INSPIRE
Infrastructure for Spatial Information in Europe

D2.10.3 INSPIRE Data Specifications – Base Models – Activity Complex

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Foreword

INSPIRE is a Directive proposed by the European Commission in July 2004 setting the legal framework for the establishment of the Infrastructure for Spatial Information in the European Community, for the purposes of Community environmental policies and policies or activities which may have an impact on the environment.

INSPIRE should be based on the infrastructures for spatial information that are created and maintained by the Member States. The components of those infrastructures include: metadata, spatial data themes (as described in Annexes I, II, III of the Directive), spatial data services; network services and technologies; agreements on data and service sharing, access and use; coordination and monitoring mechanisms, processes and procedures.

The guiding principles of INSPIRE are that the infrastructures for spatial information in the Member States will be designed to ensure that spatial data are stored, made available and maintained at the most appropriate level; that it is possible to combine spatial data and services from different sources across the Community in a consistent way and share them between several users and applications; that it is possible for spatial data collected at one level of public authority to be shared between all the different levels of public authorities; that spatial data and services are made available under conditions that do not restrict their extensive use; that it is easy to discover available spatial data, to evaluate their fitness for purpose and to know the conditions applicable to their use.

The text of the INSPIRE Directive is available from the INSPIRE web site (http://inspire.ec.europa.eu/). The Directive identifies what needs to be achieved, and Member States had two years from the date of adoption to bring into force national legislation, regulations, and administrative procedures that define how the agreed objectives will be met taking into account the specific situation of each Member State. To ensure that the spatial data infrastructures of the Member States are compatible and usable in a Community and transboundary context, the Directive requires that common Implementing Rules (IR) are adopted in a number of specific areas. Implementing Rules are adopted as Commission Regulations and are binding in their entirety. The Commission is assisted in the process of adopting such rules by a regulatory committee composed by representatives of the Member States and European Parliament[1]. The Committee is chaired by a representative of the Commission (this is known as the Comitology procedure). The committee was established on 15 August 2007.

The IR will be shaped in their legal structure and form by the Commission legal services on the basis of technical documents prepared by especially convened Drafting Teams, for each of the main components of INSPIRE: metadata, data specifications, network services, data and service sharing, and monitoring procedures. For data specifications, the technical documents for each spatial data theme will be prepared by especially convened Thematic Working Groups.

This document represents a contribution of the Data Specification Drafting Team.

It is important to note that this document is not a draft Implementing Rule, but a document that is a basis for the development and maintenance of the thematic data specifications that will serve as technical basis for the legal text of the INSPIRE Implementing Rules. It is foreseen that relevant requirements will continue to be included in the Implementing Rules.

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[1] The implementing rules for interoperability of spatial data are formally adopted through regulatory procedure with scrutiny according to Council Decision of 17 July 2006 (2006/512/EC). Under this regulation, the Parliament and the Council are on equal footing for all regulatory procedures related to co-decision acts. As a consequence, all measures must be ratified by all three institutions to come into force.

1 Scope

This document specifies an application schema for a Generic Activity Complex Model for use by thematic application schemas in INSPIRE.

The document identifier is: D2.10.3.

2 Normative references

D2.5 v3.4, Generic Conceptual Model, April 2012

3 Terms and abbreviations

The terms and definitions, abbreviations and other conventions specified in clause 3 of the Generic Conceptual Model apply.

4 Generic Activity Complex model

4.1 Overview

The term "Facility" has been included on the descriptive name of several INSPIRE Annex II, III themes (e.g. "Production and Industrial Facilities (PF) " , "Agricultural and Aquaculture Facilities(AF)") but is also implicitly included in many others (e.g. Utility and Governmental Services). Some references to "Facilities" are also included in Annex.I themes as "Transport Networks" or "Hydrography".

Facilities is a generic term that covers a wide range of physical entities of anthropogenic origin designed, built or installed to serve a specific <u>function</u>. It means that the thematic classification of facilities doesn't depend on their geographical characteristics but on the <u>functions</u> performed on them. Because of it, the same geographical entity can be described by different thematic domains. Activity Complex is the result of an additional harmonization effort among Thematic Groups dealing with "facilities" in order to define a generic model merging common elements described across different thematic domains at the same level of abstraction. This class will be the link, through its geographical component, for different thematic domain specific datasets.

"Activity Complex" is a generic name agreed across thematic domains trying to avoid specific thematic connotations as Plant, Installation, Facility, Establishment or Holding.

Because of this, Activity Complex must adhere to the requirements of horizontal datasets in which facilities are considered independently of their thematic scope (Emissions Directive, Waste Directive, SEVESO,...).

