



# Extensions on INSPIRE

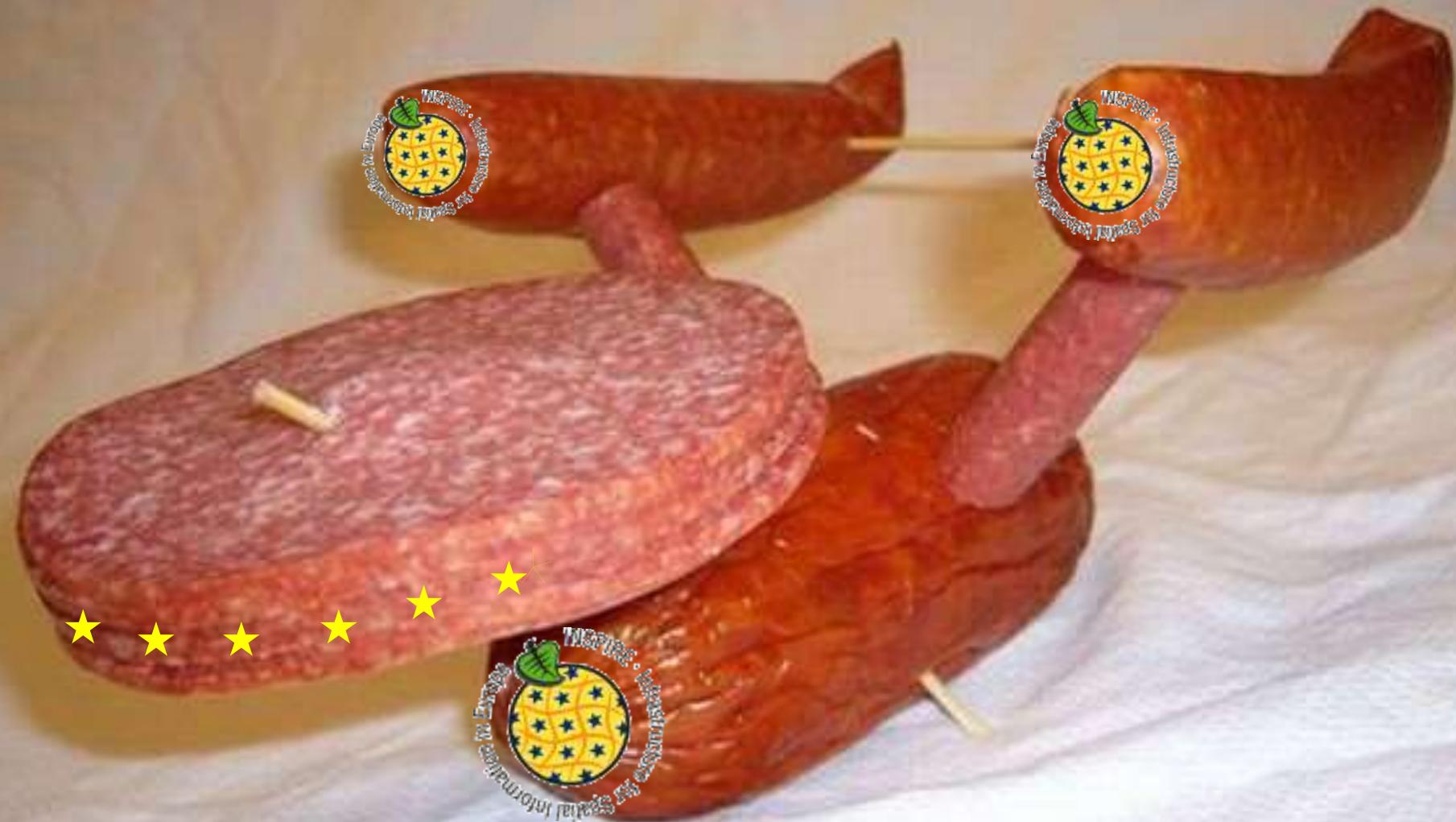
**KLIC-WIN as extension on INSPIRE  
utilities**

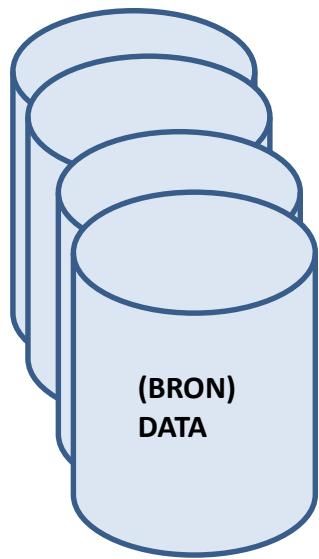
Modified from Open Geodag 2015  
Paul Janssen (Geonovum)  
[p.janssen@geonovum.nl](mailto:p.janssen@geonovum.nl)

# Starship INSPIRE encounters National SDI: Collision or Merger?

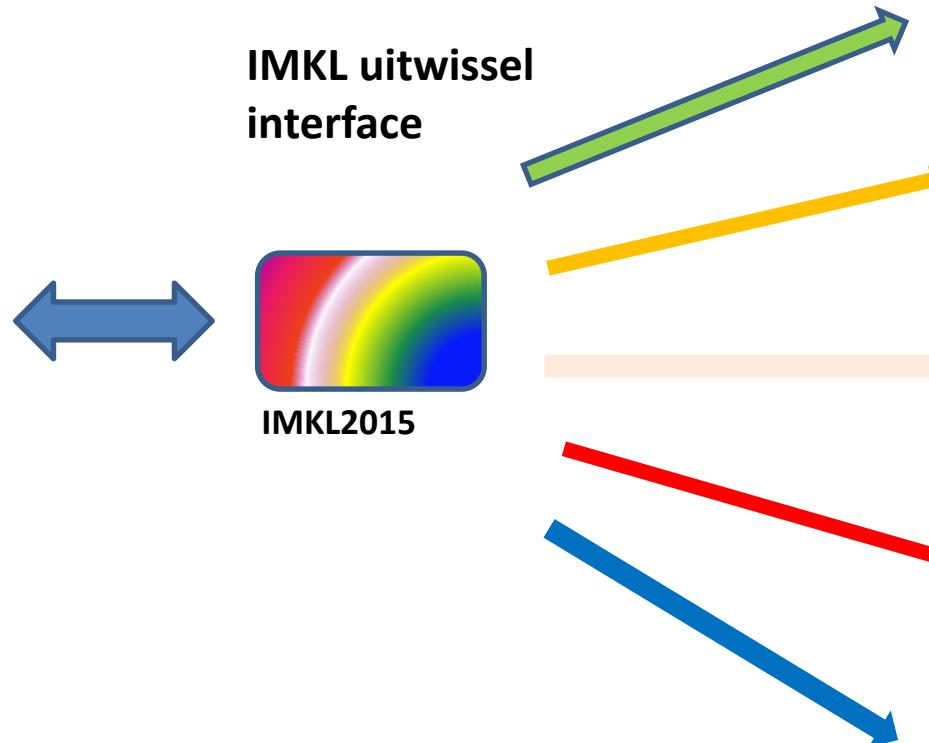
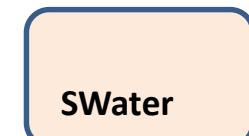


