

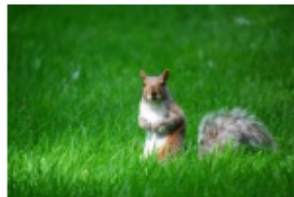
# INSPIRE Thematic Clusters



## Biodiversity and Management Areas Cluster

Image Owner Credit

325 Views



**Owner:** [Stefania MORRONE](#)

Group members: 151

[Open group](#)

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### Description:

#### Welcome to the Biodiversity and Management Areas Cluster

This is an open group for people involved and interested in the community of Protected Sites, Area Management/Restriction/Regulation Zones and Reporting Units, Habitats and Biotopes, Species Distribution, Bio-geographical Regions (producers, implementers and users).

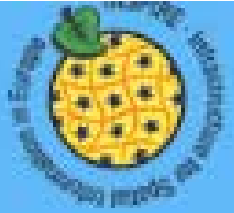
Please **use this group** to share resources and have discussions which are found to be common to more than one INSPIRE theme within the cluster.

### Themes:

- Protected Sites [PS] Protected sites
- Bio-geographical regions[BR] Bio-geographical regions
- Habitats and biotopes[HB] Habitats and biotopes
- Species Distribution[SD] Species distribution
- Area management / restriction / regulation zones & reporting units[AM] Area management / restriction / regulation zones & reporting units

The INSPIRE spatial data themes Protected sites, Bio-geographical regions, Habitats and biotopes and Species distribution refer to different aspects of biological diversity, conservation, protection and observation.

On the other side, the INSPIRE spatial data theme Area management / restriction / regulation zones and reporting units addresses legally defined restrictions, regulations, planning and management aspects to achieve diverse environmental objectives. The differences between AM and other INSPIRE spatial data themes are described in a sub-group Area management / restriction / regulation zones & reporting units.



# INSPIRE Thematic Clusters



## ▼ Group discussion

Add discussion topic



### Reuse of INSPIRE Protected Sites data sets in CDDA 2018 reporting.

Started by Stefania MORRONE 6 hours ago | 16.09.2018

TC-Biodiversity\_Area\_Management, TC-Reporting, TC-PS, CDDA

Environmental reporting is one of the main use cases behind the design of INSPIRE Directive and the INSPIRE data specifications take into account several reporting requirements. In the framework of a modernization and streamlining of...



### Best practices for codelist extension?

Started by Enrico Iredi 2 days ago | 14.09.2018 Replies (2)

Last reply by Enrico Iredi 2 days ago | 14.09.2018

TC-Biodiversity\_Area\_Management, TC-Code-list, TC-AM

Is this a good solution for expanding codelists? For example [http://daten-hamburg.de/inspire/codelist/ZoneTypeCode\\_Extension.xml](http://daten-hamburg.de/inspire/codelist/ZoneTypeCode_Extension.xml). I got the idea from <https://www.ordnancesurvey.co.uk/xml/codelists/>.



### HabitatsAndBiotopes in WCS

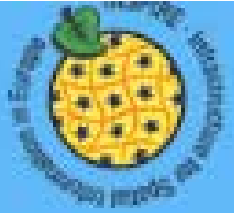
Started by Iurie MAXIM 80 days ago | 28.06.2018 Replies (18) Last reply by Iurie MAXIM 74 days ago | 04.07.2018

TC-HB, TC-WCS, TC-Data-modelling, TC-Schema, TC-Question, TC-MIG, TC-Biodiversity\_Area\_Management

Am I understanding correctly that the HabitatsAndBiotopes data can be provided through WCS, as this data theme is listed in the Technical Guidance for the implementation of INSPIRE Download Services using Web Coverage Services (WCS) at page 14...



### FIONET vs PESI vs EUNIS



# INSPIRE Thematic Clusters



## Best practices for codelist extension?

Public Edit Close X 1 like

Started by Enrico Iredi 3 days ago | 14.09.2018 Replies (2)

TC-Biodiversity\_Area\_Management TC-Code-list TC-AM TC-Use-example

Is this a good solution for expanding codelists? For example [http://daten-hamburg.de/inspire/codelist/ZoneTypeCode\\_Extension.xml](http://daten-hamburg.de/inspire/codelist/ZoneTypeCode_Extension.xml).

I got the idea from <https://www.ordnancesurvey.co.uk/xml/codelists/>.

### Replies



By Stefania MORRONE 2 days ago | 14.09.2018

Edit X

Dear Enrico,

it is a good encoding to provide codelist extension. Thank you for providing.