For those data providers in charge of datasets existing as result of these horizontal legislation requirements, the generic class is intended to be a simplification of the process avoiding the complexity of splitting datasets among thematic domains.
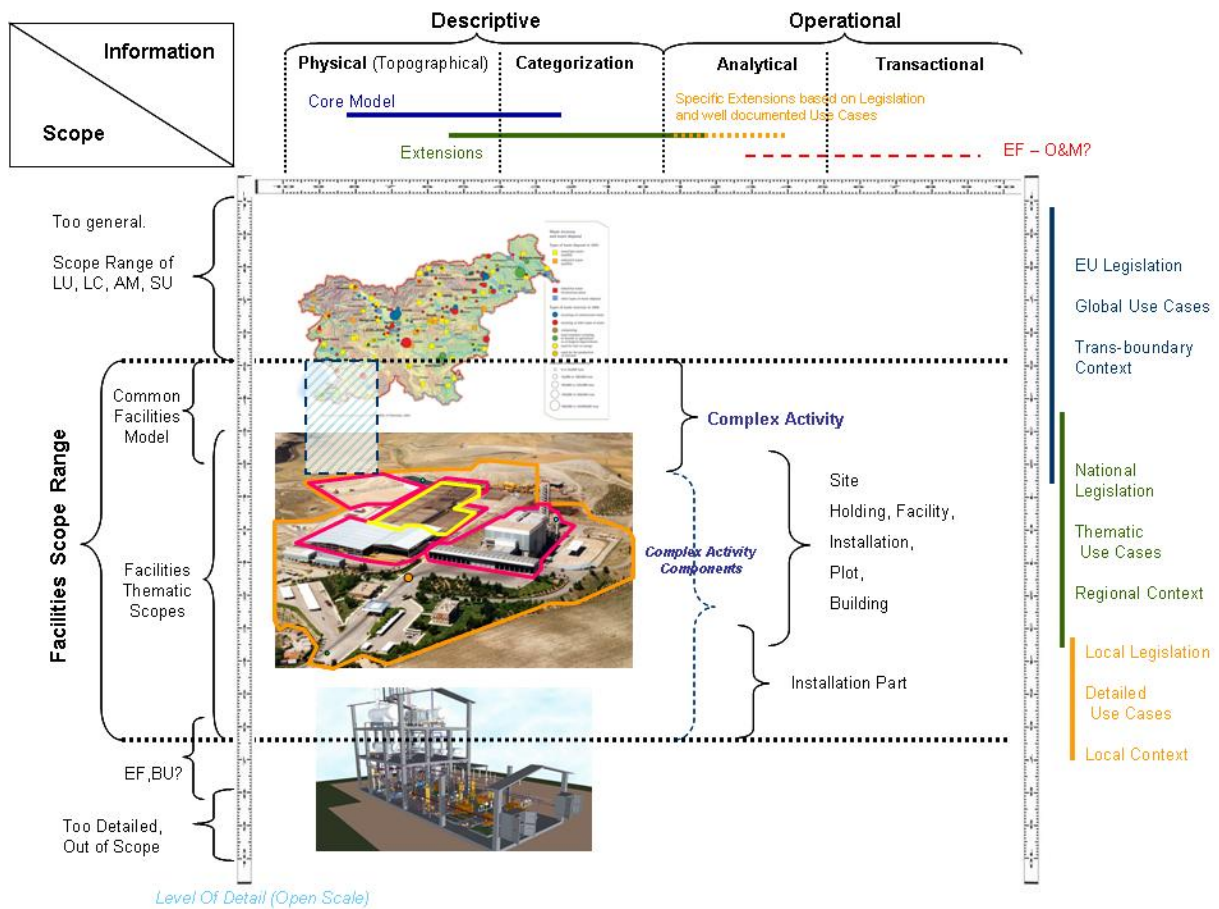
Figure 1 – **Scope limits of Facilities and Activity Complex in the context of INSPIRE.**

The types defined in the Base Model "Activity Complex" are supposed to be extended in the related thematic data specifications (e.g. Agricultural and Aquaculture Facilities, Production and Industrial Facilities, Utility and Governmental Services).

IR Requirement
Annex I
8.2. Requirements for Activity Complexes

If a data provider uses a sub-type of ActivityComplex to make available information on the status, physical capacity, permissions and/or additional information, the relevant code lists and data types (ConditionOfFacilityValue, Capacity, Permission, ActivityComplexDescription) included in the package Activity Complex shall be used.