# Make it digestible

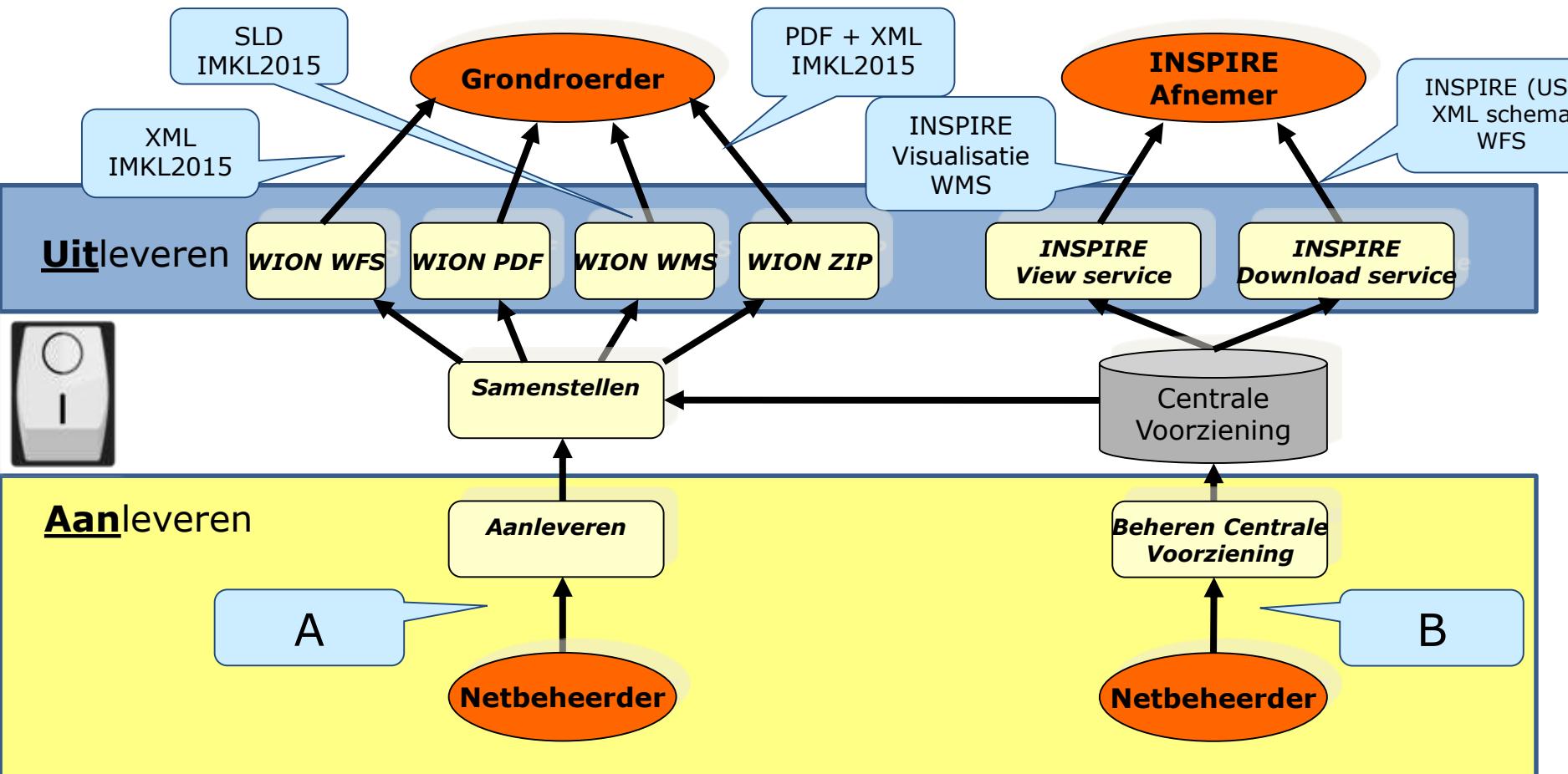


**Utility Networks**

IMKL uitwissel  
interface

**Data producten**

**Algemene Use Case: Synergie tussen  
processen**



# **De Uitdaging! Extensie op Inspire**

## **INSPIRE Utilities model als Basis**



## **Vier methoden om INSPIRE model uit te breiden**

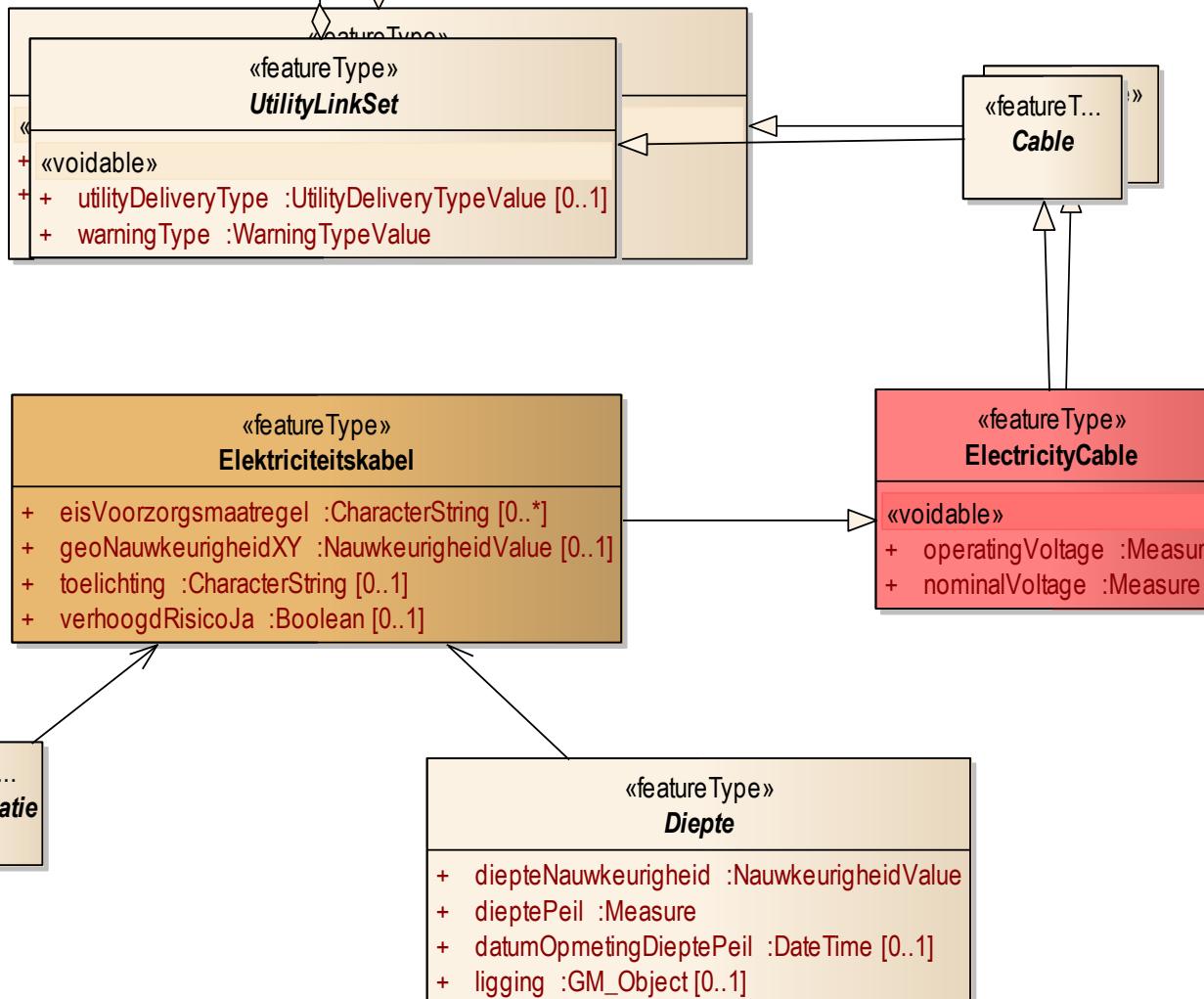
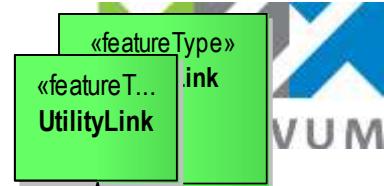
**Subtyperen van INSPIRE klassen**