So in your case an extended value for the 'zoneType' field would be encoded as e.g. :

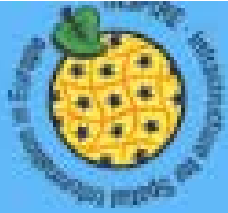
[http://daten-hamburg.de/inspire/codelist/ZoneTypeCode\\_Extension.xml#waterfrontArea](http://daten-hamburg.de/inspire/codelist/ZoneTypeCode_Extension.xml#waterfrontArea)

Having a look at the values you provided, anyway, I noticed that you also provide the value "aircraftNoiseRestrictionZone". This is indeed a specialization of the <http://inspire.ec.europa.eu/codelist/ZoneTypeCode/noiseRestrictionZone> value, therefore should be provided as new value for the specialisedZoneTypeCode codelist ( <http://inspire.ec.europa.eu/codelist/SpecialisedZoneTypeCode> . )

You may find it useful having a look at the TC discussion [Using the specialisedZoneType attribute](#) .

which provides also a relevant extended code list example from EEA.

I take this opportunity to point to 'How to extend INSPIRE code lists' dedicated page and to the [Best Practices for registers and registries & Technical Guidelines for the INSPIRE register federation](#), describing how to set up registers for INSPIRE, including registers for extended INSPIRE code lists.



# INSPIRE Thematic Clusters



Discussion > Biodiversity and Management Areas Cluster > Using the specialisedZoneType attribute

## Using the specialisedZoneType attribute

287 Views



### Using the specialisedZoneType attribute

Public

Started by Stefania MORRONE 272 days ago | 18.12.2017

TC-AM, TC-Code-list, TC-Data-interoperability, specialisedZoneType, Eionet Data Dictionary, TC-Closed, TC-Encoding-rule, TC-Biodiversity\_Area\_Management

The *specialisedZoneType* attribute allows providing an additional value to further specialise the type of zone specified in the *zoneType* element.

The *specialisedZoneType* can contain any value defined by data provider (as long as it is made available in a public register – ref. Article 6(3) of the Implementing Rules. For more details see the TC page [How to extend INSPIRE code lists](#)), since its value type '*SpecialisedZoneTypeCode*' is an empty code list.

However, the additional NOTE in the attribute description (Page 34 in the Data Specification for AM) specifies that the values for the *specialisedZoneType* "should be derived from relevant domain-specific controlled vocabulary, where available."

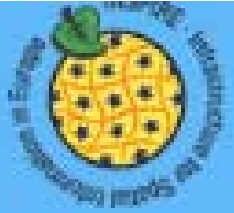
Be aware that an extension of the INSPIRE code list *SpecialisedZoneTypeCode* is provided in the Eionet Data Dictionary (<http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode>). More specifically, the values contained therein further specialise the following ZoneType elements:

- <http://inspire.ec.europa.eu/codelist/ZoneTypeCode/designatedWaters>
- <http://inspire.ec.europa.eu/codelist/ZoneTypeCode/waterBodyForWFD>
- <http://inspire.ec.europa.eu/codelist/ZoneTypeCode/riverBasinDistrict>

Each value in the <http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode> refers the related value in the *ZoneTypeCode* INSPIRE code list

e.g.

<http://dd.eionet.europa.eu/vocabulary/inspire/SpecialisedZoneTypeCode/coastalWaterBody> contains indication



# INSPIRE Thematic Clusters



## It seems that there is only one fully compliant solution to serve multiple harmonised datasets trough WFS 2.0



### Usability of INSPIRE data

Last updated 12 days ago | 05.09.2018 by Stefania MORRONE

TC-SW-Tools, TC-TG, TC-Encoding-rule, TC-Encoding, cross-cluster, TC-Validation, CRS, TC-MIG-2017.3, TC-Dedicated-page

Public History Edit

This page aims at collecting [usability issues](#) related to the use of INSPIRE data reported through TC discussions. The issue 'Status' reports whether the issue has currently been solved or not.

This page is read-only, should you have any news on the Status of reported issues, or should you want to report a new issue, please post a relevant discussion on the Cluster.

I will update this page accordingly when relevant.

#### Use of the 'http' encoding for Coordinate Reference System identifiers

The use of the 'http' encoding for Coordinate Reference System (e.g. "<http://www.opengis.net/def/crs/EPSSG/0/3035>") is an INSPIRE TG Requirement. In all the INSPIRE Data Specifications, it is stated "*These Technical Guidelines propose to use the http URIs provided by the Open Geospatial Consortium as coordinate reference system identifiers*".

