



# COSA SI INTENDE PER MAPPING DI DATI

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# LA PROCEDURA DI SCHEMA / DATA TRANSFORMATION

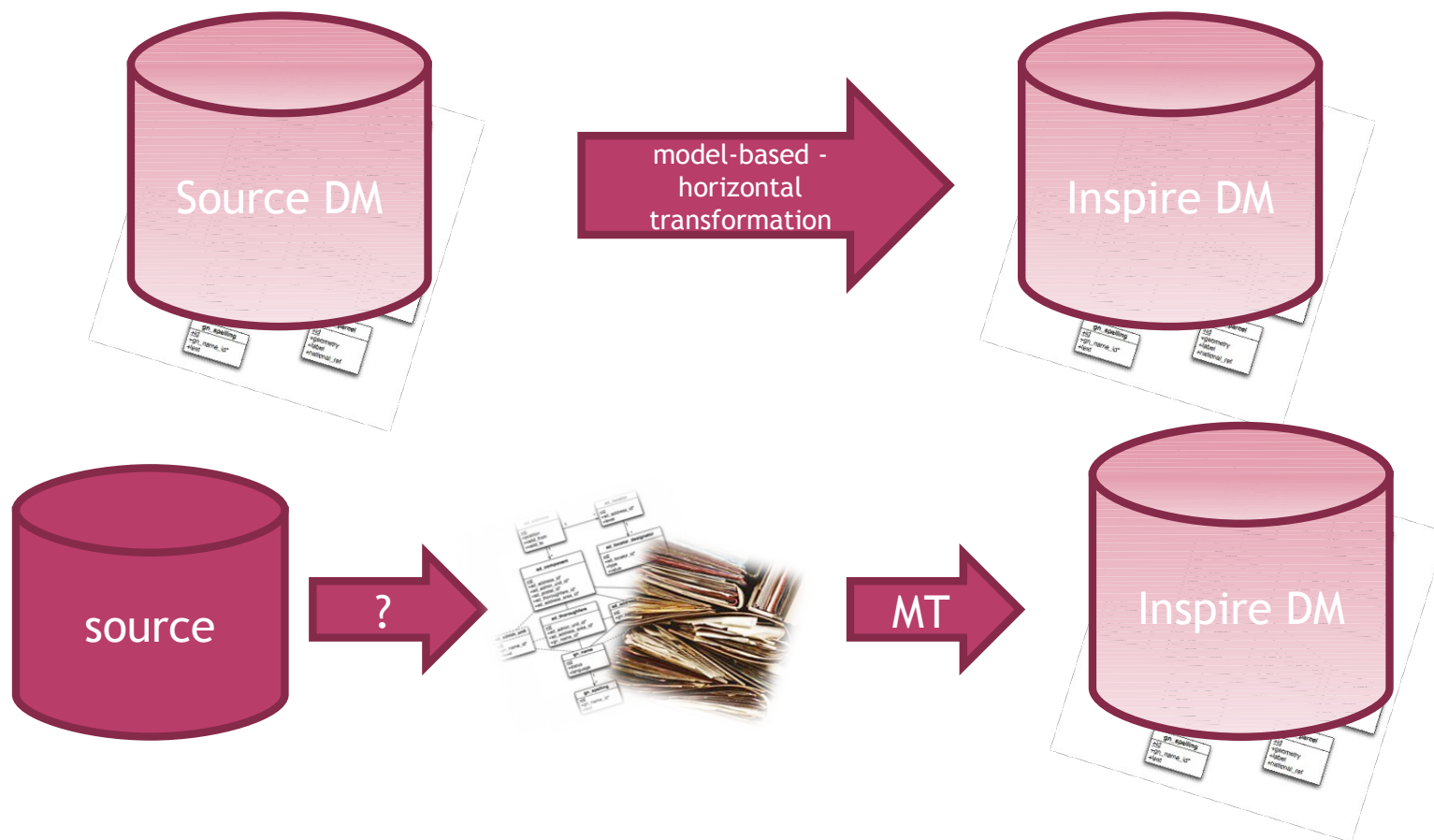
- ◉ Identificare il Data Model target
  - ◉ Identificare il Data Model sorgente
  - ◉ **Combinare il risultato delle analisi precedenti in una struttura uniforme (semplice) e stabilire le corrispondenze tra gli item individuati**
  - ◉ Individuare le criticità e definire una soluzione
- design
- ◉ Eseguire le trasformazioni tramite un tool appropriato
  - ◉ Analizzare il comportamento( Debugging)
  - ◉ Testare l'intero range di dati per garantire la qualità(Validation)
  - ◉ Pubblicare (condividere) il dato trasformato

