

Appendix A - Feature Catalogue

NLDP Logical Model

Version 1.1

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1 NLDP_Logical_Model

Package «ApplicationSchema» in package 'Model'

NLDP_Logical_Model

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 03/03/2022. Last modified 08/09/2022

1.1 NLDP Core diagram

GML diagram in package 'NLDP_Logical_Model'

NLDP Core

Version 1.0

CPopplestone created on 03/03/2022. Last modified 15/12/2022

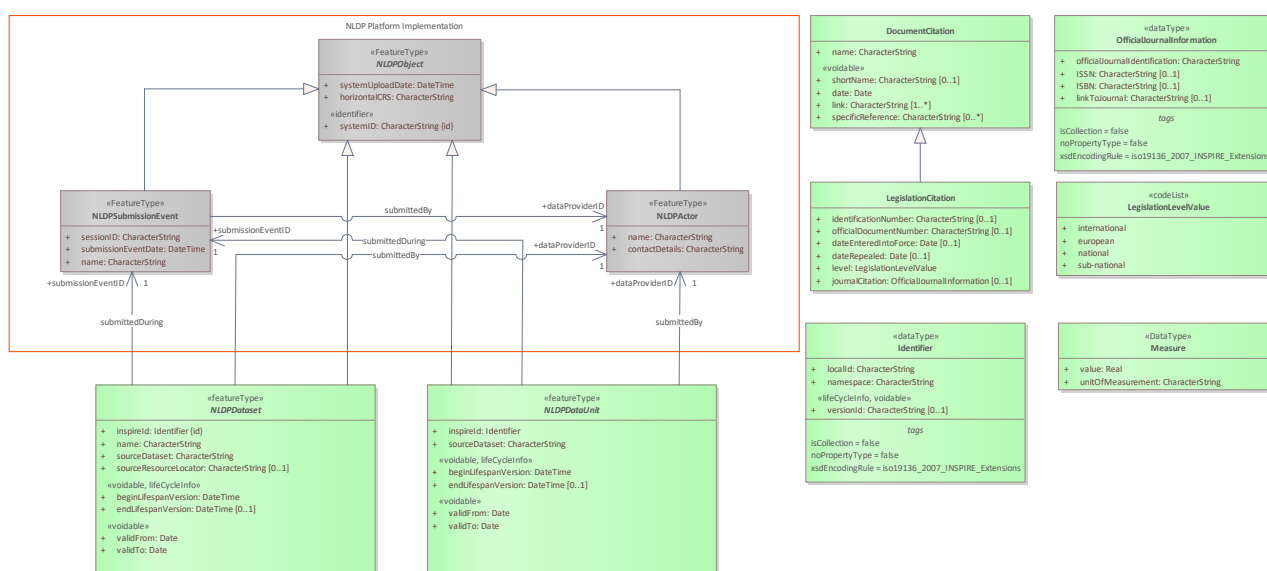


Figure 1: NLDP Core

1.2 LandCover

Package in package 'NLDP_Logical_Model'

LandCover

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 06/03/2022. Last modified 08/09/2022

1.2.1 LandCover diagram

GML diagram in package 'LandCover'

LandCover

Version 1.0

CPopplestone created on 06/03/2022. Last modified 29/11/2022

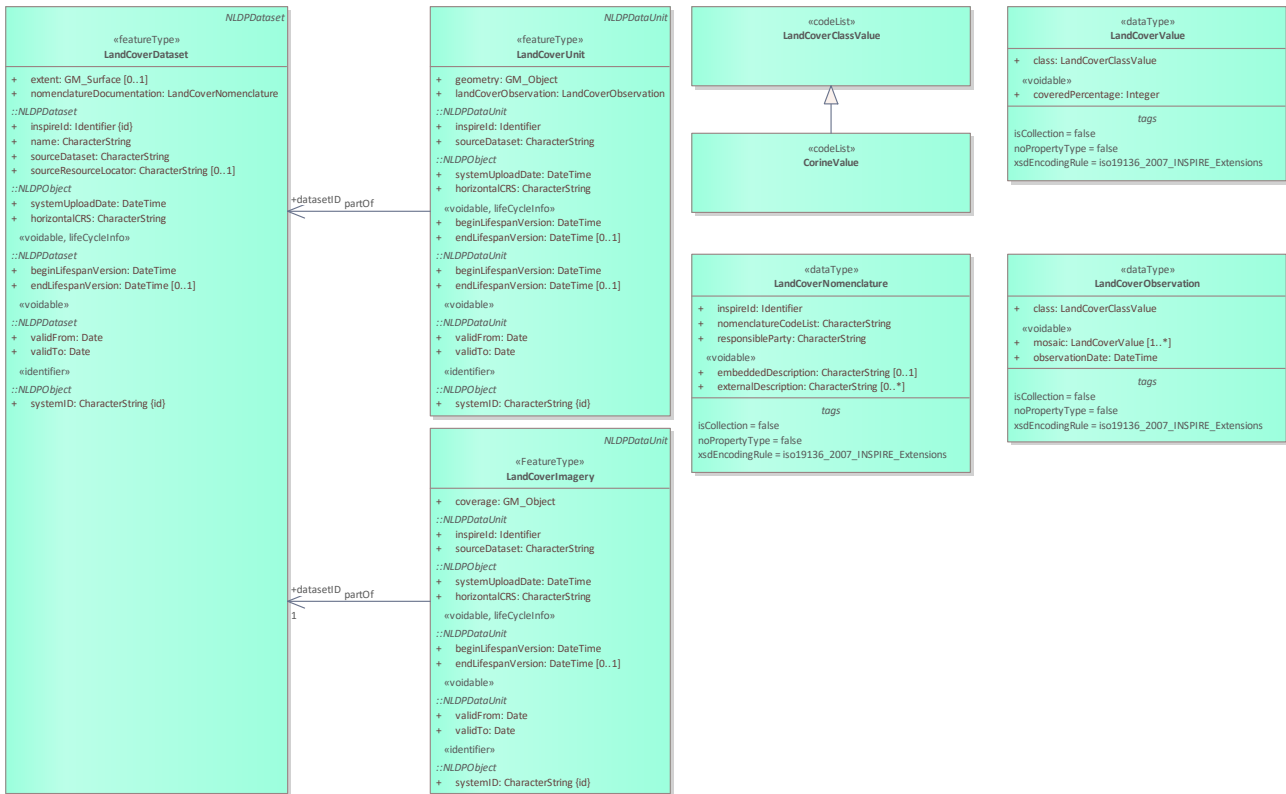


Figure 2: LandCover

1.2.2 CorineValue

Class «codeList» in package 'LandCover'

-- Name --

Corine Land Cover code list

-- Definition --

Corine Land Cover code list governed by EEA.

CorineValue

Version 1.0 Phase 1.0 Proposed

DSarafinof created on 06/03/2022. Last modified 06/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «codeList» CorineValue to «codeList» LandCoverClassValue

[Direction is 'Source -> Destination'.]

1.2.3 LandCoverClassValue

Class «codeList» in package 'LandCover'

-- Name --

Land Cover Class Value

-- Definition --

Land cover code list or classification.

-- Description --

An empty code list that act as a container for Corine, other european, national or local code list for LC nomenclature.

LandCoverClassValue
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 06/03/2022. Last modified 06/03/2022

INCOMING STRUCTURAL RELATIONSHIPS

➔ Generalization from «codeList» CorineValue to «codeList» LandCoverClassValue

[Direction is 'Source -> Destination'.]

1.2.4 LandCoverDataset

Class «featureType» in package 'LandCover'

-- Name --

Land Cover Data set

-- Definition --

A vector representation for Land Cover data.

-- Description --

This representation allows Land Cover data being supported by a vector geometry.

LandCoverDataset
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 06/03/2022. Last modified 06/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Generalization from «featureType» LandCoverDataset to «featureType» NLDataset

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ extent : GM_Surface Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --
extent



-- Definition --
Contains the extent of the data set.

-- Description --
NOTE Extents may be specified in space, time or space-time.

[Is static True. Containment is Not Specified.]

◆ nomenclatureDocumentation : LandCoverNomenclature Public

ATTRIBUTES	
-- Name -- nomenclatureDocumentation	
-- Definition -- Information about the nomenclature used in this data set.	[Is static True. Containment is Not Specified.]


ASSOCIATIONS	
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) LandCoverImagery «FeatureType»</p>	<p>Target: Public datasetID (Class) LandCoverDataset «featureType»</p> <p>Cardinality: [1]</p>
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) LandCoverUnit «featureType»</p>	<p>Target: Public datasetID (Class) LandCoverDataset «featureType»</p>

1.2.5 LandCoverImagery


Class «FeatureType» in package 'LandCover'

-- Name --
land cover imagery
-- Definition --
Gridded imagery representing land cover.

LandCoverImagery
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 31/03/2022. Last modified 31/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS	
<p> Generalization from «FeatureType» LandCoverImagery to «featureType» NLDPDDataUnit</p>	[Direction is 'Source -> Destination'.]

ATTRIBUTES	
<p> coverage : GM_Object Public</p>	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) LandCoverImagery «FeatureType»</p>	<p>Target: Public datasetID (Class) LandCoverDataset «featureType»</p> <p>Cardinality: [1]</p>

1.2.6 LandCoverNomenclature

Class «dataType» in package 'LandCover'

-- Name --

Land Cover Nomenclature

-- Definition --


Information about reference national, institutional or local Land Cover nomenclature.

-- Description --

Land Cover Nomenclature allows to reference nomenclatures documentation and associated code list, and to define them through an external reference or included within the data according 19144-2.

LandCoverNomenclature
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 06/03/2022. Last modified 06/03/2022


CONSTRAINTS

 OCL. ExternalOrEmbeddedDescription

/* The embedded description or the external description shall be provided. */

[Proposed, Weight is 0.]

ATTRIBUTES

 embeddedDescription : CharacterString Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

embedded Description


-- Definition --

An embedded encoding of the classification system according to ISO 19144-2.

Constraints:

description : OCL

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 inspireId : Identifier Public

-- Name --

inspireId


-- Definition --



External object identifier of the spatial object.

-- Description --

NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.

[Is static True. Containment is Not Specified.]

 nomenclatureCodeList : CharacterString Public

ATTRIBUTES
<p>-- Name -- nomenclatureCodeList</p> <p>-- Definition -- An http URI pointing to the code list attached to the nomenclature used.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> externalDescription : CharacterString Public Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- externalDescription</p> <p>-- Definition -- Document describing the nomenclature used in this data set.</p> <p style="text-align: right;">[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>
<p> responsibleParty : CharacterString Public</p> <p>-- Name -- responsible party</p> <p>-- Definition -- Party responsible for the development and/or maintenance of the nomenclature.</p> <p>-- Description -- The responsible party could be EEA, a national or local mapping agency, ...</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>

1.2.7 LandCoverObservation

Class «dataType» in package 'LandCover'

-- Name --
Land Cover Observation

-- Definition --
Land Cover information interpreted at a specific time and place.

LandCoverObservation
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 06/03/2022. Last modified 06/03/2022

CONSTRAINTS
<p> OCL. coveredPercentagesLowerThan100</p> <p>/* The sum of all coveredPercentage attributes attached to each LandCoverObservation shall be lower or equal to 100*/ inv:mosaic.coveredPercentage.sum() <= 100</p> <p style="text-align: right;">[Approved, Weight is 0.]</p>

ATTRIBUTES

ATTRIBUTES

 class : LandCoverClassValue Public

-- Name --

class

-- Definition --

The assignment of a land cover class to a land cover unit through a classification code identifier

-- Description --

The identifier, eg 1.1.1, 1.1.2, ... (for CORINE LC classes) allow to access to the value and the definition or narrative description of the corresponding class.

Properties:

extensibility = any

obligation = technicalGuidance

vocabulary =

[Is static True. Containment is Not Specified.]

 mosaic : LandCoverValue Public

Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)


-- Name --

mosaic

-- Definition --

List of classification values describing into details a land cover unit, associated with percentages.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 observationDate : DateTime Public

-- Name --

observationDate

-- Definition --

The observation date associated of an observation.

-- Description --

Defines the observation date of the classification value. It could be the date of an aerial/satellital acquisition or of an update on the field. The observation date allows the user to have accurate date of when each value was observed in the real word. In a database, not all polygon informations are necessarily updated at the same time.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.2.8 LandCoverUnit

Class «featureType» in package 'LandCover'

-- Name --

Land Cover Unit


-- Definition --

An individual element of the LC dataset represented by a point or polygon.

-- Description --

Every unit support Land Cover information.

CONSTRAINTS

 OCL. geometryIsKindOfGM_PointOrGM_Surface

*/*geometries shall be points or surfaces*/*

inv: self.geometry->forAll(l | l.oclsKindOf(GM_Surface) or l.oclsKindOf(GM_Point))

[Approved, Weight is 0.]

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from «featureType» LandCoverUnit to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]

ATTRIBUTES

 beginLifespanVersion : DateTime Public

-- Name --

beginLifespanVersion

-- Definition --

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

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 endLifespanVersion : DateTime Public

Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

endLifespanVersion

-- Definition --

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

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 geometry : GM_Object Public

-- Name --

geometry


-- Definition --

Spatial representation of the Land Cover unit.

-- Description --

NOTE Restricted to point or surface.

[Is static True. Containment is Not Specified.]

 landCoverObservation : LandCoverObservation Public

-- Name --


landCoverObservation

ATTRIBUTES

-- Definition --

Land cover information at a specific time and place.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS
 Association (direction: Source -> Destination) partOf

Source: Public (Class) LandCoverUnit «featureType»

 Target: Public datasetID (Class) LandCoverDataset
«featureType»

1.2.9 LandCoverValue

Class «dataType» in package 'LandCover'

-- Name --

Land Cover Value

-- Definition --

Generic class supporting Land Cover value and percentage.

LandCoverValue

Version 1.0 Phase 1.0 Proposed

DSarafinof created on 06/03/2022. Last modified 06/03/2022

ATTRIBUTES
 class : LandCoverClassValue Public

-- Name --

class

-- Definition --

Assignment of a land cover spatial object to a land cover class through a classification code identifier.

-- Description --

The identifier, eg 1, 1.1.2, ... (for CORINE LC classes) allow to access to the value and the definition or narrative description of the corresponding class.

