

Table of Contents

Model Detail	3
NaturalRiskZone	3
AvalanchesRiskZone	4
Bedrock.....	6
Blizzards	6
Debris	7
DebrisAvalanches	7
Desertification	8
DesignationAvalanchesRiskZone	8
DesignationDroughtRiskZone	10
DesignationEarthmovesRiskZone.....	11
DesignationOtherRiskZone	12
DesignationStormRiskZone	13
DesignationVolcanicActivityRiskZone	15
DifferentProbabilityOfInundationRisk	15
Drought	16
DroughtRiskZone	16
Duration_Of_Hazard	20
DustStorm	20
EarthmovesRiskZone.....	21
Earthquakes.....	22
Embankment.....	22
ExpansiveSoils.....	23
Frequency_Of_Hazard.....	23
GeologicalFault.....	24
Hailstorms	25
IceAvalanches.....	25
InlandFlooding	26
InundatedRiskZone	27
InundationValue	30
Landslides.....	31
LevelOfRisk	31
MudFloods	32
MudFlows	33
OtherHazardsRiskZone	33
OtherStorms	34
Permafrost	35
Phenomena_Of_Hazard	35
ProbabilityOfInundationRisk.....	36
RainStorm	37
RiskZone.....	37
RockFalls	41
Rockslides	42

SandStorms	42
SeaLevelRise	43
SnowAvalanches	43
SoilDensity	44
SoilHydraulicProperties.....	44
SoilOrganicCarbon.....	44
SoilOrganicMatter	45
SoilTexture.....	45
SoilTypologicalUnit	45
SpringTide	46
StormRiskZone	46
StormSurges.....	48
SurfacesCollapses	49
Tectonic	49
TemperatureExtremes	50
Thunder	50
TopsoilAndSubsoilBulkDensity	51
TopsoilAndSubsoilTexture	51
TropicalCyclones	51
Tsunamis	52
VolcanicActivity.....	52
VolcanicActivityRiskZone.....	53
VolcanicEmissions	54
WildlandFires	54
WindStorms	55

Model Documentation

Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

NaturalRiskZone

Type: **Package**
Status: Proposed. Version 1.0. Phase 1.0.
Package: Model
Detail: Created on 15.06.2010. Last modified on 15.06.2010
GUID: {F7644638-74F8-4e84-8880-A04D1A07CFD2}

NaturalRiskZone - (Logical diagram)

Created By: KrauseKa on 15.06.2010
Last Modified: 04.08.2010
Version: 1.0. **Locked:** False
GUID: {CB77CF2D-F423-4b39-92EB-0C6EE1CE7243}

