EC of 24 September 1996 concerning integrated pollution prevention and control and water abstraction facilities, mining, storage sites.

9. Agricultural and aquaculture facilities

Farming equipment and production facilities (including irrigation systems, greenhouses and stables).

10. Population distribution — demography

Geographical distribution of people, including population characteristics and activity levels,

aggregated by grid, region, administrative unit or other analytical unit.

11. Area management/restriction/regulation zones and reporting units

Areas managed, regulated or used for reporting at international, European, national, regional and local levels. Includes dumping sites, restricted areas around drinking water sources, nitrate-vulnerable zones, regulated fairways at sea or large inland waters, areas for the dumping of waste, noise restriction zones, prospecting and mining permit areas, river basin districts, relevant reporting units and coastal zone management areas.

12. Natural risk zones

Vulnerable areas characterised according to natural hazards (all atmospheric, hydrologic, seismic, volcanic and wildfire phenomena that, because of their location, severity, and frequency, have the potential to seriously affect society), *e.g.* floods, landslides and subsidence, avalanches, forest fires, earthquakes, volcanic eruptions.

13. Atmospheric conditions

Physical conditions in the atmosphere. Includes spatial data based on measurements, on models or on a combination thereof and includes measurement locations.

14. Meteorological geographical features

Weather conditions and their measurements; precipitation, temperature, evapotranspiration, wind speed and direction.

15. Oceanographic geographical features

Physical conditions of oceans (currents, salinity, wave heights, etc.).

16. Sea regions

Physical conditions of seas and saline water bodies divided into regions and sub-regions with common characteristics.

17. Bio-geographical regions

Areas of relatively homogeneous ecological conditions with common characteristics.

18. Habitats and biotopes

Geographical areas characterised by specific ecological conditions, processes, structure, and (life support) functions that physically support the organisms that live there. Includes terrestrial and aquatic areas distinguished by geographical, abiotic and biotic features, whether entirely natural or semi-natural.

19. Species distribution

Geographical distribution of occurrence of animal and plant species aggregated by grid, region, administrative unit or other analytical unit.

20. Energy resources

Energy resources including hydrocarbons, hydropower, bio-energy, solar, wind, etc., where relevant including depth/height information on the extent of the resource.

21. Mineral resources



Mineral resources including metal ores, industrial minerals, etc., where relevant including depth/height information on the extent of the resource.



2. Description of the Evoltree Template

Note : As far as possible, we tried to develop templates in conformity with the INSPIRE directive.

2.1. The ISO19115:2003 / ISO19139:2007 Part

Thumbnail.

Name by which the cited resource is known.

Mode in which the resource is represented.

Brief narrative summary of the content of the resource(s).

Summary of the intentions with which the resource(s) was developed.

Status of the resource(s).

Point of contact to get more detail about the dataset.

As other fields it can be automatically filled in with the use of the template.

Note : Several points of contact are possible. But one author is mandatory for publication references.

Provides category keywords, their type and reference source.

Note : Keywords coming from the thesaurus ie included in the

Biological and physical template

To assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource.

Special restrictions or limitation or warning on using the resource

Other restrictions and legal prerequisites for accessing and using the resource.

Method used to spatially represent the geographic information.(vector,raster,...).

The scale denominator.

Resolution distance and unit.

Language used for documenting data.

Refer to Iso Topic.

Geographic boundaries of the dataset.

Time period covered by the content of the dataset.

Any other descriptive information about the dataset in text format.

Use Limitation

Access Constraints

Use Constraints

Other Constraints

Spatial Representation Type

Equivalent scale

Denominator

Distance

[Uom]

Distance

Language

Character Set

Topic Category Code

Extent

Geographic bounding box

World

North bound latitude

West bound longitude

East bound longitude

South bound latitude

Extent

Temporal Extent

Identifier

Begin Date

End Date

Supplemental Information



Function of the responsible party.
 Fee and terms for retrieving the resource, include monetary unit (ISO 4217)
 Online resource : Link, interactive maps, ...
 Connexion protocol tu be used.
 Description of the Online resources
 ...

Distribution info [x]

Distributor

Role *

Fees [x]

OnLine resource

URL

Protocol [x]

Description * [x]

OnLine resource

URL

Protocol [x]

Description * [x]

Alphanumeric code identifying the geographic reference system. (EPSG code 4326 is latitude longitude projection code)

Reference system info [+][x]

Code *

Hierarchical level of the data specified by the scope

Data quality info [+][x]

Hierarchy Level

Title [i]

Date

Date Type

Explanation [i]

Pass

Statement [x][i]

Name of the control.

Date of control.

Even use for reference the date.

Explanation of the meaning of the conformance for this result.

Conformance result for Inspire : 1 = Conformant, 2 = not conformant, 3 Not evaluated.

And general explanation of the data producer knowledge about the lineage of the dataset

Metadata

File Identifier

Language [x]

Character Set

Hierarchy Level [+][x]

Date Stamp

Metadata Standard Name

Metadata Standard Version

Maintenance And Update Frequency

Unique identifier for the metadata file.

Language used for documenting metadata.

Character coding standard (utf8).

Hierarchical level of the dataset specified by the scope.

Date that the metadata was created

Metadata standard name : ISO 19115:2003/19139

Metadata standard version : 1.0

Frequency with which changes and additions are made to the ressource.