Properties:

extensibility = any

obligation = technicalGuidance

vocabulary =

[Is static True. Containment is Not Specified.]

 coveredPercentage : Integer Public

-- Name --

Covered percentage

-- Definition --

Fraction of the LandCoverUnit being concerned with the classification value.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

ATTRIBUTES

1.3 LandUse

Package in package 'NLDP_Logical_Model'

LandUse
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 03/03/2022. Last modified 08/09/2022

1.3.1 Common Land Use diagram

GML diagram in package 'LandUse'

Common Land Use
Version 1.0
CPopplestone created on 03/03/2022. Last modified 22/12/2022

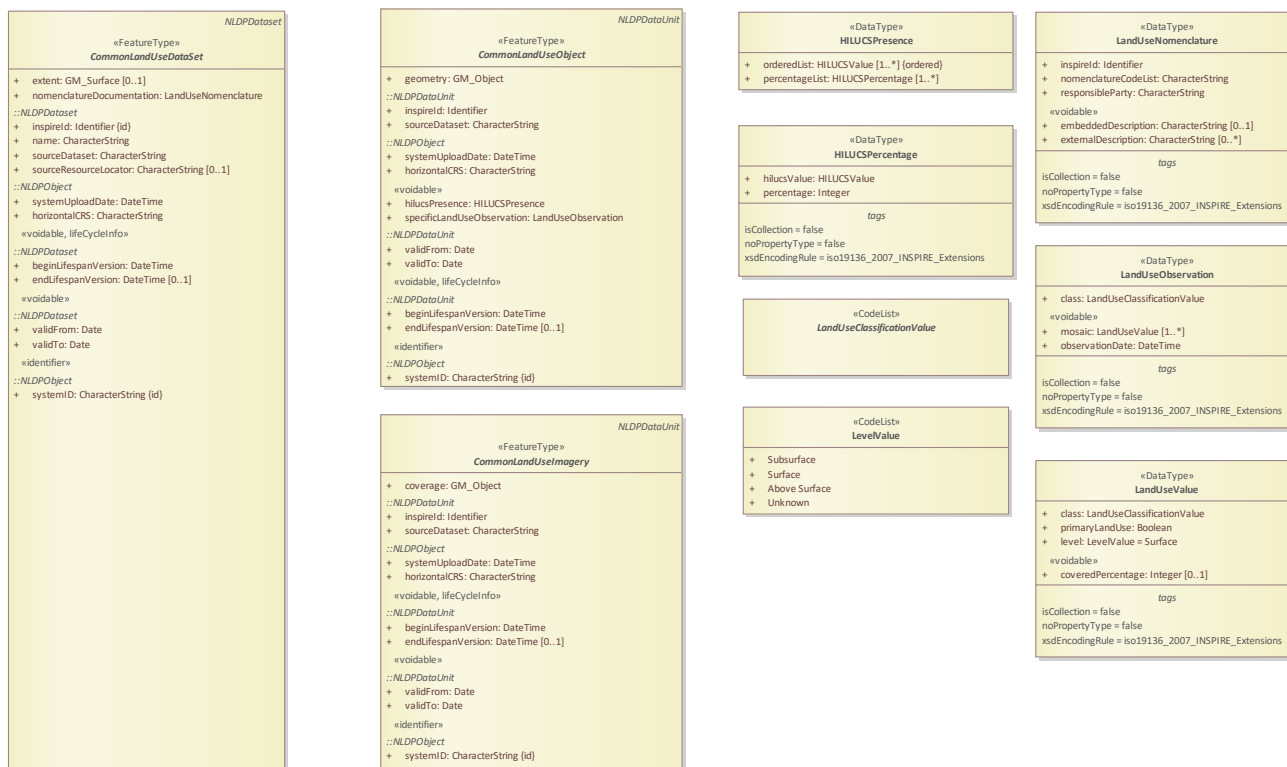


Figure 3: Common Land Use

1.3.2 LandUse_Codelists diagram

GML diagram in package 'LandUse'

LandUse_Codelists
Version 1.0
CPopplestone created on 31/03/2022. Last modified 08/09/2022

«CodeList» HILUCSValue
+ primary production
+ agriculture
+ commercial agricultural production
+ farming infrastructure
+ agricultural production for own consumption
+ forestry
+ forestry based on short rotation
+ forestry based on intermediate or long rotation
+ forestry based on continuous cover
+ mining and quarrying
+ mining of energy producing materials
+ mining of metal ores
+ other mining and quarrying
+ aquaculture and fishing
+ aquaculture
+ professional fishing
+ other primary production
+ hunting
+ management of migratory animals
+ picking of natural products
+ secondary production
+ raw industry
+ manufacturing of textile products
+ manufacturing of wood and wood based products
+ manufacturing of pulp paper and paper products
+ manufacturing of coke refined petroleum products and nuclear fuel
+ manufacturing of chemicals chemical products man made fibers
+ manufacturing of basic metals and fabricate metals
+ manufacturing of non-metallic mineral products
+ manufacturing of rubber plastic products
+ manufacturing of other raw materials
+ heavy end product industry
+ manufacturing of machinery
+ manufacturing of vehicles and transport equipment
+ manufacturing of other heavy end products
+ light end product industry
+ manufacturing of food beverages and tobacco products
+ manufacturing of clothes and leather
+ publishing and printing
+ manufacturing of electrical and optical equipment
+ manufacturing of other light end products
+ energy production
+ nuclear based energy production
+ fossil fuel based energy production
+ biomass based energy production
+ renewable energy production
+ other industry
+ tertiary production
+ commercial services
+ wholesale and retail trade and repair of vehicles and personal and household goods
+ real estate services
+ accommodation and food services
+ other commercial services
+ financial professional and information services
+ financial and insurance services
+ professional technical and scientific services
+ information and communication services
+ administrative and support services
+ other financial professional and information services
+ community services
+ public administration defence and social security services
+ educational services
+ health and social services
+ religious services
+ other community services
+ cultural entertainment and recreational services
+ cultural services
+ entertainment services
+ sports infrastructure
+ open air recreational areas
+ other recreational services
+ other services
+ transport networks logistics and utilities
+ transport networks
+ road transport
+ railway transport
+ air transport
+ water transport
+ other transport network
+ logistical and storage services
+ utilities
+ electricity gas and thermal power distribution services
+ water and sewage infrastructure
+ waste treatment
+ other utilities
+ residential use
+ permanent residential use
+ residential use with other compatible uses
+ other residential use
+ other uses
+ transitional areas
+ abandoned areas
+ natural areas not in other economic use
+ land areas not in other economic use
+ water areas not in other economic use
+ areas where any use allowed
+ areas without any specified planned use
+ not known use

«CodeList» LandUseClassificationValue

«CodeList» LevelValue
+ Subsurface
+ Surface
+ Above Surface
+ Unknown

Figure 4: LandUse_Codelists

1.3.3 ExistingLandUse

Package in package 'LandUse'

ExistingLandUse
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 21/12/2022. Last modified 21/12/2022

1.3.3.1 Existing Land Use diagram

Class diagram in package 'ExistingLandUse'

Existing Land Use
Version 1.0
CPopplestone created on 22/12/2022. Last modified 22/12/2022



Figure 5: Existing Land Use

1.3.3.2 ExistingLandUseDataset

Class «FeatureType» in package 'ExistingLandUse'

-- Name --

existing land use data set

-- Definition --

An existing land use data set is a collection of areas for which information on existing (present or past) land uses is provided.

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «FeatureType» ExistingLandUseDataset to «FeatureType» CommonLandUseDataSet [Direction is 'Source -> Destination'.]</p>

ASSOCIATIONS		
<p>✎ Association (direction: Source -> Destination) part Of</p> <table border="0"> <tr> <td>Source: Public (Class) ExistingLandUseImagery «FeatureType»</td> <td>Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]</td> </tr> </table>	Source: Public (Class) ExistingLandUseImagery «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]
Source: Public (Class) ExistingLandUseImagery «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]	
<p>✎ Association (direction: Source -> Destination) part Of</p> <table border="0"> <tr> <td>Source: Public (Class) ExistingLandUseObject «FeatureType»</td> <td>Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]</td> </tr> </table>	Source: Public (Class) ExistingLandUseObject «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]
Source: Public (Class) ExistingLandUseObject «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]	

1.3.3.3 ExistingLandUseImagery

Class «FeatureType» in package 'ExistingLandUse'

-- Name --

existing land use imagery

-- Definition --

Gridded imagery representing land use.

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «FeatureType» ExistingLandUseImagery to «FeatureType» CommonLandUseImagery [Direction is 'Source -> Destination'.]</p>

ASSOCIATIONS		
<p>✎ Association (direction: Source -> Destination) part Of</p> <table border="0"> <tr> <td>Source: Public (Class) ExistingLandUseImagery «FeatureType»</td> <td>Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]</td> </tr> </table>	Source: Public (Class) ExistingLandUseImagery «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]
Source: Public (Class) ExistingLandUseImagery «FeatureType»	Target: Public datasetID (Class) ExistingLandUseDataset «FeatureType» Cardinality: [1]	

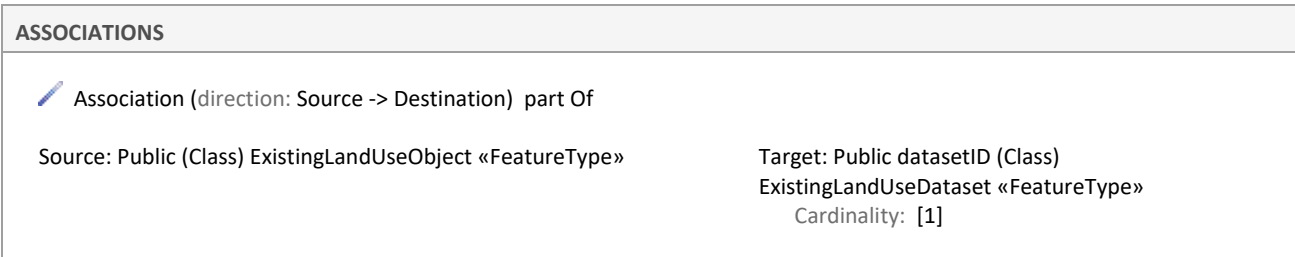
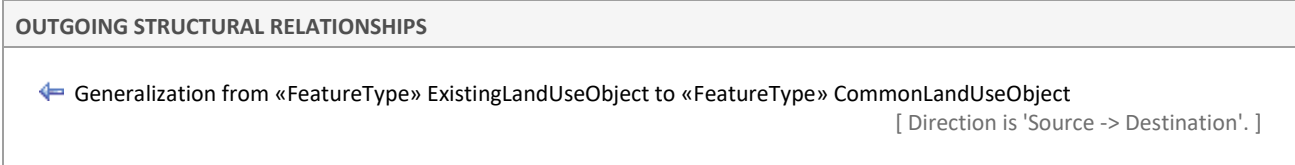
1.3.3.4 ExistingLandUseObject

Class «FeatureType» in package 'ExistingLandUse'

-- Name --
existing land use object

-- Definition --
An existing land use object describes the land use of an area having a homogeneous combination of land use types.

ExistingLandUseObject
Version 1.0 Phase 1.0 Proposed
CPOpplestone created on 22/12/2022. Last modified 22/12/2022



1.3.4 PlannedLandUse

Package in package 'LandUse'

PlannedLandUse
Version 1.0 Phase 1.0 Proposed
CPOpplestone created on 02/05/2022. Last modified 21/12/2022

1.3.4.1 Planned Land Use diagram

GML diagram in package 'PlannedLandUse'

Planned Land Use
Version 1.0
CPOpplestone created on 02/05/2022. Last modified 29/11/2022

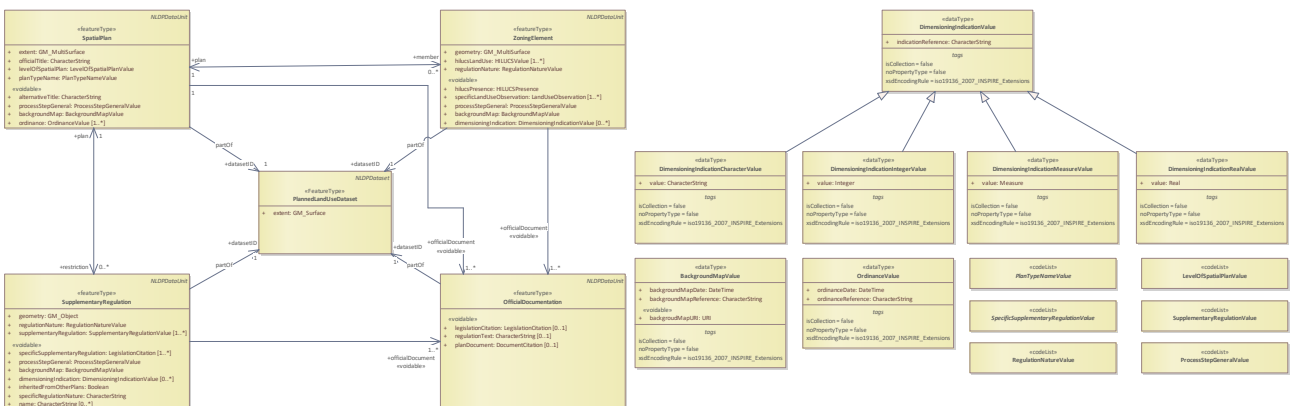


Figure 6: Planned Land Use




1.3.4.2 BackgroundMapValue

Class «dataType» in package 'PlannedLandUse'

-- Definition --

Information regarding the map that has been used as a background in the definition of a spatial plan, a zoning element or a supplementary regulation.

BackgroundMapValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

ATTRIBUTES
<p> backgroundMapDate : DateTime Public</p> <p>-- Name -- background map date</p> <p>-- Definition -- Date of the background map used.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> backgroundMapReference : CharacterString Public</p> <p>-- Definition -- Reference to the background map that has been used.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> backgroudMapURI : URI Public</p> <p>-- Name -- background map URI</p> <p>-- Definition -- URI referring to service that provides background map.</p> <p style="text-align: right;">[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>

1.3.4.3 DimensioningIndicationCharacterValue

Class «dataType» in package 'PlannedLandUse'

-- Name --

dimension indication character value

-- Definition --

Dimensioning indication whose value is of type CharacterString.

DimensioningIndicationCharacterValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «dataType» DimensioningIndicationCharacterValue to «dataType» DimensioningIndicationValue
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ value : CharacterString Public

-- Definition --
value of the dimension indications.

[Is static True. Containment is Not Specified.]

1.3.4.4 DimensioningIndicationIntegerValue

Class «dataType» in package 'PlannedLandUse'

-- Name --
dimension indication integer value
-- Definition --
Dimensioning indication whose value is of type integer.

DimensioningIndicationIntegerValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «dataType» DimensioningIndicationIntegerValue to «dataType» DimensioningIndicationValue
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ value : Integer Public

[Is static True. Containment is Not Specified.]

1.3.4.5 DimensioningIndicationMeasureValue

Class «dataType» in package 'PlannedLandUse'

-- Name --
dimension indication measure value
-- Definition --
Dimensioning indication whose value is a measure.

DimensioningIndicationMeasureValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «dataType» DimensioningIndicationMeasureValue to «dataType» DimensioningIndicationValue
[Direction is 'Source -> Destination'.]

ATTRIBUTES

value : Measure Public
[Is static True. Containment is Not Specified.]

1.3.4.6 DimensioningIndicationRealValue

Class «dataType» in package 'PlannedLandUse'

-- Name --

dimension indication real value

-- Definition --

Dimensioning indication whose value is a floating point number.

DimensioningIndicationRealValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «dataType» DimensioningIndicationRealValue to «dataType» DimensioningIndicationValue
[Direction is 'Source -> Destination'.]

ATTRIBUTES

value : Real Public
[Is static True. Containment is Not Specified.]

1.3.4.7 DimensioningIndicationValue

Class «dataType» in package 'PlannedLandUse'

-- Name --

Dimension Indication

-- Definition --

Specifications about the dimensioning of the urban developments.

DimensioningIndicationValue
Version 1.0 Phase 1.0 Proposed
Wilko Quak created on 19/07/2022. Last modified 19/07/2022

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS	
⇒	Generalization from «dataType» DimensioningIndicationCharacterValue to «dataType» DimensioningIndicationValue [Direction is 'Source -> Destination'.]
⇒	Generalization from «dataType» DimensioningIndicationRealValue to «dataType» DimensioningIndicationValue [Direction is 'Source -> Destination'.]
⇒	Generalization from «dataType» DimensioningIndicationIntegerValue to «dataType» DimensioningIndicationValue [Direction is 'Source -> Destination'.]
⇒	Generalization from «dataType» DimensioningIndicationMeasureValue to «dataType» DimensioningIndicationValue [Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆	indicationReference : CharacterString Public -- Definition -- Description of the dimension indication. [Is static True. Containment is Not Specified.]

1.3.4.8 LevelOfSpatialPlanValue

Class «codeList» in package 'PlannedLandUse'

-- Name --
level of spatial plan
-- Definition --
Territorial hierarchy of plan.

LevelOfSpatialPlanValue
Version 1.0 Phase 1.0 Proposed
Wilko Quak created on 19/07/2022. Last modified 19/07/2022

1.3.4.9 OfficialDocumentation

Class «featureType» in package 'PlannedLandUse'

-- Name --
official documentation

-- Definition --
The official documentation that composes the spatial plan; it may be composed of, the applicable legislation, the regulations, cartographic elements, descriptive elements that may be associated with the complete spatial plan, a zoning element or a supplementary regulation . In some Member States the actual textual regulation will be part of the data set (and can be put in the regulationText attribute), in other Member States the text will not be part of the data set and will be referenced via a reference to a document or a legal act.

At least one of the three voidable values shall be provided.

-- Description --

NOTE: The LegislationCitation is the value type of the attribute regulation reference. An example of a regulation reference would be: http://www2.vlaanderen.be/ruimtelijk/grup/00350/00362_00001/data/212_00362_00001_d_0BVR.pdf.

OfficialDocumentation
Version 1.0 Phase 1.0 Proposed
Wilko Quak created on 02/05/2022. Last modified 02/05/2022

CONSTRAINTS

 OCL. OneMustBeFilled

/*

** At least one of the values must be populated with a non-void value

*/


[Approved, Weight is 0.]

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from «featureType» OfficialDocumentation to «featureType» NLDAPDataUnit

[Direction is 'Source -> Destination'.]


ATTRIBUTES

 legislationCitation : LegislationCitation Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Definition --

Reference to the document that contains the text of the regulation.