5.2.2.1.1 HydroObject

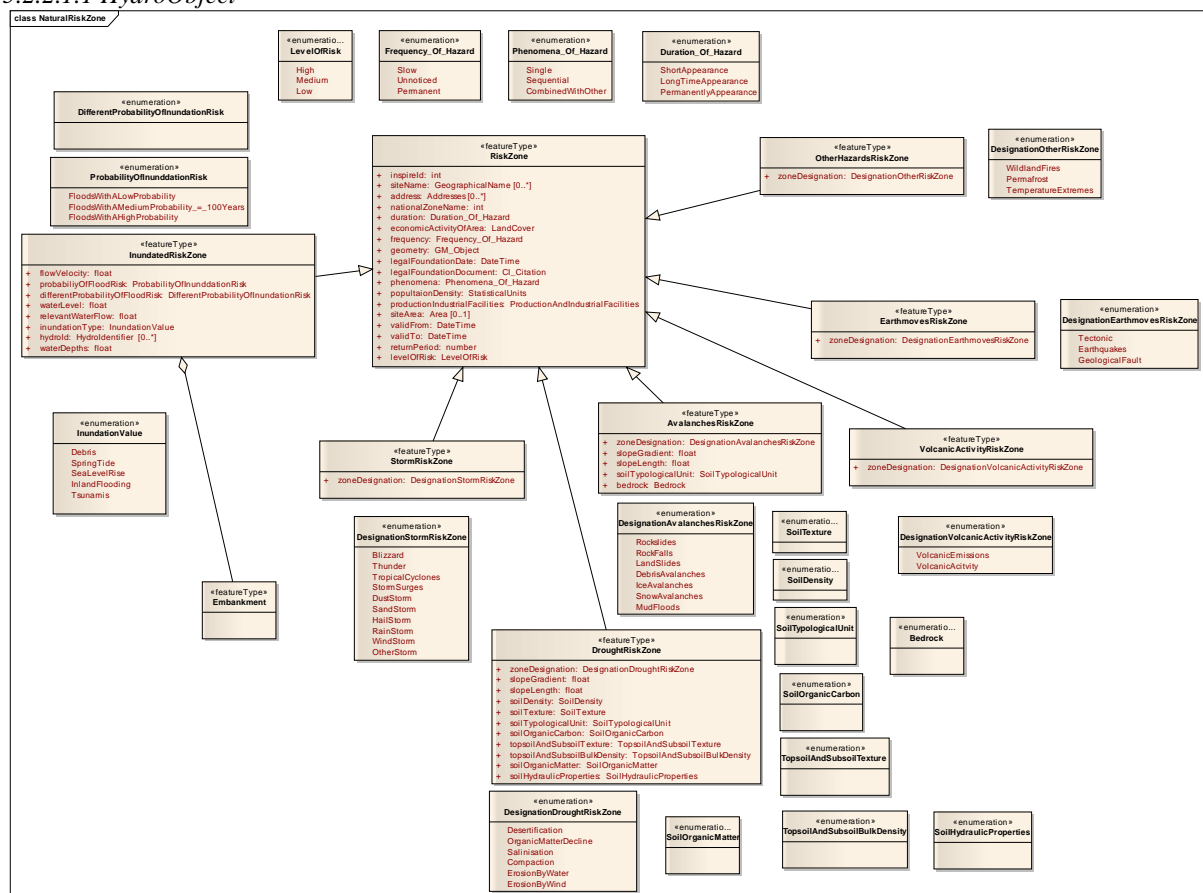


Figure: 1

AvalanchesRiskZone

Type: **Class** **RiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {85E9B03A-A4B6-42d2-AF59-21CD5F6FD4CA}

common elements for the identification of areas at risk of avalanches

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public AvalanchesRiskZone	Public RiskZone	
Generalization Source -> Destination	Public RockFalls	Public AvalanchesRiskZone	
Generalization Source -> Destination	Public IceAvalanches	Public AvalanchesRiskZone	
Generalization Source -> Destination	Public Landslides	Public AvalanchesRiskZone	
Generalization Source -> Destination	Public Rockslides	Public AvalanchesRiskZone	
Generalization Source -> Destination	Public SnowAvalanches	Public AvalanchesRiskZone	
Generalization Source -> Destination	Public DebrisAvalanches	Public AvalanchesRiskZone	

Attributes

Attribute	Notes	Constraints and tags
zoneDesignation DesignationAvalanchesRiskZone Public	designation of the risk zone	<i>Default:</i>

Attribute	Notes	Constraints and tags
slopeGradient float Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 5, COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF LANDSLIDES	<i>Default:</i>
slopeLength float Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 5, COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF LANDSLIDES	<i>Default:</i>
soilTypologicalUnit SoilTypologicalUnit Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 5, COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF LANDSLIDES	<i>Default:</i>
bedrock Bedrock Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 5, COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF LANDSLIDES	<i>Default:</i>

Bedrock

Type:

Status:

Package:

Detail:

GUID:

Enumeration

Proposed. Version 1.0. Phase 1.0.

NaturalRiskZone *Keywords:*

Created on 24.06.2010. Last modified on 04.08.2010.

{2CADEAAE-D32B-48ba-9575-22AC675AEC0B}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

Blizzards

Type: **Class** **StormRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {4DAE8FC9-BBF5-4e26-BC5E-E13E2B76BDA4}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
<u>Generalization</u> Source -> Destination	Public Blizzards	Public StormRiskZone	

Debris

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {D9310F17-2A2E-4a37-8CC0-D2D38179F6B7}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
<u>Generalization</u> Source -> Destination	Public Debris	Public InundatedRiskZone	

DebrisAvalanches

Type: Class AvalanchesRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {532DBCDE-A7AE-4fa9-8CA0-2EBCF392F0D0}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public DebrisAvalanches	Public AvalanchesRiskZone	

Desertification

Type: Class DroughtRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {102B609E-E13B-4662-931B-AB7390936CF4}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Desertification	Public DroughtRiskZone	

DesignationAvalanchesRiskZone

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.

Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 04.08.2010.
GUID: {A0744DD4-EF0C-4138-B0DF-1A54C93B783B}

an enumeration type specifying a set of avalanches categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Rockslides Public «enum»		Default:
RockFalls Public «enum»		Default:
LandSlides Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (f), landslides brought about by the down-slope, moderately rapid to rapid movement of masses of soil and rock material	Default:
DebrisAvalanches Public «enum»		Default:

Attribute	Notes	Constraints and tags
IceAvalanches Public «enum»		Default:
SnowAvalanches Public «enum»		Default:
MudFloods Public «enum»		Default:

DesignationDroughtRiskZone

Type: **Enumeration**

Status: Proposed. Version 1.0. Phase 1.0.

Package: NaturalRiskZone *Keywords:*

Detail: Created on 16.06.2010. Last modified on 04.08.2010.

GUID: {5D88FA0C-A208-456e-87F3-6CA29D7AB57C}

an enumeration type specifying a set of drought categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Desertification Public «enum»	Desertification is the degradation of land in arid and dry sub-humid areas	Default:

Attribute	Notes	Constraints and tags
OrganicMatterDecline Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (b), organic matter decline brought about by a steady downward trend in the organic fraction of the soil, excluding undecayed plant and animal residues, their partial decomposition products, and the soil biomass	Default:
Salinisation Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (d), salinisation through the accumulation in soil of soluble salts	Default:
Compaction Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (c), compaction through an increase in bulk density and a decrease in soil porosity	Default:
ErosionByWater Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (a), erosion by water	Default:
ErosionByWind Public «enum»	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, No 1 (a), erosion by wind	Default:

DesignationEarthmovesRiskZone

Type:

Enumeration

Status:

Proposed. Version 1.0. Phase 1.0.

Package:

NaturalRiskZone *Keywords:*

Detail:

Created on 16.06.2010. Last modified on 04.08.2010.

GUID:

{E3286D6A-C2EB-4eb0-BCF6-A11A26719797}

an enumeration type specifying a set of earthmoves categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Tectonic Public «enum»		<i>Default:</i>
Earthquakes Public «enum»		<i>Default:</i>
GeologicalFault Public «enum»		<i>Default:</i>

DesignationOtherRiskZone

Type: **Enumeration**

Status: Proposed. Version 1.0. Phase 1.0.

Package: NaturalRiskZone *Keywords:*

Detail: Created on 16.06.2010. Last modified on 04.08.2010.

GUID: {1841BC38-13BA-49a5-B260-F6E0DAA0C871}

an enumeration type specifying a set of other risk categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
WildlandFires Public «enum»		Default:
Permafrost Public «enum»		Default:
TemperatureExtremes Public «enum»		Default:

DesignationStormRiskZone*Type:* **Enumeration***Status:* Proposed. Version 1.0. Phase 1.0.*Package:* NaturalRiskZone *Keywords:**Detail:* Created on 16.06.2010. Last modified on 04.08.2010.*GUID:* {958A77DB-F817-470b-8E62-1B085F6D26C4}

an enumeration type specifying a set of storm categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
-----------	-------	----------------------

Attribute	Notes	Constraints and tags
Blizzard Public «enum»		<i>Default:</i>
Thunder Public «enum»		<i>Default:</i>
TropicalCyclones Public «enum»		<i>Default:</i>
StormSurges Public «enum»		<i>Default:</i>
DustStorm Public «enum»		<i>Default:</i>
SandStorm Public «enum»		<i>Default:</i>

Attribute	Notes	Constraints and tags
HailStorm Public «enum»		Default:
RainStorm Public «enum»		Default:
WindStorm Public «enum»		Default:
OtherStorm Public «enum»		Default:

DesignationVolcanicActivityRiskZone

Type: **Enumeration**

Status: Proposed. Version 1.0. Phase 1.0.

Package: NaturalRiskZone *Keywords:*

Detail: Created on 16.06.2010. Last modified on 04.08.2010.