4.2 The Activity Complex Model

Figure 2 – "Activity Complex" Application Schema

Table 1 – Feature catalogue metadata

Application Schema	INSPIRE Application Schema Activity Complex
Version number	3.0rc3

Table 2 – Types defined in the feature catalogue

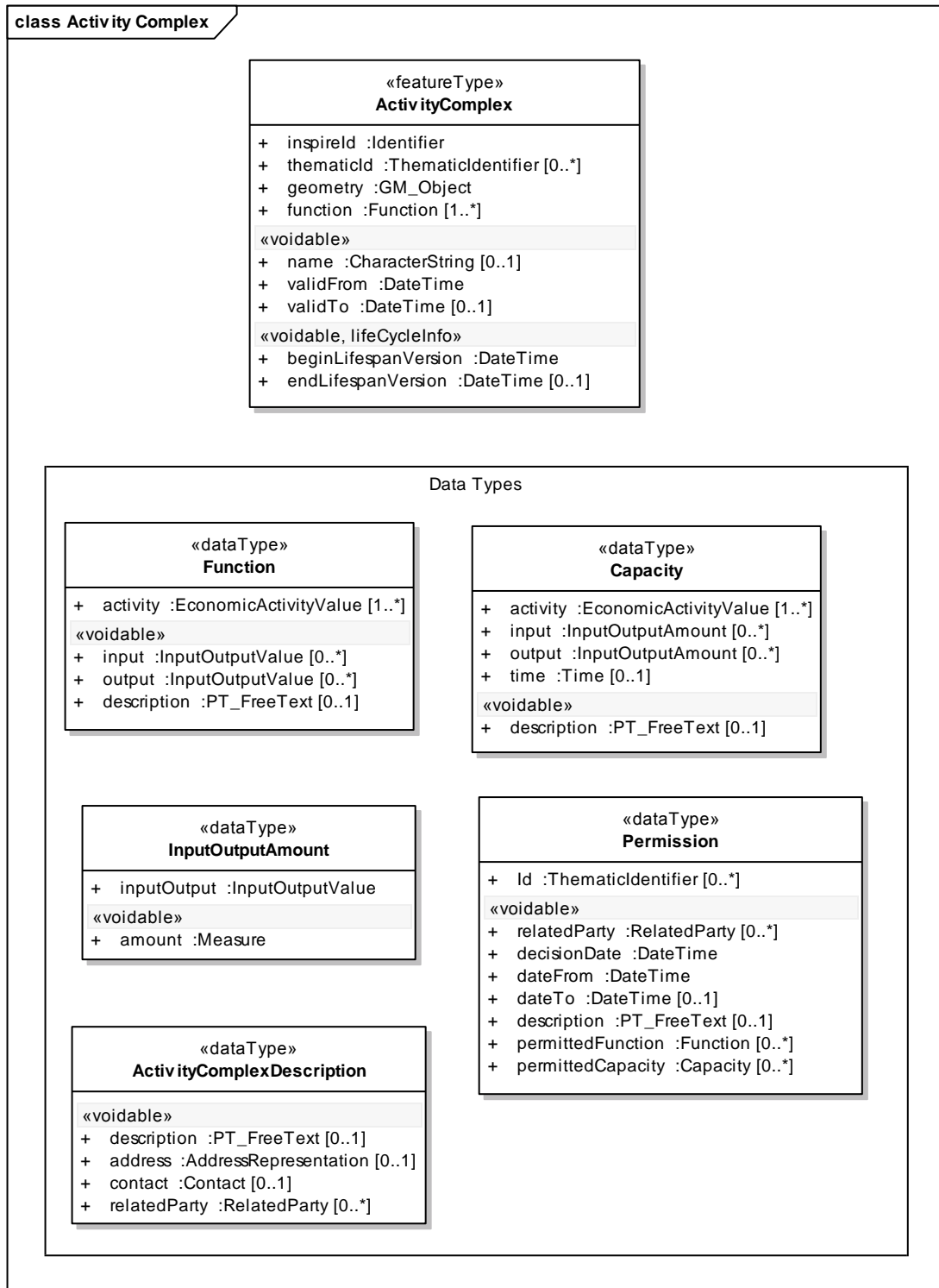| Type	Package	Stereotypes
ActivityComplex	Activity Complex	«featureType»
ActivityComplexDescription	Activity Complex	«dataType»
Capacity	Activity Complex	«dataType»
Function	Activity Complex	«dataType»
InputOutputAmount	Activity Complex	«dataType»
Permission	Activity Complex	«dataType»

4.2.1 Spatial object types

4.2.1.1. ActivityComplex

ActivityComplex

Name:	activity complex	
Definition:	A "single unit", both technically and economically, under the management control of the same legal entity (operator), covering activities as those listed in the Eurostat NACE classification, products and services. Activity Complex includes all infrastructure, equipment and materials. It must represent the whole area, at the same or different geographical location, managed by a "single unit".	
Description:	NOTE 1 This class describes the minimal set of elements necessary to describe and identify geographically a legal entity and the activities taken place on it under the context of a Environmental purposes.	
	NOTE 2 "Activity Complex" could be assimilated to terms described on the legislation as Facility, Establishment, Plant, Holding, Organization ,Farm, Extractive Industries or Aquaculture Production Business among others	
	EXAMPLE i.e. an Agro-business that is legally registered under the Emissions Directive.	
Stereotypes:	«featureType»	