[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 regulationText : CharacterString Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Definition --

Text of the regulation.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 planDocument : DocumentCitation Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Definition --

Citation of scanned plans and structural drawings which may sometimes be geo-referenced or not,. E.g. raster images, vector drawings or scanned text.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]




ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public (Class) OfficialDocumentation «featureType»

Target: Public datasetID (Class)
PlannedLandUseDataset «FeatureType»

Cardinality: [1]

ASSOCIATIONS	
<p> Association (direction: Destination -> Source)</p> <p>Source: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*]</p> <p>-- Definition -- Textual Regulation that is part of this zoning element.</p>	<p>Target: Public (Class) ZoningElement «featureType»</p>
<p> Association (direction: Destination -> Source)</p> <p>Source: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*]</p> <p>-- Definition -- Link to the official documents that relate to the spatial plan.</p>	<p>Target: Public (Class) SpatialPlan «featureType» Cardinality: [1]</p>
<p> Association (direction: Source -> Destination)</p> <p>Source: Public (Class) SupplementaryRegulation «featureType»</p>	<p>Target: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*]</p> <p>-- Definition -- Link to the Textual regulations that correspond to this supplementary regulation.</p>



1.3.4.10 OrdinanceValue

Class «dataType» in package 'PlannedLandUse'

-- Definition --

Reference to administrative ordinance. Ordinance is a regulation/rule that is adopted by an authority that is legally mandated to take such ordinance.

OrdinanceValue
Version 1.0 Phase 1.0 Proposed
quak created on 19/07/2022. Last modified 19/07/2022

ATTRIBUTES
<p> ordinanceDate : DateTime Public</p> <p>-- Definition -- Date of the relevant administrative ordinance.</p> <p>-- Description -- NOTE This attribute is multiple because, independently from the current legal status of the plan, there can be references to the dates of more than one ordinance, in relation to the different steps that the planning process has already undergone (e.g. ordinance for the preparation of a new plan, ordinance of adoption, ordinance of approval, etc.). [Is static True. Containment is Not Specified.]</p>
<p> ordinanceReference : CharacterString Public</p>

ATTRIBUTES

-- Definition --

Reference to relevant administrative ordinance.

-- Description --

NOTE This attribute is multiple because, independently from the current legal status of the plan, there can be references to more than one ordinance, in relation to the different steps that the planning process has already undergone (e.g. ordinance for the preparation of a new plan, ordinance of adoption, ordinance of approval, etc.).

[Is static True. Containment is Not Specified.]

1.3.4.11 PlannedLandUseDataset

Class «FeatureType» in package 'PlannedLandUse'

-- Name --

Planned land use data set

-- Definition --

An planned land use data set is a collection of areas for which information on planned (future) land uses is provided.

PlannedLandUseDataset

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 06/05/2022. Last modified 06/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «FeatureType» PlannedLandUseDataset to «featureType» NLDPDataset


[Direction is 'Source -> Destination'.]

ATTRIBUTES

 extent : GM_Surface Public


[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public (Class) OfficialDocumentation «featureType»

Target: Public datasetID (Class)
PlannedLandUseDataset «FeatureType»
Cardinality: [1]

 Association (direction: Source -> Destination) partOf

Source: Public (Class) SpatialPlan «featureType»


Target: Public datasetID (Class)
PlannedLandUseDataset «FeatureType»
Cardinality: [1]

 Association (direction: Source -> Destination) partOf

Source: Public (Class) SupplementaryRegulation «featureType»

Target: Public datasetID (Class)
PlannedLandUseDataset «FeatureType»
Cardinality: [1]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public (Class) ZoningElement «featureType»

Target: Public datasetID (Class)

PlannedLandUseDataset «FeatureType»

Cardinality: [1]

ABSTRACT

1.3.4.12 PlanTypeNameValue

Class «codeList» in package 'PlannedLandUse'

-- Name --

plan type name value

-- Definition --

Types of plans as defined in the Member States. The allowed values for this code list comprise any values defined by data providers.

-- Description --

NOTE For each plan type name a level of spatial plan must be provided using the enumeration LevelOfSpatialPlanValue

PlanTypeNameValue

Version 1.0 Phase 1.0 Proposed

quak created on 19/07/2022. Last modified 19/07/2022

1.3.4.13 ProcessStepGeneralValue

Class «codeList» in package 'PlannedLandUse'

-- Name --

process step general

-- Definition --

General indication of the step of the planning process that the plan is undergoing.

-- Description --

NOTE This enumeration contains values that are common to most planning systems.

ProcessStepGeneralValue

Version 1.0 Phase 1.0 Proposed

Wilko Quak created on 19/07/2022. Last modified 19/07/2022

1.3.4.14 RegulationNatureValue

Class «codeList» in package 'PlannedLandUse'

-- Name --

regulation nature

-- Definition --

Legal nature of the land use indication.

RegulationNatureValue

1.3.4.15 SpatialPlan

Class «featureType» in package 'PlannedLandUse'

-- Name --

spatial plan

-- Definition --







A set of documents that indicates a strategic direction for the development of a given geographic area, states the policies, priorities, programmes and land allocations that will implement the strategic direction and influences the distribution of people and activities in spaces of various scales. Spatial plans may be developed for urban planning, regional planning, environmental planning, landscape planning, national spatial plans, or spatial planning at the Union level.



SpatialPlan

Version 1.0 Phase 1.0 Proposed

Wilko Quak created on 02/05/2022. Last modified 02/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «featureType» SpatialPlan to «featureType» NLDDataUnit [Direction is 'Source -> Destination'.]</p>
ATTRIBUTES
<p>♦ extent : GM_MultiSurface Public</p> <p>-- Definition -- Geometrical union of all the instances of the spatial objects ZoningElement and SupplementaryRegulation. When a SpatialPlan is only composed of a document, the attribute extent is the border of the cartographic image that contains the land use information (i.e. the land use map extent). [Is static True. Containment is Not Specified.]</p>
<p>♦ officialTitle : CharacterString Public</p> <p>-- Definition -- Official title of the spatial plan. [Is static True. Containment is Not Specified.]</p>
<p>♦ levelOfSpatialPlan : LevelOfSpatialPlanValue Public</p> <p>-- Name -- level of spatial plan</p> <p>-- Definition -- Level of the administrative units covered by the plan.</p> <p>-- Description -- Member states should make a mapping to this enumeration. [Is static True. Containment is Not Specified.]</p>
<p>♦ alternativeTitle : CharacterString Public</p> <p>-- Definition -- Alternative (unofficial) title of the spatial plan.</p>

ATTRIBUTES	
[Stereotype is «voidable». Is static True. Containment is Not Specified.]	
<p> planTypeName : PlanTypeNameValue Public</p> <p>-- Definition -- Name of the type of plan that the Member State has given to the plan.</p> <p>-- Description -- NOTE The admissible values for this attribute are managed at the member state level via a code list</p> <p>EXAMPLE: FR: DTA, SCOT, PLU, etc. DE: Bebauungsplan, Flächennutzungsplan, Regionalplan, Landesentwicklungsplan NL: bestemmingsplan, structuurvisie.</p> <p>Properties: obligation = implementingRule</p>	[Is static True. Containment is Not Specified.]
<p> processStepGeneral : ProcessStepGeneralValue Public</p> <p>-- Definition -- General indication of the step of the planning process that the plan is undergoing.</p> <p>-- Description -- NOTE This enumeration contains values that are common to most planning systems.</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
<p> backgroundMap : BackgroundMapValue Public</p> <p>-- Name -- background map</p> <p>-- Definition -- Identification of the background map that has been used for constructing this Plan.</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
<p> ordinance : OrdinanceValue Public Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- Reference to relevant administrative ordinance.</p> <p>-- Description -- NOTE This attribute is multiple because, independently from the current legal status of the plan, there can be references to more than one ordinance, in relation to the different steps that the planning process has already undergone (e.g. ordinance for the preparation of a new plan, ordinance of adoption, ordinance of approval, etc.).</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
ASSOCIATIONS	
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) SpatialPlan «featureType»</p>	<p>Target: Public datasetID (Class) PlannedLandUseDataset «FeatureType» Cardinality: [1]</p>
<p> Association (direction: Bi-Directional)</p> <p>Source: Public plan (Class) SpatialPlan «featureType»</p>	<p>Target: Public member (Class) ZoningElement</p>

ASSOCIATIONS	
Cardinality: [1] -- Definition -- SpatialPlan which this ZoningElement belongs to.	«featureType» Cardinality: [0..*] -- Definition -- Reference to the ZoningElements which belong to this SpatialPlan.
 Association (direction: Bi-Directional) Source: Public plan (Class) SpatialPlan «featureType» Cardinality: [1] -- Definition -- Link to the plan this supplementary regulation is part of.	Target: Public restriction (Class) SupplementaryRegulation «featureType» Cardinality: [0..*] -- Definition -- Links to supplementary regulations providing information and/or limitations on the use of land/water that supplements the zoning as part of this spatial plan.
 Association (direction: Destination -> Source) Source: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*] -- Definition -- Link to the official documents that relate to the spatial plan.	Target: Public (Class) SpatialPlan «featureType» Cardinality: [1]

ABSTRACT

1.3.4.16 SpecificSupplementaryRegulationValue

Class «codeList» in package 'PlannedLandUse'

-- Name --

specific supplementary regulation value

-- Definition --

Category of supplementary regulation provided in a specific nomenclature of supplementary regulations provided by the data provider.

The allowed values for this code list comprise any values defined by data providers.

SpecificSupplementaryRegulationValue
 Version 1.0 Phase 1.0 Proposed
 quak created on 19/07/2022. Last modified 19/07/2022

1.3.4.17 SupplementaryRegulation

Class «featureType» in package 'PlannedLandUse'

-- Name --

supplementary regulation

-- Definition --

A spatial object (point, line or polygon) of a spatial plan that provides supplementary information and/or limitation of the use of land/water necessary for spatial planning reasons or to formalise external rules defined in legal text.

-- Description --

NOTE the supplementary regulations affects all land use that overlap with the geometry

EXAMPLE an air field generates restriction in its surroundings regarding aircraft landing, radar and telecommunication devices. It is the buffer around these artefacts that generates the supplementary regulation on the Land Use.

SupplementaryRegulation

Version 1.0 Phase 1.0 Proposed

Wilko Quak created on 02/05/2022. Last modified 02/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» SupplementaryRegulation to «featureType» NLDDataUnit
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ specificSupplementaryRegulation : LegislationCitation Public
Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Definition --

Reference to a category of supplementary regulation provided in a specific nomenclature of supplementary regulations provided by the data provider.

Properties:

obligation = implementingRule

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ processStepGeneral : ProcessStepGeneralValue Public

-- Definition --

General indication of the step of the planning process that the supplementary regulation is undergoing.

-- Description --

NOTE This enumeration contains values that are common to most planning systems.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ backgroundMap : BackgroundMapValue Public

-- Name --

background map

-- Definition --

Identification of the background map that has been used for constructing the supplementary regulation.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ dimensioningIndication : DimensioningIndicationValue Public
Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

-- Definition --







Specifications about the dimensioning that are added to the dimensioning of the zoning elements that overlap the geometry of the supplementary regulation.



[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ geometry : GM_Object Public

-- Definition --

Geometry of the piece of land on which the supplementary regulation applies.

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
<p> inheritedFromOtherPlans : Boolean Public</p> <p>-- Name -- inherited from other plans</p> <p>-- Definition -- Indication whether the supplementary regulation is inherited from another spatial plan.</p> <p>[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> specificRegulationNature : CharacterString Public</p> <p>-- Name -- specific regulation nature</p> <p>-- Definition -- Legal nature of the land use regulation from a national perspective.</p> <p>-- Description -- On member state level the legal classification for plan regulations may be complex. A supplementary regulation may be principally "bindingOnlyForAuthorities" but according to national law this regulation have to be more specified to explain the specific degree of binding. (e.g. on state or regional planning level in Germany: principles of spatial planning, other spatial planning requirements or goals of spatial planning).</p> <p>NOTE This attribute complements the information provided by the attribute regulationNature.</p> <p>[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> name : CharacterString Public</p> <p>Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- Official name of the supplementary regulation</p> <p>[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> regulationNature : RegulationNatureValue Public</p> <p>-- Definition -- Legal nature of the land use regulation.</p> <p>-- Description -- NOTE Indicates whether the land use regulation is legally binding or not.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> supplementaryRegulation : SupplementaryRegulationValue Public</p> <p>Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- Code of the supplementary regulation from the hierarchical supplementary regulation code list agreed at the European level.</p> <p>[Is static True. Containment is Not Specified.]</p>	
ASSOCIATIONS	
<p> Association (direction: Source -> Destination)</p> <p>Source: Public (Class) SupplementaryRegulation «featureType»</p> <p>Target: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*]</p> <p>-- Definition --</p>	

ASSOCIATIONS	
	Link to the Textual regulations that correspond to this supplementary regulation.
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) SupplementaryRegulation «featureType»</p>	<p>Target: Public datasetID (Class) PlannedLandUseDataset «FeatureType» Cardinality: [1]</p>
<p> Association (direction: Bi-Directional)</p> <p>Source: Public plan (Class) SpatialPlan «featureType» Cardinality: [1]</p> <p>-- Definition -- Link to the plan this supplementary regulation is part of.</p>	<p>Target: Public restriction (Class) SupplementaryRegulation «featureType» Cardinality: [0..*]</p> <p>-- Definition -- Links to supplementary regulations providing information and/or limitations on the use of land/water that supplements the zoning as part of this spatial plan.</p>

1.3.4.18 SupplementaryRegulationValue

Class «codeList» in package 'PlannedLandUse'

-- Name --

supplementary regulation value

-- Definition --

Types of conditions and constraints in spatial plans.

-- Description --

This list is populated with the categories of the Hierarchical Supplementary Regulation Code List (HSRCL).

SupplementaryRegulationValue

Version 1.0 Phase 1.0 Proposed

Wilko Quak created on 19/07/2022. Last modified 19/07/2022

1.3.4.19 ZoningElement

Class «featureType» in package 'PlannedLandUse'

-- Name --

zoning element

-- Definition --

A spatial object which is homogeneous regarding the permitted uses of land based on zoning which separate one set of land uses from another.

-- Description --

Zoning elements refer to the regulation of the kinds of activities which will be acceptable on particular lots (such as open space, residential, agricultural, commercial or industrial). The intensity of use at which those activities can be performed (from low-density housing such as single family homes to high-density such as high-rise apartment buildings), the height of buildings, the amount of space that structures may occupy, the proportions of the types of space on a lot, such as how much landscaped space, impervious surface, traffic lanes, and parking may be provided.

ZoningElement

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ZoningElement to «featureType» NLDPDataUnit
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ geometry : GM_MultiSurface Public
-- Definition --
Geometry of this zoning element
[Is static True. Containment is Not Specified.]



◆ hilucsLandUse : HILUCSValue Public
Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)
-- Definition --
Land use HILUCS class that is dominant in this land use object.
Properties:
obligation = implementingRule
[Is static True. Containment is Not Specified.]




◆ hilucsPresence : HILUCSPresence Public
-- Name --
land use presence
-- Definition --
Actual presence of a land use HILUCS category within the object.
[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ specificLandUseObservation : LandUseObservation Public
Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)
-- Definition --
Land Use Category according to the nomenclature specific to this data set.
-- Description --
Reference to an entry in the classification that is part of the SpecificLandUseClassification.
[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ regulationNature : RegulationNatureValue Public
-- Definition --
Legal nature of the land use indication.
-- Description --
NOTE Indicates whether the land use indication is legally binding or not.
[Is static True. Containment is Not Specified.]

