



Miljøministeriet
Geodatastyrelsen

Bilag 2 og 3 og værktøjer

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Program for workshop

- 1 Velkommen og introduktion**
 - Formål og forventninger til workshoppen
 - Præsentation af dagsorden
 - Præsentation af deltagere
 - Hvordan implementeres og bruges INSPIRE i Danmark?
 - Hvad vil det sige at være INSPIRE-myndighed?
- 2 Bilag 2 og 3 og værktøjer**
 - Historien bag bilag 2 og 3, høringer
 - Intro til værktøjerne: Principper, metode, dataspecifikationer, gennemførelsesbestemmelse
- 3 Intro til workshop og find dine ”temakammerater”**
 - Formål og mål: Intro til workshop og skema (udgangstilladelsen)
- 4 Workshop**
 - Fokus på kapitel 2 og 5: Er I som myndighed omfattet, og kan I allerede nu angive datasæt, som falder under scope?
- 5 Tak for i dag**
 - Indsamling af udfyldte skemaer



Formål – hvorfor workshop?

Kvalificering af listen over myndigheder

”Temakammerater”

Opmærksomhed omkring forretningen

Bilag 2 og 3-data – data - sundhed og statistik - orienteret
mod forvaltning! - klima og beredskab - natur, miljø og
landbrug etc.
- marint/maritimt

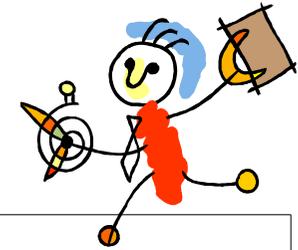




Geodatastyre
lsen



Dataejer opgaver



Emne	Dataejer opgave
Metadata	Metadata for geodatasæt og tilhørende net tjenester er tilgængelige i Geodata-info.dk.
Harmonisering og interoperabilitet	Klargøre datasæt så de lever op til direktivets bestemmelser om harmonisering og interoperabilitet.
Søgnings- og visningstjenester	Etablere WMS tjeneste til brug for central visningstjeneste
Overvågning og rapportering	Bidrage til den nationale overvågning – automatiseret proces (hvert år omkring 15. maj)
Download og transformation	Etablere en download funktion, give adgang/koble den til nettet
EU institutioners adgang til data	Aftalegrundlag der sikrer "uhindret" adgang



Konkrete opgaver i 2013

Post workshop – identificere datasæt

Medio november – workshop om metadata (frist 3. december)

Geodatastyrelsen





Mere info

Hjemmesider: <http://inspire.jrc.ec.europa.eu/>

<http://www.inspiredanmark.dk/>



Principper for hvornår et datasæt er omfattet

Principperne er fastlagt med baggrund i GI-lovens § 1, som definerer, hvornår et geodatasæt er omfattet af loven og dermed INSPIRE.

Lovens § 1 punkt 1 siger, at geodatasættet skal foreligge i elektronisk form.

1) Geodatasættet skal foreligge i elektronisk form

GI-lovens § 1 punkt 4 siger, at loven omfatter geodatasæt, som vedrører Danmarks territorium.

2) Geodatasættet skal være landsdækkende og nationalt gældende

GI-lovens § 1 stk. 3 siger, at geodatasæt besiddet af kommuner eller regioner kun er omfattet af loven, hvis indsamlingen af data er bestemt i en anden lov.

3) Indsamling af data skal være lovbestemt

INSPIREs tre bilag med geodatatemaer

Annex I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

Annex II

1. Elevation
2. Land cover
3. Orthoimagery
4. Geology

Annex III

1. Statistical units
2. Buildings
3. Soil
4. Land use
5. Human health and safety
6. Utility and Government services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution – demography
11. Area management / restriction / regulation zones & reporting units
12. Natural risk zones
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
20. Energy resources
21. Mineral resources