Metadata author [+]

Individual Name [x][i]

Organisation Name [x][i]

Voice [+][i]

Facsimile [+][x][i]

Delivery Point [+][x][i]

City [x][i]

Administrative Area [x][i]

Postal Code [x][i]

Country [x][i]

Electronic Mail Address [+][x][i]

Role

Party responsible of the metadata informations

Contact to get more detail about the metadata or dataset. As other fields it can be automatically filled in when using the template. (Several Metadata author is possible)





2.2. Biological Template

The Biological template is defined by the list of keywords below.

Altitude range	Management	Boundaries	Species	Information level	Material	Life stage	Life history traits
Maximum	Ecological engineering	Administrative	Abies alba	Community	Leaf	Adult	Dispersal
Minimum	No management	Management	Abies cephalonica	Individual	Pollen	Juvenile	Growth
	Silviculture		..	Landscape	Root		Mortality
			Population	Seed	Phenology		
			Species	Spore	Reproduction		
			Tissues	Stem			

Demography	Dendrometry	Physiology	Pests, diseases and hazards	Molecular markers	DNA-RNA type	conditions of observations
Abundance	Biomass	Drought tolerance	Abiotic hazard	AFLP	Chloroplastic	Controlled conditions
Age	Diameter	Pest and disease resistance	Bacteria	EST	Mitochondria	In situ
Density	Height	Photosynthesis	Fungi	Isozyme	Nuclear	Lab
Fertility	Length		Game	RAPD		
Growth rate	Volume		Grazing	RFLP		
Mortality			Insects	SSR		
Population size			Virus	Terpene		

2.3. Physical Template

The Physical template is defined by the list of the keywords below.

Altitude range	Climate	Spatial resolution	Soil	Data type	Image type	Temporal resolution
Maximum	Frost	m (EW)	Depth	Direct measure	Aerial picture	Annually
Minimum	Radiation	m (NS)	Fertility	Prediction	Ground picture	As needed
	Rainfall		Ph		Hemispherical photograph	Biannually
	Temperature		Texture		Infra-red	Continual
	Wind		Water table		Multispectral	Daily
					Panchromatic	Decade
					Satellite picture	Fortnightly
						Irregular
						Monthly
						Not planned
						Punctual
						Quarterly
						Weekly
						Yearly

2.4. Others

GEMET	EVOLTREE
forest	
ecosystem	
forestry	

Note : You can get more details about all these keywords and definitions at the end of part 3.

3. ISO19139 Details and Descriptions of Template Fields

3.1. Identification Infos

Proper identification of the spatial dataset, spatial dataset series and spatial data services are necessary for the implementation of the information system in order to use the value of the data.

a) Title

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource title	Title
EN ISO 19115 definition	Name by which the cited resource is known	This is a characteristic and often-unique name by which the resource is known.
EN ISO 19115 number and name	360 title	
ISO TS 19139 path	./identificationInfo/citation/*/title/text()	
INSPIRE obligation / Condition	Mandatory	
INSPIRE multiplicity	[1]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions		Title - ISS Name
Example	Mastermap	Beech seedlings - N2 - Ventoux
Comment		The name may contain basic information about a resource such as a geographic and/or thematic description, it is an important element for the identification of the resource (by human users).

b) Presentation Form

	Inspire specification	Evoltree supplemental detail
Metadata element name		Presentation form
EN ISO 19115 definition		Mode in which the document is represented
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		Mandatory in ISO19115:2003
INSPIRE multiplicity		[1..*]
Data type		CI_Form
Domain		<ul style="list-style-type: none"> ● document digital / hardcopy ● image digital / hardcopy ● map digital / hardcopy ● model digital / hardcopy ● profile digital / hardcopy

EVOLTREE		
		<ul style="list-style-type: none"> ● table digital / hardcopy ● video digital / hardcopy
Implementing instructions		
Example		document digital
Comment		This field is not mandatory by INSPIRE but is mandatory by the ISO 19115, moreover it look interesting for our needs.

c) Abstract

	Inspire specification	Evoltree supplemental detail
Metadata element name	Abstract	
EN ISO 19115 definition	Brief narrative summary of the content of the resource(s)	
EN ISO 19115 number and name	25 abstract	
ISO TS 19139 path	identificationInfo// abstract*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions		
Example	Dataset contains large scale (1:1.000) topography, which covers the whole country	
Comment		This part also includes the citation reference of the data if exists

d) Purpose

	Inspire specification	Evoltree supplemental detail
Metadata element name		Purpose
EN ISO 19115 definition		Summary of the purposes for your dataset to be developed.
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		Mandatory in ISO19115:2003
INSPIRE multiplicity		[1]
Data type		CharacterString
Domain		Free text
Implementing instructions		
Example		In situ gene conservation of target species
Comment		This field is not mandatory by INSPIRE but is mandatory by the ISO 19115, moreover it looks

EVOLTREE	
	interesting for our needs. We use it for numerical specification like altitude range and spatial resolution

e) Status

	Inspire specification	Evoltree supplemental detail
Metadata element name		Status
EN ISO 19115 definition		Status of the resource
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		Mandatory in ISO19115:2003
INSPIRE multiplicity		[1]
Data type		CI_Statut
Domain		Completed / Historical archive / On going / Planned / Under development
Implementing instructions		
Example		Completed
Comment		This field is not mandatory by INSPIRE but is mandatory by the ISO 19115, moreover it looks interesting for our needs.

f) Point of Contact

Individual Name

	Inspire specification	Evoltree supplemental detail
Metadata element name		Individual name
EN ISO 19115 definition		Name of the responsible person- surname, given name, title separated by a delimiter
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		Mandatory in ISO19115:2003
INSPIRE multiplicity		[1]
Data type		CharacterString
Domain		Free text
Implementing instructions		
Example		Pichot
Comment		This field is not mandatory by INSPIRE but is mandatory by the ISO 19115, moreover it looks interesting for our needs.