GML DB WFS

Documentare il processo e i suoi cambiamenti  
Salvare le regole di trasformazione per il riuso

**COMBINARE IL RISULTATO DELLE  
ANALISI PRECEDENTI IN UNA  
STRUTTURA ...**

# DEFINIZIONE DELLE CORRISPONDENZE



# Full Matching Table Layout

Left hand side – INSPIRE Model

Right Hand Side – NMCA Model

Application Schema 'Hydro - Physical Waters' (version 3.0)							Application Schema <provide name of source schema>										
Type	Documentation	Attribute / Association role	Constraint	Attribute / Association role / Constraint documentation	Values / Enumerations	Multiplicity	Voidable / Non-Voidable	Type	Documentation	Attribute / Association role	Constraint	Attribute / Association role / Constraint documentation	Values / Enumerations	Multiplicity	Voidable / Non-Voidable	Status	Remarks
StandingWater	A body of water that is entirely surrounded by land SOURCE [DFDD]. NOTE It may occur in a natural terrain depression in which water collects, or may be impounded by a dam, or formed by its bed being hollowed out of the soil, or formed by embanking and/or damming up a natural hollow (for example by a beaver dam). It may be connected to inflowing/ outflowing watercourses or other standing waters.							Innsje (Lake)								Easy	FKB
		geographicalName		A geographical name that identifies the object.	GeographicalName	0..*	voidable									Difficult	Names is a part of the name
		hydroid		An identifier that is used to identify the object.	HydroIdentifier	0..*	voidable									Not Available	NA
		relatedHydroObject		A related hydrographic object.	HydroObject	0..*	voidable									Not Available	NA
		beginLifespanVersion		Date and time at which this version of the spatial object was created.	DateTime	1	voidable		Youngest of	DataLangstidato of			DateTime	1		Easy	Norwegian definition is
		endLifespanVersion		Date and time at which this version of the spatial object was deleted.	DateTime	0..1	voidable									Not Available	NA
		geometry		The geometry of the surface water - either a curve or surface for a watercourse - either a point or surface for a standing water.	GM_Primitive	1				KURVE (Curve) + FLATE (Surface)						Easy	Boundary (LakeEdge, LakeEdgeFagda) tested - some licitious lines)
		inspireid		External object identifier	Identifier	1				ID (identification)		unique identification of	Identifier	0		Difficult	Not populated
		levelOfDetail		Resolution, expressed as a distance.	MD_Resolution	0..1				MÅTAKTIGHET / H-OPPLØSNING			INTEGER	1		Easy	Accuracy on
		localType		Provides local name for the type of surface water. EXAMPLE Canal, channel, ditch, etc.	LocalizedCharacterString	0..1	voidable									Not Available	
		origin		Origin of the surface water.	OriginValue "natural"	1	voidable									Not Available	NA
		persistence		The degree of persistence of the surface water.	HydrologicalPersistence	1	voidable									Not Available	NA
		tidal		Identifies whether the surface water is tidal.	Boolean "TRUE" "FALSE"	1	voidable									Not Available	NA
		drainsBasin		The basin(s) drained by a surface water.	DrainageBasin	1..*	voidable									Not Available	NA
		bank		The bank(s) associated to a surface water.	Shore	0..*	voidable									Not Available	NA
		neighbour		An association to another surface water.	SurfaceWater	0..*	voidable									Not Available	NA
		elevation		Elevation above mean sea level.	Length	1	voidable			HØYDE (Elevation)				0..1		LI	
		meanDepth		Average depth of the body of water.	Length	1	voidable									Not Available	NA
		surfaceArea		Surface area of the body of water.	Area	1	voidable									Not Available	Possible to
		geometryIsSurfaceOrPoint		If Standing water geometry may be a surface or point. Yes = self.geometry.isTypeOf (GM_Surface) or self.geometry.isTypeOf (GM_Point)												Not Available	Yes