Attribute: inspireId

Name:	INSPIRE identifier
Value type:	Identifier
Definition:	External object identifier of the "Activity Complex".
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.
Multiplicity:	1

Attribute: thematicId

Name:	thematic identifier
Value type:	ThematicIdentifier
Definition:	Thematic Activity Complex identifier.
Description:	NOTE It may be the identification code provided or maintained by the Member States public authority to identify the object in the context of specific or general thematic scopes.

ActivityComplex

	EXAMPLE Assigned National PRTR Code.
Multiplicity:	0..*

Attribute: name

Name:	name
Value type:	CharacterString
Definition:	Descriptive name of the "Activity Complex".
Description:	NOTE 1 Several names in different languages may be expressed.
	NOTE 2 It is recommended that the language of the name (part of the Geographical/Name data type) be filled whenever possible.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: geometry

Name:	geometry
Value type:	GM_Object
Definition:	The geometry used to define the extent or position of the "Activity Complex".
Description:	NOTE 1 Based on the provided description, different geometries could be used to represent the Activity Complex as a one legal whole. EXAMPLE 1 E-prtr geometry is given by a single point based on Geographical Coordinates (see below). In other levels of detail or depending on the Data Provider this could be represented [e.g.] by a Multi-poligon.
	EXAMPLE 2 PRTR - Legal act example: " … the latitude and longitude coordinates within an arc of 5 minutes that avoid the direct identification of an individual holding….".
Multiplicity:	1

Attribute: function

Name:	function
Value type:	Function
Definition:	Activities performed by the activity complex. Function is described by the activity and potentially complemented with information about inputs and outputs as result of it.
Description:	NOTE The Activity described as part of the Function "Activity Complex" should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*

Attribute: validFrom

Name:	valid from
Value type:	DateTime
Definition:	The time when the activity complex started to exist in the real world.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: validTo

Name:	valid to
Value type:	DateTime
Definition:	The time when the activity complex no longer exists in the real world.
Multiplicity:	0..1

ActivityComplex

Stereotypes:	«voidable»

Attribute: beginLifespanVersion

Name:	begin lifespan version
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.
Description:	NOTE This date is recorded to enable the generation of change only update files.
Multiplicity:	1
Stereotypes:	«voidable,lifeCycleInfo»

Attribute: endLifespanVersion

Name:	end lifespan version
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.
Description:	NOTE This date is recorded primarily for those systems which "close" an entry in the spatial data set in the event of an attribute change.
Multiplicity:	0..1
Stereotypes:	«voidable,lifeCycleInfo»

4.2.2 Data types

4.2.2.1. ActivityComplexDescription

ActivityComplexDescription

Name:	activity complex description
Definition:	Additional information about an activity complex, including its description, address, contact and related parties.
Stereotypes:	«dataType»

Attribute: description

Name:	description
Value type:	PT_FreeText
Definition:	A complementary definition of the "Activity Complex" and its characteristics.
Description:	NOTE Free text to include or refer any complementary information about the Activity Complex or its characteristics.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: address

Name:	address
Value type:	AddressRepresentation
Definition:	An address for the activity complex, i.e., an address where the activities occur.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: contact

Name:	contact
Value type:	Contact
Definition:	Contact information for the activity complex.
Multiplicity:	0..1
Stereotypes:	«voidable»

ActivityComplexDescription

Attribute: relatedParty

Name:	related party
Value type:	RelatedParty
Definition:	Information on Parties related to the Activity Complex. It is open to many different roles, such as owners, operators or Competent Authorities.
Description:	NOTE 1 The term covers concepts described on the legislation such as Operator, Company, Port Authority, Agent, Holder, Collector, Producer, Competent Authority or Keeper.
Multiplicity:	0..*
Stereotypes:	«voidable»

4.2.2.2. Capacity

Capacity

Name:	capacity
Definition:	A quantification of an actual or potential ability to perform an activity, that typically does not change, does not change often, or does not change to a significant degree.
Description:	NOTE Capacity could refer depending of the thematic scope to different concepts included on the legislation as "emission limits", "capacity incineration", "livestock units", "nominal capacity", "objective estimation data", "rate of desulphurization" or "recycling rate".
Stereotypes:	«dataType»

Attribute: activity

Name:	activity
Value type:	EconomicActivityValue
Definition:	Categorized description of individual or organized set of technically related processes that are carried out by a economical unit, private or public, profit or non profit character.
Description:	NOTE The Activity described as part of the Function for "Activity Complex" should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*
Values:	The allowed values for this code list comprise only the values specified in *Annex C*.