**Associeren van extra NL informatie**

**ApplicationDomain Extension**

**Mixin – multiple inheritance**

# Subtyping

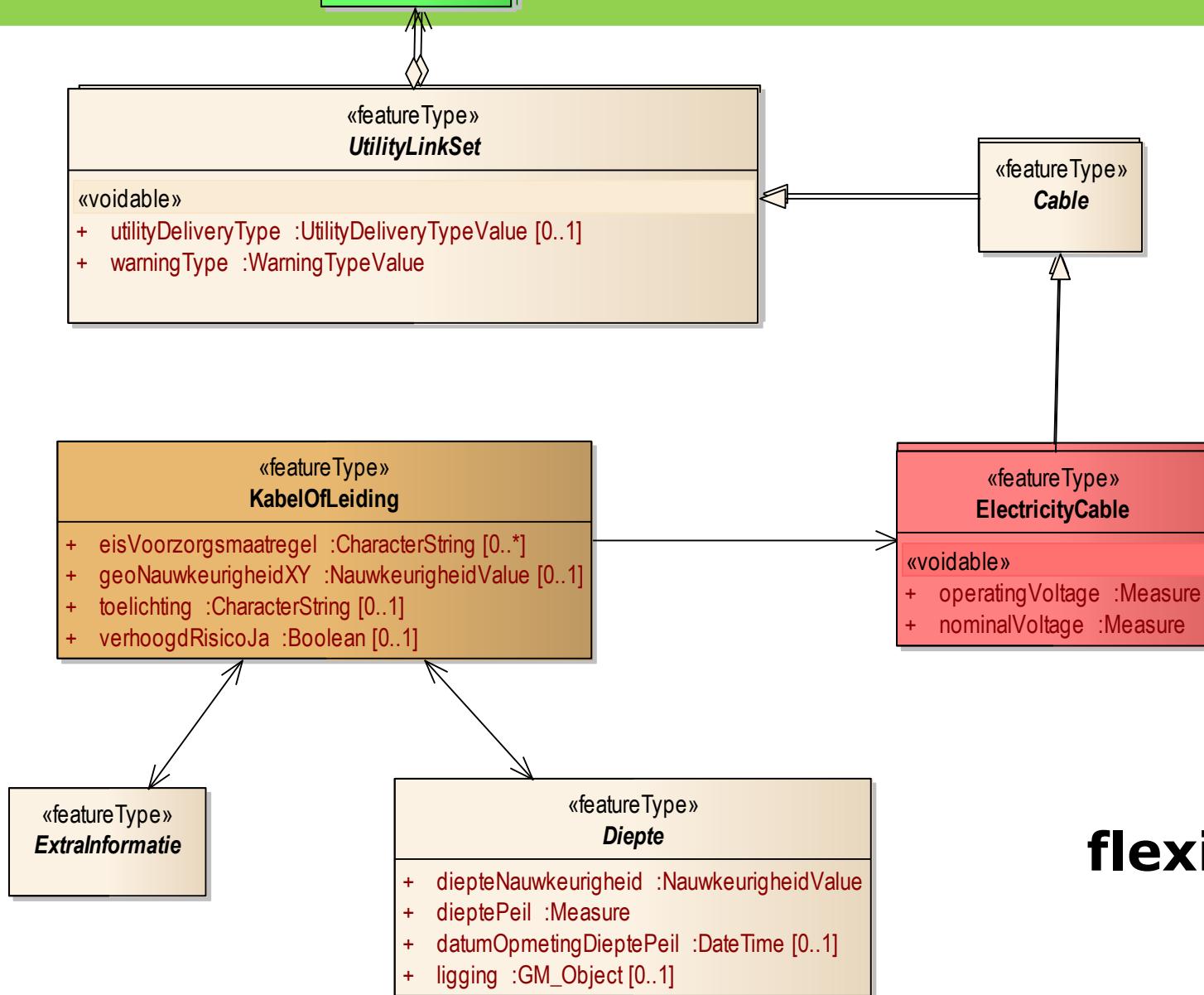


Star  
in INSPIRE  
keurslijf

# By association



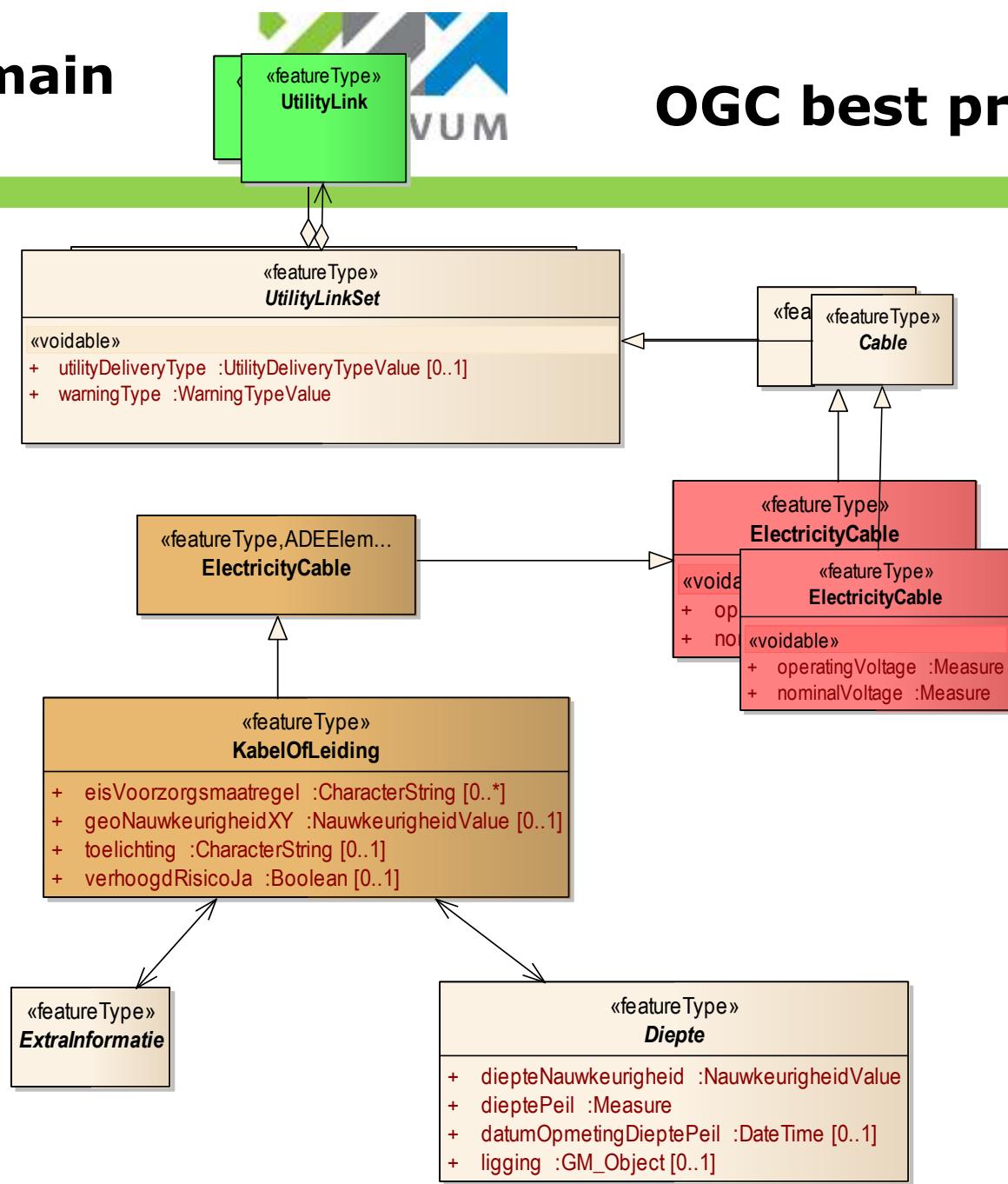
# Relateren van extra informatie



**flexibel**

# ApplicationDomain Extension

OGC best practice

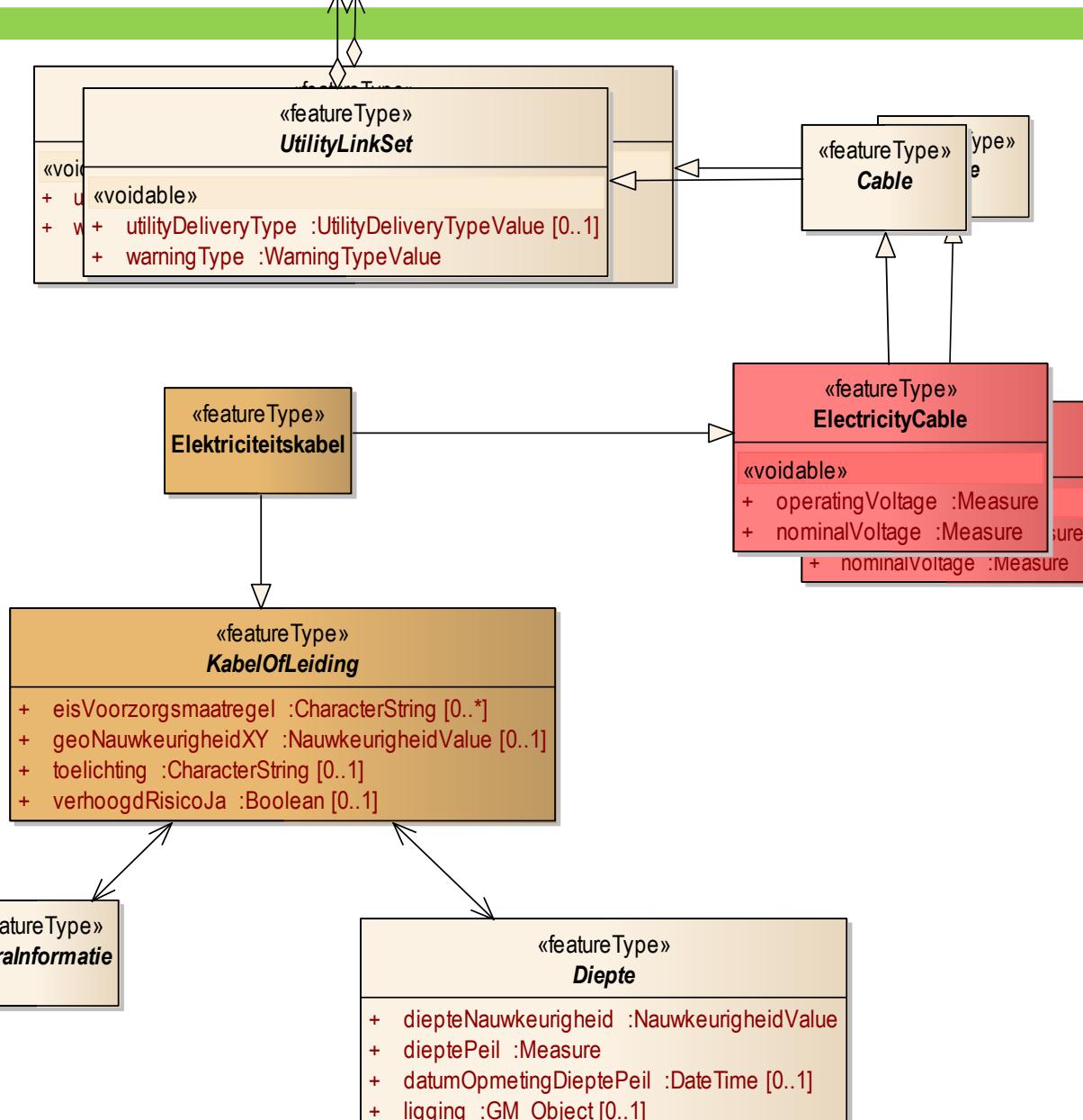


Taal  
beperkend

# Mixin – multiple inheritance



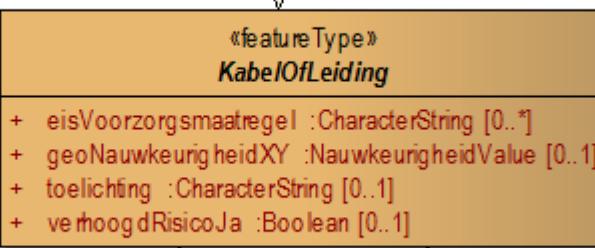
Combinatie van twee modellen:  
**INSPIRE view**  
**NL view**



**Mixin class**

**Flexibel  
En  
veelzijdig**

## Mixin class



↓

**Class : KabelOfLeiding**

**Properties**

- General
- Templates

**Rules**

- Requirements
- Constraints
- Scenarios

**Related**

- Files
- Links

**KabelOfLeiding**

-- Name --  
Leidingen, buizen of kabels bestemd voor voortgeleiding van energie, materie of data.