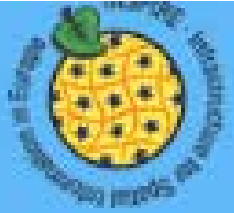
When validating INSPIRE datasets, the INSPIRE Validator rises an error if an encoding different than "http (e.g. "urn" encoding) is used to provide CRS information.

In the TC discussion <https://themes.jrc.ec.europa.eu/discussion/view/109106/fyi-interpreted-coordinate-order-flipped-in-gml-files-with-uri-format-srsname> two issues are mentioned with reference to the use of the 'http' encoding for CRS.

Here follows description of the issues and their current Status.

- *INSPIRE GML datasets using the http encoding are displayed incorrectly in some GIS environments, e.g. QGIS.* Responsible for this behaviour is the GDAL library (before version 2.1.2) not respecting the coordinate order (northing, easting) for http CRS, thus causing problems to all software tools using it, either directly ( QGIS for example) when consuming INSPIRE GML data.

Status: solved



# INSPIRE Thematic Clusters



1579 Views



## Examples of INSPIRE Download Services for the data themes in the Biodiversity and Management Areas...

Public History Edit X Like

Last updated 4 days ago | 13.09.2019 by Stefania MORRONE

TC-WFS, TC-Download-service, TC-Atom-feed, CDDA, TC-Nature, TC-Implementation-example, TC-PS, TC-AM, TC-Reporting, TC-Water, WFD, TC-Dedicated-page, TC-Biodiversity\_Area\_Management

This page aims to provide examples of INSPIRE Download services for INSPIRE conformant data relevant to the themes addressed by the cluster.

It is meant to be a 'read-only' page, should you want to comment or to provide other implementation examples, please open a discussion topic or email the facilitator.

### Protected Sites data theme

#### Example 1:

*Description:* Maltese WFS serving harmonised Nationally designated areas (CDDA) Protected Sites

*Software tool:* deegree

#### **WFS GetCapabilities:**

[https://msdi.data.gov.mt/deegree/services/ps\\_CDDAarea?service=WFS&request=GetCapabilities](https://msdi.data.gov.mt/deegree/services/ps_CDDAarea?service=WFS&request=GetCapabilities)

#### **WFS GetFeature example:**

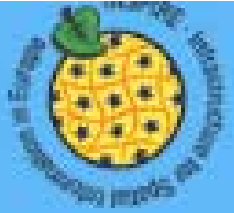
[https://msdi.data.gov.mt/deegree/services/ps\\_CDDAarea?request=GetFeature&Language=eng&service=WFS&version=2.0.0&count=10&typeName=ps:ProtectedSite](https://msdi.data.gov.mt/deegree/services/ps_CDDAarea?request=GetFeature&Language=eng&service=WFS&version=2.0.0&count=10&typeName=ps:ProtectedSite)

#### Example 2:

*Description:* Finnish Protected Site according to the INSPIRE Protected Sites application schema.

*WFS + Atom feed available. Both are still RFTA versions*





# INSPIRE Thematic Clusters



## Hot Topic !

By Katharina SCHLEIDT 80 days ago | 29.06.2018

Hi Both,

By Katharina SCHLEIDT 77 days ago | 01.07.2018

Hi Iurie,

first off, as gml coverages are also gml featureTypes, or offering concept is not available from a WFS, it would be featureTypes are available (only the fact that there are c WFS getCapabilities)

Not sure what the SW supports, but the coverage mode NetCDF. Here a first example utilizing RectifiedGridCov



attributes.

;) )

for other INSPIRE Themes where to my unde too unfamiliar and the usage of WCS (which i unlocked, if you're using WFS there's no add clear.

We'll be holding a Workshop on coverages at Peter Baumann and myself providing input. In aspect we plan to cover is wider usage of cov

Practicing INSPIRE coverages - Enhancing y 20 2018 - 09-00)

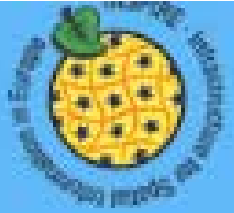
By James PASSMORE 76 days ago | 02.07.2018