Document Title	Identifier	Creator	Date	Subject	Publisher	Type	Description	Contributor	Format	Source	Rights	Identifier	Language	Relation	Coverage
D2.8.II.4 Data Specification Guidelines	D2.8.II.4	INSPIRE Thematic Working Group	2013-02-04	INSPIRE Thematic Working Group Human health and safety	INSPIRE Thematic Working Group Human health and safety	Text	This document describes the INSPIRE Data Specification for the spatial data theme Human health and safety.	Members of the INSPIRE Thematic Working Group Human health and safety	Portable Document Format (pdf)	Public	Public	D2.8.II.4_v3.0.ec	En	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)	Project duration
D2.8.III.5 Data Specification Draft Technical Guidelines	D2.8.III.5	INSPIRE Thematic Working Group Human health and safety	2013-02-04	INSPIRE Data Specification for the spatial data theme Human health and safety	INSPIRE Thematic Working Group Human health and safety	Text	This document describes the INSPIRE Data Specification for the spatial data theme Human health and safety.	Members of the INSPIRE Thematic Working Group Human health and safety	Portable Document Format (pdf)	Public	Public	D2.8.III.5_v3.0.ec	En	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)	Project duration
D2.8.II.4 Data Specification Guidelines	D2.8.II.4	INSPIRE Thematic Working Group Human health and safety	2013-02-04	INSPIRE Data Specification for the spatial data theme Human health and safety	INSPIRE Thematic Working Group Human health and safety	Text	This document describes the INSPIRE Data Specification for the spatial data theme Human health and safety.	Members of the INSPIRE Thematic Working Group Human health and safety	Portable Document Format (pdf)	Public	Public	D2.8.II.4_v3.0.ec	En	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)	Project duration
D2.8.III.5 Data Specification on Human health and safety – Draft Technical Guidelines	D2.8.III.5	INSPIRE Thematic Working Group Human health and safety	2013-02-04	INSPIRE Data Specification for the spatial data theme Human health and safety	INSPIRE Thematic Working Group Human health and safety	Text	This document describes the INSPIRE Data Specification for the spatial data theme Human health and safety.	Members of the INSPIRE Thematic Working Group Human health and safety	Portable Document Format (pdf)	Public	Public	D2.8.III.5_v3.0.ec	En	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)	Project duration



Lidt historie...

Dataspecifikationerne for bilag 2 og 3 geodatatemaerne blev udarbejdet i perioden 2010 til 2013.

Er udarbejdet af en lang række af europæiske eksperter på de enkelte domæneområder.

En foreløbig version blev sendt i høring og test i medlemslandene i 2011 (juni til oktober).

Herudover interne høringer af dataspecifikationerne på tværs af ekspertgrupperne for at skabe sammenhæng og fjerne overlap.

Udkast til gennemførelsesbestemmelse sendt i høring i medlemslandene i maj – juni 2012.

Gennemførelsesbestemmelse oversat (bl.a. til dansk) i marts 2013 – Geodatastyrelsen kontrollerede oversættelsen.

INSPIRE-komiteen udtalte sig positivt om gennemførelsesbestemmelse den 8. apr. 2013

Gennemførelsesbestemmelse

Er den juridisk gældende tekst (forordning).

Indeholder de obligatoriske krav fra dataspecifikationerne.

IR Requirement 5 For each management, restriction or regulation zone (data set), at least the most specific legislative instrument that required the establishment of zone(s) shall be provided.

Et stort word dokument (373 sider) indeholdende bestemmelserne for alle temaerne.

Er på dansk og indeholder de obligatoriske elementer.

Oversat –men endnu ikke offentliggjort –version ligger på USB-nøgle.

Råd og parlament har tilgået den.

- 3) "arealdækkeobjekt" (land cover object): et geografisk objekt (punkt, pixel eller polygon), hvor arealdækket er blevet observeret
- 4) "tegnforklaring" (legend): anvendelsen af en klassifikation i et specifikt område ved hjælp af en defineret kortlægningskala og specifikke datasæt
- 5) "mindste kortlægningsenhed" (minimal mapping unit): den mindste områdestørrelse for en polygon, der kan indgå i et bestemt arealdækkedatasæt
- 6) "tilstand" (situation): et bestemt arealdækkeobjekts tilstand på et bestemt tidspunkt.