Attribute: input

Name:	input
Value type:	InputOutputAmount
Definition:	Measurable information about parameters related with the inputs related with the activity carried out by the Activity Complex.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.
Multiplicity:	0..*

Attribute: output

Name:	output
Value type:	InputOutputAmount
Definition:	Measurable information about parameters related with the outputs derived from the activity carried out by the "Activity Complex".
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.

Capacity

Multiplicity:	0..*

Attribute: time

Name:	time
Value type:	Time
Definition:	The duration of time to which the specified capacity refers, such as 1 year for an annual capacity.
Description:	NOTE Total capacities are specified without duration of time.
Multiplicity:	0..1

Attribute: description

Name:	description
Value type:	PT_FreeText
Definition:	A description of the capacity.
Multiplicity:	0..1
Stereotypes:	«voidable»

4.2.2.3. Function

Function

Name:	function
Definition:	The function of something expressed as an activity and optional input and/or output.
Description:	NOTE Depending on the scope it can refer to different activities (co-incineration, Collection, exploration, incineration, interim disposal, management, recycling, primary production, primary treatment, recovery , recycling, release, storage, use, waste management, etc) and Inputs and Outputs (sludge, substance, tailings, technical products, urban waste water, volatile organic compound, waste, WEEE from private households, etc).
Stereotypes:	«dataType»

Attribute: activity

Name:	activity
Value type:	ActivityValue
Definition:	Categorized description of individual or organized set of technically related processes that are carried out by a economical unit, private or public, profit or non profit character.
Description:	NOTE The Activity described as part of the Function for "Activity Complex" should be recorded using a controlled vocabulary where a particular controlled vocabulary is in use within a given context, such as SIC codes in the UK, it is acceptable to use these, however, the preferred choice for European interoperability is whenever possible NACE [NACE].
Multiplicity:	1..*
Values:	The allowed values for this code list comprise only the values specified in *Annex C*.

Attribute: input

Name:	input
Value type:	InputOutputValue
Definition:	A classified or registered type of material or something immaterial, that enters a technical and economical unit according to its function.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, ..
Multiplicity:	0..*

Function

Stereotypes:	«voidable»	
Values:	The allowed values for this code list comprise the values specified in "" and additional values at any level defined by data providers.	

Attribute: output

Name:	output
Value type:	InputOutputValue
Definition:	A classified or registered type of material or something immaterial, that leaves a technical and economical unit according to its function, ".
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Registered Pollutants, Waste, Processed Products, leakage, etc.
Multiplicity:	0..*
Stereotypes:	«voidable»
Values:	The allowed values for this code list comprise the values specified in "" and additional values at any level defined by data providers.

Attribute: description

Name:	description
Value type:	PT_FreeText
Definition:	A more detailed description of the function.
Multiplicity:	0..1
Stereotypes:	«voidable»

4.2.2.4. InputOutputAmount

InputOutputAmount

Name:	amount of input or output
Definition:	Type and, where available, measurable amount of a classified or registered material that enters or leaves a technical and economical unit.
Description:	NOTE Depending on the thematic scope it can refer to different terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, etc.
Stereotypes:	«dataType»

Attribute: inputOutput

Name:	input/output
Value type:	InputOutputValue
Definition:	A classified or registered type of material or something immaterial, that enters a technical and economical unit according to its function.
Description:	NOTE Depending on the thematic scope it can contain different values including terms as Biomass, Bio-Waste, Fuel, Organic Solvents, Waste Water, Waste for disposal or recovery, Primary Materials, etc.
Multiplicity:	1
Values:	The allowed values for this code list comprise the values specified in "" and additional values at any level defined by data providers.

Attribute: amount

Name:	amount
Value type:	Measure
Definition:	The amount (such as a volume or mass) of the classified or registered material that enters or leaves a technical and economical unit.
Multiplicity:	1
Stereotypes:	«voidable»

4.2.2.5. Permission

Permission

Name:	permission	
Definition:	Official Decision (formal consent) granting authorization to operate all or part of an Activity Complex, subject to certain conditions which guarantee that the installations or parts of installations on the same site operated by the same operator comply with the requirements fixed by a competent authority. A permit may cover one or more functions and fix parameters of capacity. The term could be extended to other kind of certificates or documents of special relevance depending of the scope (e.g. ISO, EMAS, National Quality Standards, etc). The term may be extended to other kind of certificates or documents of special relevance depending of the scope (e.g. ISO, EMAS, National Quality Standards, etc).	
Description:	NOTE This terms is referred in several legislative acts as "permit" , "authorization", "development consent" or "exploration permit" among others.	
	EXAMPLE 1 "…a [written] decision by which the competent authority grants permission to operate all or part of an installation" ; EXAMPLE 2 ".. the decision of the competent authority or authorities which entitles the developer to proceed with the project..".	
Stereotypes:	«dataType»	