Edit X Like

Not sure about Habitats..., but for our experiment with using WCS to push out geological coverages (model surfaces) with GeoSciML attribution, we put the GeoSciML into the gmlcov.metadata response like below:

```
<?xml version="1.0" encoding="UTF-8" ?>
<!-- -->
<!-- Description of a coverage describing a 3D model surface -->
<!-- -->
<gmlcov:RectifiedGridCoverage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="http://www.opengis.net/gml/3.2" xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:gmlcov="http://www.opengis.net/gmlcov/1.0"
  xmlns:sve="http://www.opengis.net/sve/2.0"
  xmlns:wcs="http://www.opengis.net/wcs/2.0" gml:id="glasgow_pais_t"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:gml="http://www.opengis.net/gml/3.2"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:gmd="http://www.isotc211.org/2005/gmd"
  xmlns:gco="http://www.isotc211.org/2005/gco"
  xmlns:gss="http://www.isotc211.org/2005/gss"
  xmlns:gts="http://www.isotc211.org/2005/gts"
  xmlns:gxr="http://www.isotc211.org/2005/gxr"
  xmlns:sas="http://www.opengis.net/sampling/2.0"
  xmlns:cm="http://www.opengis.net/cm/2.0"
  xmlns:gmlgu="http://www.geosciml.org/GeologicUnit/3.2"
  xmlns:gmlst="http://www.geosciml.org/GeologicStructure/3.2"
  xmlns:gmlsm="http://www.geosciml.org/EarthMaterial/3.2"
  xmlns:gmlga="http://www.geosciml.org/GeologicAge/3.2"
  xmlns:gmlgt="http://www.geosciml.org/GeologicTime/3.0"
  xmlns:sms="http://www.opengis.net/samplingSpatial/2.0"
  xmlns:gmltrs="http://www.geosciml.org/TemporalReferenceSystem/3.2"
  xmlns:gmlpp="http://www.geosciml.org/PhysicalProperties/3.2"
  xmlns:gmlu="http://www.geosciml.org/Utilities/3.2"
  xmlns:ows="http://www.opengis.net/ows/1.1" xmlns:fes="http://www.opengis.net/fes/2.0"
  xsi:schemaLocation="http://www.opengis.net/wcs/2.0
    http://schemas.opengis.net/wcs/2.0/wcsAll.xsd
    http://www.opengis.net/wcs/2.0/wcsAll.xsd
    http://www.geosciml.org/GeoSciML-Core/3.2
    http://schemas.geosciml.org/geosciml-core/3.2/geosciml-core.xsd
    http://www.geosciml.org/GeologicUnit/3.2
    http://schemas.geosciml.org/geologicunit/3.2/geologicUnit.xsd
    http://www.geosciml.org/GeologicStructure/3.2
    http://schemas.geosciml.org/geologicstructure/3.2/geologicStructure.xsd
    http://www.geosciml.org/Utilities/3.2
    http://schemas.geosciml.org/cgiutilities/3.2/cgiUtilities.xsd">
  <boundedBy>
    <Envelope srsName="http://www.opengis.net/def/crs/EPSG/0/27700" axisLabels="x y"
      uomLabels="" srsDimension="2">
      <lowerCorner>254750.0 659824.9</lowerCorner>
      <upperCorner>265250.0 670024.9</upperCorner>
    </Envelope>
  </boundedBy>
  <domainSet xlink:href="#glasgow_pais_t-grid"/>

```



# INSPIRE Thematic Clusters



## Reuse of INSPIRE Protected Sites data sets in CDDA 2018 reporting.

Public

Started by Stefania MORRONE 3 days ago | 16.09.2018

TC-Biodiversity\_Area\_Management, TC-Reporting, TC-PS, CDDA

Environmental reporting is one of the main use cases behind the design of INSPIRE Directive and the INSPIRE data specifications take into account several reporting requirements.

In the framework of a modernization and streamlining of environmental reporting flows, the reuse of INSPIRE can be an opportunity to leverage INSPIRE acknowledgements of the Member States, thus reducing reporting burden, lowering costs of data management and provision, improving data quality and coherence.

In this context, the "Nationally designated areas" (CDDA) reporting - source for the biodiversity policy evaluations in the European Union and the European contribution to the World Database on Protected Areas (WDPA)- has been revised to take advantage of INSPIRE Protected sites data sets already produced by the Member states to fulfill INSPIRE obligation.

The 2018 complete data reporting (spatial data plus related specific thematic data) is obtained through a "linked approach" i.e. the specific thematic data sets are 'linked' to INSPIRE Protected Sites data sets in order to get geospatial reference and other relevant information.

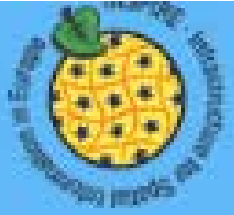
Learn more in the comprehensive [CDDA 2018 reporting guidelines](#) and don't miss relevant presentations at the INSPIRE Conference 2018:

[INSPIRE spatial data sets in the European data collection of 'Nationally designated areas' – linked approach](#)

[INSPIRE based e - Reporting in Italy](#)

[Technological approaches to reuse INSPIRE in e - Reporting](#)





# INSPIRE Thematic Clusters



THANK YOU FOR YOUR ATTENTION

**QUESTIONS ?**