-- Definition --  
KabelOfLeiding is in dit model een abstract begrip en omvat alle typen van alle nettypen.  
Onder de objectklasse KabelOfLeiding vallen ook leidingen die buiten gebruik of vervallen zijn.  
Huisaansluitingen kunnen als object KabelOfLeiding opgenomen zijn (of in een aparte Huisaansluitingsschets).  
Optioneel is er via het associatie-attribuut extraGeometrie een buitenbegrenzing of contour van het object op te nemen. De netbeheerder bepaalt zelf wanneer dat functioneel is.

-- Source --  
IMKL

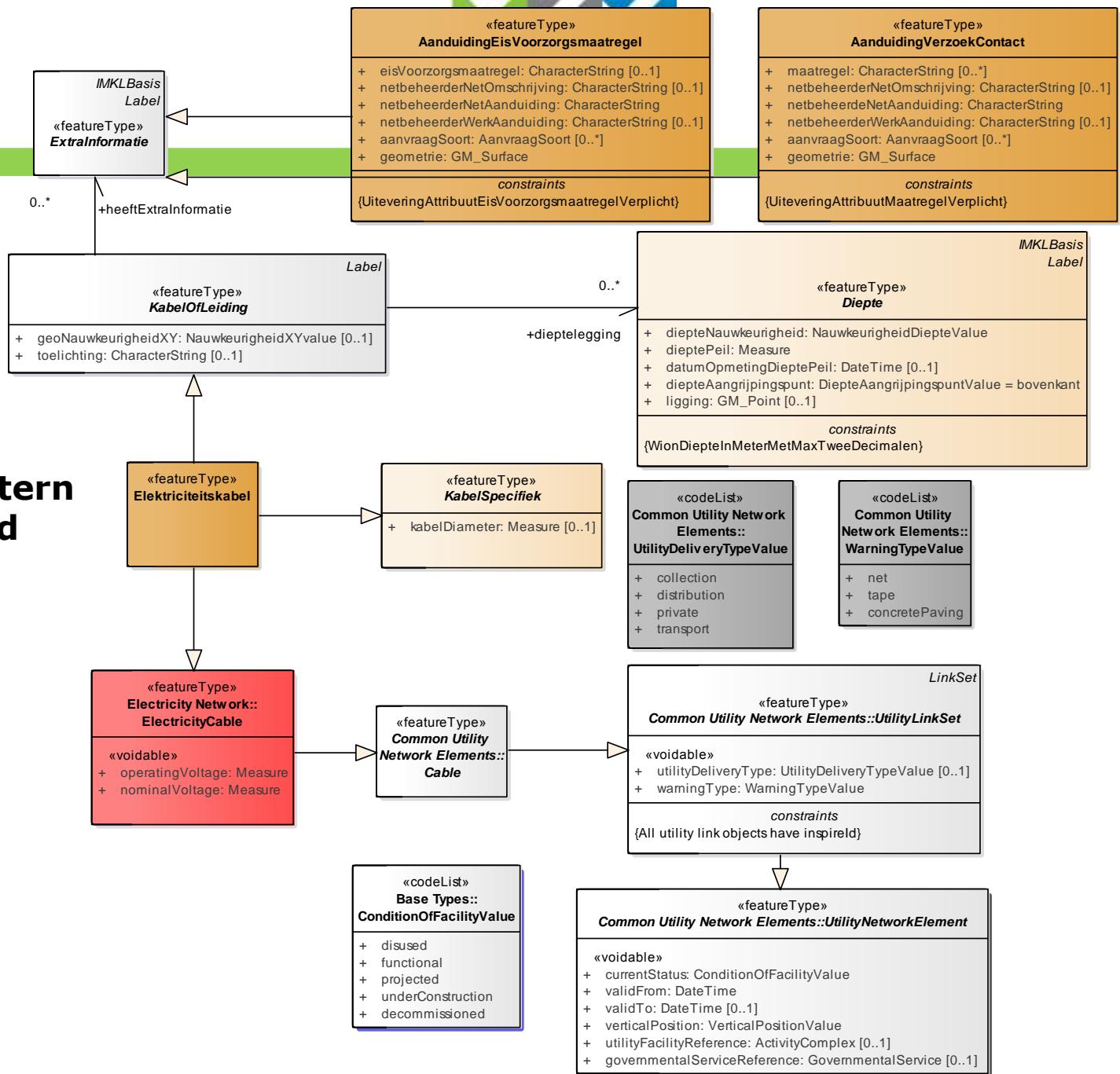
**UML Profile for INSPIRE data specification...**

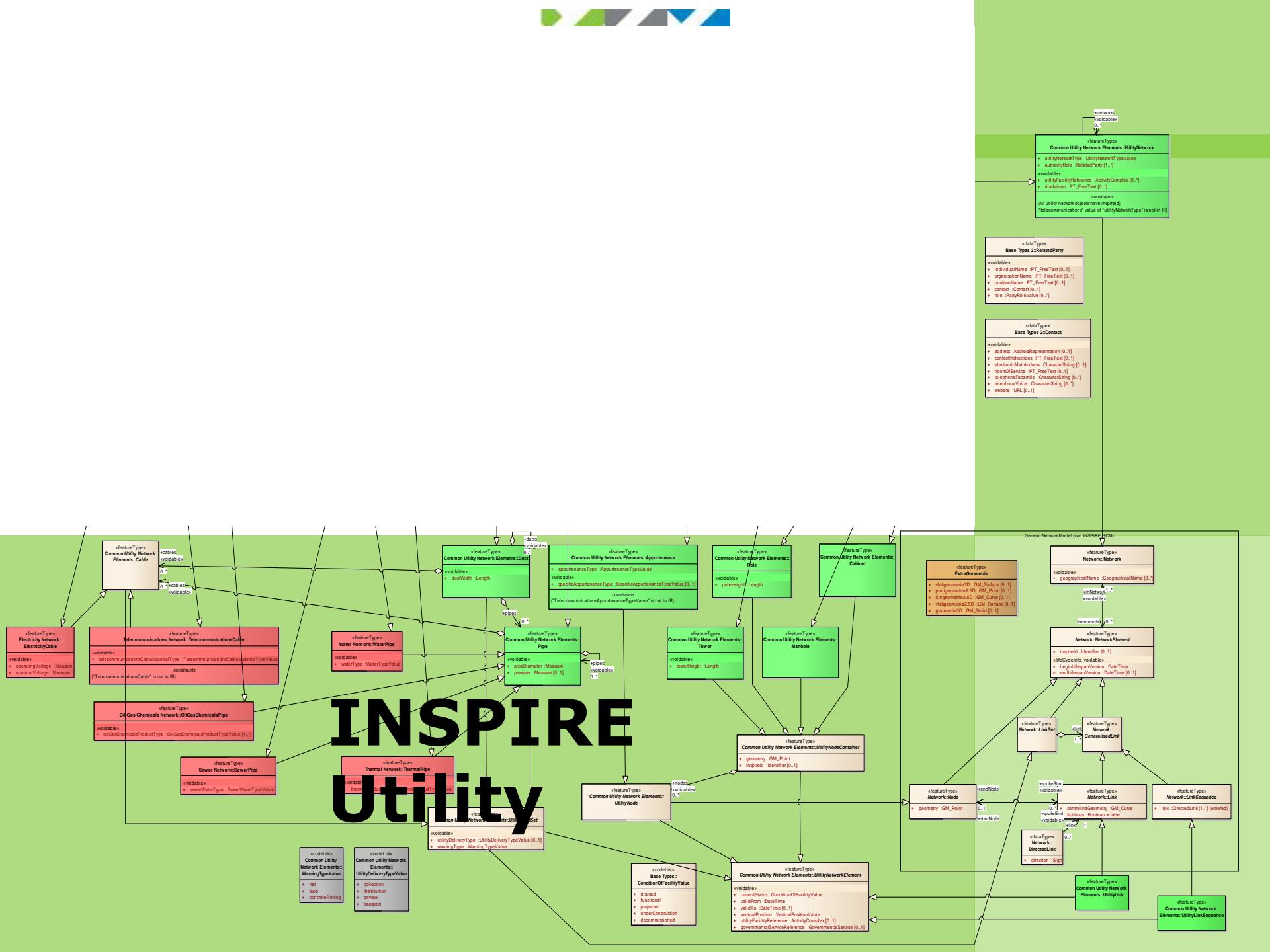
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gmlMixin	true
inspireConcept	FIXME
isCollection	false
no.PropertyType	false
xsdEncodingRule	iso19136_2007_INSPIRE_Ext...