◆ processStepGeneral : ProcessStepGeneralValue Public
-- Definition --
General indication of the step of the planning process that the zoning element is undergoing.
-- Description --

ATTRIBUTES
<p>NOTE This enumeration contains values that are common to most planning systems. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>
<p> backgroundMap : BackgroundMapValue Public</p> <p>-- Name -- background map</p> <p>-- Definition -- Identification of the background map that has been used for constructing this zoning element. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>
<p> dimensioningIndication : DimensioningIndicationValue Public Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- Specifications about the dimensioning of the urban developments. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>

ASSOCIATIONS
<p> Association (direction: Source -> Destination) partOf</p> <p>Source: Public (Class) ZoningElement «featureType»</p> <p>Target: Public datasetID (Class) PlannedLandUseDataset «FeatureType» Cardinality: [1]</p>
<p> Association (direction: Destination -> Source)</p> <p>Source: Public «voidable» officialDocument (Class) OfficialDocumentation «featureType» Cardinality: [1..*]</p> <p>-- Definition -- Textual Regulation that is part of this zoning element.</p> <p>Target: Public (Class) ZoningElement «featureType»</p>
<p> Association (direction: Bi-Directional)</p> <p>Source: Public plan (Class) SpatialPlan «featureType» Cardinality: [1]</p> <p>-- Definition -- SpatialPlan which this ZoningElement belongs to.</p> <p>Target: Public member (Class) ZoningElement «featureType» Cardinality: [0..*]</p> <p>-- Definition -- Reference to the ZoningElements which belong to this SpatialPlan.</p>

1.3.5 PotentialLandUse

Package in package 'LandUse'

PotentialLandUse

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 21/12/2022. Last modified 21/12/2022

1.3.5.1 Potential Land Use diagram

Class diagram in package 'PotentialLandUse'

Potential Land Use

Version 1.0

CPopplestone created on 21/12/2022. Last modified 22/12/2022

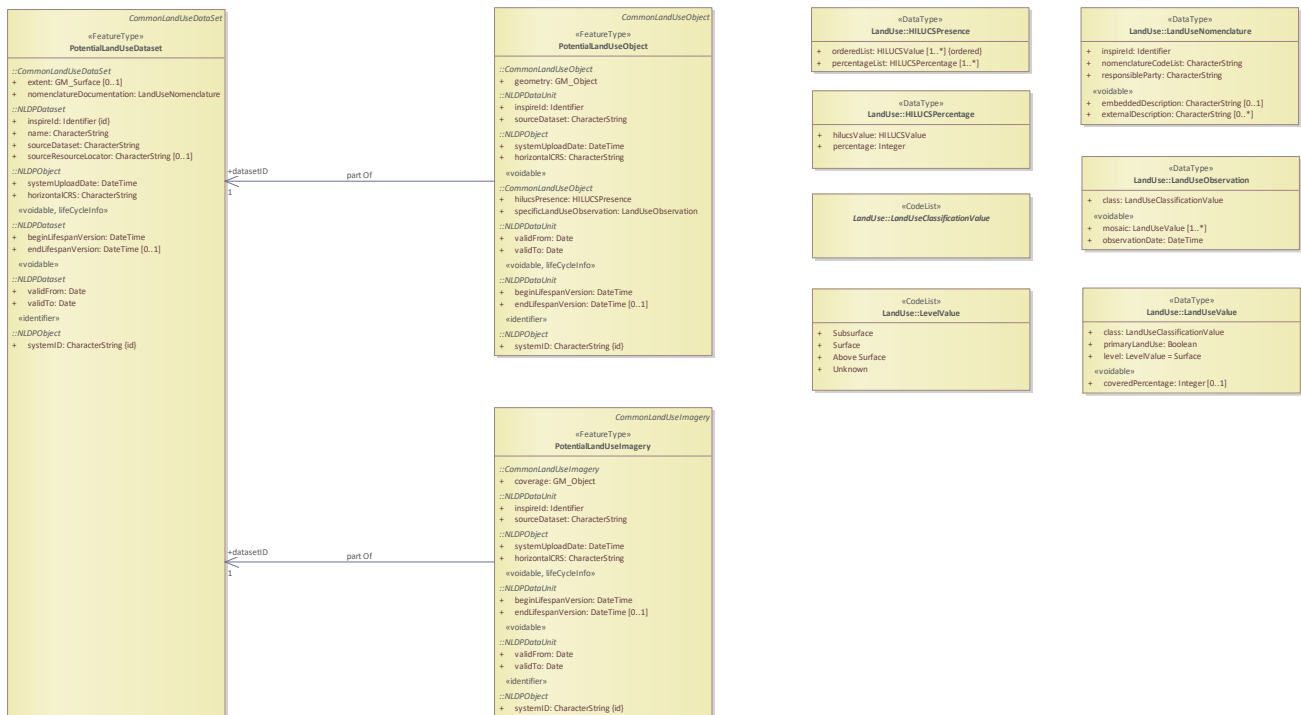


Figure 7: Potential Land Use

1.3.5.2 PotentialLandUseDataset

Class «FeatureType» in package 'PotentialLandUse'

-- Name --

potential land use data set


-- Definition --

A potential land use data set is a collection of areas for which information on potential (not past, existing or planned but possible) land uses is provided.

PotentialLandUseDataset
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 22/12/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS
Generalization from «FeatureType» PotentialLandUseDataset to «FeatureType» CommonLandUseDataSet [Direction is 'Source -> Destination'.]

ASSOCIATIONS
Association (direction: Source -> Destination) part Of

ASSOCIATIONS	
Source: Public (Class) PotentialLandUseObject «FeatureType»	Target: Public datasetID (Class) PotentialLandUseDataset «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) part Of	
Source: Public (Class) PotentialLandUseImagery «FeatureType»	Target: Public datasetID (Class) PotentialLandUseDataset «FeatureType» Cardinality: [1]

1.3.5.3 PotentialLandUseImagery

Class «FeatureType» in package 'PotentialLandUse'


-- Name --


potential land use imagery

-- Definition --

Gridded imagery representing areas suitable for a particular land use.

PotentialLandUseImagery
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 22/12/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from «FeatureType» PotentialLandUseImagery to «FeatureType» CommonLandUseImagery [Direction is 'Source -> Destination'.]

ASSOCIATIONS	
 Association (direction: Source -> Destination) part Of	
Source: Public (Class) PotentialLandUseImagery «FeatureType»	Target: Public datasetID (Class) PotentialLandUseDataset «FeatureType» Cardinality: [1]

1.3.5.4 PotentialLandUseObject

Class «FeatureType» in package 'PotentialLandUse'

-- Name --

potential land use object

-- Definition --

An potential land use object describes the land use(s) an area is suitable for.

PotentialLandUseObject
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 22/12/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «FeatureType» PotentialLandUseObject to «FeatureType» CommonLandUseObject
[Direction is 'Source -> Destination'.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination) part Of
Source: Public (Class) PotentialLandUseObject «FeatureType» Target: Public datasetID (Class)
PotentialLandUseDataset «FeatureType»
Cardinality: [1]

ABSTRACT

1.3.6 CommonLandUseDataSet

Class «FeatureType» in package 'LandUse'

-- Name --

common land use data set

-- Definition --

Parent class for existing and potential land use datasets.

CommonLandUseDataSet
Version 1.0 Phase 1.0 Proposed
quak created on 06/03/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «FeatureType» CommonLandUseDataSet to «featureType» NLDataset
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from «FeatureType» PotentialLandUseDataset to «FeatureType» CommonLandUseDataSet
[Direction is 'Source -> Destination'.]

⇒ Realization from «FeatureType» ExistingLandUseDataSet to «FeatureType» CommonLandUseDataSet
[Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» ExistingLandUseDataset to «FeatureType» CommonLandUseDataSet
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ extent : GM_Surface Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)
[Is static True. Containment is Not Specified.]

◆ nomenclatureDocumentation : LandUseNomenclature Public

ATTRIBUTES

[Is static True. Containment is Not Specified.]

ABSTRACT

1.3.7 CommonLandUseImagery

Class «FeatureType» in package 'LandUse'

-- Name --

common land use imagery

-- Definition --

Parent class for gridded imagery representing existing or potential land use.

CommonLandUseImagery

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 31/03/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «FeatureType» CommonLandUseImagery to «featureType» NLDAPDataUnit
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from «FeatureType» ExistingLandUseImagery to «FeatureType» CommonLandUseImagery
[Direction is 'Source -> Destination'.]

→ Generalization from «FeatureType» PotentialLandUseImagery to «FeatureType» CommonLandUseImagery
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ coverage : GM_Object Public
[Is static True. Containment is Not Specified.]

ABSTRACT

1.3.8 CommonLandUseObject

Class «FeatureType» in package 'LandUse'

-- Name --

common land use object

-- Definition --

Parent class for existing and potential land use objects.

CommonLandUseObject

Version 1.0 Phase 1.0 Proposed

quak created on 06/03/2022. Last modified 22/12/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «FeatureType» CommonLandUseObject to «featureType» NLDPDataUnit
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Realization from «FeatureType» ExistingLandUseObject to «FeatureType» CommonLandUseObject
[Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» PotentialLandUseObject to «FeatureType» CommonLandUseObject
[Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» ExistingLandUseObject to «FeatureType» CommonLandUseObject
[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ geometry : GM_Object Public

-- Definition --
Geometric representation of spatial area covered by this spatial object.

[Is static True. Containment is Not Specified.]

◆ hilucsPresence : HILUCSPresence Public

-- Name --
land use presence
-- Definition --
Actual presence of a land use category according to HILUCS within the object.

Properties:
obligation = implementingRule

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ specificLandUseObservation : LandUseObservation Public

-- Definition --
Land Use Category according to the nomenclature specific to this data set.
-- Description --
Reference to an entry in the classification that is part of the SpecificLandUseClassification.

Properties:
obligation = implementingRule

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.3.9 HILUCSPercentage

Class «DataType» in package 'LandUse'

-- Name --
HILUCS percentage

-- Definition --



Percentage of land use object that is covered by this HILUCS presence.

-- Description --

NOTE1:The percentage is according to the socio-economic or functional importance of the use.

NOTE2:examples are provided in the narrative description part of the data specification.

HILUCSPercentage
Version 1.0 Phase 1.0 Proposed
quak created on 06/03/2022. Last modified 22/12/2022

ATTRIBUTES
<p> hilucsValue : HILUCSValue Public</p> <p>-- Definition -- HILUCS category for this HILUCS percentage.</p> <p>Properties: obligation = implementingRule</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>
<p> percentage : Integer Public</p> <p>-- Definition -- Percentage of land use object that is covered by this specific presence.</p> <p>-- Description -- NOTE The percentage is according to the socio-economic importance of the use. In section 5.2.1.1.2. examples of the use of percentages are given.</p> <p style="text-align: right;">[Is static True. Containment is Not Specified.]</p>

1.3.10 HILUCSPresence

Class «DataType» in package 'LandUse'

-- Name --

HILUCS presence

-- Definition --

Presence of one or several HILUCS values in an area, indicated either as the percentage covered for each value or as the values listed in their order of importance.

-- Description --



The HILUCS presence data type enables the provision of information on land uses inside one land use object in order to collect more than one land use existence perfectly identifiable by importance order or percentages.

NOTE 1: The order of land use value presence without percentages enable providing an order of dominance/importance of each land use present in the land use object

NOTE 2: The sum of the percentages can be below 100%, or above. The order is provided according to the respective importance when the percentages are not known.

HILUCSPresence
Version 1.0 Phase 1.0 Proposed
quak created on 06/03/2022. Last modified 22/12/2022

ATTRIBUTES

ATTRIBUTES	
<ul style="list-style-type: none">  orderedList : HILUCSValue Public Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: True) Properties: <ul style="list-style-type: none"> obligation = implementingRule 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  percentageList : HILUCSPercentage Public Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False) 	[Is static True. Containment is Not Specified.]

1.3.11 HILUCSValue









Class «CodeList» in package 'LandUse'

HILUCS Value Codelist

This list is populated with the land use categories of the Hierarchical INSPIRE Land Use Classification System (HILUCS).

The elements of the list should be both applicable to existing land use and planned land use.

HILUCSValue
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 31/03/2022. Last modified 22/12/2022

ATTRIBUTES	
<ul style="list-style-type: none">  primary production : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  agriculture : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  commercial agricultural production : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  farming infrastructure : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  agricultural production for own consumption : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  forestry : Public 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  forestry based on short rotation : 	[Is static True. Containment is Not Specified.]
<ul style="list-style-type: none">  forestry based on intermediate or long rotation : 	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
◆ forestry based on continuous cover :	[Is static True. Containment is Not Specified.]
◆ mining and quarrying :	[Is static True. Containment is Not Specified.]
◆ mining of energy producing materials :	[Is static True. Containment is Not Specified.]
◆ mining of metal ores :	[Is static True. Containment is Not Specified.]
◆ other mining and quarrying :	[Is static True. Containment is Not Specified.]
◆ aquaculture and fishing :	[Is static True. Containment is Not Specified.]
◆ aquaculture :	[Is static True. Containment is Not Specified.]
◆ professional fishing :	[Is static True. Containment is Not Specified.]
◆ other primary production :	[Is static True. Containment is Not Specified.]
◆ hunting :	[Is static True. Containment is Not Specified.]
◆ management of migratory animals :	[Is static True. Containment is Not Specified.]
◆ picking of natural products :	[Is static True. Containment is Not Specified.]
◆ secondary production :	[Is static True. Containment is Not Specified.]
◆ raw industry :	[Is static True. Containment is Not Specified.]
◆ manufacturing of textile products :	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
◆ manufacturing of wood and wood based products :	[Is static True. Containment is Not Specified.]
◆ manufacturing of pulp paper and paper products :	[Is static True. Containment is Not Specified.]
◆ manufacturing of coke refined petroleum products and nuclear fuel :	[Is static True. Containment is Not Specified.]
◆ manufacturing of chemicals chemical products man made fibers :	[Is static True. Containment is Not Specified.]
◆ manufacturing of basic metals and fabricate metals :	[Is static True. Containment is Not Specified.]
◆ manufacturing of non-metallic mineral products :	[Is static True. Containment is Not Specified.]
◆ manufacturing of rubber plastic products :	[Is static True. Containment is Not Specified.]
◆ manufacturing of other raw materials :	[Is static True. Containment is Not Specified.]
◆ heavy end product industry :	[Is static True. Containment is Not Specified.]
◆ manufacturing of machinery :	[Is static True. Containment is Not Specified.]
◆ manufacturing of vehicles and transport equipment :	[Is static True. Containment is Not Specified.]
◆ manufacturing of other heavy end products :	[Is static True. Containment is Not Specified.]
◆ light end product industry :	[Is static True. Containment is Not Specified.]
◆ manufacturing of food beverages and tobacco products :	[Is static True. Containment is Not Specified.]
◆ manufacturing of clothes and leather :	[Is static True. Containment is Not Specified.]
◆ publishing and printing :	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
◆ manufacturing of electrical and optical equipment :	[Is static True. Containment is Not Specified.]
◆ manufacturing of other light end products :	[Is static True. Containment is Not Specified.]
◆ energy production :	[Is static True. Containment is Not Specified.]
◆ nuclear based energy production :	[Is static True. Containment is Not Specified.]
◆ fossil fuel based energy production :	[Is static True. Containment is Not Specified.]
◆ biomass based energy production :	[Is static True. Containment is Not Specified.]
◆ renewable energy production :	[Is static True. Containment is Not Specified.]
◆ other industry :	[Is static True. Containment is Not Specified.]
◆ tertiary production :	[Is static True. Containment is Not Specified.]
◆ commercial services :	[Is static True. Containment is Not Specified.]
◆ wholesale and retail trade and repair of vehicles and personal and household goods :	[Is static True. Containment is Not Specified.]
◆ real estate services :	[Is static True. Containment is Not Specified.]
◆ accommodation and food services :	[Is static True. Containment is Not Specified.]
◆ other commercial services :	[Is static True. Containment is Not Specified.]
◆ financial professional and information services :	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
◆ financial and insurance services :	[Is static True. Containment is Not Specified.]
◆ professional technical and scientific services :	[Is static True. Containment is Not Specified.]
◆ information and communication services :	[Is static True. Containment is Not Specified.]
◆ administrative and support services :	[Is static True. Containment is Not Specified.]
◆ other financial professional and information services :	[Is static True. Containment is Not Specified.]
◆ community services :	[Is static True. Containment is Not Specified.]
◆ public administration defence and social security services :	[Is static True. Containment is Not Specified.]
◆ educational services :	[Is static True. Containment is Not Specified.]
◆ health and social services :	[Is static True. Containment is Not Specified.]
◆ religious services :	[Is static True. Containment is Not Specified.]
◆ other community services :	[Is static True. Containment is Not Specified.]
◆ cultural entertainment and recreational services :	[Is static True. Containment is Not Specified.]
◆ cultural services :	[Is static True. Containment is Not Specified.]
◆ entertainment services :	[Is static True. Containment is Not Specified.]
◆ sports infrastructure :	[Is static True. Containment is Not Specified.]
◆ open air recreational areas :	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
◆ other recreational services :	[Is static True. Containment is Not Specified.]
◆ other services :	[Is static True. Containment is Not Specified.]
◆ transport networks logistics and utilities :	[Is static True. Containment is Not Specified.]
◆ transport networks :	[Is static True. Containment is Not Specified.]
◆ road transport :	[Is static True. Containment is Not Specified.]
◆ railway transport :	[Is static True. Containment is Not Specified.]
◆ air transport :	[Is static True. Containment is Not Specified.]
◆ water transport :	[Is static True. Containment is Not Specified.]
◆ other transport network :	[Is static True. Containment is Not Specified.]
◆ logistical and storage services :	[Is static True. Containment is Not Specified.]
◆ utilities :	[Is static True. Containment is Not Specified.]
◆ electricity gas and thermal power distribution services :	[Is static True. Containment is Not Specified.]
◆ water and sewage infrastructure :	[Is static True. Containment is Not Specified.]
◆ waste treatment :	[Is static True. Containment is Not Specified.]
◆ other utilities :	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
◆ residential use :	[Is static True. Containment is Not Specified.]
◆ permanent residential use :	[Is static True. Containment is Not Specified.]
◆ residential use with other compatible uses :	[Is static True. Containment is Not Specified.]
◆ other residential use :	[Is static True. Containment is Not Specified.]
◆ other uses :	[Is static True. Containment is Not Specified.]
◆ transitional areas :	[Is static True. Containment is Not Specified.]
◆ abandoned areas :	[Is static True. Containment is Not Specified.]
◆ natural areas not in other economic use :	[Is static True. Containment is Not Specified.]
◆ land areas not in other economic use :	[Is static True. Containment is Not Specified.]
◆ water areas not in other economic use :	[Is static True. Containment is Not Specified.]
◆ areas where any use allowed :	[Is static True. Containment is Not Specified.]
◆ areas without any specified planned use :	[Is static True. Containment is Not Specified.]
◆ not known use :	[Is static True. Containment is Not Specified.]