Organisation Name

	Inspire specification	Evoltree supplemental detail
Metadata element name	Responsible party – organisation name	organisation name
EN ISO 19115 definition	name of the responsible organisation	
EN ISO 19115 number and name	376 CI_ResponsibleParty	
ISO TS 19139 path	identificationInfo// pointOfContact// organisationName/*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	Character string	
Domain	Free text	
Implementing instructions	Use the full name of the responsible organisation. The abbreviations can be in addition to the organisation name.	
Example	European Commission Joint Research Centre (JRC)	
Comment		

Position name - Voice - Facsimile - Delivery point - City - Administrative area - Postalcode - Country - Electronic mail address

	Inspire specification	Evoltree supplemental detail
Metadata element name	Responsible party – contact info	Position name Voice Facsimile Delivery point City Administrative area Postal code Country Electronic mail address
EN ISO 19115 definition	address of the responsible party	Function performed by the responsible party Telephone number at which the organization or individual may be contacted Telephone number of a facsimile machine for the responsible organization or individual Address line for the location City of the location Administrative area of the location ZIP or other postal code Country of the physical address Address of the electronic mailbox of the responsible organization or individual
EN ISO 19115 number and name	378 contactInfo	
ISO TS 19139 path	identificationInfo// pointOfContact// contactInfo/*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	Class	

EVOLTREE		
Domain	CI_Contact	
Implementing instructions	electronicMailAddress of element 389 (address) is mandatory For privacy reasons, avoid e-mail address of named persons.	We will see what the IPDUC say about the named persons.
Example	webmaster@thisorg.com info@thatorg.eu	
Comment		INSPIRE focus on email for contact person but other interesting elements are present on point of contact and they may be interesting for our need.

Rôle

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource responsible party – role	role
EN ISO 19115 definition	function performed by the responsible party	
EN ISO 19115 number and name	379 role	
ISO TS 19139 path	identificationInfo// pointOfContact// role/*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	code list	
Domain	CI_RoleCode (Annex B of EN ISO 19115:2003)	
Implementing instructions		
Example	Owner	
Comment		For our need the default value in the template is point of contact

g) Descriptive Keywords

Keyword

	Inspire specification	Evoltree supplemental detail
Metadata element name	Keywords	
EN ISO 19115 definition	Commonly used word(s) or formalised word(s) or phrase(s) used to describe the subject	
EN ISO 19115 number and name	53 keyword	
ISO TS 19139 path	MD_Metadata.identificationInfo>MD_Identification. descriptiveKeywords>MD_Keywords.keywords identificationInfo/*/descriptiveKeywords/*/keyword/ /text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	CharacterString	
Domain	Free text	

EVOLTREE		
Implementing instructions		
Example	Hydrography, river	
Comment		For the inspire conformance we need to integrate at least one keyword coming from the GEMET thesaurus The other descriptives keyword will come from our Evoltree Thesaurus.

Title-Date-Date Type

	Inspire specification	Evoltree supplemental detail
Metadata element name	Originating controlled vocabulary	Title Date Date type
EN ISO 19115 definition	Name of the formally registered thesaurus or a similar authoritative source of keywords	Describe the thesaurus used.
EN ISO 19115 number and name	55 ThesaurusName	
ISO TS 19139 path	MD_Metadata.identificationInfo>MD_Identification. descriptiveKeywords>MD_Keywords.thesaName identificationInfo/*/descriptiveKeywords/*/thesaName/text()	
INSPIRE obligation / Condition	C/If keyword originates from a controlled vocabulary	
INSPIRE multiplicity	[0..*]	
Data type	CharacterString	CharacterString Date Date type
Domain	CI_Citation	FreeText Described in EN ISO 19108 and ISO 8601 Creation, publication, revision
Implementing instructions		
Example	CI_Citation CI_Citation Title: GEMET Thesaurus version 1.0 CI_Date dateType: 002 date: 20090630	
Comment		The template will manage this part. You do not have to care about it.

h) Use Limitation

	Inspire specification	Evoltree supplemental detail
Metadata element name	Limitations on public access	
EN ISO 19115 definition	handling restrictions imposed on the resource or metadata for national security or similar security concerns	
EN ISO 19115 number and name	73. MD_SecurityConstraints	