2.2. Strukturen for geodatamættet Arealdække

De typer, som angives for geodatamættet Arealdække, struktureres i følgende pakker:

- Nomenklatur for arealdække (Land Cover Nomenclature)
- Arealdækkevektor (Land Cover Vector)
- Arealdækkeraster (Land Cover Raster)

2.3. Nomenklatur for arealdække

2.3.1. Datatyper

2.3.1.1. Nomenklatur for arealdække (LandCoverNomenclature)

Information om nationalt, institutionelt eller lokalt referencenomenklatur for arealdække.

Attributter for datatypen LandCoverNomenclature

Attribut	Definition	Type	Voidability
inspireId	Eksternt objekt-id for det geografiske objekt.	Identifier	
responsibleParty	Part, der er ansvarlig for udvikling og/eller ajourføring af nomenklaturen.	RelatedParty	
externalDescription	Dokument, der beskriver den nomenklatur, der anvendes i datasættet.	DocumentCitation	voidable



Dataspecifikationerne er IKKE juridiske

- Leverer input til juridisk tekst (gennemførelsesbestemmelse)
- Indeholder krav
- DS Requirement: Krav til en implementering der følger retningslinjerne, men kommer ikke i en juridisk tekst

DS Requirement X Requirements that are not reflected in the Implementing Rule on interoperability of spatial data sets and services are shown using this style.

- IR Requirement: Bliver omsat til juridisk krav

IR Requirement X Requirements that are reflected in the Implementing Rule on interoperability of spatial data sets and services are shown using this style.

- Indeholder anbefalinger
- Er blot anbefalinger der ikke kommer med i en juridisk tekst

Recommendation 1 Recommendations are shown using this style.

Hvor kan jeg finde dataspecifikationerne?

På EU's INSPIRE-hjemmeside

(<http://inspire.jrc.ec.europa.eu/index.cfm/pageid/2>)

The screenshot shows the INSPIRE website interface. At the top, there is a navigation bar with the INSPIRE logo and the text 'Infrastructure for Spatial Information in the European Community'. Below this, there is a secondary navigation bar with 'Data Specifications' highlighted. The main content area is divided into several sections: 'Legislation', 'Technical Guidelines Annex I', 'Draft Technical Guidelines Annex II & III', and 'Framework Documents'. Each section contains a list of documents with their titles and dates. On the left side, there is a vertical navigation menu with categories like 'About', 'Implementation', 'Adoption', 'Stakeholder Participation', 'News and Events', and 'INSPIRE GeoPortal'. On the right side, there is a sidebar with a search box, a 'LOGIN / REGISTRATION' section, a 'HEADLINES' section with news items, and a 'NEWS' section with a list of recent news items. The website is in English, as indicated by the language dropdown menu.

INDSÆT FOOTER: >VIS >SIDEHOVED & SIDEFOD >APPLICER PAALLE, STORE BOGSTAVER



Dataspecifikationen - læsevejledning

Det skrevet med gråt... er generel tekst (læsevejledning) til alle specifikationer.

Foreword

How to read the document?

This document describes the *"INSPIRE data specification on Area management/restriction/regulation zones and reporting units – Guidelines"* version 2.0 as developed by the Thematic Working Group (TWG) *Area management/restriction/regulation zones and reporting units* using both natural and a conceptual schema language. This version is now available for the public consultation. Based on the results of the consultation (received comments and the testing reports), the final version 3.0 will be prepared by the TWGs.

The data specification is based on a common template used for all data specifications and has been harmonised using the experience from the development of the Annex I data specifications.

This document provides guidelines for the implementation of the provisions laid down in the draft Implementing Rule for spatial data sets and services of the INSPIRE Directive.