GUID: {E36C7D88-2F8E-4b18-8344-AA2CC1F20EE7}

an enumeration type specifying a set of volcanic categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
-----------	-------	----------------------

Attribute	Notes	Constraints and tags
VolcanicEmissions Public «enum»		<i>Default:</i>
VolcanicAcitvity Public «enum»		<i>Default:</i>

DifferentProbabilityOfInundationRisk

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 04.08.2010.
GUID: {C6C87AC2-B2D3-46e8-AD08-0E587B945F47}

geographical areas which could be flooded according to the other scenarios, enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

Drought

Type: **Class** **DroughtRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {5A71A705-9823-4b7e-A417-DC52C8D2968A}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Drought	Public DroughtRiskZone	

DroughtRiskZone

Type: **Class** **RiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {A687601A-6867-4d7d-98C0-A53179E45BC9}

according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1-4, COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION, OF SOIL ORGANIC MATTER DECLINE, OF COMPACTION, OF SALINISATION

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public DroughtRiskZone	Public RiskZone	
Generalization Source -> Destination	Public ExpansiveSoils	Public DroughtRiskZone	
Generalization Source -> Destination	Public SurfacesCollapses	Public DroughtRiskZone	
Generalization Source -> Destination	Public Desertification	Public DroughtRiskZone	
Generalization Source -> Destination	Public Drought	Public DroughtRiskZone	

Attributes

Attribute	Notes	Constraints and tags
-----------	-------	----------------------

Attribute	Notes	Constraints and tags
zoneDesignation DesignationDroughtRiskZone Public	designation of the risk zone	<i>Default:</i>
slopeGradient float Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION	<i>Default:</i>
slopeLength float Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION	<i>Default:</i>
soilDensity SoilDensity Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION	<i>Default:</i>
soilTexture SoilTexture Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION, SECTION 2 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SOIL ORGANIC MATTER DECLINE, SECTION 4 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SALINISATION	<i>Default:</i>

Attribute	Notes	Constraints and tags
soilTypologicalUnit SoilTypologicalUnit Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 1 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF EROSION, SECTION 2 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SOIL ORGANIC MATTER DECLINE, SECTION 3 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF COMPACTION, SECTION 4 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SALINISATION, SECTION 5 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF LANDSLIDES	<i>Default:</i>
soilOrganicCarbon SoilOrganicCarbon Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 2 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SOIL ORGANIC MATTER DECLINE,	<i>Default:</i>
topsoilAndSubsoilTexture TopsoilAndSubsoilTexture Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 3 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF COMPACTION	<i>Default:</i>
topsoilAndSubsoilBulkDensity TopsoilAndSubsoilBulkDensity Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 3 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF COMPACTION	<i>Default:</i>

Attribute	Notes	Constraints and tags
soilOrganicMatter SoilOrganicMatter Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 3 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF COMPACTION	<i>Default:</i>
soilHydraulicProperties SoilHydraulicProperties Public	according to the proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for the protection of soil and amending Directive 2004/35/EC, SECTION ONE IDENTIFICATION OF RISK AREAS, Article 6, ANNEX I, SECTION 4 COMMON ELEMENTS FOR THE IDENTIFICATION OF AREAS AT RISK OF SALINISATION	<i>Default:</i>

Duration_Of_Hazard

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {0D7E8C49-4B43-44f8-AF8B-99CB6471865B}

an enumeration type specifying a set of duration of hazard categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
ShortAppearance Public «enum»		<i>Default:</i>

Attribute	Notes	Constraints and tags
LongTimeAppearance Public «enum»		Default:
PermanentlyAppearance Public «enum»		Default:

DustStorm

Type: Class StormRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {4853668C-A128-490a-8A5D-CD8321516077}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
<u>Generalization</u> Source -> Destination	Public DustStorm	Public StormRiskZone	

EarthmovesRiskZone

Type: Class RiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {BF999DB4-678B-467b-B268-AD8ADB64CBCE}

common elements for the identification of areas at risk of earthmoves

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public EarthmovesRiskZone	Public RiskZone	
Generalization Source -> Destination	Public Earthquakes	Public EarthmovesRiskZone	
Generalization Source -> Destination	Public GeologicalFault	Public EarthmovesRiskZone	
Generalization Source -> Destination	Public Tectonic	Public EarthmovesRiskZone	

Attributes

Attribute	Notes	Constraints and tags
zoneDesignation DesignationEarthmovesRiskZone Public	designation of the risk zone	<i>Default:</i>

Earthquakes

Type: **Class** **EarthmovesRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {14969456-5F50-4400-A9EF-09A38D3D885C}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	Earthquakes	EarthmovesRiskZone	

Embankment

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {17DFF283-32A2-47d2-9232-9CD8B507B274}

5.3.2.4.1 INSPIRE DataSpecification HY, A man-made raised long mound of earth or other material

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Aggregation Source -> Destination	Public Embankment	Public InundatedRiskZone	