EVOLTREE		
ISO TS 19139 path		
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	Specified class (MD_Constraints)	
Domain	Lines 74-77 and 68 of EN ISO 19115	
Implementing instructions		
Example		
Comment		Specification of the use limitation of the metadata IPDUC will certainly define this point

i) Access Constraints

	Inspire specification	Evoltree supplemental detail
Metadata element name	Limitation on public access	Access constraints
EN ISO 19115 definition	Access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource.	
EN ISO 19115 number and name	70	
ISO TS 19139 path	identificationInfo[1]/*/resourceConstraints/*/accessConstraints	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*] for the resource but there are zero or many limitations on public access per instance of MD_Constraints.	
Data type	MD_RestrictionCode	
Domain	Codelist (strictly limited to the value defined in B.5.24 of ISO 19115)	
Implementing instructions		
Example	intellectualPropertyRights (rights to financial benefit from and control of distribution of non-tangible property that is a result of creativity).	
Comment		The IPUDC will certainly define the constraints to specify

j) Use Constraints

	Inspire specification	Evoltree supplemental detail
Metadata element name	Conditions for access and use - general	
EN ISO 19115 definition	constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations or warnings on using the resource or metadata.	
EN ISO 19115 number and name	71. useConstraints	
ISO TS 19139 path	//identificationInfo//resourceConstraints//useConstrai	

EVOLTREE		
	nts/*text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	Class	
Domain	MD_RestrictionCode	
Implementing instructions		
Example		
Comment		The IPUDC will certainly define the constraints to specify

k) Other Constraints

	Inspire specification	Evoltree supplemental detail
Metadata element name	otherConstraints	
EN ISO 19115 definition	other restrictions and legal prerequisites for accessing and using the resource or metadata.	
EN ISO 19115 number and name	72	
ISO TS 19139 path	identificationInfo[1]/*resourceConstraints/*otherConstraints	
INSPIRE obligation / Condition	C	If necessary, the really mandatory item is the access and use constraints part
INSPIRE multiplicity	[0..*]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions		
Example		
Comment		The IPUDC will certainly define the constraints to specify.

l) Spatial Representation Type

	Inspire specification	Evoltree supplemental detail
Metadata element name		Spatial representation type
EN ISO 19115 definition		Method used to spatially represent your data.
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		List
Domain		The options are: vector, grid, text table, stereo

EVOLTREE		
		model, video.
Implementing instructions		
Example		vector.
Comment		This field is not mandatory by INSPIRE but is mandatory by the ISO 19115, moreover it looks interesting for our needs.

m) Equivalent Scale

Denominator

	Inspire specification	Evoltree supplemental detail
Metadata element name	Equivalent scale	Denominator
EN ISO 19115 definition	level of detail expressed as the scale of a comparable hardcopy map or chart	
EN ISO 19115 number and name	60 equivalentScale	
ISO TS 19139 path	//identificationInfo//spatialResolution//equivalentScale//denominator	
INSPIRE obligation / Condition	C (equivalent scale or resolution distance is mandatory for dataset and dataset series for which a unique equivalent scale or resolution distance can be specified)	
INSPIRE multiplicity	[0..1]	
Data type	Integer	
Domain	>0	
Implementing instructions		
Example	50000	
Comment		Each spatial resolution is either an equivalent scale or a ground sample distance. when two equivalent scales or two ground sample distances are expressed the spatial resolution is an interval bonded by these two values

n) Distance – UOM

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resolution distance	gco:Distance Uom
EN ISO 19115 definition	ground sample distance	Distance is the distance Uom is the unit of measurement
EN ISO 19115 number and name	61 distance	

EVOLTREE		
ISO TS 19139 path	//identificationInfo//spatialResolution//distance	
INSPIRE obligation / Condition	C (equivalent scale or resolution distance has to be mandatory for dataset and dataset series)	
INSPIRE multiplicity	[0..1]	
Data type	Integer	
Domain	Metres	
Implementing instructions		The meter is mandatory for the UOM
Example	3	
Comment		Each spatial resolution is either an equivalent scaler or a ground sample distance. when two equivalent scales or two ground sample distances are expressed the spatial resolution is an interval bonded by these two values

o) Language

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource language	Language
EN ISO 19115 definition	Language(s) used within the datasets	
EN ISO 19115 number and name	39 language	
ISO TS 19139 path	identificationInfo/*/language/*/text()	
INSPIRE obligation / Condition	C (mandatory when there is textual information in the resource)	
INSPIRE multiplicity	[0..*]	
Data type	CharacterString	
Domain	Alpha-3 code of ISO 639-2	
Implementing instructions	Use only three-letter codes defined in ISO 639-2/B (bibliographic codes), defined at http://www.loc.gov/standards/iso639-2/ .	
Example	The list of codes for the 23 official EU languages is: Bulgarian – bul Czech – cze Danish – dan Dutch – dut English – eng Estonian – est Finnish – fin French – fre German – ger Greek – gre Hungarian – hun Irish – gle Italian – ita Latvian – lav Lithuanian – lit Maltese – mlt Polish – pol Portuguese – por Romanian – rum	

EVOLTREE		
	Slovak – slo Slovenian – slv Spanish – spa Swedish – swe	
Comment	In the case of INSPIRE the concept "datasets" can be extended to also cover services i.e. the definition of the element is: "Language(s) used within the resource".	

p) Character Set

	Inspire specification	Evoltree supplemental detail
Metadata element name		Character set
EN ISO 19115 definition		Full name of the character coding standard used for the metadata set.
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		
Domain		
Implementing instructions		UT8 is used by the geonetwork metadata tool
Example		UTF8
Comment		The value is set automatically

q) Topic Category Code

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource topic category	Topic category code
EN ISO 19115 definition	Main theme(s) of the dataset	
EN ISO 19115 number and name	41 topicCategory	
ISO TS 19139 path	identificationInfo/*/topicCategory/*/text()	
INSPIRE obligation / Condition	C (mandatory for datasets and dataset series)	
INSPIRE multiplicity	[0..*]	
Data type	Code list	
Domain	Code list B.5.27 in Annex B of ISO 19115:2003	
Implementing instructions	Annex E defines the mapping from the INSPIRE spatial data themes to the ISO dataset topic category.	
Example	boundaries	environment