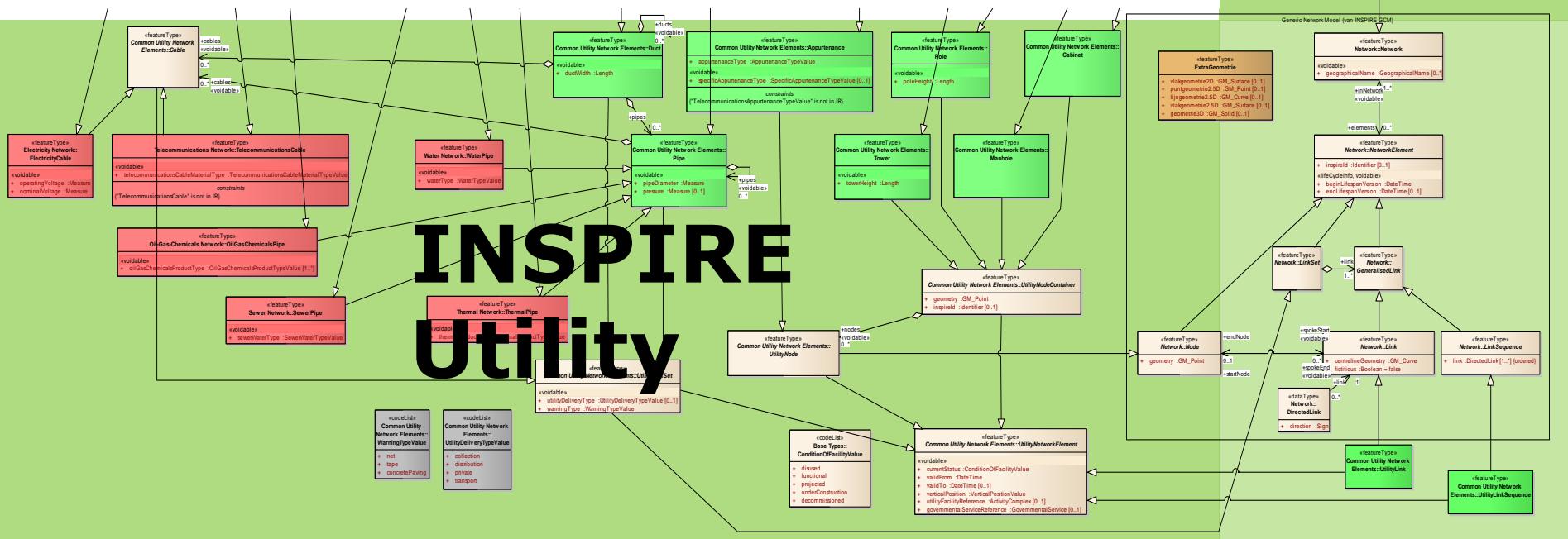
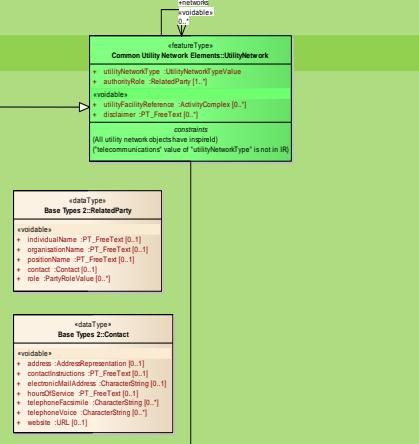
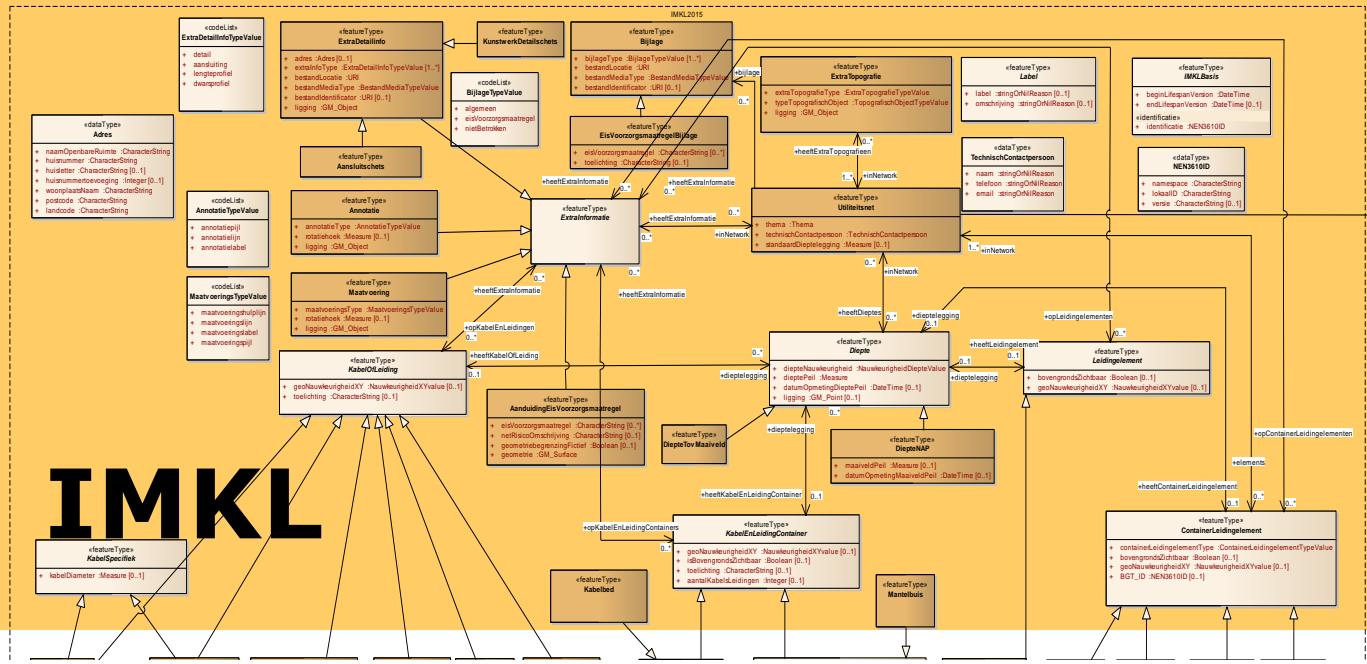
**from Label**