ExpansiveSoils

Type: **Class** **DroughtRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {2E34D526-7946-479d-9738-C009280525AF}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public ExpansiveSoils	Public DroughtRiskZone	

Frequency_Of_Hazard

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {D5643139-E74E-475a-805C-BF55123BB3DE}

an enumeration type specifying a set of frequency of hazard categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Slow Public «enum»		Default:
Unnoticed Public «enum»		Default:
Permanent Public «enum»		Default:

GeologicalFault

Type: **Class** **EarthmovesRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {A1B0669C-2854-44fa-A7D4-CEC505833F4A}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public GeologicalFault	Public EarthmovesRiskZone	

Hailstorms

Type: **Class** **StormRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {197A017E-C4CA-4fde-8B47-D2F5697891D5}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Hailstorms	Public StormRiskZone	

IceAvalanches

Type: **Class** **AvalanchesRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {F11DF95E-2E66-4cbc-BC66-52F107D2D876}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public IceAvalanches	Public AvalanchesRiskZone	

InlandFlooding

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {65700646-CAC2-43af-B11D-EECC7EF733CF}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public InlandFlooding	Public InundatedRiskZone	

Attributes

Attribute	Notes	Constraints and tags
flowVelocity float Public		<i>Default:</i>
probabilityOfFloodRisk ProbabilityOfInundationRisk Public		<i>Default:</i>

Attribute	Notes	Constraints and tags
waterLevel float Public		<i>Default:</i>
relevantWaterFlow float Public		<i>Default:</i>

InundatedRiskZone

Type: Class RiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {B14B8F55-A759-47d2-9DB1-70FE72BB9AB6}

according to 5.3.2.4.4 InundatedLand, INSPIRE DataSpecification HY, a tract periodically covered by flood water

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Tsunamis	Public InundatedRiskZone	
Generalization Source -> Destination	Public MudFlows	Public InundatedRiskZone	
Generalization Source -> Destination	Public MudFloods	Public InundatedRiskZone	
Generalization Source -> Destination	Public InundatedRiskZone	Public RiskZone	
Generalization Source -> Destination	Public SpringTide	Public InundatedRiskZone	
Generalization	Public	Public	

Connector	Source	Target	Notes
Source -> Destination	Debris	InundatedRiskZone	
Generalization Source -> Destination	Public InlandFlooding	Public InundatedRiskZone	
Generalization Source -> Destination	Public SeaLevelRise	Public InundatedRiskZone	
Aggregation Source -> Destination	Public Embankment	Public InundatedRiskZone	

Attributes

Attribute	Notes	Constraints and tags
flowVelocity float Public	Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 4 (c)	<i>Default:</i>
probabiliyOfFloodRisk ProbabilityOfInundationRisk Public	Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 3	<i>Default:</i>
differentProbabilityOfFloodRisk DifferentProbabilityOfInundationRisk Public	geographical areas which could be flooded according to the other scenarios	<i>Default:</i>
waterLevel float Public	Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 4 (b)	<i>Default:</i>

Attribute	Notes	Constraints and tags
relevantWaterFlow float Public	Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 4 (c)	<i>Default:</i>
inundationType InundationValue Public	5.3.2.4.4 INSPIRE DataSpecification HY	<i>Default:</i>
hydroId HydroIdentifier Public [0..*]	according to 5.2.2.1.1 HydroObject INSPIRE DataSpecification HY, An identifier that is used to identify a hydrographic object in the real world. It provides a 'key' for implicitly associating different representations of the object.	<i>Default:</i>
waterDepths float Public	Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 4 (b)	<i>Default:</i>

InundationValue

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 04.08.2010.
GUID: {44E559D4-D512-400c-AB1A-B576FBC638FB}

5.3.2.4.4 INSPIRE DataSpecification HY,
an enumeration type specifying a set of inundation categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Debris Public «enum»		Default:
SpringTide Public «enum»		Default:
SeaLevelRise Public «enum»		Default:
InlandFlooding Public «enum»		Default:
Tsunamis Public «enum»		Default:

Landslides

Type: Class AvalanchesRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {1FF961CB-AD62-4d46-828F-0E2A2F27CC20}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Landslides	Public AvalanchesRiskZone	

LevelOfRisk*Type:***Enumeration***Status:*

Proposed. Version 1.0. Phase 1.0.