Comment		environnement is the default value of the template
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r) Geographic Bounding Box

	Inspire specification	Evoltree supplemental detail
Metadata element name	Geographic bounding box	North bound latitude South bound latitude West bound longitude East bound longitude
EN ISO 19115 definition	Geographic extent of the resource – EX_GeographicBoundingBox Western-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east) Eastern-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east) Southern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north) Northern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north)	
EN ISO 19115 number and name	344 westBoundLongitude 345 eastBoundLongitude 346 southBoundLatitude 347 northBoundLatitude	
ISO TS 19139 path	identificationInfo//extent//geographicElement/*/westBoundLongitude//text() identificationInfo//extent//geographicElement/*/eastBoundLongitude//text() identificationInfo//extent//geographicElement/*/southBoundLongitude//text() identificationInfo//extent//geographicElement/*/northBoundLongitude//text()	
INSPIRE obligation / Condition	C (EX_GeographicBoundingBox is mandatory for datasets, dataset series and for services for which geographic extent is relevant)	
INSPIRE multiplicity	[1..*] (spatial data sets and spatial dataset series) [0..*] (spatial data services)	
Data type	Decimal	
Domain	-180.00 <= West Bounding Longitude Value <= 180.00 -180.00 <= East Bounding Longitude Value <= 180.00 -90.00 <= South Bounding Latitude Value <= 90.00; South Bounding Latitude Value <= North bounding Latitude Value -90.00 <= North Bounding Latitude Value <= 90.00; North Bounding Latitude Value >= South Bounding Latitude Value	
Implementing instructions	The bounding box shall be as small as possible; the latitude and longitude values shall be provided with	

EVOLTREE		
	at least two decimals.	
Example	2.50 5.80 51.80 54.60	
Comment		The list of predetermined bounding box can be used to facilitate the fill in off the fields

s) Temporal Extent

	Inspire specification	Evoltree supplemental detail
Metadata element name	Date – temporal extent	Extent-Temporal extent
EN ISO 19115 definition	Date and time for the content of the dataset	
EN ISO 19115 number and name	351 extent	
ISO TS 19139 path	identificationInfo//extent//temporalElement	
INSPIRE obligation / Condition	C (mandatory when it is meaningful for discovering and selecting the resource)	
INSPIRE multiplicity	[0..*] (because this is a set of intervals; each interval consists of 2 DateTimes [0..2])	
Data type	Time Period or TimeInstant1	
Domain	Described in ISO 19108 and ISO 8601	
Implementing instructions		
Example	1977-03-10T11:45:30 (YYYY-MM-DDThh:mm:ss) 2005-01-15T09:10:00 (YYYY-MM-DDThh:mm:ss)	
Comment	A set of intervals (expressed as two dates and times) will be presented. Interval sub-types are supported, as follows: instant, set of instants, composite intervals, period, set of periods.	

t) Supplemental Information

	Inspire specification	Evoltree supplemental detail
Metadata element name		Supplemental information
EN ISO 19115 definition		Any other descriptive information about the dataset
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		If necessary not mandatory by the Inspire and ISO 19139
INSPIRE multiplicity		
Data type		
Domain		
Implementing instructions		

EVOLTREE		
Example		
Comment		I maybe used for making the link with genotype database or other.

3.2. Distribution Info

a) Role

	Inspire specification	Evoltree supplemental detail
Metadata element name		Distributor - Role
EN ISO 19115 definition		Function performed by the responsible party
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		code list
Domain		CI_RoleCode (Annex B of EN ISO 19115:2003)
Implementing instructions		
Example		Owner
Comment		

b) Fees

	Inspire specification	Evoltree supplemental detail
Metadata element name	Conditions for access and use – corresponding fees	Fees
EN ISO 19115 definition	Fees and terms for retrieving the resource. Includes monetary units (as specified in ISO 4217)	
EN ISO 19115 number and name	299 fees	
ISO TS 19139 path	//distributionInfo//distributor//distributionOrderProcesses//fees/*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions	This element provides information on any fees necessary to access and use the resource, or refer to a Uniform Resource Locator (URL) where this information is available. If no fees required specify “No fees”	
Example		
Comment		



c) Online Resource (connect point : Distributor-OnLine ressource)

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource locator - connect point	online resource -URL online resource – Protocol online resource - Description
EN ISO 19115 definition	Handle for accessing the service interface.	
EN ISO 19119 number and name	connectPoint	
CSW2 AP ISO path	identificationInfo// containsOperations// connectPoint//linkage/*/text()	
INSPIRE obligation / Condition	C (mandatory if the resource is a service)	
INSPIRE multiplicity	[0..*]	
Data type	CharacterString	
Domain	URL	
Implementing instructions		
Example	http://www.geoserver.nrw.de/GeoOgcWms1.3/servlet/GEPNRW	
Comment		The locator defines the link to the service. By default the link points to the Evoltree portal

d) Online Resource (linkage)