ABSTRACT

1.3.12 LandUseClassificationValue

Class «CodeList» in package 'LandUse'

-- Name --

land use classification value

-- Definition --

List of land use categories to be used in NLDP Land Use for a specific dataset.

-- Description --

This CodeList is empty in the NLDP context and must be extended for each Land Use dataset.

LandUseClassificationValue

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 06/03/2022. Last modified 22/12/2022

1.3.13 LandUseNomenclature

Class «DataType» in package 'LandUse'

-- Name --

Land Use Nomenclature

-- Definition --

Information about reference national, institutional or local Land Use nomenclature.

-- Description --


Land Use Nomenclature allows to reference nomenclatures documentation and associated code list, and to define them through an external reference or included within the data.

LandUseNomenclature

Version 1.0 Phase 1.0 Proposed

DSarafinof created on 16/03/2022. Last modified 22/12/2022


CONSTRAINTS

 OCL. ExternalOrEmbeddedDescription

/ The embedded description or the external description shall be provided. */*

[Proposed, Weight is 0.]

ATTRIBUTES

 embeddedDescription : CharacterString Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

embedded Description


-- Definition --

An embedded encoding of the classification system according to ISO 19144-2.

Constraints:

description : OCL




[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 inspireId : Identifier Public

-- Name --

inspireId

-- Definition --

ATTRIBUTES	
<p>External object identifier of the spatial object.</p> <p>-- Description -- NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> nomenclatureCodeList : CharacterString Public</p> <p>-- Name -- nomenclatureCodeList</p> <p>-- Definition -- An http URI pointing to the code list attached to the nomenclature used.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> externalDescription : CharacterString Public Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- externalDescription</p> <p>-- Definition -- Document describing the nomenclature used in this data set.</p> <p>[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> responsibleParty : CharacterString Public</p> <p>-- Name -- responsible party</p> <p>-- Definition -- Party responsible for the development and/or maintenance of the nomenclature.</p> <p>-- Description -- The responsible party could be EEA, a national or local mapping agency, ...</p> <p>[Is static True. Containment is Not Specified.]</p>	

1.3.14 LandUseObservation


Class «DataType» in package 'LandUse'

-- Name --
Land Use Observation

-- Definition --
Land Use information interpreted at a specific time and place.

LandUseObservation
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 16/03/2022. Last modified 22/12/2022


CONSTRAINTS

 OCL. coveredPercentagesLowerThan100

/* The sum of all coveredPercentage attributes attached to each LandCoverObservation shall be lower or equal to 100*/
inv:mosaic.coveredPercentage.sum() <= 100

[Approved, Weight is 0.]

ATTRIBUTES

 class : LandUseClassificationValue Public

-- Name --
class

-- Definition --
The assignment of a land use class to a land use unit through a classification code identifier

Properties:

extensibility = any
obligation = technicalGuidance
vocabulary =

[Is static True. Containment is Not Specified.]


 mosaic : LandUseValue Public

Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Name --
mosaic

-- Definition --
List of classification values describing into details a land use unit, associated with percentages.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 observationDate : DateTime Public

-- Name --
observationDate

-- Definition --
The observation date associated of an observation.

-- Description --
Defines the observation date of the classification value. It could be the date of an aerial/satellital acquisition or of an update on the field. The observation date allows the user to have accurate date of when each value was observed in the real word. In a database, not all polygon informations are necessarily updated at the same time.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.3.15 LandUseValue





Class «DataType» in package 'LandUse'

-- Name --
Land Use Value

-- Definition --

Generic class supporting Land Use value and percentage.

LandUseValue
Version 1.0 Phase 1.0 Proposed
DSarafinof created on 16/03/2022. Last modified 22/12/2022

ATTRIBUTES	
<p> class : LandUseClassificationValue Public</p> <p>-- Name -- class</p> <p>-- Definition -- Assignment of a land use spatial object to a land use class through a classification code identifier.</p> <p>-- Description --</p> <p>Properties: extensibility = any obligation = technicalGuidance vocabulary =</p>	<p>[Is static True. Containment is Not Specified.]</p>
<p> coveredPercentage : Integer Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- Covered percentage</p> <p>-- Definition -- Fraction of the LandCoverUnit being concerned with the classification value.</p>	<p>[Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>
<p> primaryLandUse : Boolean Public</p>	<p>[Is static True. Containment is Not Specified.]</p>
<p> level : LevelValue Public = Surface</p>	<p>[Is static True. Containment is Not Specified.]</p>

1.3.16 LevelValue

Class «CodeList» in package 'LandUse'

LevelValue
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 05/05/2022. Last modified 22/12/2022

ATTRIBUTES	
<p> Subsurface : Public</p>	<p>[Is static True. Containment is Not Specified.]</p>

ATTRIBUTES	
Surface : Public	[Is static True. Containment is Not Specified.]
Above Surface : Public	[Is static True. Containment is Not Specified.]
Unknown : Public	[Is static True. Containment is Not Specified.]

1.4 ProtectedSites

Package in package 'NLDP_Logical_Model'

ProtectedSites

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 02/05/2022. Last modified 08/09/2022

1.4.1 ProtectedSites diagram

GML diagram in package 'ProtectedSites'

ProtectedSites

Version 1.0

CPopplestone created on 02/05/2022. Last modified 29/11/2022

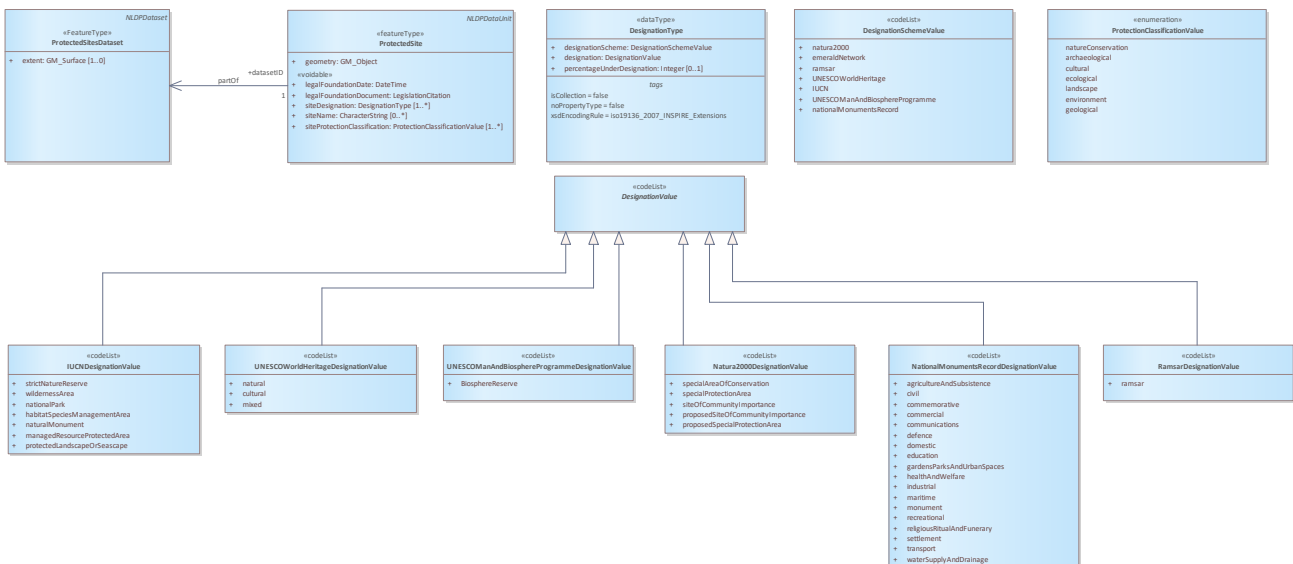


Figure 8: ProtectedSites

1.4.2 DesignationSchemeValue

Class «codeList» in package 'ProtectedSites'

-- Definition --







The scheme used to assign a designation to the Protected Sites.


-- Description --

NOTE 1 Schemes may be internationally recognised (for example, Natura2000 or the Emerald Network schemes), or may be national schemes (for example, the designations used for nature conservation in a particular Member State).

NOTE 2 Typically, this code list will be extended with code schemes used within Member States.

DesignationSchemeValue
Version 1.0 Phase 1.0 Proposed
lgzkms created on 05/05/2022. Last modified 05/05/2022

ATTRIBUTES
<p> natura2000 : Public</p> <p>-- Definition -- The Protected Site has a designation under either the Habitat Directive (92/43/EEC) or the Birds Directive (79/409/EEC). [Is static True. Containment is Not Specified.]</p>
<p> emeraldNetwork : Public</p> <p>-- Definition -- The Protected Site has a designation under the Emerald Network.</p> <p>-- Description -- The Emerald Network is an ecological network to conserve wild flora and fauna and their natural habitats in Europe. [Is static True. Containment is Not Specified.]</p>
<p> ramsar : Public</p> <p>-- Definition -- The Protected Site has a designation under the Ramsar Convention.</p> <p>-- Description -- The Ramsar Convention provides the framework for national action and international cooperation for the conservation and wise use of wetlands and their resources. [Is static True. Containment is Not Specified.]</p>
<p> UNESCOWorldHeritage : Public</p> <p>-- Definition -- The Protected Site has a designation under UNESCO World Heritage Convention. [Is static True. Containment is Not Specified.]</p>
<p> IUCN : Public</p> <p>-- Definition -- The Protected Site has a classification using the International Union for Conservation of Nature classification scheme. [Is static True. Containment is Not Specified.]</p>
<p> UNESCOManAndBiosphereProgramme : Public</p> <p>-- Definition -- The Protected Site has a designation under UNESCO Man and Biosphere programme.</p>

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
 nationalMonumentsRecord : Public -- Definition -- The Protected Site has a classification using the National Monuments Record classification scheme.	[Is static True. Containment is Not Specified.]


1.4.3 DesignationType



Class «dataType» in package 'ProtectedSites'

-- Definition --

A data type designed to contain a designation for the Protected Site, including the designation scheme used and the value within that scheme.

DesignationType
Version 1.0 Phase 1.0 Proposed
lgzkms created on 05/05/2022. Last modified 05/05/2022

CONSTRAINTS	
 OCL. DesignationConstraint <pre> /*Sites must use designations from an appropriate designation scheme, and the designation code value must agree with the designation scheme.*/ inv: self.designationScheme = DesignationSchemeValue::natura2000 implies self.designation.oclsKindOf(DesignationValueNatura2000) and self.designationScheme = DesignationSchemeValue::emeraldNetwork implies self.designation.oclsKindOf(DesignationValueEmeraldNetwork) and self.designationScheme = DesignationSchemeValue::ramsar implies self.designation.oclsKindOf(DesignationValueRamsar) and self.designationScheme = DesignationSchemeValue::UNESCOWorldHeritage implies self.designation.oclsKindOf(DesignationValueUNESCOWorldHeritage) and self.designationScheme = DesignationSchemeValue::IUCN implies self.designation.oclsKindOf(DesignationValueIUCN) and self.designationScheme = DesignationSchemeValue::UNESCOManAndBiosphereProgramme implies self.designation.oclsKindOf(DesignationValueUNESCOManAndBiosphereProgramme) and self.designationScheme = DesignationSchemeValue::nationalMonumentsRecord implies self.designation.oclsKindOf(DesignationValueNationalMonumentsRecord) </pre>	[Approved, Weight is 0.]

ATTRIBUTES	
 designationScheme : DesignationSchemeValue Public -- Definition -- The scheme from which the designation code comes.	[Is static True. Containment is Not Specified.]
 designation : DesignationValue Public -- Definition --	

ATTRIBUTES	
The actual Site designation.	[Is static True. Containment is Not Specified.]
<p>percentageUnderDesignation : Integer Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- The percentage of the site that falls under the designation. This is used in particular for the IUCN categorisation. If a value is not provided for this attribute, it is assumed to be 100%</p>	[Is static True. Containment is Not Specified.]

ABSTRACT

1.4.4 DesignationValue

Class «codeList» in package 'ProtectedSites'

-- Definition --

Abstract base type for code lists containing the classification and designation types under different schemes.

-- Description --

NOTE 1 Some of these designation and classification lists are closed (for example, Natura2000), while some change regularly.

NOTE 2 Typically, additional code lists will be created as sub-types of this type to represent designation or classification values within Member States, e.g. natuurbeschermingsGebieden, rijksBeschermdArcheologischeGebieden, nationaleParken, nationaleLandschappen etc. in the Netherlands.

DesignationValue
 Version 1.0 Phase 1.0 Proposed
 lgzkms created on 05/05/2022. Last modified 05/05/2022

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from «codeList» Natura2000DesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]
⇒ Generalization from «codeList» IUCNDesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]
⇒ Generalization from «codeList» UNESCOManAndBiosphereProgrammeDesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]
⇒ Generalization from «codeList» UNESCOWorldHeritageDesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]
⇒ Generalization from «codeList» NationalMonumentsRecordDesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]
⇒ Generalization from «codeList» RamsarDesignationValue to «codeList» DesignationValue	[Direction is 'Source -> Destination'.]

1.4.5 IUCNDesignationValue

Class «codeList» in package 'ProtectedSites'

-- Definition --

A code list for the International Union for the Conservation of Nature classification scheme.

IUCNDesignationValue

Version 1.0 Phase 1.0 Proposed

lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «codeList» IUCNDesignationValue to «codeList» DesignationValue

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ strictNatureReserve : Public

-- Definition --

The Protected Site is classified as a strict nature reserve under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

◆ wildernessArea : Public

-- Definition --

The Protected Site is classified as a wilderness area under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

◆ nationalPark : Public

-- Definition --

The Protected Site is classified as a national park under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

◆ habitatSpeciesManagementArea : Public

-- Definition --

The Protected Site is classified as a habitat species management area under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

◆ naturalMonument : Public

-- Definition --

The Protected Site is classified as a natural monument under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

◆ managedResourceProtectedArea : Public

-- Definition --

The Protected Site is classified as a managed resource protected area under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

ATTRIBUTES

 protectedLandscapeOrSeascape : Public

-- Definition --

The Protected Site is classified as a protected landscape or seascape under the IUCN classification scheme.

[Is static True. Containment is Not Specified.]

1.4.6 NationalMonumentsRecordDesignationValue

Class «codeList» in package 'ProtectedSites'

-- Definition --


A code list for the National Monuments Record classification scheme.

NationalMonumentsRecordDesignationValue

Version 1.0 Phase 1.0 Proposed


lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from «codeList» NationalMonumentsRecordDesignationValue to «codeList» DesignationValue

[Direction is 'Source -> Destination'.]


ATTRIBUTES

 agricultureAndSubsistence : Public

-- Definition --

The Protected Site is classified as an agricultural or subsistence monument under the National Monuments Record classification scheme.

[Is static True. Containment is Not Specified.]

 civil : Public

-- Definition --

The Protected Site is classified as a civil monument under the National Monuments Record classification scheme.


[Is static True. Containment is Not Specified.]

 commemorative : Public

-- Definition --

The Protected Site is classified as a commemorative monument under the National Monuments Record classification scheme.










[Is static True. Containment is Not Specified.]






 commercial : Public

-- Definition --

The Protected Site is classified as a commercial monument under the National Monuments Record classification scheme.

[Is static True. Containment is Not Specified.]