*Package:*NaturalRiskZone *Keywords:**Detail:*

Created on 06.07.2010. Last modified on 04.08.2010.

GUID:

{380ACA21-BEF3-47a8-BC6C-D213E147BF40}

an enumeration type specifying a set of level of risk categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
High Public «enum»	high risk	<i>Default:</i>
Medium Public «enum»	medium risk	<i>Default:</i>

Attribute	Notes	Constraints and tags
Low Public «enum»	low risk	Default:

MudFloods

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {4C284C36-8799-4271-B048-2F7235375E50}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public MudFloods	Public InundatedRiskZone	

MudFlows

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {8524619F-B5E8-47b5-8B67-4D34B1EC5A08}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
-----------	--------	--------	-------

Connector	Source	Target	Notes
Generalization Source -> Destination	Public MudFlows	Public InundatedRiskZone	

OtherHazardsRiskZone

Type: **Class** **RiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {68384A59-2ADE-4a70-9AFD-E6D1B3617983}

common elements for the identification of areas at risk of other hazards

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public OtherHazardsRiskZone	Public RiskZone	
Generalization Source -> Destination	Public Permafrost	Public OtherHazardsRiskZone	
Generalization Source -> Destination	Public WildlandFires	Public OtherHazardsRiskZone	
Generalization Source -> Destination	Public TemperatureExtremes	Public OtherHazardsRiskZone	

Attributes

Attribute	Notes	Constraints and tags
zoneDesignation DesignationOtherRiskZone Public	designation of the risk zone	<i>Default:</i>

OtherStorms

Type: **Class** **StormRiskZone**

Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {BF817049-686A-4ea4-AD33-99E50659AC89}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public OtherStorms	Public StormRiskZone	

Permafrost

Type: **Class** OtherHazardsRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {12504963-9FA2-4bcb-B835-02CCF6182C7D}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Permafrost	Public OtherHazardsRiskZone	

Phenomena_Of_Hazard

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {A818D329-A1D4-43c8-8680-49BA24B78EC7}

an enumeration type specifying a set of phenomena of hazard categories

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
Single Public «enum»		Default:
Sequential Public «enum»		Default:
CombinedWithOther Public «enum»		Default:

ProbabilityOfInundationRisk

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {A5DA0874-B443-4c38-A045-B40BD16458CC}

Directive 2007/60/EC of the European Parliament and of the Council of 23 October 2007 on the assessment and management of flood risk, CHAPTER III, FLOOD HAZARD MAPS AND FLOOD RISK MAPS, Article 6, No 3 (a), (b), (c)

Custom Properties

- isActive = False

Attributes

Attribute	Notes	Constraints and tags
FloodsWithALowProbability Public «enum»	floods with a low probability, or extreme event scenarios	<i>Default:</i>
FloodsWithAMediumProbability_=_100Years Public «enum»	floods with a medium probability (likely return period = 100 years)	<i>Default:</i>
FloodsWithAHighProbability Public «enum»	floods with a high probability, where appropriate	<i>Default:</i>

RainStorm

Type: **Class** **StormRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {EE66C0AC-032B-4014-AA9F-41AB5EAAC8B2}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public RainStorm	Public StormRiskZone	

RiskZone

Type: **Class**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {B7B6D549-56D6-4462-A989-4AA86F256AFA}

"Natural risk zones" are zones where natural hazards areas intersect with highly populated areas and/or areas of particular environmental/ cultural/ economic value. Risk in this context is defined as: risk = hazard x probability of its occurrence x vulnerability of the exposed populations and of the environmental, cultural and economic assets in the zone considered.

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public InundatedRiskZone	Public RiskZone	
Generalization Source -> Destination	Public OtherHazardsRiskZone	Public RiskZone	
Generalization Source -> Destination	Public EarthmovesRiskZone	Public RiskZone	
Generalization Source -> Destination	Public VolcanicActivityRiskZone	Public RiskZone	
Generalization Source -> Destination	Public AvalanchesRiskZone	Public RiskZone	
Generalization Source -> Destination	Public DroughtRiskZone	Public RiskZone	
Generalization Source -> Destination	Public StormRiskZone	Public RiskZone	

Attributes

Attribute	Notes	Constraints and tags
inspireId int Public	External object identifier of the risk zone 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.	<i>Default:</i>