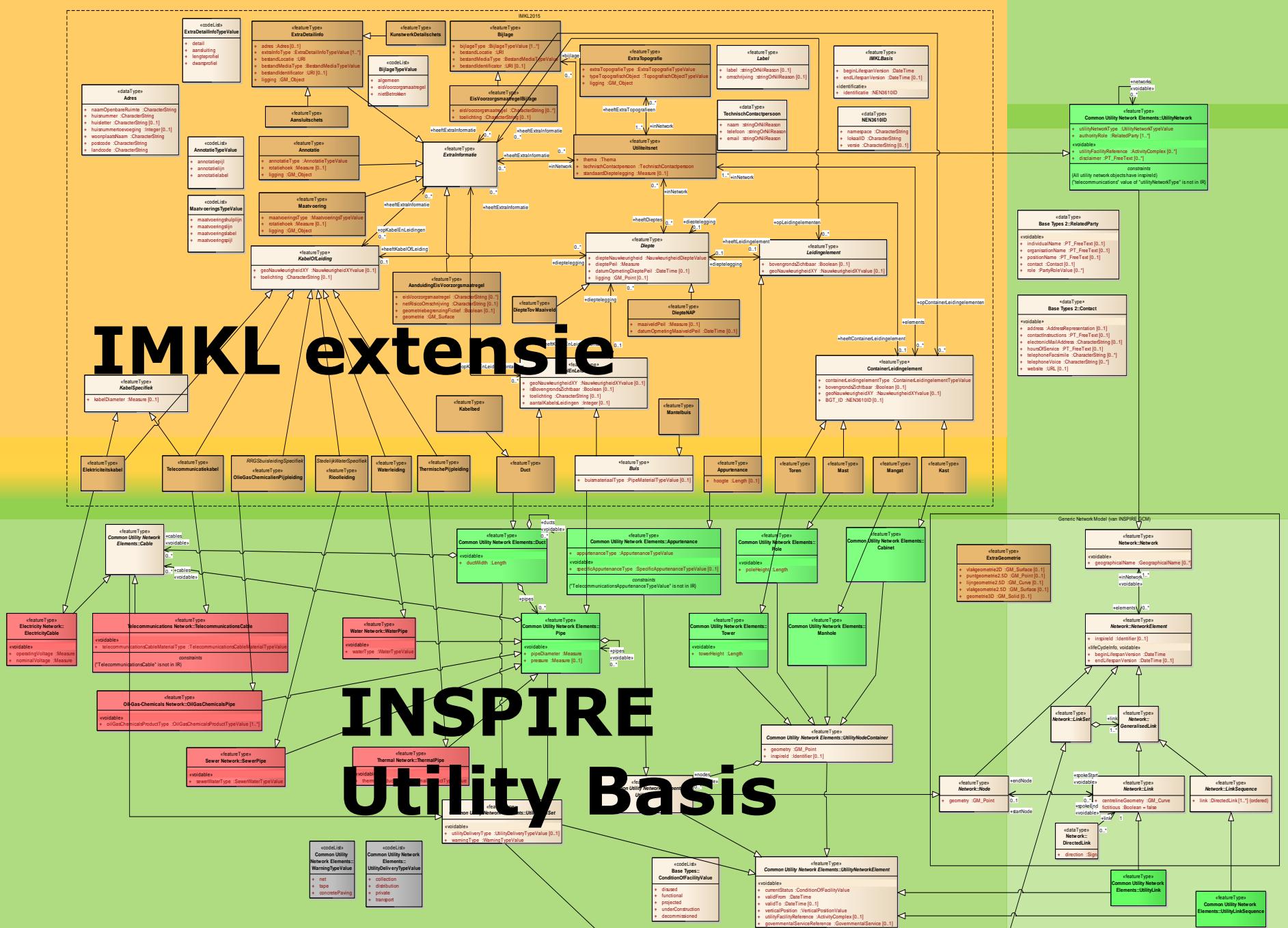
**UML Profile for INSPIRE data specification...**