Attribute: Id

Name:	identifier
Value type:	ThematicIdentifier
Definition:	Identifying reference to the permission.
Multiplicity:	0..*

Attribute: relatedParty

Name:	related party
Value type:	RelatedParty
Definition:	Parties related to the permission granted to the activity complex open to many different roles, such as Competent Authorities or Company among others
Description:	NOTE Include concepts described on the legislation such as Operator, Company, Port Authority, Agent, Holder, Competent Authority or Keeper.
Multiplicity:	0..*
Stereotypes:	«voidable»

Attribute: decisionDate

Name:	decision date
Value type:	DateTime
Definition:	Temporal reference that complement the definition of the permission.
Description:	NOTE For permissions that become effective immediately, the decision date and the start of the validity period coincide. It may however be a duration of years or decades that separates a decision date from the validity period. For example, a permission decided in 2012 may allow the recovery of waste at a particular site starting from the year
	EXAMPLE Legal resolutions used to refer to a specific day from which the referred resolution and the emitted permission starts to be valid.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: dateFrom

Name:	date from
Value type:	DateTime

Permission

Definition:	A date starting from which the permission applies and is valid.
Multiplicity:	1
Stereotypes:	«voidable»

Attribute: dateTo

Name:	date to
Value type:	DateTime
Definition:	A date up to which the permission applies and is valid.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: description

Name:	description
Value type:	PT_FreeText
Definition:	A description of the permission.
Multiplicity:	0..1
Stereotypes:	«voidable»

Attribute: permittedFunction

Name:	permitted function
Value type:	Function
Definition:	Function/s for which the permission is granted. Function is as described by the Activity and potentially complemented by information about the Inputs and Outputs derived from the same.
Description:	NOTE Functions permitted according to the permission, such as a permit for a landfill.
Multiplicity:	0..*
Stereotypes:	«voidable»

Attribute: permittedCapacity

Name:	permitted capacity
Value type:	Capacity
Definition:	Maximum amounts of activity input and/or output according to the permission,
Description:	NOTE The physical capacities of a facility may exceed the permitted capacities. EXAMPLE Incineration of at most 100000 tons of residual waste per year.
Multiplicity:	0..*
Stereotypes:	«voidable»

4.2.3   Code lists

4.2.3.1.   EconomicActivityValue

ActivityValue

Name:	economic activity
Definition:	Classification of economic activities.
Extensibility:	none
Identifier:	
Values:	The allowed values for this code list comprise the values of the following code lists or other code lists specified by data providers:
	– EU Economic Activity Classification (EconomicActivityNACEValue): Economic activities according to Eurostat NACE Classification values, as

ActivityValue	
	specified in Regulation (EC) No 1893/2006 of the European Parliament and of the Council[2].
	– EU Waste Statistics Economic Activity Classification (EconomicActivityWasteStatisticsValue): Classification of economic activities according to Section 8 of Annex I of Regulation (EC) No 2150/2002[3].
	– EU Waste Recovery Disposal Classification (WasteRecoveryDisposalValue): Classification of waste recovery and disposal operations according to Annexes I and II of Directive 2008/98/EC of the European Parliament and of the Council[4].

4.2.3.2. EconomicActivityNACEValue

EconomicActivityNACEValue	
Name:	EU economic activity classification
Definition:	Classification of economic activities according to Eurostat NACE.
Extensibility:	none
Identifier:	http://inspire.ec.europa.eu/codeList/EconomicActivityNACEValue
Parent:	ActivityValue
Values:	The allowed values for this code list comprise only the values specified in Regulation (EC) No 1893/2006 of the European Parliament and of the Council.

4.2.3.3. EconomicActivityWasteStatisticsValue

EconomicActivityWasteStatisticsValue	
Name:	EU waste statistics economic activity classification
Definition:	Classification of Products by Economical Activity according to Regulation (EC) No 2150/2002 on waste statistics.
Extensibility:	none
Identifier:	http://inspire.ec.europa.eu/codeList/EconomicActivityWasteStatisticsValue
Parent:	ActivityValue
Values:	The allowed values for this code list comprise only the values specified in Section 8 of Annex I of Regulation (EC) No 2150/2002

4.2.3.4. InputOutputValue

InputOutputValue	
Name:	input or output
Definition:	Classification of inputs or outputs.
Extensibility:	open
Identifier:	
Values:	The allowed values for this code list comprise the values of the following code lists or other code lists specified by data providers.
	– EU Product Classification (ProductCPAValue): Classification of Products by Economical Activity according to Regulation (EC) No 451/2008 of the European Parliament and of the Council[5].
	– EU Waste Classification (WasteValue): Classification of Wastes according to Decision 2000/532/EC[6].