ATTRIBUTES	
<p> communications : Public</p> <p>-- Definition -- The Protected Site is classified as a communications monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> defence : Public</p> <p>-- Definition -- The Protected Site is classified as a defence monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> domestic : Public</p> <p>-- Definition -- The Protected Site is classified as a domestic monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> education : Public</p> <p>-- Definition -- The Protected Site is classified as a education monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> gardensParksAndUrbanSpaces : Public</p> <p>-- Definition -- The Protected Site is classified as a garden, park or urban space monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> healthAndWelfare : Public</p> <p>-- Definition -- The Protected Site is classified as a health and welfare monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> industrial : Public</p> <p>-- Definition -- The Protected Site is classified as a industrial monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> maritime : Public</p> <p>-- Definition -- The Protected Site is classified as a maritime monument under the National Monuments Record classification scheme.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> monument : Public</p> <p>-- Definition -- The Protected Site is classified as a monument with some unclassified form under the National Monuments Record</p>	

ATTRIBUTES	
classification scheme.	[Is static True. Containment is Not Specified.]
<p> recreational : Public</p> <p>-- Definition -- The Protected Site is classified as a recreational monument under the National Monuments Record classification scheme.</p>	[Is static True. Containment is Not Specified.]
<p> religiousRitualAndFunerary : Public</p> <p>-- Definition -- The Protected Site is classified as a religious, ritual or funerary monument under the National Monuments Record classification scheme.</p>	[Is static True. Containment is Not Specified.]
<p> settlement : Public</p> <p>-- Definition -- The Protected Site is classified as a settlement under the National Monuments Record classification scheme.</p>	[Is static True. Containment is Not Specified.]
<p> transport : Public</p> <p>-- Definition -- The Protected Site is classified as a transport monument under the National Monuments Record classification scheme.</p>	[Is static True. Containment is Not Specified.]
<p> waterSupplyAndDrainage : Public</p> <p>-- Definition -- The Protected Site is classified as a water supply and drainage monument under the National Monuments Record classification scheme.</p>	[Is static True. Containment is Not Specified.]


1.4.7 Natura2000DesignationValue

Class «codeList» in package 'ProtectedSites'

-- Definition --

A code list for the Natura2000 designation scheme.

Natura2000DesignationValue
Version 1.0 Phase 1.0 Proposed
lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS
<p> Generalization from «codeList» Natura2000DesignationValue to «codeList» DesignationValue</p> <p>[Direction is 'Source -> Destination'.]</p>

ATTRIBUTES
<p>◆ specialAreaOfConservation : Public</p> <p>-- Definition -- The Protected Site is designated as a Special Area of Conservation (SAC) under Natura2000. [Is static True. Containment is Not Specified.]</p>
<p>◆ specialProtectionArea : Public</p> <p>-- Definition -- The Protected Site is designated as a Special Protection Area (SPA) under Natura2000. [Is static True. Containment is Not Specified.]</p>
<p>◆ siteOfCommunityImportance : Public</p> <p>-- Definition -- The Protected Site is designated as a Site of Community Interest (SCI) under Natura2000. [Is static True. Containment is Not Specified.]</p>
<p>◆ proposedSiteOfCommunityImportance : Public</p> <p>-- Definition -- The Protected Site is proposed as a Site of Community Interest (SCI) under Natura2000. [Is static True. Containment is Not Specified.]</p>
<p>◆ proposedSpecialProtectionArea : Public</p> <p>-- Definition -- The Protected Site is proposed as a Special Protection Area (SPA) under Natura2000. [Is static True. Containment is Not Specified.]</p>

1.4.8 ProtectedSite

Class «featureType» in package 'ProtectedSites'

-- Definition --

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

-- Description --

Each protected site has a boundary defined through formal, legal or administrative agreements or decisions. The establishment of a protected site is normally underpinned by legislation and thus given weight in decisions about land use change and spatial planning. Each Site is normally selected as a representative example of a wider resource and selected through a formal criterion based approach. A protected site can be a contiguous extent of land/sea or a collection of discrete areas that together represent a single formal Protected Site. This class has the attributes, constraints and associations that are part of the Simple application schema.

ProtectedSite
 Version 1.0 Phase 1.0 Proposed
 lgzkms created on 02/05/2022. Last modified 02/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ProtectedSite to «featureType» NLDPDDataUnit

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ geometry : GM_Object Public

-- Definition --

The geometry defining the boundary of the Protected Site.

-- Description --

The geometry may be determined by a wide range of methods, including surveying, digitisation or visual reference to natural features or cadastral boundaries and may be defined by the legal document that creates the protected area. The geometry included in a data set that uses this data model is stored as a fixed geometry by coordinates, not by reference to natural, cadastral or administrative boundaries, although it may originally have been defined from these.

[Is static True. Containment is Not Specified.]

◆ legalFoundationDate : DateTime Public

-- Definition --

The date that the protected site was legally created. This is the date that the real world object was created, not the date that its representation in an information system was created.

-- Description --

NOTE In the case of Natura2000 sites, a protected site may go through several different stages (for example, proposed as SCI, confirmed as SCI, designated as SAC). A new version of the site is created for each of these different stages (because there is a change in the designation), and the new version should have the date on which the new stage was legally assigned as the legalFoundationDate (for example, when designated as a SAC, the version for the SAC would have the designation date as the legalFoundationDate).

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ legalFoundationDocument : LegislationCitation Public

-- Definition --

A URL or text citation referencing the legal act that created the Protected Site.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ siteDesignation : DesignationType Public

Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Definition --

The designation (type) of Protected Site.

-- Description --

At least one designation is required, but designations may be available using a number of different designation schemes, all of which can be accommodated in the DesignationSchemeValue codelist.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ siteName : CharacterString Public

Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

-- Definition --


The name of the Protected Site.

-- Description --

NOTE 1 Several names in different languages may be expressed.

ATTRIBUTES

NOTE 2 It is recommended that the language of the name (part of the GeographicalName data type) be filled where ever possible. This is an important identifying attribute of a Protected Site.
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]


 **siteProtectionClassification** : ProtectionClassificationValue Public
 Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Definition --
 The classification of the protected site based on the purpose for protection.

-- Description --
 The site may have more than one classification.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public datasetID (Class) ProtectedSite «featureType»
 Cardinality: [1]

Target: Public (Class) ProtectedSitesDataset
 «FeatureType»

1.4.9 ProtectedSitesDataset

Class «FeatureType» in package 'ProtectedSites'

-- Name --

Protected Sites Dataset

-- Definition --


A Protected Sites Dataset is a collection of areas designated or managed within a framework of international, Community and Member States' legislation to achieve specific conservation objectives.

ProtectedSitesDataset


Version 1.0 Phase 1.0 Proposed

CPopplestone created on 06/05/2022. Last modified 06/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from «FeatureType» ProtectedSitesDataset to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

ATTRIBUTES

 **extent** : GM_Surface Public
 Multiplicity: ([1..0], Allow duplicates: 0, Is ordered: False)

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

ASSOCIATIONS	
Source: Public datasetID (Class) ProtectedSite «featureType» Cardinality: [1]	Target: Public (Class) ProtectedSitesDataset «FeatureType»


1.4.10 RamsarDesignationValue


Class «codeList» in package 'ProtectedSites'

-- Definition --

A code list for the Ramsar Convention designatoin scheme.

RamsarDesignationValue
Version 1.0 Phase 1.0 Proposed
lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from «codeList» RamsarDesignationValue to «codeList» DesignationValue [Direction is 'Source -> Destination'.]

ATTRIBUTES
 ramsar : Public -- Definition -- The Protected Site is designated under the Ramsar Convention. [Is static True. Containment is Not Specified.]


1.4.11 UNESCOManAndBiosphereProgrammeDesignationValue


Class «codeList» in package 'ProtectedSites'

-- Definition --

A code list for the World Heritage Man and Biosphere Programme classification scheme.

UNESCOManAndBiosphereProgrammeDesignationValue
Version 1.0 Phase 1.0 Proposed
lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from «codeList» UNESCOManAndBiosphereProgrammeDesignationValue to «codeList» DesignationValue [Direction is 'Source -> Destination'.]

ATTRIBUTES
 BiosphereReserve : Public -- Definition -- The Protected Site is designated as a Biosphere Reserve under the World Heritage Man and Biosphere Programme.

ATTRIBUTES
[Is static True. Containment is Not Specified.]

1.4.12 UNESCOWorldHeritageDesignationValue




Class «codeList» in package 'ProtectedSites'

-- Definition --

A code list for the World Heritage designation scheme.

UNESCOWorldHeritageDesignationValue
Version 1.0 Phase 1.0 Proposed
lutzmic created on 05/05/2022. Last modified 05/05/2022

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from «codeList» UNESCOWorldHeritageDesignationValue to «codeList» DesignationValue [Direction is 'Source -> Destination'.]

ATTRIBUTES
<p> natural : Public</p> <p>-- Definition -- The Protected Site is designated as a natural World Heritage site.</p> <p>[Is static True. Containment is Not Specified.]</p>
<p> cultural : Public</p> <p>-- Definition -- The Protected Site is designated as a cultural World Heritage site.</p> <p>[Is static True. Containment is Not Specified.]</p>
<p> mixed : Public</p> <p>-- Definition -- The Protected Site is designated as a mixed World Heritage site.</p> <p>[Is static True. Containment is Not Specified.]</p>








1.4.13 ProtectionClassificationValue

Enumeration in package 'ProtectedSites'

-- Definition --

The protected site classification based on the purpose of protection.

ProtectionClassificationValue
Version 1.0 Phase 1.0 Proposed
lgzkms created on 05/05/2022. Last modified 05/05/2022

ATTRIBUTES
<p> natureConservation : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of biological diversity. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> archaeological : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of archaeological heritage. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> cultural : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of cultural heritage. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> ecological : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of ecological stability. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> landscape : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of landscape characteristics. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> environment : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of environmental stability. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> geological : Public</p> <p>-- Definition -- The Protected Site is protected for the maintenance of geological characteristics. [Stereotype is «enum». Is static True. Containment is Not Specified.]</p>

1.5 Risks

Package in package 'NLDP_Logical_Model'

Risks

Version 1.0 Phase 1.0 Proposed

CPopplestone created on 10/03/2022. Last modified 08/09/2022

1.5.1 Risks diagram

GML diagram in package 'Risks'

Risks

Version 1.0

CPopplestone created on 10/03/2022. Last modified 29/11/2022

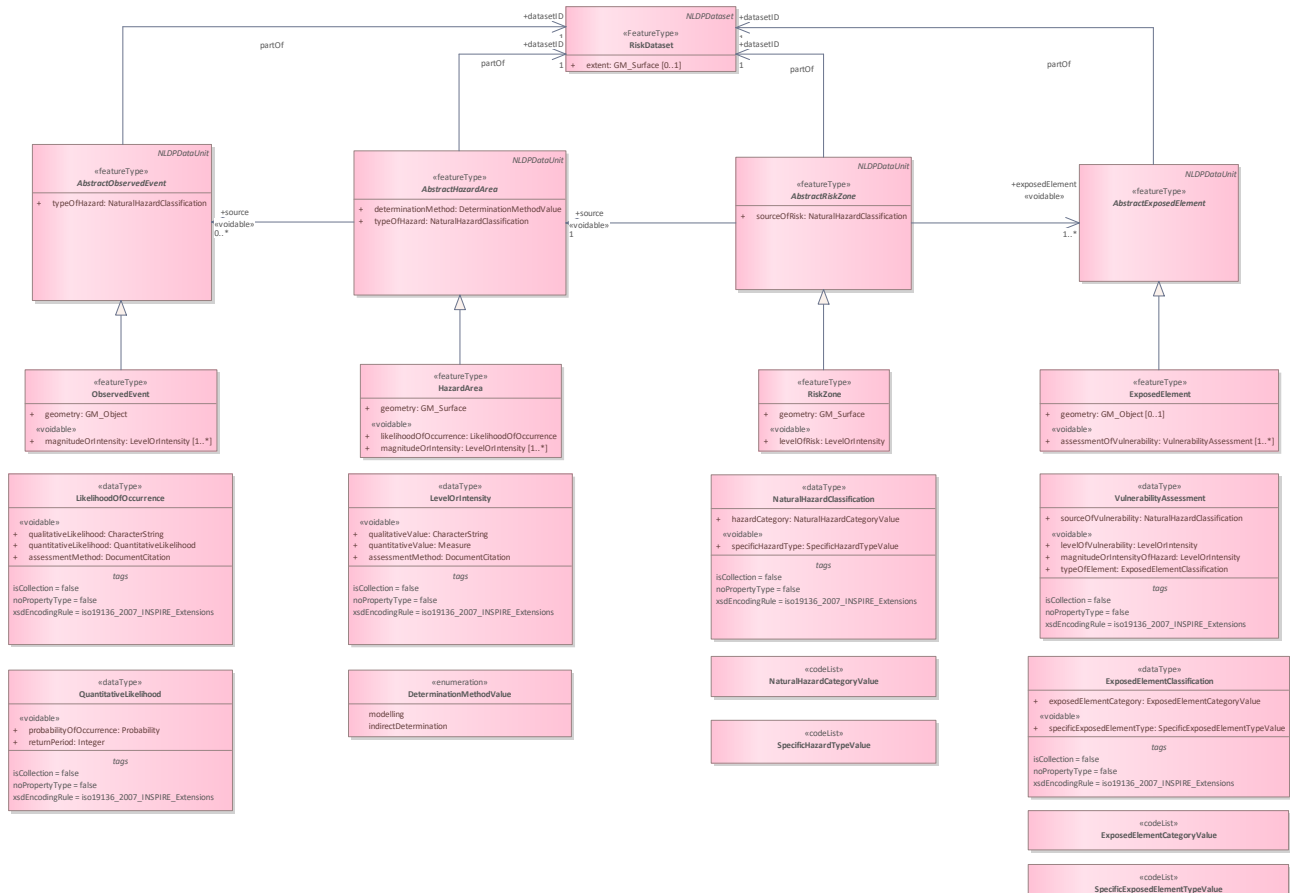


Figure 9: Risks

ABSTRACT

1.5.2 AbstractExposedElement

Class «featureType» in package 'Risks'

-- Definition --


SOURCE : [UNISDR, 2009]

People, property, systems, or other elements present in hazard zones that are thereby subject to potential losses.

AbstractExposedElement
Version 1.0 Phase 1.0 Proposed
FThomas created on 10/03/2022. Last modified 10/03/2022

CONSTRAINTS

CONSTRAINTS

 OCL. If the "source of spatial representation" is empty, the geometry AbstractExposedElement spatial object shall be provided.

*/*If the "source of spatial representation" is empty, the geometry AbstractExposedElement spatial object shall be provided.*/*

inv: AbstractExposedElement.sourceOfSpatialRepresentation.isEmpty() implies ExposedElement.geometry.notEmpty()

[Approved, Weight is 0.]

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from «featureType» AbstractExposedElement to «featureType» NLDPPDataUnit

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

 Generalization from «featureType» ExposedElement to «featureType» AbstractExposedElement

[Direction is 'Source -> Destination'.]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public (Class) AbstractExposedElement «featureType»

Target: Public datasetID (Class) RiskDataset
«FeatureType»

Cardinality: [1]

 Association (direction: Source -> Destination)

Source: Public (Class) AbstractRiskZone «featureType»

Target: Public «voidable» exposedElement (Class)
AbstractExposedElement «featureType»

Cardinality: [1..*]

-- Definition --

The element that is within a hazardous area.

ABSTRACT

1.5.3 AbstractHazardArea

Class «featureType» in package 'Risks'

-- Definition --


An area affected by a natural hazard.

-- Description --


A natural hazard is a natural process or phenomenon that may cause loss of life, injury or other impacts, property damage, loss livelihoods and services, social and economic disruption, or environmental damage. [Council of The European Union - Commission Staff Working Paper - Risk Assessment and Mapping Guidelines for Disaster Management].

AbstractHazardArea
Version 1.0 Phase 1.0 Proposed


OUTGOING STRUCTURAL RELATIONSHIPS


 Generalization from «featureType» AbstractHazardArea to «featureType» NLDDataUnit
 [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS


 Generalization from «featureType» HazardArea to «featureType» AbstractHazardArea
 [Direction is 'Source -> Destination'.]


ATTRIBUTES


 determinationMethod : DeterminationMethodValue Public
 -- Definition --
 Specifies if the hazard area result is delineated after modelling or determined after interpretation.
 [Is static True. Containment is Not Specified.]

 typeOfHazard : NaturalHazardClassification Public
 -- Definition --
 A generic classification and a specific classification of the type of natural hazard.
 [Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Destination -> Source)
 Source: Public «voidable» source (Class) AbstractHazardArea «featureType»
 Cardinality: [1]
 Target: Public (Class) AbstractRiskZone «featureType»
 -- Definition --
 The hazard which is considered for the creation of the risk zone object.

 Association (direction: Source -> Destination) partOf
 Source: Public (Class) AbstractHazardArea «featureType»
 Target: Public datasetID (Class) RiskDataset «FeatureType»
 Cardinality: [1]

 Association (direction: Source -> Destination)
 Source: Public (Class) AbstractHazardArea «featureType»
 Target: Public «voidable» source (Class) AbstractObservedEvent «featureType»
 Cardinality: [0..*]
 -- Definition --
 The observed event that triggered the modelling of a hazard area.

ABSTRACT

1.5.4 AbstractObservedEvent

Class «featureType» in package 'Risks'

-- Definition --

A natural phenomenon relevant to the study of natural hazards which occurred and which has been observed.