URL

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource locator – linkage	online resource -URL
EN ISO 19115 definition	Location (address) for on-line access using a Uniform Resource Locator address or similar addressing scheme	
EN ISO 19115 number and name	397 linkage	
ISO TS 19139 path	distributionInfo// transferOptions// onLine// linkage/*/text()	
INSPIRE obligation / Condition	C (When a linkage to the resource or a contact point for more information about the resource is available)	
INSPIRE multiplicity	[0..*]	
Data type	URL	
Domain	URL (IETF RFC1738 IETF RFC 2056)	
Implementing instructions	Specify a valid URL to a dataset/dataset series or a service. If no direct link to a resource is available, provide link to a point of contact where more information about the resource is available.	
Example	http://www.geonorge.no	
Comment		The resource locator defines the link(s) to obtain more information on the resource, and/or to one or more spatial data service, if available, to view,

		download, or process in other ways the resource.
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Protocole

	Inspire specification	Evoltree supplemental detail
Metadata element name		online resource -Protocol
EN ISO 19115 definition		Connexion protocol tu be used
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		C If URL specified protocol is mandatory
INSPIRE multiplicity		[1]
Data type		List
Domain		
Implementing instructions		Web address for URL OGC Web Map Service for interactive map
Example		
Comment		

Name

	Inspire specification	Evoltree supplemental detail
Metadata element name		online resource -Name
EN ISO 19115 definition		Name of the series or aggregated datasets, of which the dataset is a part.
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		C (Mandatory for interactive map)
INSPIRE multiplicity		[1]
Data type		Characters String
Domain		Free text
Implementing instructions		Identifier of the maps
Example		VentouxScan25
Comment		

Description

	Inspire specification	Evoltree supplemental detail
Metadata element name		online resource -Description
EN ISO 19115 definition		
EN ISO 19115 number and name		
ISO TS 19139 path		

EVOLTREE		
INSPIRE obligation / Condition		C (add description for interactive maps)
INSPIRE multiplicity		[0..1]
Data type		Characters String
Domain		Free text
Implementing instructions		
Example		Scan 25 of the ISS ventoux.
Comment		

3.3. Reference System Info – Code

	Inspire specification	Evoltree supplemental detail
Metadata element name		Code
EN ISO 19115 definition		Alphanumeric value identifying an instance in the namespace
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		Characters string
Domain		Free text
Implementing instructions		EPSG code
Example		EPSG:4326
Comment		EPSG:4326 for the latitude longitude. projection.

3.4. Data Quality Info

a) Hierarchy Level

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource Type	Hierarchy level
EN ISO 19115 definition	Scope to which metadata applies	
EN ISO 19115 number and name	6 hierarchyLevel	
ISO TS 19139 path	./hierarchyLevel/*/text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CodeList	
Domain	MD_ScopeCode (Annex B of EN ISO 19115:2003)	
Implementing instructions		

EVOLTREE		
Example	dataset	
Comment	For INSPIRE only the values “dataset”, “series” and “service” are valid	

b) Title - Date - Date Type

	Inspire specification	Evoltree supplemental detail
Metadata element name	Specification	Title Date Date type
EN ISO 19115 definition	citation of product specification or user requirement against which data is being evaluated	
EN ISO 19115 number and name	130 specification	
ISO TS 19139 path	//DQ_ConformanceResult//specification //dataQualityInfo//report/DQ_DomainConsistency/result/DQ_ConformanceResult/specification	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1..*]	
Data type	Class	
Domain	CI_Citation	
Implementing instructions		
Example	CI_Citation Title: INSPIRE Implementing rules laying down technical arrangements for the interoperability and harmonisation of administrative boundaries CI_Date dateType: 002 date: 20090515	
Comment		The default value in the template is related to the INSPIRE conformance quality But others can be added.

c) Explanation

	Inspire specification	Evoltree supplemental detail
Metadata element name	Explanation	
EN ISO 19115 definition	explanation of the meaning of conformance for this result	
EN ISO 19115 number and name	131 explanation	
ISO TS 19139 path	//DQ_ConformanceResult//specification //dataQualityInfo//report/DQ_DomainConsistency/result/DQ_ConformanceResult/explanation	
INSPIRE obligation / Condition	O	
INSPIRE multiplicity	[0..*]	

EVOLTREE		
Data type	CharacterString	
Domain	Free text	
Implementing instructions	Provide the default value: "Conformance has been demonstrated by using the INSPIRE conformance testing procedures for this specification."	
Example		
Comment		

d) Pass

	Inspire specification	Evoltree supplemental detail
Metadata element name	Conformity - degree European Commission	Pass result
EN ISO 19115 definition	Degree of conformity with the product specification or user requirement against which data is being evaluated	
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition	Mandatory - 003 (Conditional)	
INSPIRE multiplicity	[1..*]	
Data type	Class	
Domain	IR_ConformityDegreeCode << CodeList>>	
Implementing instructions		
Example		0/1
Comment		

e) Statement

	Inspire specification	Evoltree supplemental detail
Metadata element name	Lineage	Statement
EN ISO 19115 definition	General explanation of the data producer's knowledge about the lineage of a dataset	
EN ISO 19115 number and name	83 statement	
ISO TS 19139 path	//dataQualityInfo//lineage//statement	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions	In addition to general explanation of the data producer's knowledge about the lineage of a dataset it is possible to give here data quality statements.	