This document includes two executive summaries that provide a quick overview of the INSPIRE data specification process in general, and the content of the data specification on *Area management/restriction/regulation zones and reporting units* in particular. We highly recommend that managers, decision makers, and all those new to the INSPIRE process and/or information modelling should read these executive summaries first.

The UML diagrams (in Chapter 5) offer a rapid way to see the main elements of the specifications and their relationships. The definition of the spatial object types, attributes, and relationships are included in the Feature Catalogue (also in Chapter 5). People having thematic expertise but not familiar with UML can fully understand the content of the data model focusing on the Feature Catalogue. Users might also find the Feature Catalogue especially useful to check if it contains the data necessary for the applications that they run. The technical details are expected to be of prime interest to those organisations that are/will be responsible for implementing INSPIRE within the field of *Area management/restriction/regulation zones and reporting units*.

Indhold af dataspecifikation

Executive Summary

1. Scope (of the Document)
2. Overview
3. Specification scopes
4. Identification information
5. Data content and structure
6. Reference systems

7. Data quality

8. Dataset-level Metadata

9. Delivery

10. Data Capture (optional)

11. Portrayal

Bibliography

Annex A Abstract Test Suite

Annex n Codelist

Hvad er det vigtigste?

- Executive Summary
- Kapitel 2 Overview
- Kapitel 5 Data content and structure
- Evt. annex med kodelister

Executive summary

- To stk – et generelt skrevet af Kommissionen (gråt) og et skrevet af ekspertgruppen (sammenfatning af den specifikke specifikation)
- Godt sted at begynde... (ca. en til halvanden side)

Area management/restriction/regulation zones and reporting units – Executive Summary

Definition of INSPIRE spatial data theme Area management/restriction/regulation zones and reporting units (theme AM) reflects the heterogeneous nature of the domains and topics that could be covered by this INSPIRE spatial data theme. The broadest scope could relate to diverse socio-economic activities, policies related to sustainable development, or environment. The INSPIRE Thematic Working Group "Area management/restriction/regulation zones and reporting units" (TWG AM) introduces two basic concepts of this spatial data theme: (1) the need for spatial information on areas where specific management, regulative or restriction regimes are established and (2) the way to provide the established reporting units. Both concepts are presented in two separate ways within the theme AM, but they share the following common characteristics:

- (a) Environmental issues: The priority domain is focused on diverse environmental issues or issues of any human activity that can significantly influence the environment or is aimed directly at the protection or preservation of the environment. Environmental issues could be related to any of the basic environmental physical media, for example air, water, soil/land and biotic (living) components, or to the different states of the environment, for example with regard to quality or pollution.
- (b) Legislative basis: The theme AM incorporates only those areas that have a specific legal characteristic which distinguishes them from the rest of the territory. The establishment of areas managed, regulated or used for reporting has to be defined by legislation that can be adopted at different levels, for example: international (international conventions), European, national and sub-national levels (for example regional and local legislation levels).
- (c) Generic approach: The heterogeneity of the thematic topics, where some of them are directly mentioned in the definition of the theme AM in Annex III of the INSPIRE Directive, is supported by the generic model (generic approach) which provides important basic information and it can be easily used to exchange spatial data between different domains and public authorities. It could be further extended into specific thematic domains.

Two concepts of the theme AM are modelled within two separate application schemas:

- Area Management, Restriction and Regulation Zones application schema, and
- Reporting Units application schema.

The Area Management, Restriction and Regulation Zones application schema defines the specification for zones that have been established in accordance with specific legislative requirements to deliver the following environmental aims:

- Protect and improve environmental quality,
- Protect environmental and natural resources,
- Protect and control risk from natural and man-made hazards,
- Protect plant, animal and human health, and
- Control development/spatial planning.

2 Overview

2 Overview

2.1 Name 2.2 Informal description

Definition (fra direktivets bilag)

Description

Det er her afgrænsning af temaet defineres – er jeres myndigheds forretningsområde omfattet?