Attribute	Notes	Constraints and tags
siteName GeographicalName Public [0..*]	The name of the Risk Zone.	<i>Default:</i>
address Addresses Public [0..*]	addresses in a risk zone	<i>Default:</i>
nationalZoneName int Public	name	<i>Default:</i>
duration Duration_Of_Hazard Public		<i>Default:</i>
economicActivityOfArea LandCover Public	type of economic activity of the area potentially affected	<i>Default:</i>
frequency Frequency_Of_Hazard Public	Several categories of natural hazards are not sudden in nature. They may be permanent phenomena going unnoticed (e.g.: radon gas emanations, deficit or excess of elements in soils and water), or slow phenomena (slow ground motion).	<i>Default:</i>

Attribute	Notes	Constraints and tags
geometry GM_Object Public	The geometry defining the boundary of the risk zone.	<i>Default:</i>
legalFoundationDate DateTime Public	The date that the risk zone 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.	<i>Default:</i>
legalFoundationDocument CI_Citation Public	A URL or text citation referencing the legal act that created the risk zone	<i>Default:</i>
phenomena Phenomena_Of_Hazard Public	Hazards can be single, sequential or combined in their origin and effects	<i>Default:</i>
populationDensity StatisticalUnits Public	the indicative number of inhabitants potentially affected	<i>Default:</i>
productionIndustrialFacilities ProductionAndIndustrialFacilities Public	production and industrial facilities potentially affected	<i>Default:</i>

Attribute	Notes	Constraints and tags
siteArea Area Public [0..1]	The area of the site in hectares. This may not be the same as area calculated from the geometry.	<i>Default:</i>
validFrom DateTime Public	Date and time of which this version of the risk zone was or will be valid in the real world.	<i>Default:</i>
validTo DateTime Public	Date and time at which this version of the risk zone ceased or will cease to exist in the real world.	<i>Default:</i>
returnPeriod number Public	The average period (in years) between the occurrences of an event.	<i>Default:</i>
levelOfRisk LevelOfRisk Public		<i>Default:</i>

RockFalls

Type:
Status:
Package:
Detail:
GUID:

Class **AvalanchesRiskZone**

Proposed. Version 1.0. Phase 1.0.

NaturalRiskZone **Keywords:**

Created on 16.06.2010. Last modified on 16.06.2010.

{BFFB558C-31F4-4263-8C74-860C62DE6234}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public RockFalls	Public AvalanchesRiskZone	

Rockslides

Type: **Class** AvalanchesRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {39B833D6-830C-46df-BD7E-1E472C801578}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Rockslides	Public AvalanchesRiskZone	

SandStorms

Type: **Class** StormRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {8E3EC89B-9548-4897-8ABF-5EB23FDEE101}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public SandStorms	Public StormRiskZone	

SeaLevelRise

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {FF939F29-4C12-4a58-B086-ABF0B69BBC3F}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public SeaLevelRise	Public InundatedRiskZone	

SnowAvalanches

Type: **Class** **AvalanchesRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {99C20FAD-1458-46fb-AC6C-AC4EDFAFA90C}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public SnowAvalanches	Public AvalanchesRiskZone	

SoilDensity

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 04.08.2010.
GUID: {F15F3CC7-5D3D-4bec-8377-31D5DF76F1DC}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SoilHydraulicProperties

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {91B4B4E3-4B91-4b41-9665-B8725C3940DC}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SoilOrganicCarbon

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {6595C03E-F712-4491-90B8-997125578F01}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SoilOrganicMatter

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.

Package: NaturalRiskZone *Keywords:*
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {EF883A83-CF97-408d-B1D7-F4CA942733BF}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SoilTexture

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 04.08.2010.
GUID: {2B781F39-BF4B-4f51-95FC-7113EE50319B}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SoilTypologicalUnit

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {AB36EB53-D93F-493f-9164-9C92AE63C393}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

SpringTide

Type: **Class** **InundatedRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {1A83B8AC-57A2-4290-9B4D-990E15F99959}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public SpringTide	Public InundatedRiskZone	

StormRiskZone

Type: **Class** **RiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {4A2AE9E0-38B2-493c-8C08-808B0B47B457}

common elements for the identification of areas at risk of storms

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Hailstorms	Public StormRiskZone	
Generalization Source -> Destination	Public WindStorms	Public StormRiskZone	
Generalization Source -> Destination	Public OtherStorms	Public StormRiskZone	
Generalization Source -> Destination	Public StormSurges	Public StormRiskZone	
Generalization Source -> Destination	Public TropicalCyclones	Public StormRiskZone	
Generalization Source -> Destination	Public Thunder	Public StormRiskZone	
Generalization Source -> Destination	Public SandStorms	Public StormRiskZone	