AbstractObservedEvent

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022


OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» AbstractObservedEvent to «featureType» NLDpDataUnit
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from «featureType» ObservedEvent to «featureType» AbstractObservedEvent
[Direction is 'Source -> Destination'.]

ATTRIBUTES


 typeOfHazard : NaturalHazardClassification Public

-- Definition --

A generic classification and a specific classification of the type of hazard.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination) partOf

Source: Public (Class) AbstractObservedEvent «featureType»

Target: Public datasetID (Class) RiskDataset
«FeatureType»

Cardinality: [1]

 Association (direction: Source -> Destination)

Source: Public (Class) AbstractHazardArea «featureType»

Target: Public «voidable» source (Class)
AbstractObservedEvent «featureType»

Cardinality: [0..*]

-- Definition --

The observed event that triggered the modelling of a hazard area.

ABSTRACT

1.5.5 AbstractRiskZone

OFFICIAL

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Class «featureType» in package 'Risks'

-- Definition --

A risk zone is the spatial extent of a combination of the consequences of an event (hazard) and the associated probability/likelihood of its occurrence.

AbstractRiskZone

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» AbstractRiskZone to «featureType» NLDAPDataUnit
[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from «featureType» RiskZone to «featureType» AbstractRiskZone
[Direction is 'Source -> Destination'.]

ATTRIBUTES

📌 sourceOfRisk : NaturalHazardClassification Public

-- Definition --

A generic classification and a specific classification of the type of hazard which is the source of risk.

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✍ Association (direction: Source -> Destination) partOf

Source: Public (Class) AbstractRiskZone «featureType»

Target: Public datasetID (Class) RiskDataset
«FeatureType»
Cardinality: [1]

✍ Association (direction: Source -> Destination)

Source: Public (Class) AbstractRiskZone «featureType»

Target: Public «voidable» exposedElement (Class)
AbstractExposedElement «featureType»
Cardinality: [1..*]

-- Definition --

The element that is within a hazardous area.

✍ Association (direction: Destination -> Source)

Source: Public «voidable» source (Class) AbstractHazardArea
«featureType»
Cardinality: [1]

Target: Public (Class) AbstractRiskZone
«featureType»







-- Definition --

The hazard which is considered for the creation of the risk zone object.

1.5.6 RiskDataset

Class «FeatureType» in package 'Risks'

RiskDataset
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 31/03/2022. Last modified 31/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from «FeatureType» RiskDataset to «featureType» NLPDataset	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 extent : GM_Surface Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)	[Is static True. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination) partOf Source: Public (Class) AbstractExposedElement «featureType»	Target: Public datasetID (Class) RiskDataset «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) partOf Source: Public (Class) AbstractRiskZone «featureType»	Target: Public datasetID (Class) RiskDataset «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) partOf Source: Public (Class) AbstractHazardArea «featureType»	Target: Public datasetID (Class) RiskDataset «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) partOf Source: Public (Class) AbstractObservedEvent «featureType»	Target: Public datasetID (Class) RiskDataset «FeatureType» Cardinality: [1]

1.5.7 SpecificExposedElementTypeValue

Class «codeList» in package 'Risks'

-- Definition --

An additional denomination of exposed elements.

-- Description --

The allowed values for this coded list comprise the values defined by data providers.

SpecificExposedElementTypeValue

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

1.5.8 SpecificHazardTypeValue

Class «codeList» in package 'Risks'

-- Definition --

An additional classification of the natural hazard.

-- Description --

The allowed values for this coded list comprise the values defined by data providers.

SpecificHazardTypeValue

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

1.5.9 ObservedEvent

Class «featureType» in package 'Risks'

-- Definition --

Discrete spatial objects representing natural phenomenon relevant to the study of hazards which occurred, or is currently occurring, and which has been observed.

ObservedEvent

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 22/11/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» ObservedEvent to «featureType» AbstractObservedEvent
[Direction is 'Source -> Destination'.]


ATTRIBUTES

 geometry : GM_Object Public

-- Definition --

Geometric representation of the spatial extent covered by the observed event.

[Is static True. Containment is Not Specified.]

 magnitudeOrIntensity : LevelOrIntensity Public
Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Definition --

ATTRIBUTES

An expression of the magnitude or the intensity of a phenomenon.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.10 HazardArea

Class «featureType» in package 'Risks'

-- Definition --

Discrete spatial objects representing a natural hazard.

HazardArea

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» HazardArea to «featureType» AbstractHazardArea

[Direction is 'Source -> Destination'.]

ATTRIBUTES

 geometry : GM_Surface Public

-- Definition --

Geometric representation of spatial extent covered by the hazard area.


[Is static True. Containment is Not Specified.]

 likelihoodOfOccurrence : LikelihoodOfOccurrence Public

-- Definition --

Likelihood is a general concept relating to the chance of an event occurring.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 magnitudeOrIntensity : LevelOrIntensity Public

Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Definition --

An expression of the magnitude or the intensity of a phenomenon.

-- Description --

It may address a value within the Richter scale, or a description of the european macro-seismic scale, or a flood flow, etc...

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.11 RiskZone

Class «featureType» in package 'Risks'

-- Definition --

Discrete spatial objects representing the spatial extent of a combination of the consequences of an event (hazard) and the associated probability/likelihood of its occurrence.

RiskZone
Version 1.0 Phase 1.0 Proposed
FThomas created on 10/03/2022. Last modified 10/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «featureType» RiskZone to «featureType» AbstractRiskZone [Direction is 'Source -> Destination'.]</p>
ATTRIBUTES
<p>◆ geometry : GM_Surface Public -- Definition -- Geometric representation of spatial extent covered by this risk zone. [Is static True. Containment is Not Specified.]</p>
<p>◆ levelOfRisk : LevelOrIntensity Public -- Definition -- The level of risk is an assessment of the combination of the consequences of an event (hazard) and the associated probability/likelihood of the occurrence of the event. [Stereotype is «voidable». Is static True. Containment is .]</p>

1.5.12 ExposedElement

Class «featureType» in package 'Risks'

-- Definition --
Discrete spatial objects representing exposed element.

ExposedElement
Version 1.0 Phase 1.0 Proposed
FThomas created on 10/03/2022. Last modified 10/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «featureType» ExposedElement to «featureType» AbstractExposedElement [Direction is 'Source -> Destination'.]</p>
ATTRIBUTES
<p>◆ geometry : GM_Object Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False) -- Definition -- Geometric representation of the exposed element. -- Description -- If the feature is linked to a spatially referenced INSPIRE feature, then it has no geometry. If not, then it has a geometry.</p>

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
<p>◆ assessmentOfVulnerability : VulnerabilityAssessment Public Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)</p> <p>-- Definition -- Assessment of the vulnerability of the exposed element.</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.13 VulnerabilityAssessment

Class «dataType» in package 'Risks'

-- Definition --

Assessment of the vulnerability.

-- Description --

It contains piece of information about the source the vulnerability, about the level of vulnerability and about the magnitude or intensity of the hazard for which vulnerability is assessed.

VulnerabilityAssessment
 Version 1.0 Phase 1.0 Proposed
 FThomas created on 10/03/2022. Last modified 10/03/2022

ATTRIBUTES	
<p>◆ sourceOfVulnerability : NaturalHazardClassification Public</p> <p>-- Definition -- The type of hazard for which the vulnerability is assessed.</p>	[Is static True. Containment is Not Specified.]
<p>◆ levelOfVulnerability : LevelOrIntensity Public</p> <p>-- Definition -- Level of vulnerability.</p> <p>-- Description -- When assessed quantitatively, it is a percentage.</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
<p>◆ magnitudeOrIntensityOfHazard : LevelOrIntensity Public</p> <p>-- Definition -- An expression of the magnitude or the intensity of a phenomenon.</p> <p>-- Description -- It may address a value within the Richter scale, or a description of the european macro-seismic scale, or a flood flow, etc...</p>	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
<p>◆ typeOfElement : ExposedElementClassification Public</p> <p>-- Definition --</p>	

ATTRIBUTES

A classification of the exposed element.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.14 NaturalHazardClassification

Class «dataType» in package 'Risks'

-- Definition --


This class provides piece of information about the nature of the natural hazard as well as the type of hazard which is the source of risk.

NaturalHazardClassification

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

ATTRIBUTES

 hazardCategory : NaturalHazardCategoryValue Public

-- Definition --

A generic classification of types of natural hazards or risks.


Properties:

extensibility = narrower

obligation = implementingRule

vocabulary = <http://inspire.ec.europa.eu/codeList/RiskOrHazardCategory>

[Is static True. Containment is Not Specified.]

 specificHazardType : SpecificHazardTypeValue Public

-- Definition --

Additional classification of the natural hazard that further specifies the hazard type according to a nomenclature that is specific to this dataset.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.15 NaturalHazardCategoryValue

Class «codeList» in package 'Risks'

-- Definition --

A generic classification of types of natural hazards.

NaturalHazardCategoryValue

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

1.5.16 LevelOrIntensity

Class «dataType» in package 'Risks'

-- Definition --

Quantitative or qualitative assessment of either risk, hazard or vulnerability.

-- Description --


Common concept for assessing the level of risk, or the level of hazard, or the level of vulnerability.

LevelOrIntensity

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

CONSTRAINTS


 OCL. either the quantitative value or the qualitative value must be completed.

*/*either the qualitative value or the quantitative value must be completed. */*

```
inv: self.qualitativeValue.isEmpty()
implies self.quantitativeValue.notEmpty()
and self.quantitativeValue.isEmpty() implies
self.qualitativeValue.notEmpty()
```

[Approved, Weight is 0.]


ATTRIBUTES

 qualitativeValue : CharacterString Public

-- Definition --

A qualitative assessment of the level or intensity.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 quantitativeValue : Measure Public

-- Definition --

A quantitative assessment of the level or intensity.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 assessmentMethod : DocumentCitation Public

-- Definition --

A citation to the method used to express the level or intensity.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.17 LikelihoodOfOccurrence

Class «dataType» in package 'Risks'

-- Definition --


Likelihood is a general concept relating to the chance of an event occurring.

-- Description --

Likelihood is generally expressed as a probability or a frequency. [EXCIFF].

LikelihoodOfOccurrence

CONSTRAINTS


 OCL. Either the qualitative likelihood or the quantitative likelihood must be completed.

*/*either the qualitative likelihood or the quantitative likelihood must be completed. */*

```
inv: self.qualitativeLikelihood.isEmpty()
implies self.quantitativeLikelihood.notEmpty()
and self.quantitativeLikelihood.isEmpty() implies
self.qualitativeLikelihood.notEmpty()
```

[Approved, Weight is 0.]

ATTRIBUTES

 qualitativeLikelihood : CharacterString Public


-- Definition --

A qualitative assessment of the likelihood of occurrence of a hazard.

-- Description --

Sometimes, this is known as susceptibility.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 quantitativeLikelihood : QuantitativeLikelihood Public

-- Definition --

A frequency of occurrence or return period of a hazard phenomenon.

-- Description --

Sometimes, this is known as susceptibility.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 assessmentMethod : DocumentCitation Public

-- Definition --

A citation to the method used to express the likelihood.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.5.18 QuantitativeLikelihood

Class «dataType» in package 'Risks'


-- Definition --

A frequency of occurrence or return period of a hazard phenomenon.

QuantitativeLikelihood
 Version 1.0 Phase 1.0 Proposed
 FThomas created on 10/03/2022. Last modified 10/03/2022

ATTRIBUTES

 probabilityOfOccurrence : Probability Public

ATTRIBUTES
<p>-- Definition -- The probability of occurrence of a hazard event, expressed as a value between 0 and 1.</p> <p>-- Description -- This is the inverse value of the return period. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>
<p> returnPeriod : Integer Public</p> <p>-- Definition -- Long-term average interval of time or number of years within which an event will be equalled or exceeded [UNESCO]. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>

1.5.19 ExposedElementCategoryValue

Class «codeList» in package 'Risks'

-- Definition --
A classification of the exposed element.



ExposedElementCategoryValue
Version 1.0 Phase 1.0 Proposed
FThomas created on 10/03/2022. Last modified 10/03/2022

1.5.20 ExposedElementClassification

Class «dataType» in package 'Risks'

-- Definition --
This class provides piece of information about the nature of the exposed element which is relevant to risk analysis.

ExposedElementClassification
Version 1.0 Phase 1.0 Proposed
fthomas created on 10/03/2022. Last modified 10/03/2022

ATTRIBUTES
<p> exposedElementCategory : ExposedElementCategoryValue Public</p> <p>-- Definition -- A generic classification of the types of elements that are exposed to a risk. [Is static True. Containment is Not Specified.]</p>
<p> specificExposedElementType : SpecificExposedElementTypeValue Public</p> <p>-- Definition -- An additional denomination of exposed element according to a nomenclature that is specific to this dataset. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>

1.5.21 DeterminationMethodValue

Enumeration in package 'Risks'

-- Definition --

An enumeration to describe the method used to define the area of hazard or risk.



-- Description --

There are several ways to delineate the perimeter of a hazard or a risk : to model it, or to assess it indirectly

DeterminationMethodValue

Version 1.0 Phase 1.0 Proposed

FThomas created on 10/03/2022. Last modified 10/03/2022

ATTRIBUTES
<p> modelling : Public</p> <p>-- Definition -- The area has been computed according to a model.</p> <p>[Stereotype is «enum». Is static True. Containment is Not Specified.]</p>
<p> indirectDetermination : Public</p> <p>-- Definition -- The area has been defined by interpretation of available data and/or information.</p> <p>[Stereotype is «enum». Is static True. Containment is Not Specified.]</p>

1.6 Class

Class «dataType» in package 'NLDP_Logical_Model'

-- Name --

related party

-- Definition --

An organisation or a person with a role related to a resource.

-- Description --

NOTE 1 A party, typically an individual person, acting as a general point of contact for a resource can be specified without providing any particular role.


Class

Version 1.0 Phase 1.0 Proposed

lopezan created on 12/06/2022. Last modified 12/06/2022

CONSTRAINTS

CONSTRAINTS


 OCL. individual, organisation or position name shall be provided

/*At least the individual, organisation or position name shall be provided.*/

inv: individualName->notEmpty() or organisationName->notEmpty() or positionName->notEmpty()

[Approved, Weight is 0.]

ATTRIBUTES

 individualName : PT_FreeText Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)


-- Name --

individual name

-- Definition --

Name of the related person.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 organisationName : PT_FreeText Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)


-- Name --

organisation name

-- Definition --

Name of the related organisation.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 positionName : PT_FreeText Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)


-- Name --

position name

-- Definition --

Position of the party in relation to a resource, such as head of department.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 contact : Contact Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)


-- Name --

contact

-- Definition --

Contact information for the related party.

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 role : PartyRoleValue Public
Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

-- Definition --

Role(s) of the party in relation to a resource, such as owner.

Properties:

obligation = TG

ATTRIBUTES

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.7 DocumentCitation

Class in package 'NLDP_Logical_Model'

-- Name --

document citation

-- Definition --

Citation for the purposes of unambiguously referencing a document.

DocumentCitation

Version 1.0 Phase 1.0 Proposed

lutzmic created on 12/06/2022. Last modified 12/06/2022

INCOMING STRUCTURAL RELATIONSHIPS

→ Generalization from LegislationCitation to DocumentCitation

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ name : CharacterString Public

-- Name --

name

-- Definition --

Name of the document.

-- Description --

NOTE For legal documents, this should be the official name assigned to the legislative instrument.

EXAMPLE The official legal name for the INSPIRE Directive is "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)"

[Is static True. Containment is Not Specified.]

◆ shortName : CharacterString Public

Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

short name

-- Definition --

Short name or alternative title of the document.

-- Description --


NOTE For legal documents, this should be a short name or alternative title commonly used to identify the legislation.

EXAMPLE 1: INSPIRE Directive is the short name for "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)"

EXAMPLE 2: CAFE Directive is the short name for the 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"


ATTRIBUTES

EXAMPLE 3: Water Framework Directive the short name for "Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for the Community action in the field of water policy"
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]

 **date** : Date Public


-- Name --
 date

-- Definition --
 Date of creation, publication or revision of the document.
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]

 **link** : CharacterString Public
 Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)

-- Name --
 link to online version

-- Definition --
 Link to an online version of the document
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]

 **specificReference** : CharacterString Public
 Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

-- Name --
 specific reference

-- Definition --
 Reference to a specific part of the document.

-- Description --
 EXAMPLE For legal documents, this attribute can contain a reference to article(s) that specify a specific requirement or obligation.
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]

1.8 Identifier

Class «dataType» in package 'NLDP_Logical_Model'

-- Definition --
 External unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object.

-- Description --
 NOTE1 External object identifiers are distinct from thematic object identifiers.

NOTE 2 The voidable version identifier attribute is not part of the unique identifier of a spatial object and may be used to distinguish two versions of the same spatial object.