Example	Data have been digitised from the standard 1:5.000 map	
Comment		

3.5. Metadata

a) File Identifier

	Inspire specification	Evoltree supplemental detail
Metadata element name	Unique resource identifier	File identifier
EN ISO 19115 definition	value uniquely identifying an object within a namespace	
EN ISO 19115 number and name	207 code	
ISO TS 19139 path	/identificationInfo// citation//identifier//code	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CharacterString	
Domain	Free text	
Implementing instructions		
Example	527c4cac-070c-4bca-9aaf-92bece7be902	
Comment		The value is automatically filled in.

b) Language

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource language	Language
EN ISO 19115 definition	Language used for documenting metadata	
EN ISO 19115 number and name	3 language	
ISO TS 19139 path	./language	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	Code list	
Domain	Alpha-3 code of ISO 639-2	
Implementing instructions		English is mandatory for the metadata
Example	dut, nor	English
Comment		

c) Character Set

	Inspire specification	Evoltree supplemental detail
Metadata element name		Character set



EN ISO 19115 definition		Full name of the character coding standard used for the metadata set.
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		
Domain		
Implementing instructions		UT8 is used by the geonetwork metadata tool
Example		UTF8
Comment		The value is set automatically

d) Hierarchy Level

	Inspire specification	Evoltree supplemental detail
Metadata element name	Resource Type	Hierarchy level
EN ISO 19115 definition	Scope to which metadata applies	
EN ISO 19115 number and name	6 hierarchyLevel	
ISO TS 19139 path	./hierarchyLevel/*text()	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	CodeList	
Domain	MD_ScopeCode (Annex B of EN ISO 19115:2003)	
Implementing instructions		
Example	dataset	
Comment	For INSPIRE only the values “dataset”, “series” and “service” are valid	

e) Date Stamp

	Inspire specification	Evoltree supplemental detail
Metadata element name	Metadata date	Date stamp
EN ISO 19115 definition	Date that the metadata was created	
EN ISO 19115 number and name	9 dateStamp	
ISO TS 19139 path	./dateStamp	
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	

EVOLTREE		
Data type	Date	
Domain	ISO 8601	
Implementing instructions		
Example	2005-03-27 (YYYY-MM-DD)	
Comment		Automatically filled in

f) Metadata Standard Name

	Inspire specification	Evoltree supplemental detail
Metadata element name		Metadata standard name
EN ISO 19115 definition		Name of the metadata standard used (including profile name)
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		Characters string
Domain		
Implementing instructions		
Example		ISO 19115:2003/19139
Comment		Automatically filled in

g) Metadata Standard Version

	Inspire specification	Evoltree supplemental detail
Metadata element name		Metadata Standard version
EN ISO 19115 definition		
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		Character string
Domain		X.X
Implementing instructions		
Example		1.0
Comment		Automatically filled in



h) Maintenance and Update Frequency

	Inspire specification	Evoltree supplemental detail
Metadata element name		Maintenance and update frequency
EN ISO 19115 definition		Frequency with which changes and additions are made to the resource after the initial resource is completed
EN ISO 19115 number and name		
ISO TS 19139 path		
INSPIRE obligation / Condition		M
INSPIRE multiplicity		[1]
Data type		List
Domain		unknown / continuous / as needed / irregular / not planned / monthly /
Implementing instructions		
Example		Continuous
Comment		

i) Metadata Author

	Inspire specification	Evoltree supplemental detail
Metadata element name	Metadata author	Individual name Position name Voice Facsimile Delivery point City Administrative area Postal code Country Electronic mail address Role
EN ISO 19115 definition	party responsible for the metadata information	Name of the responsible person Function performed by the responsible party Telephone number at which the organization or individual may be contacted Telephone number of a facsimile machine for the responsible organization or individual Address line for the location City of the location Administrative area of the location ZIP or other postal code Country of the physical address Address of the electronic mailbox of the responsible organization or individual Function performed by the responsible party
EN ISO 19115 number and name	8 contact	

EVOLTREE		
ISO TS 19139 path		
INSPIRE obligation / Condition	M	
INSPIRE multiplicity	[1]	
Data type	Class	
Domain	CI_ResponsibleParty	
Implementing instructions		We will see what the IPDUC say about the named persons.
Example		
Comment		INSPIRE focus on email for contact person but other interesting elements are present on point of contact and they may are interesting for our need.

4. Keywords Definition

4.1. Common Part

a) Altitude Range

This part is on the keyword list but not on the keyword's template because this is numerical values so it is now present in the purpose part.