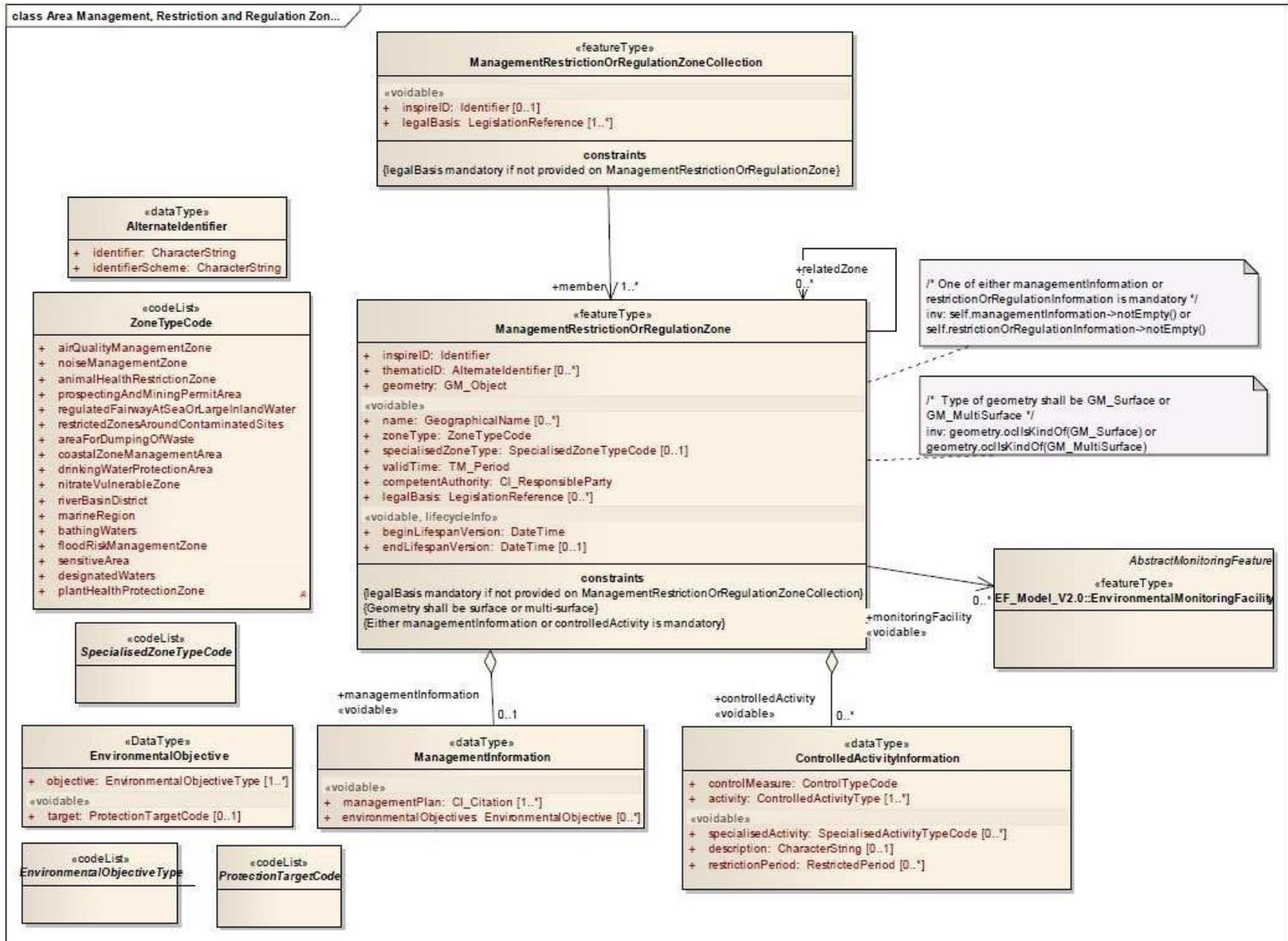
2	Overview	1
2.1	Name	1
2.2	Informal description	1
2.3	Normative References	4
2.4	Terms and definitions	5
2.5	Symbols and abbreviations	6
2.6	Notation of requirements and recommendations	6
2.7	Conformance	6