# Left Hand Side - INSPIRE Model

Supertypes

Association Role

Association Role Documentation

Application Schema 'Hydro - Physical Waters' (version 3.0)						
Type	Documentation	Attribute / Association role	Association role / Constraint	Values / Enumerations	Multiplicity	Voidable / Non-Voidable
<b>StandingWater</b> <i>Supertypes: SurfaceWater, HydroObject</i>	A body of water that is entirely surrounded by land.SOURCE [DFDD]. NOTE It may occur in a natural terrain depression in which water collects, or may be impounded by a dam, or formed by its bed being hollowed out of the soil, or formed by embanking and/or damming up a natural hollow (for example: by a beaver dam). It may be connected to inflowing / outflowing watercourses or other standing waters.	<b>geographicalName</b>	A geographical name that	GeographicalName	0..*	voidable
		<b>hydroId</b>	An identifier that is used	HydroIdentifier	0..*	voidable
		<b>relatedHydroObject</b>	A related hydrographic	HydroObject	0..*	voidable
		<b>beginLifespanVersion</b>	Date and time at which this version of the spatial	DateTime	1	voidable
		<b>endLifespanVersion</b>	Date and time at which	DateTime	0..1	voidable
		<b>geometry</b>	The geometry of the surface water: - either a curve or surface for a watercourse; - either a point or surface for a standing water.	GM_Primitive	1	
		<b>inspireId</b>	External object identifier	Identifier	1	
		<b>levelOfDetail</b>	Resolution, expressed as	MD_Resolution	0..1	
		<b>localType</b>	Provides 'local' name for the type of surface water.EXAMPLE Canal, channel, ditch, etc.	LocalisedCharacterString	0..1	voidable
		<b>origin</b>	Origin of the surface water.SOURCE [Based	Origin'Value*'natural' manMade	1	voidable
		<b>persistence</b>	The degree of persistence of water.SOURCE [Based on DFDD].	HydrologicalPersistence'Value*'dry' ephemeral' intermittent' perennial	1	voidable
		<b>tidal</b>	Identifies whether the	Boolean*'TRUE' FALSE	1	voidable
		<b>drainsBasin</b>	The basin(s) drained by a	DrainageBasin	1..*	voidable
		<b>bank</b>	The bank(s) associated to	Shore	0..*	voidable
		<b>neighbour</b>	An association to another	SurfaceWater	0..*	voidable
		<b>elevation</b>	Elevation above mean	Length	1	voidable
		<b>meanDepth</b>	Average depth of the body	Length	1	voidable
		<b>surfaceArea</b>	Surface area of the body	Area	1	voidable
		<b>geometryIsSurfaceOrPoint</b>	! Standing water geometry may be a surface or point ?! inv: self.geometry.occlsTypeOf (GM_Surface) or self.geometry.occlsTypeOf (GM_Point)			

Voidable

Multiplicity

Constraint

Type Attribute Value/Enumeration

# PROBLEMI E CRITICITÀ

## ⊙ Sorgente vs IDM

- 1 ... 1 (!)
- \* ... 1
- 0 ... 1 (?)
- $\Sigma$  ... \*
- 1 ... \*
- 1 ... 0
- -----
- foreign key
- Integrità referenziale
- FT

## ⊙ Codelist / dizionari non uniformi

schema

valori

# STATUS E REMARKS

Status	Remarks
Easy	FKB 1:5000
Easy	Norwegian definition is almost the same as Inspire-definition.
Not Available	
1.1	
Difficult	Not populated now. To be decided how it is determined.
Easy	Possible to create from ShorelineConstruction
Easy	

I valori di Status appartengono solo a due codelist:  
perType, Attribute or Association

**1:1** matchable.  
**Easy** richiesto geoprocessing semplice da eseguire  
**Difficult** richiesto geoprocessing probabilmente difficile da eseguire  
**Not Available** non presente nel dataset sorgente

per Constraints

**Yes** matchable  
**No** not matched  
**NA** non presente nel dataset sorgente

Se nella colonna Status viene inserito un valore 'easy' o 'difficult' la ragione di ciò deve essere inserita nella colonna Remarks