Connector	Source	Target	Notes
Generalization Source -> Destination	Public StormRiskZone	Public RiskZone	
Generalization Source -> Destination	Public RainStorm	Public StormRiskZone	
Generalization Source -> Destination	Public Blizzards	Public StormRiskZone	
Generalization Source -> Destination	Public DustStorm	Public StormRiskZone	

Attributes

Attribute	Notes	Constraints and tags
zoneDesignation DesignationStormRiskZone Public	designation of the risk zone	<i>Default:</i>

StormSurges

Type: **Class** **StormRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {5C9CF20D-6590-4526-B489-3B1093242420}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public StormSurges	Public StormRiskZone	

SurfacesCollapses

Type: **Class** **DroughtRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {CAE8E71A-BA1B-4e40-A8CD-03C095CE17BD}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public SurfacesCollapses	Public DroughtRiskZone	

Tectonic

Type: **Class** **EarthmovesRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {A29513C7-3DDD-4a73-8A99-AD44334E79CE}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Tectonic	Public EarthmovesRiskZone	

TemperatureExtremes

Type: **Class** **OtherHazardsRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {289D9AEF-BDB2-4506-A933-8873377FF913}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public TemperatureExtremes	Public OtherHazardsRiskZone	

Thunder

Type: **Class** **StormRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {5C023613-CD38-4aba-8AD8-D99D4E8B11F2}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Thunder	Public StormRiskZone	

TopsoilAndSubsoilBulkDensity

Type: **Enumeration**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {1D3D7019-41F6-4d0f-9046-24A50182F80C}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

TopsoilAndSubsoilTexture

Type: Enumeration
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 24.06.2010. Last modified on 04.08.2010.
GUID: {7C2151A5-5EF4-40aa-A874-7DC94DE17731}

enumeration that have to be supplemented by experts

Custom Properties

- isActive = False

TropicalCyclones

Type: Class StormRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {4253CB8D-2FEB-4110-9BA6-EEE148CC787E}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
<u>Generalization</u> Source -> Destination	Public TropicalCyclones	Public StormRiskZone	

Tsunamis

Type: Class InundatedRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {FC6D408E-D374-4d6e-BDB6-256B81B86C86}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public Tsunamis	Public InundatedRiskZone	

VolcanicActivity

Type: **Class** **VolcanicActivityRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {4052419F-C46C-447b-A1E4-820A54A6A205}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public VolcanicActivity	Public VolcanicActivityRiskZone	

VolcanicActivityRiskZone

Type: **Class** **RiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone **Keywords:**
Detail: Created on 15.06.2010. Last modified on 04.08.2010.
GUID: {8D0C2039-EF63-4b3a-925C-7D4A060E7589}

common elements for the identification of areas at risk of volcanic activity

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public VolcanicActivityRiskZone	Public RiskZone	
Generalization Source -> Destination	Public VolcanicEmissions	Public VolcanicActivityRiskZone	
Generalization Source -> Destination	Public VolcanicActivity	Public VolcanicActivityRiskZone	

Attributes

Attribute	Notes	Constraints and tags
zoneDesignation DesignationVolcanicActivityRiskZone Public	designation of the risk zone	<i>Default:</i>

VolcanicEmissions

Type: Class **VolcanicActivityRiskZone**
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {8FE3D835-B345-4f86-939B-4C2CD8C4A9D8}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public VolcanicEmissions	Public VolcanicActivityRiskZone	

WildlandFires

Type: Class OtherHazardsRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 16.06.2010. Last modified on 16.06.2010.
GUID: {08C4B4AF-D43D-4363-88F1-0349DC97802A}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public WildlandFires	Public OtherHazardsRiskZone	

WindStorms

Type: Class StormRiskZone
Status: Proposed. Version 1.0. Phase 1.0.
Package: NaturalRiskZone *Keywords:*
Detail: Created on 15.06.2010. Last modified on 15.06.2010.
GUID: {818D52B7-AF0C-4941-8B2D-FE622208C8AC}

Custom Properties

- isActive = False

Connections

Connector	Source	Target	Notes
Generalization Source -> Destination	Public WindStorms	Public StormRiskZone	