5 Data content and structure

- Indeholder det centrale i dataspecifikationen
- Tekstlig beskrivelse af applikationsskemaet (UML modellen)
- Selve UML modellen
- Feature Katalog som indeholder beskrivelser af samtlige feature typer, attributter, associationer, og begrænsninger (constraints)
- For læsning/gennemgang: Nødvendigt med kendskab til UML!
- Har vi data der svarer til feature typen?
- Og hvis ja, hvilke datasæt er omfattet?
- Har vi data der svarer til attributterne?





Feature katalog

Table 4 - Types defined in the feature catalogue

Type	Package	Stereotypes	Section
DeterminationMethodValue	Core_Model	«enumeration»	5.2.2.3.1
DocumentReference	Core_Model	«dataType»	5.2.2.2.1
Example_TypeOfExposedElement	Core_Model	«codeList»	5.2.2.4.1
ExposedElements	Core_Model	«featureType»	5.2.2.1.1
HazardArea	Core_Model	«featureType»	5.2.2.1.2
HazardCategoryValue	Core_Model	«codeList»	5.2.2.4.2
LevelOfHazard	Core_Model	«dataType»	5.2.2.2.2
LevelOfRisk	Core_Model	«dataType»	5.2.2.2.3
LikelihoodOfOccurence	Core_Model	«dataType»	5.2.2.2.4
ModelledOrDeterminedHazard	Core_Model	«featureType»	5.2.2.1.3
NaturalRiskOrHazardClassification	Core_Model	«dataType»	5.2.2.2.5
ObservedHazard	Core_Model	«featureType»	5.2.2.1.4
QuantitativeLikelihood	Core_Model	«dataType»	5.2.2.2.6
RiskZone	Core_Model	«featureType»	5.2.2.1.5
SpecificRiskOrHazardTypeValue	Core_Model	«codeList»	5.2.2.4.3
TypeOfExposedElementValue	Core_Model	«codeList»	5.2.2.4.4
contactInformation	Core_Model	«dataType»	5.2.2.2.7

5.3.1.1. Spatial object types

5.3.1.1.1. ExposedElements

ExposedElements	
Definition:	SOURCE : [UNISDR, 2009] People, property, systems, or other elements present in hazard zones that are thereby subject to potential losses.
Status:	Proposed
Stereotypes:	«featureType»
Attribute: beginLifespanVersion	
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.
Multiplicity:	1
Stereotypes:	«voidable,lifeCycleInfo»
Attribute: endLifespanVersion	
Value type:	DateTime
Definition:	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.
Multiplicity:	0..1
Stereotypes:	«voidable,lifeCycleInfo»
Attribute: geometry	
Value type:	GM_Object
Definition:	Geometric representation of the exposed element.
Multiplicity:	1



Indeholder (alle) elementerne fra UML modellen (genereret herfra)

Giver definitionen af begreber

Angiver datatype

Angiver multiplicitet

Angiver stereotype



Begrebet ”voidable”

«featureType» ManagementRestrictionOrRegu
<ul style="list-style-type: none"> + inspireID: Identifier + thematicID: AltematIdentifier [0..*] + geometry: GM_Object
«voidable»
<ul style="list-style-type: none"> + name: GeographicalName [0..*] + zoneType: ZoneTypeCode + specialisedZoneType: SpecialisedZoneTypeCode [0..1] + validTime: TM_Period + competentAuthority: CI_ResponsibleParty + legalBasis: LegislationReference [0..*]
«voidable, lifecycleInfo»
<ul style="list-style-type: none"> + beginLifespanVersion: DateTime + endLifespanVersion: DateTime [0..1]
constraints
{legalBasis mandatory if not provided on ManagementRe: {Geometry shall be surface or multi-surface} {Either managementInformation or controlledActivity is n

If a characteristic of a spatial object is not present in the spatial data set, but may be present or applicable in the real world, the property shall receive this stereotype (dvs. voidable).