4.2.3.5. ProductCPAValue

ProductCPAValue	

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[2]   OJ L 393, 30.12.2006, p. 1.
[3]   OJ L 332, 9.12.2002, p. 1.
[4]   OJ L 312, 22.11.2008, p. 3.
[5]   OJ L 145, 4.6.2008, p. 65.
[6]   OJ L 226, 6.9.2000, p. 3.

ProductCPAValue

Name:	EU product classification
Definition:	Eurostat Statistical Classification of Products by Activity in the European Economic Community.
Extensibility:	none
Identifier:	http://inspire.ec.europa.eu/codeList/ProductCPAValue
Parent:	InputOutputValue
Values:	The allowed values for this code list comprise only the values specified in Regulation (EC) No 451/2008 of the European Parliament and of the Council.

4.2.3.6. WasteRecoveryDisposalValue

WasteRecoveryDisposalValue

Name:	EU waste recovery disposal classification
Definition:	Classification of waste recovery and disposal operations according to Annexes I and II of the EU waste directive (2008/98).
Extensibility:	none
Identifier:	http://inspire.ec.europa.eu/codeList/WasteRecoveryDisposalValue
Parent:	ActivityValue
Values:	The allowed values for this code list comprise only the values specified in Annexes I and II of Directive 2008/98/EC of the European Parliament and of the Council.

4.2.3.7. WasteValue

WasteValue

Name:	EU waste classification
Definition:	EU Decision 2000/532 List of Wastes.
Extensibility:	none
Identifier:	http://inspire.ec.europa.eu/codeList/WasteValue
Parent:	InputOutputValue
Values:	The allowed values for this code list comprise only the values specified in Decision 2000/532/EC.

4.2.4 Imported types (informative)

This section lists definitions for feature types, data types and enumerations and code lists that are defined in other application schemas. The section is purely informative and should help the reader understand the feature catalogue presented in the previous sections. For the normative documentation of these types, see the given references.

4.2.4.1. AddressRepresentation

AddressRepresentation

Package:	Addresses
Reference:	INSPIRE Data specification on Addresses [DS-D2.8.I.5]
Definition:	Representation of an address spatial object for use in external application schemas that need to include the basic, address information in a readable way.
Description:	NOTE 1 The data type includes the all necessary readable address components as well as the address locator(s), which allows the identification of the address spatial objects, e.g., country, region, municipality, address area, post code, street name and address number. It also includes an optional reference to the full address spatial object.

NOTE 2 The datatype could be used in application schemas that wish to include address information e.g. in a dataset that registers buildings or properties. |

4.2.4.2. CharacterString

CharacterString

CharacterString

Package:	Text	
Reference:	Geographic information -- Conceptual schema language [ISO/TS 19103:2005]	

4.2.4.3. Contact

Contact

Package:	Base Types 2
Reference:	INSPIRE Generic Conceptual Model, version 3.4 [DS-D2.5]
Definition:	Communication channels by which it is possible to gain access to someone or something.

4.2.4.4. DateTime

DateTime

Package:	Date and Time
Reference:	Geographic information -- Conceptual schema language [ISO/TS 19103:2005]

4.2.4.5. GM_Object

GM_Object (abstract)

Package:	Geometry root
Reference:	Geographic information -- Spatial schema [ISO 19107:2003]

4.2.4.6. Identifier

Identifier

Package:	Base Types
Reference:	INSPIRE Generic Conceptual Model, version 3.4 [DS-D2.5]
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.

4.2.4.7. Measure

Measure

Package:	ProductionAndIndustrialFacilitiesExtension
Reference:	INSPIRE Data specification on Production and Industrial Facilities [DS-D2.8.III.8]

4.2.4.8. PT_FreeText

PT_FreeText

Package:	Cultural and linguistic adapdability
Reference:	Geographic information -- Metadata -- XML schema implementation [ISO/TS 19139:2007]

4.2.4.9. RelatedParty

RelatedParty

Package:	Base Types 2
Reference:	INSPIRE Generic Conceptual Model, version 3.4 [DS-D2.5]
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.

4.2.4.10. ThematicIdentifier

ThematicIdentifier	
Package:	Base Types 2
Reference:	INSPIRE Generic Conceptual Model, version 3.4 [DS-D2.5]
Definition:	Thematic identifier to uniquely identify the spatial object.
Description:	Some spatial objects may be assigned multiple unique identifiers. These may have been established to meet data exchange requirements of different reporting obligations at International, European or national levels and/or internal data maintenance requirements.