Label	Definition
Altitude range	minimum and maximum elevations (m)
Maximum	maximum value (m)
Minimum	minimum value (m)

4.2. Biological Part

a) Management

Label	Definition
Management	type of forest management
Ecological engineering	ecological and sustainable forest management
No management	no forest management
Silviculture	forest silviculture management

b) Boundaries

Label	Definition
Boundaries Administrative	type of geographic limits administrative limits
Management	management limits

c) Species

Label	Definition
Species	species latin name
Abies alba	
Abies cephalonica	
Abies cilicica	
Abies concolor	
Abies numidica	
Abies pinsapo	
Acer campestre	
Acer monspessulanum	
Acer opalus	
Acer platanoides	
Alnus cordata	
Alnus glutinosa	
Betula pubescens	
Betula sp.	
Carpinus betulus	
Castanea sativa	
Cedrus atlantica	
Cedrus libani	
Corylus avellana	
Crataegus azarolus	
Crataegus sp.	
Fagus sylvatica	
Fraxinus angustifolia	
Fraxinus excelsior	
Glomus sp.	
Juglans regia	
Laccaria sp.	
Larix decidua	
Limantria sp.	
Picea abies	

EVOLTREE

Pinus brutia	
Pinus halepensis	
Pinus nigra	
Pinus pinaster	
Pinus pinea	
Pinus sylvestris	
Pinus uncinata	
Populus alba	
Populus nigra	
Populus tremula	
Populus tremuloides	
Prunus avium	
Pseudotsuga mensiezii	
Quercus coccifera	
Quercus ilex	
Quercus petraea	
Quercus pubescens	
Quercus pyrenaica	
Quercus robur	
Quercus suber	
Sorbus domestica	
Taxus baccata	
Tilia sp.	
Ulmus minor	

d) Information Level

Label	Definition
Information level	living organism level addressed (from community to individual)
Community	coexisting species in one habitat
Individual	single individuals
Landscape	landscape
Population	group of individuals from one species
Species	single species
Tissues	organ or tissues



e) Material

Label	Definition
Material	type of organs or samples
Leaf	leaf
Pollen	pollen and pollen grain
Root	root
Seed	seed
Spore	spore
Stem	stem

f) Life Stage

Label	Definition
Life stage	sexual maturity stage
Adult	sexual maturity
Juvenile	before sexual maturity

g) Life History Traits

Label	Definition
Life history traits	life history traits
Dispersal	seed, pollen, individual...dispersal rate or process
Growth	growth level or process
Mortality	mortality level or process
Phenology	vegetative or sexual phenology
Reproduction	reproduction level or process

h) Demography

Label	Definition
Demography	demographic parameters
Abundance	local abundance of the species (relative or absolute)
Age	individual age
Density	population density
Fertility	fertility rate (gametes or offsprings)
Growth rate	population (or organ) growth rate
Mortality	mortality rate
Population size	population size

i) Dendrometry

Label	Definition
Dendrometry	dendrometric parameters
Biomass	total biomass, weight or increment
Diameter	total diameter or increment
Height	total height or increment
Length	total length or increment
Volume	total volume or increment

j) Physiology

Label	Definition
Physiology	physiological and ecophysiological parameters
Drought tolerance	drought tolerance level or process
Pest and disease resistance	pest and disease resistance
Photosynthesis	photosynthesis parameters

k) Pest Diseases and Hazards

Label	Definition
Pests, diseases and hazards	pests, diseases and hazards addressed
Abiotic hazard	abiotic hazard
Bacteria	bacteria
Fungi	fungi
Game	game
Grazing	grazing
Insects	insects
Virus	virus

l) Molecular Markers

Label	Definition
Molecular markers	type of molecular markers
AFLP	AFLP molecular markers
EST	EST molecular markers
Isozyme	isozyme molecular markers
RAPD	RAPD molecular markers
RFLP	RFLP molecular markers
SSR	microsatellites molecular markers
Terpene	terpene molecular markers

m) DNA-RNA Type

Label	Definition
DNA-RNA type	DNA type (nuclear or cytoplasmic)
Chloroplastic	Chloroplastic DNA
Mitochondria	Mitochondrial DNA
Nuclear	nuclear ADN-ARN

n) Condition of Observations

Label	Definition
Conditions of observations	type of environment where data were produced
Controlled conditions	observations in controlled conditions
In situ	in situ observations
Lab	in laboratory observations

4.3. Physical Part

a) Climate

Label	Definition
Climate	climatic data
Frost	frost (every type and frequency)
Rainfall	rainfall (every type and frequency)
Radiation	radiation
Temperature	temperature (every type and frequency)
Wind	wind

b) Spatial Resolution

This part is on the keyword list but this is numerical values now present in the purpose part.

Label	Definition
Spatial resolution	spatial resolution
m (EW)	east-west resolution
m (NS)	north-south resolution

c) Soil

Label	Definition
Soil	soil data
Depth	soil depth
Fertility	fertility



Ph	soil ph
Texture	soil texture
Water table	level of the water table

d) Data Type

Label	Definition
Data type	data type (measurement of prediction)
Direct measure	direct measurement
Prediction	prediction

e) Image Type

Label	Definition
Image type	type of picture
Aerial picture	aerial picture
Ground picture	ground picture
Hemispherical photograph	hemispherical picture
Infra-red	infra-red
Multispectral	multispectral
Panchromatic	panchromatic
Satellite picture	satellite picture

f) Temporal Resolution

Label	Definition
Temporal resolution	temporal resolution
Annually	annually
As needed	as needed
Biannually	biannually
Continual	continual
Daily	daily
Decade	decade
Fortnightly	fortnightly
Irregular	irregular
Monthly	monthly
Not planned	not planned
Punctual	punctual
Quarterly	quarterly
Weekly	weekly
Yearly	yearly

4.4. Other Part

a) GEMET

Label	Definition
GEMET	multilingual environment thesaurus
forest ecosystem	forest ecosystem
forestry	forestry

b) EVOLTREE

Label	Definition
EVOLTREE	EVOLution of TREEs as drivers of terrestrial biodiversity