It is possible to qualify a value of void in the data with a reason using the VoidValueReason type (værdi fra kodeliste):

Unpopulated: The characteristic is not part of the dataset maintained by the data provider. However, the characteristic may exist in the real world.

Unknown: The correct value for the specific spatial object is not known to, and not computable by the data provider. However, a correct value may exist.

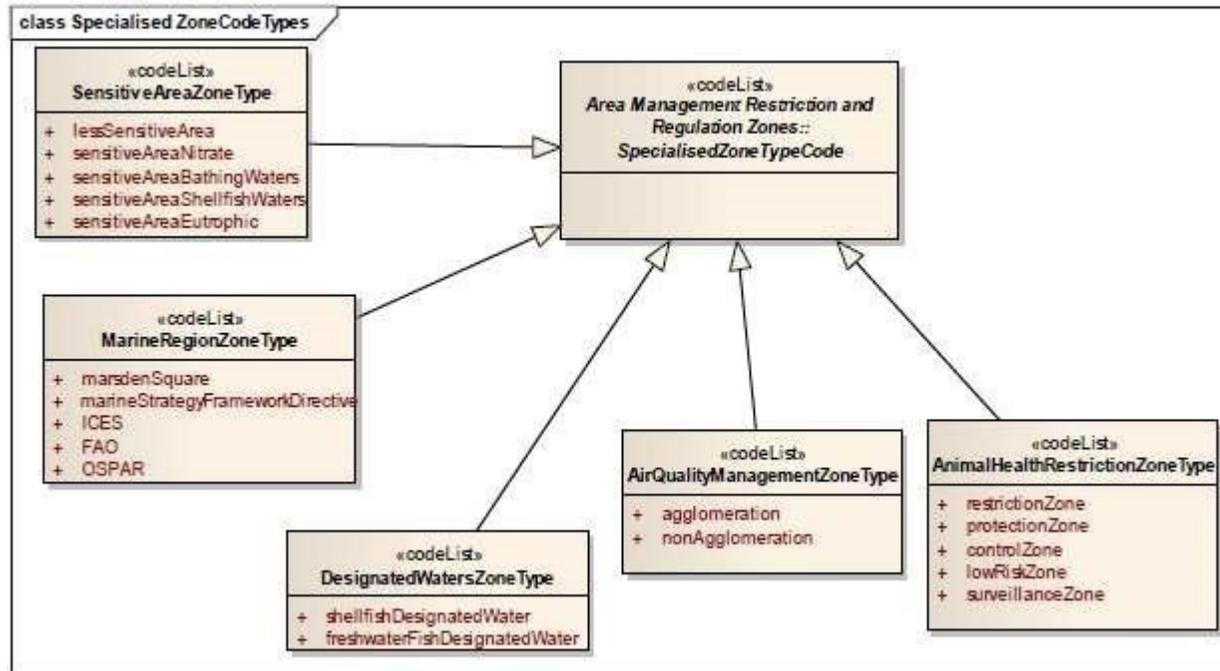
Kodelister vs. enumerationer

INSPIRE opererer med to typer kodelister:

*Code lists that **may not** be extended by Member States = enumeration.*

*Code lists that **may** be extended by Member States = kodeliste.*

In the case of an attribute type with coded values, an enumeration or code list should be used. If the set of allowed values is fixed, an enumeration should be used. If the set of allowed values may be extended by user communities or without a major revision of the data specification, a code list should be used.