4.2.4.11. Time

Time	
Package:	Units of Measure
Reference:	Geographic information -- Conceptual schema language [ISO/TS 19103:2005]

4.2.5 Externally governed code lists

The externally governed code lists included in this application schema are specified in the tables in this section.

4.2.5.1. Governance and authoritative source

Code list	Governance	Authoritative Source (incl. version[7] and relevant subset, where applicable)
EconomicActivityNACEvalue	European Commission – Eurostat	Regulation (EC) No 1893/2006 of the European Parliament and of the Council
EconomicActivityWasteStatisticsValue	European Commission	Section 8 of Annex I of Regulation (EC) No 2150/2002 on Waste Statistics.
ProductCPAValue	European Commission – Eurostat	Regulation (EC) No 451/2008 of the European Parliament and of the Council.
WasteRecoveryDisposalValue	European Commission, Councial, Parliament	Annexes I and II of Directive 2008/98/EC of the European Parliament and of the Council.
WasteValue	European Commission	Decision 2000/532/EC

4.2.5.2. Availability

Code list	Availability	Format
EconomicActivityNACEvalue	*http://ec.europa.eu/environment/emas/pdf/general/nacecodes_en.pdf*	PDF
EconomicActivityNACEvalue	*http://ec.europa.eu/competition/mergers/cases/index/nace_all.html*	HTML
EconomicActivityWasteStatisticsValue	*http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32002R2150:EN:NOT*	HTML, PDF, TIFF

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[7] If no version or publication date are specified, the "latest available version" shall be used.

ProductCPAValue	*http://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_NOM_DTL&StrNom=CPA_2008&StrLanguageCode=EN&IntPcKey=&StrLayoutCode=HIERARCHIC*	HTML
WasteRecoveryDisposalValue	http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32008L0098:EN:NOT	HTML, PDF, TIFF
WasteValue	*http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2000:226:0003:0024:EN:PDF*	PDF

4.2.5.3. Rules for code list values

Code list	Identifiers	Examples
EconomicActivityNACEvalue	Append the upper-case letters and digits code separated by dots. (e.g A.01.19 for "Growing of other non-perennial crops") to the URI prefix http://inspire.ec.europa.eu/codelist/EconomicActivityNACEvalue/	http://inspire.ec.europa.eu/codelist/EconomicActivityNACEvalue /A.01.19
EconomicActivityWasteStatisticsValue	Append the numerical code in the "Item No." column (e.g 1 for "Agriculture, forestry and fishing") to the URI prefix http://inspire.ec.europa.eu/codelist/EconomicActivityWasteStatisticsValue/	http://inspire.ec.europa.eu/codelist/EconomicActivityWasteStatisticsValue/1
ProductCPAValue	Append the numerical two-digit codes, separated by dots (e.g 01.23.11 for "Pomelo and grapefruits") to the URI prefix http://inspire.ec.europa.eu/codelist/ProductCPAValue/	http://inspire.ec.europa.eu/codelist/ProductCPAValue/01.23.11
WasteRecoveryDisposalValue	Append the upper-case letter and numerical code separated by a dot. (e.g D.1 for "Deposit into or on to land (e.g. landfill, etc.)") to the URI prefix http://inspire.ec.europa.eu/codelist/WasteRecoveryDisposalValue/	http://inspire.ec.europa.eu/codelist/WasteRecoveryDisposalValue/D.1
WasteValue	Append the numerical codes used in the hierarchy separated by underscores (e.g 02_03_99 for "Wastes not otherwise specified") to the URI prefix http://inspire.ec.europa.eu/codelist/WasteValue/	http://inspire.ec.europa.eu/codelist/WasteValue/02_03_99

Code list	Labels	Examples
EconomicActivityNACEvalue	Use the label specified for each code in the authoritative source.	"Growing of non-perennial crops" (English label for A.01.1)

		"Growing of fibre crops" (English label for A.01.16)
EconomicActivityWasteStatisticsValue	Use the label specified in the "Description" column. If several NACE categories are combined in one item no., separate them by semicolons.	"Agriculture, forestry and fishing" (English label for Item no. 1)
		"Manufacture of textiles; Manufacture of wearing apparel; Manufacture of leather and related products" (English label for Item no. 4)
ProductCPAValue	Use the label specified for each code in the authoritative source.	"Rice, not husked" (English label for 01.12)
		"Fibre crops" (English label for 01.16)
WasteRecoveryDisposalValue	Use the label specified for each code in the authoritative source. Do not include the explanatory footnotes.	"Deposit into or on to land (e.g. landfill, etc.)" (English label for D.1)
		"Use principally as a fuel or other means to generate energy" (English label for R.1)
WasteValue	Use the label specified for each code in the authoritative source.	"Wastes from mineral excavation" (English label for 01 01)
		"Waste from mineral metalliferous excavation" (English label for 01 01 01)