NOTE 3 The unique identifier will not change during the life-time of a spatial object.

Identifier

ATTRIBUTES

◆ localId : CharacterString Public

-- Definition --

A local identifier, assigned by the data provider. The local identifier is unique within the namespace, that is no other spatial object carries the same unique identifier.

-- Description --

NOTE It is the responsibility of the data provider to guarantee uniqueness of the local identifier within the namespace.

[Is static True. Containment is Not Specified.]

◆ namespace : CharacterString Public

-- Definition --

Namespace uniquely identifying the data source of the spatial object.

-- Description --

NOTE The namespace value will be owned by the data provider of the spatial object and will be registered in the INSPIRE External Object Identifier Namespaces Register.

[Is static True. Containment is Not Specified.]

◆ versionId : CharacterString Public

Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Definition --

The identifier of the particular version of the spatial object, with a maximum length of 25 characters. If the specification of a spatial object type with an external object identifier includes life-cycle information, the version identifier is used to distinguish between the different versions of a spatial object. Within the set of all versions of a spatial object, the version identifier is unique.

-- Description --

NOTE The maximum length has been selected to allow for time stamps based on ISO 8601, for example, "2007-02-12T12:12:12+05:30" as the version identifier.

NOTE 2 The property is void, if the spatial data set does not distinguish between different versions of the spatial object. It is missing, if the spatial object type does not support any life-cycle information.

[Stereotype is «lifeCycleInfo». Is static True. Containment is Not Specified.]

1.9 LegislationCitation

Class in package 'NLDP_Logical_Model'

-- Name --

legislation citation


-- Definition --

Citation for the purposes of unambiguously referencing a legal act or a specific part of a legal act.

LegislationCitation

Version 1.0 Phase 1.0 Proposed
 dwilson created on 12/06/2022. Last modified 12/06/2022


CONSTRAINTS

 OCL. Provide_linkToLegislativeInstrument_or_journalCitation

/*If the link attribute is void, the journal citation shall be provided.*/
inv: link->notEmpty() or journalCitation->notEmpty()


[Approved, Weight is 0.]

OUTGOING STRUCTURAL RELATIONSHIPS

 Generalization from LegislationCitation to DocumentCitation

[Direction is 'Source -> Destination'.]

ATTRIBUTES

 identificationNumber : CharacterString Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

identification number

-- Definition --

Code used to identify the legislative instrument


-- Description --

EXAMPLE 1: 2007/2/EC is the identification number for the INSPIRE Directive

EXAMPLE 2: 2008/50/EC is the identification number for the CAFE Directive

EXAMPLE 3: 2000/60/EC is the identification number for the Water Framework Directive

[Is static True. Containment is Not Specified.]

 officialDocumentNumber : CharacterString Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

official document number

-- Definition --


Official document number used to uniquely identify the legislative instrument.

-- Description --

NOTE: An official document number may be assigned to uniquely identify the legislative instrument.

EXAMPLE: CELEX Number used to uniquely identify European Union Legislation

[Is static True. Containment is Not Specified.]

 dateEnteredIntoForce : Date Public
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --

date entered into force

-- Definition --

Date the legislative instrument entered into force.

[Is static True. Containment is Not Specified.]

ATTRIBUTES	
<p>◆ dateRepealed : Date Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- date repealed</p> <p>-- Definition -- Date the legislative instrument was repealed.</p>	[Is static True. Containment is Not Specified.]
<p>◆ level : LegislationLevelValue Public</p> <p>-- Name -- name</p> <p>-- Definition -- The level at which the legislative instrument is adopted.</p>	[Is static True. Containment is Not Specified.]
<p>◆ journalCitation : OfficialJournalInformation Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- journal citation</p> <p>-- Definition -- Citation of the official journal in which the legislation is published.</p>	[Is static True. Containment is Not Specified.]

1.10 LegislationLevelValue

Class «codeList» in package 'NLDP_Logical_Model'

-- Name --
 legislation level

-- Definition --
 The level at which a legal act or convention has been adopted.

LegislationLevelValue
 Version 1.0 Phase 1.0 Proposed
 lutzmic created on 12/06/2022. Last modified 12/06/2022

ATTRIBUTES	
<p>◆ international : Public</p> <p>-- Definition -- An international legal act or convention.</p>	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
<p>◆ european : Public</p> <p>-- Definition -- A legal act of the European Union.</p>	[Is static True. Containment is Not Specified.]
<p>◆ national : Public</p> <p>-- Definition -- A legal act at national level.</p>	[Is static True. Containment is Not Specified.]
<p>◆ sub-national : Public</p> <p>-- Definition -- A legal act at sub-national level.</p> <p>-- Description -- NOTE The sub-national level encompasses both regional or local legislative instruments.</p>	[Is static True. Containment is Not Specified.]

1.11 Measure

Class «DataType» in package 'NLDP_Logical_Model'

Measure
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 12/06/2022. Last modified 12/06/2022

ATTRIBUTES	
<p>◆ value : Real Public</p>	[Is static True. Containment is Not Specified.]
<p>◆ unitOfMeasurement : CharacterString Public</p>	[Is static True. Containment is Not Specified.]

1.12 NLDPActor

Class «FeatureType» in package 'NLDP_Logical_Model'

NLDPActor

Entities and organisations of relevance to the NLDP.

NLDPActor
Version 1.0 Phase 1.0 Proposed

OUTGOING STRUCTURAL RELATIONSHIPS
<p>← Generalization from «FeatureType» NLDPActor to «FeatureType» NLDPObject [Direction is 'Source -> Destination'.]</p>

ATTRIBUTES
<p>◆ name : CharacterString Public [Is static True. Containment is Not Specified.]</p>
<p>◆ contactDetails : CharacterString Public [Is static True. Containment is Not Specified.]</p>

ASSOCIATIONS
<p>✍ Association (direction: Source -> Destination) submittedBy</p> <p>Source: Public (Class) NLDPSubmissionEvent «FeatureType» Target: Public dataProviderID (Class) NLDPActor «FeatureType» Cardinality: [1]</p>
<p>✍ Association (direction: Source -> Destination) submittedBy</p> <p>Source: Public (Class) NLDPDataUnit «featureType» Target: Public dataProviderID (Class) NLDPActor «FeatureType» Cardinality: [1]</p>
<p>✍ Association (direction: Source -> Destination) submittedBy</p> <p>Source: Public (Class) NLDPDataset «featureType» Target: Public dataProviderID (Class) NLDPActor «FeatureType» Cardinality: [1]</p>

ABSTRACT

1.13 NLDataset

Class «featureType» in package 'NLDataset_Logical_Model'

-- Name --

Land Cover Data set

-- Definition --

A vector representation for Land Cover data.

-- Description --

This representation allows Land Cover data being supported by a vector geometry.

NLDataset

Version 1.0 Phase 1.0 Proposed

DSarafinof created on 08/03/2022. Last modified 12/06/2022

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from «featureType» NLDataset to «FeatureType» NLDPObject
 [Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Generalization from «FeatureType» RiskDataset to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» CommonLandUseDataSet to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» PlannedLandUseDataset to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

⇒ Generalization from «featureType» LandCoverDataset to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

⇒ Generalization from «FeatureType» ProtectedSitesDataset to «featureType» NLDataset
 [Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ inspireId : Identifier Public

-- Name --
 inspireId

-- Definition --
 External object identifier of the spatial object.

-- Description --
 NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.

[Is static True. Containment is Not Specified.]



◆ beginLifespanVersion : DateTime Public



-- Name --
 beginLifespanVersion

-- Definition --
 Date and time at which this version of the spatial object was inserted or changed in the spatial data set.
 [Stereotype is «voidable». Is static True. Containment is Not Specified.]

◆ endLifespanVersion : DateTime Public
 Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

-- Name --
 endLifespanVersion

ATTRIBUTES	
<p>-- Definition -- Date and time at which this version of the spatial object was superseded or retired in the spatial data set. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> name : CharacterString Public</p> <p>-- Name -- name</p> <p>-- Definition -- Name of the Land Cover data set.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> sourceDataset : CharacterString Public</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> validFrom : Date Public</p> <p>-- Name -- validFrom</p> <p>-- Definition -- The time when the phenomenon started to exist in the real world. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	
<p> sourceResourceLocator : CharacterString Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>sourceResourceLocator</p> <p>GEMINI-compliant resource locator of source dataset.</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p> validTo : Date Public</p> <p>-- Name -- validTo</p> <p>-- Definition -- The time from which the phenomenon no longer exists in the real world. [Stereotype is «voidable». Is static True. Containment is Not Specified.]</p>	

ASSOCIATIONS	
<p> Association (direction: Source -> Destination) submittedDuring</p> <p>Source: Public (Class) NLDataset «featureType»</p> <p>Target: Public submissionEventID (Class) NLDSubmissionEvent «FeatureType» Cardinality: [1]</p>	
<p> Association (direction: Source -> Destination) submittedBy</p> <p>Source: Public (Class) NLDataset «featureType»</p> <p>Target: Public dataProviderID (Class) NLDActor «FeatureType»</p>	

ASSOCIATIONS

Cardinality: [1]

ABSTRACT


1.14 NLDPDataUnit

Class «featureType» in package 'NLDP_Logical_Model'

NLDPDataUnit

Version 1.0 Phase 1.0 Proposed

DSarafinof created on 08/03/2022. Last modified 12/06/2022

CONSTRAINTS
 OCL. geometryIsKindOfGM_PointOrGM_Surface


/*geometries shall be points or surfaces*/

inv: self.geometry->forAll(l | l.oclIsKindOf(GM_Surface) or l.oclIsKindOf(GM_Point))


[Approved, Weight is 0.]

OUTGOING STRUCTURAL RELATIONSHIPS
 Generalization from «featureType» NLDPDataUnit to «FeatureType» NLDPObject


[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS
 Generalization from «featureType» ProtectedSite to «featureType» NLDPDataUnit


[Direction is 'Source -> Destination'.]

 Generalization from «featureType» AbstractRiskZone to «featureType» NLDPDataUnit


[Direction is 'Source -> Destination'.]

 Generalization from «featureType» AbstractExposedElement to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]

 Generalization from «FeatureType» CommonLandUseObject to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]

 Generalization from «featureType» ZoningElement to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]

 Generalization from «featureType» SpatialPlan to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]


 Generalization from «featureType» LandCoverUnit to «featureType» NLDPDataUnit

[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS

- ⇒ Generalization from «featureType» SupplementaryRegulation to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]
- ⇒ Generalization from «featureType» AbstractHazardArea to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]
- ⇒ Generalization from «FeatureType» CommonLandUseImagery to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]
- ⇒ Generalization from «FeatureType» LandCoverImagery to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]
- ⇒ Generalization from «featureType» AbstractObservedEvent to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]
- ⇒ Generalization from «featureType» OfficialDocumentation to «featureType» NLDPPDataUnit
[Direction is 'Source -> Destination'.]

ATTRIBUTES

 inspireId : Identifier Public

-- Name --

inspireId

-- Definition --

External object identifier of the spatial object.

-- Description --

NOTE An external object identifier is a unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object. The identifier is an identifier of the spatial object, not an identifier of the real-world phenomenon.

[Is static True. Containment is Not Specified.]

 beginLifespanVersion : DateTime Public

-- Name --

beginLifespanVersion

-- Definition --

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

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

 endLifespanVersion : DateTime Public

Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)




-- Name --



endLifespanVersion

-- Definition --

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

[Stereotype is «voidable». Is static True. Containment is Not Specified.]

ATTRIBUTES	
 validFrom : Date Public	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
 validTo : Date Public	[Stereotype is «voidable». Is static True. Containment is Not Specified.]
 sourceDataset : CharacterString Public	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination) submittedBy	
Source: Public (Class) NLDPDataUnit «featureType»	Target: Public dataProviderID (Class) NLDPActor «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) submittedDuring	
Source: Public (Class) NLDPDataUnit «featureType»	Target: Public submissionEventID (Class) NLDPSubmissionEvent «FeatureType» Cardinality: [1]

ABSTRACT


1.15 NLDPObject



Class «FeatureType» in package 'NLDP_Logical_Model'

NLDPObject

Parent feature class for all database objects within the NLDP.

NLDPObject
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 03/03/2022. Last modified 06/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS	
 Realization from «FeatureType» NLDPObject to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from «FeatureType» NLDPSubmissionEvent to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]
 Generalization from «FeatureType» NLDPActor to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from «featureType» NLDPDataUnit to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]
⇒ Generalization from «featureType» NLDataset to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]

ATTRIBUTES	
<p>◆ systemID : CharacterString Public</p> <p>systemID</p> <p>GUID primary key</p> <p>Properties: length = 38</p> <p>[Stereotype is «identifier». Is static True. Containment is Not Specified.]</p>	
<p>◆ systemUploadDate : DateTime Public</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p>◆ horizontalCRS : CharacterString Public</p> <p>[Is static True. Containment is Not Specified.]</p>	

1.16 NLDPSubmissionEvent

Class «FeatureType» in package 'NLDP_Logical_Model'


NLDPSubmissionEvent




Feature representing individual 1Integrate ETL sessions. All features should be traceable back to a submission event.

NLDPSubmissionEvent
Version 1.0 Phase 1.0 Proposed
CPopplestone created on 06/03/2022. Last modified 06/03/2022

OUTGOING STRUCTURAL RELATIONSHIPS	
⇐ Generalization from «FeatureType» NLDPSubmissionEvent to «FeatureType» NLDPObject	[Direction is 'Source -> Destination'.]

ATTRIBUTES	
<p>◆ sessionID : CharacterString Public</p> <p>[Is static True. Containment is Not Specified.]</p>	
<p>◆ submissionEventDate : DateTime Public</p> <p>[Is static True. Containment is Not Specified.]</p>	

ATTRIBUTES	
 name : CharacterString Public	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination) submittedBy	
Source: Public (Class) NLDPSubmissionEvent «FeatureType»	Target: Public dataProviderID (Class) NLDPActor «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) submittedDuring	
Source: Public (Class) NLDPDataset «featureType»	Target: Public submissionEventID (Class) NLDPSubmissionEvent «FeatureType» Cardinality: [1]
 Association (direction: Source -> Destination) submittedDuring	
Source: Public (Class) NLDPDataUnit «featureType»	Target: Public submissionEventID (Class) NLDPSubmissionEvent «FeatureType» Cardinality: [1]

1.17 OfficialJournalInformation

Class «dataType» in package 'NLDP_Logical_Model'


-- Name --

official journal information

-- Definition --

Full citation of the location of the legislative instrument within the official journal.

OfficialJournalInformation
Version 1.0 Phase 1.0 Proposed
dwilson created on 12/06/2022. Last modified 12/06/2022

ATTRIBUTES	
 officialJournalIdentification : CharacterString Public	
-- Name --	official journal identification
-- Definition --	Reference to the location within the official journal within which the legislative instrument was published. This reference shall be comprised of three parts:
	<ul style="list-style-type: none"> ● the title of the official journal ● the volume and/or series number ● Page number(s)
-- Description --	

ATTRIBUTES	
<p>EXAMPLE: Official Journal of European Union (OJEU), L108, Volume 50, 1-14</p>	[Is static True. Containment is Not Specified.]
<p>◆ ISSN : CharacterString Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- ISSN</p> <p>-- Definition -- The International Standard Serial Number (ISSN) is an eight-digit number that identifies the periodical publication in which the legislative instrument was published.</p> <p>-- Description -- NOTE: Periodical publications are issued in successive parts, usually having numerical or chronological designations and required that each serial publication can be uniquely identified.</p> <p>EXAMPLE: OJ Series in which INSPIRE Directive is published has been assigned the ISSN: 1725-2555</p>	[Is static True. Containment is Not Specified.]
<p>◆ ISBN : CharacterString Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- ISBN</p> <p>-- Definition -- International Standard Book Number (ISBN) is a nine-digit number that uniquely identifies the book in which the legislative instrument was published.</p>	[Is static True. Containment is Not Specified.]
<p>◆ linkToJournal : CharacterString Public Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)</p> <p>-- Name -- link to online version</p> <p>-- Definition -- Link to an online version of the official journal</p>	[Is static True. Containment is Not Specified.]

1.18 PartyRoleValue

Class «codeList» in package 'NLDP_Logical_Model'

-- Name --
 party role

-- Definition --
 Roles of parties related to or responsible for a resource.

PartyRoleValue
 Version 1.0 Phase 1.0 Proposed
 Meeting created on 12/06/2022. Last modified 12/06/2022

1.19 RelatedPartyRoleValue

Class «codeList» in package 'NLDP_Logical_Model'

-- Name --

role of a related party

-- Definition --

Classification of related party roles.

RelatedPartyRoleValue

Version 1.0 Phase 1.0 Proposed

pfaffinger created on 12/06/2022. Last modified 12/06/2022