Opsummering af vigtigste afsnit

Executive summary

Forslag til prioritering:

- Relevant for overblik Høj

2 Overview Mellem

- Definitioner og overordnet beskrivelse Lav

5 Data content and structure

- Feature typer, attributter, associationer, begrænsninger (constraints), og definitioner

7 Datakvalitet

- Elementer og minimums krav

8 Datasæt metadata

- Inkluderede metadata elementer

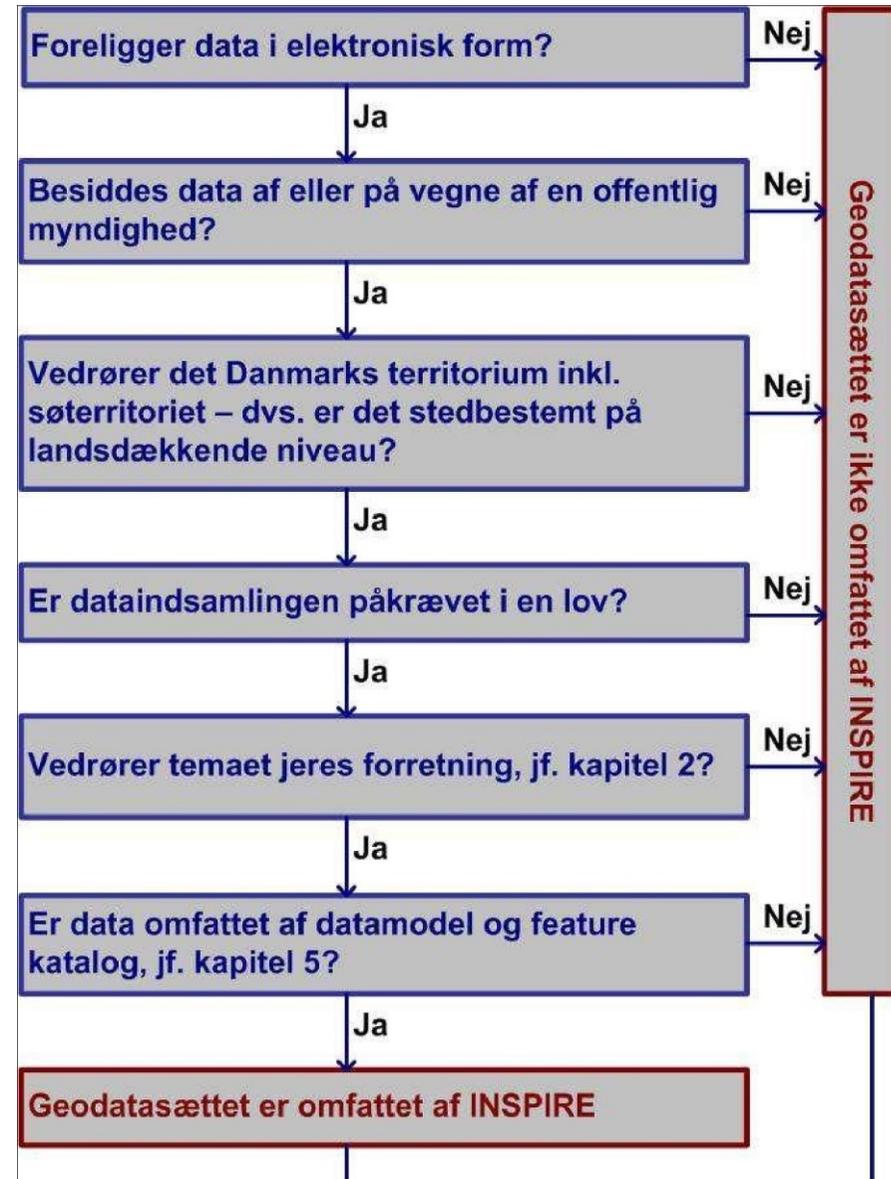
9. Delivery

- Krav til encoding (typisk GML) (10 Data Capture)
- Meget varierende indhold men kan inkludere krav som skal vurderes Annex B (Use case)

Annex n (Code lists) Andre afsnit



Model til identifikation af datasæt





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SIDE 25

