

Rui Reis

HYDROGRAPHY



Introduction Data Harmonization Hydrography Transport Networks Geoportal Conclusions



Data available

Data provider	Level	Dataset	Scale
VUGK	National	UNIBA-SK50	1:50 000
ICC	Regional	BT-5M	1:5 000
		BT-50M	1:50 000
RLIG	Regional	DBPrior10K	1:10 000
RPIE/CSI	Regional	DBPrior10K	1:10 000
CGE	Local	CTC1000/CTC2000	1:1 000/1:2 000
IGP	National	ERMPT	1:250 000
		EGMPT	1:1 000 000
INSIEL	Regional	Dbprior_0203_Corso_acqua	1:10 000
RVEN	Regional	DBPrior10K	1:10 000
MAV	Local	GD010IDROLAGL1	1:5 000

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Data available

- 11 datasets from 9 data providers:
 - Local data at large scales
 - (1/1000, 1/2000 and 1/5000) (CGE & MAV)
 - Data using the DBPrior10k specifications
 - provided by regional data providers: (RLIG,RPIE/CSI,RVEN,INSIEL)
 - Data used for reporting in the context of the WFD
 - (VUGK 1/50k)
 - Generic mapping data
 - from ICC (5k & 50k) and IGP (1/250k & 1/1M)





INSPIRE DM

Following the methodology defined in DS-D2.6 INSPIRE DM built around 3 use cases:

– <u>Mapping</u>:

 basic map reference; it includes the representation of main physical waters and related objects.

– Reporting:

 in the context of the WFD reporting to the Commission about quality and quantity of water.

– Spatial Analysis and Modelling:

derivation of information based on the hydrographic network using GIS techniques.



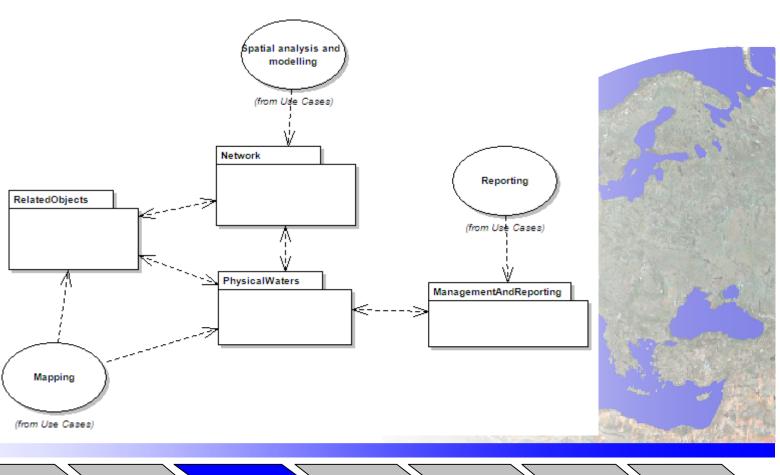


INSPIRE DM

- 4 packages:
 - <u>ManagementAndReporting</u>:
 - · base feature type is WFDWaterBody,
 - Network:
 - nodes, links, aggregated links (to define routes) and areas.
 - PhysicalWaters:
 - 11 feature types (CatchmentArea, Basin, SurfaceWater, Watercourse, StandingWater, LandWaterBoundary, Sea, Foreshore, Riverbank, Wetland and GlacierSnowfield).
 - RelatedObjects:
 - 24 other features (some are placeholders for Annex III themes, e.g. MonitoringPoint).
 - 3 sub-packages: HydroFacility, HydroPointOfInterest and ManMadeObject.



INSPIRE DM



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Package	INSPIRE features matched	NOT matched
Network	WatercourseLink, WatercourseNode (2)	4
ManagementAnd Reporting	WFDSurfaceWaterBody (1)	5
PhysicalWaters	StandingWater, Watercourse, LandWaterBoundary, Sea, Foreshore, Wetland, Riverbank, CatchmentArea (8)	3
RelatedObjects	DamOrWeir, Embankment, ShorelineConstruction, DischargePoint, SpringOrSeep, Pipe, Ford, AbstractPoint, VanishingPoint, SubsurfaceCrossing, SurfaceCrossing (11)	13

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- Network package:
 - WatercourseLink
 - id,
 - geographicalName,
 - flowDirection ,
 - centerlineGeometry,
 - Length
 - WatercourseNode
 - id,
 - hydroNodeCategory

- PhysicalWaters package:
 - StandingWater
 - hydroid,
 - id
 - geographicalName,
 - Origin,
 - Elevation,
 - surfaceArea,
 - localType





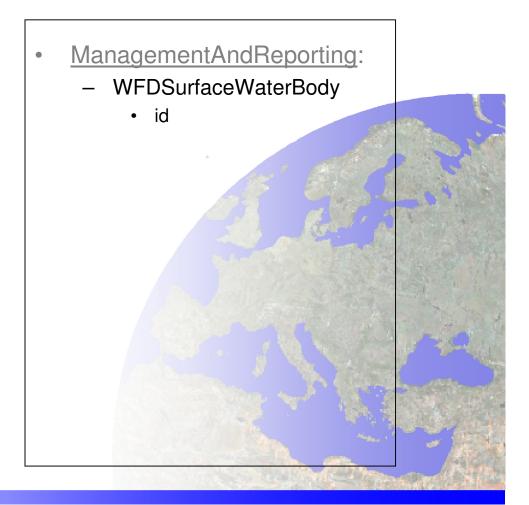
- PhysicalWaters package:
 - Watercourse
 - beginLifespanVersion,
 - endLifespanVersion,
 - Origin,
 - · Condition,
 - · Fictitious.
 - Level,
 - id,
 - · geographicalName,
 - length,
 - · LevelOfDetail,
 - localType,
 - · waterCourseHierarchy,
 - persistence

- PhysicalWaters package:
 - LandWaterBoundary
 - Origin,
 - waterLevelCategory,
 - id
 - CatchmentArea
 - area,
 - · hydroid,
 - geographicalName
 - Foreshore
 - geographicalName
 - Sea
 - Wetland

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- RelatedObjects:
 - DamOrWeir
 - condition
 - SpringOrSeep
 - Embankment
 - ShorelineConstruction
 - AbstractPoint
 - DischargePoint
 - Pipe
 - Ford
 - SubsurfaceCrossing
 - SurfaceCrossing
 - VanishingPoint



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Conclusions

- It was possible to find matchings for all features but one in two datasets
- It was possible to find matchings for most of the features for another two datasets
- Other datasets have more limited number of matchings
 - RLIG, RPIE, RVEN: each with 5 features matched
 - DBPrior10K, CGE, MAV, VUGK: no features from RelatedObjects package
- Some packages have almost no matchings:
 - ManagementAndReporting package: 1 match
 - Network package: 2 matches





Conclusions

- Most of the matchings are with the features of the packages derived from the Mapping use case (PhysicalWaters & RelatedObjects).
- Some data providers reported the need for specific features types (e.g. MAV=speed limit).
- No GIS4EU dataset has full INSPIRE feature catalogue.
- Which features are mandatory to be considered INSPIRE compliant?