OK Annuleren Toepassen Help





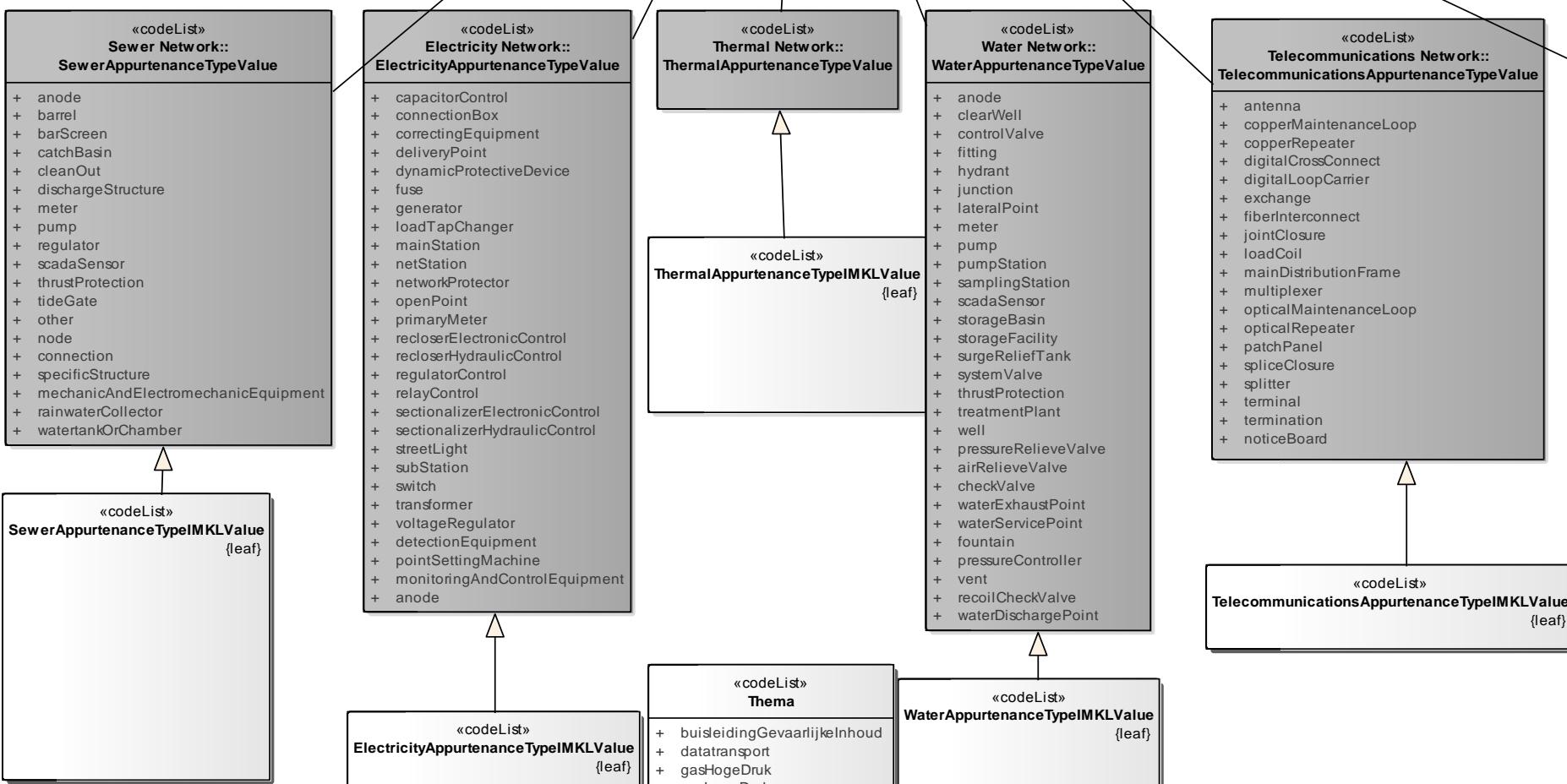




# Extensies op INSPIRE waardelijsten



«codeList»  
Common Utility Network Elements::  
SpecificAppurtenanceTypeValue



# Waardelijsten gepubliceerd in SKOS. Ontsloten via Registry



<http://definities.geostandaarden.nl/resource?subject=http%3A%2F%2Fdefinities.geostandaarden.nl%2Fid%2Fwaardelijsten>



Geonovum maakt geo-informatie van de overheid toegankelijk en zorgt voor de standaarden die daarvoor nodig zijn.



IMGEO NEN3610 IMRO IMBRT IMKL

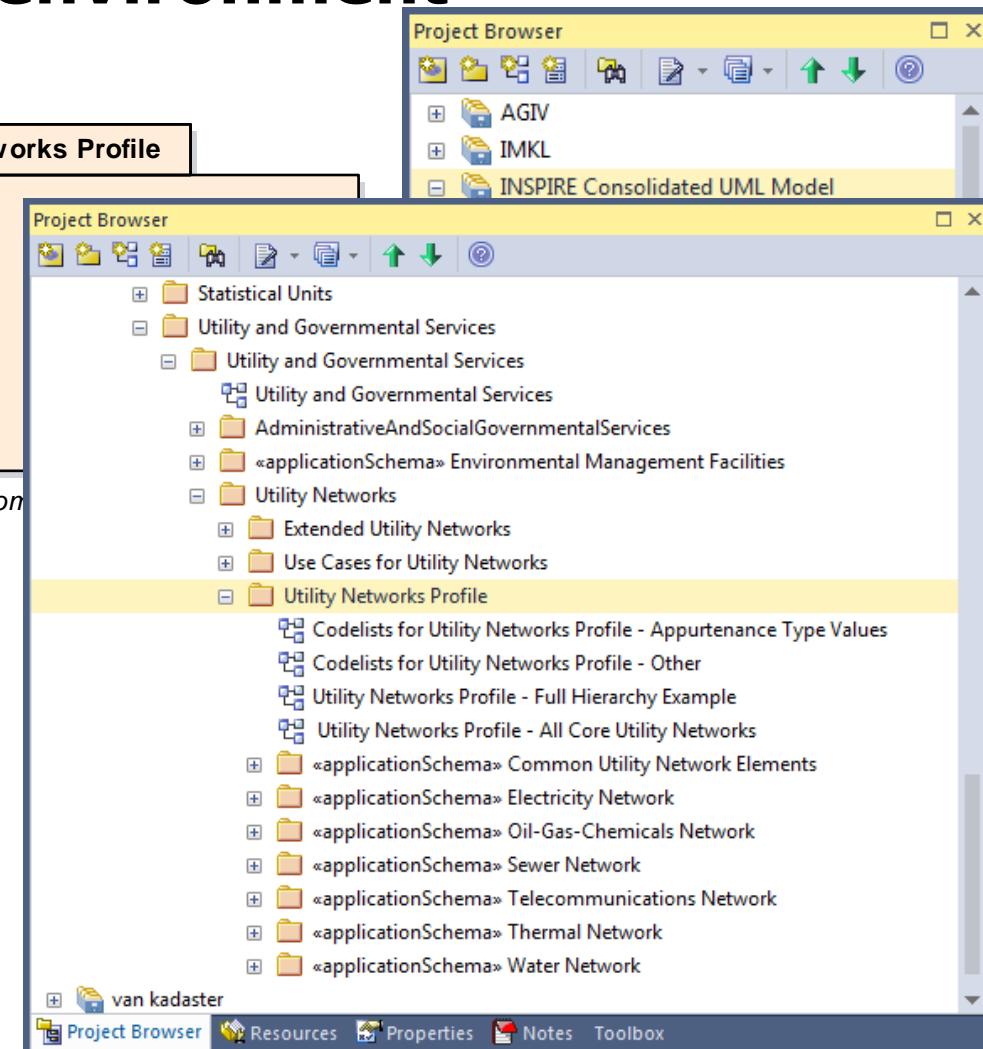
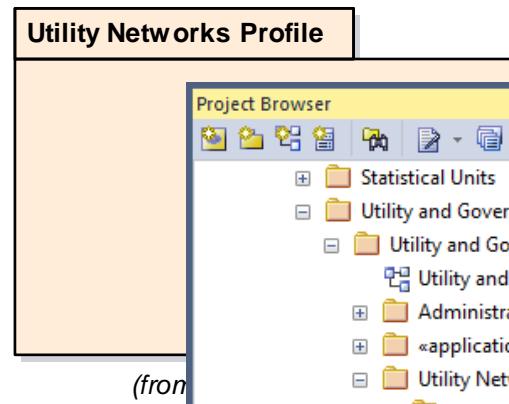
[a](#) | [b](#) | [c](#) | [d](#) | [e](#) | [f](#) | [g](#) | [h](#) | [i](#) | [j](#) | [k](#) | [l](#) | [m](#) | [n](#) | [o](#) | [p](#) | [q](#) | [r](#) | [s](#) | [t](#) | [u](#) | [v](#) | [w](#) | [x](#) | [y](#) | [z](#) | [alle lijsten](#)

## Nr Waardelijst

- 1 [Afvalwatertype](#)
- 2 [AnnotatieTypeValue](#)
- 3 [BestandMediaTypeValue](#)
- 4 [ElectricityAppurtenanceTypeIMKLValue](#)
- 5 [ExtraDetailInfoTypeValue](#)
- 6 [ExtraTopografieTypeValue](#)

# Modelling environment

«applicationSchema»  
IMKL2015

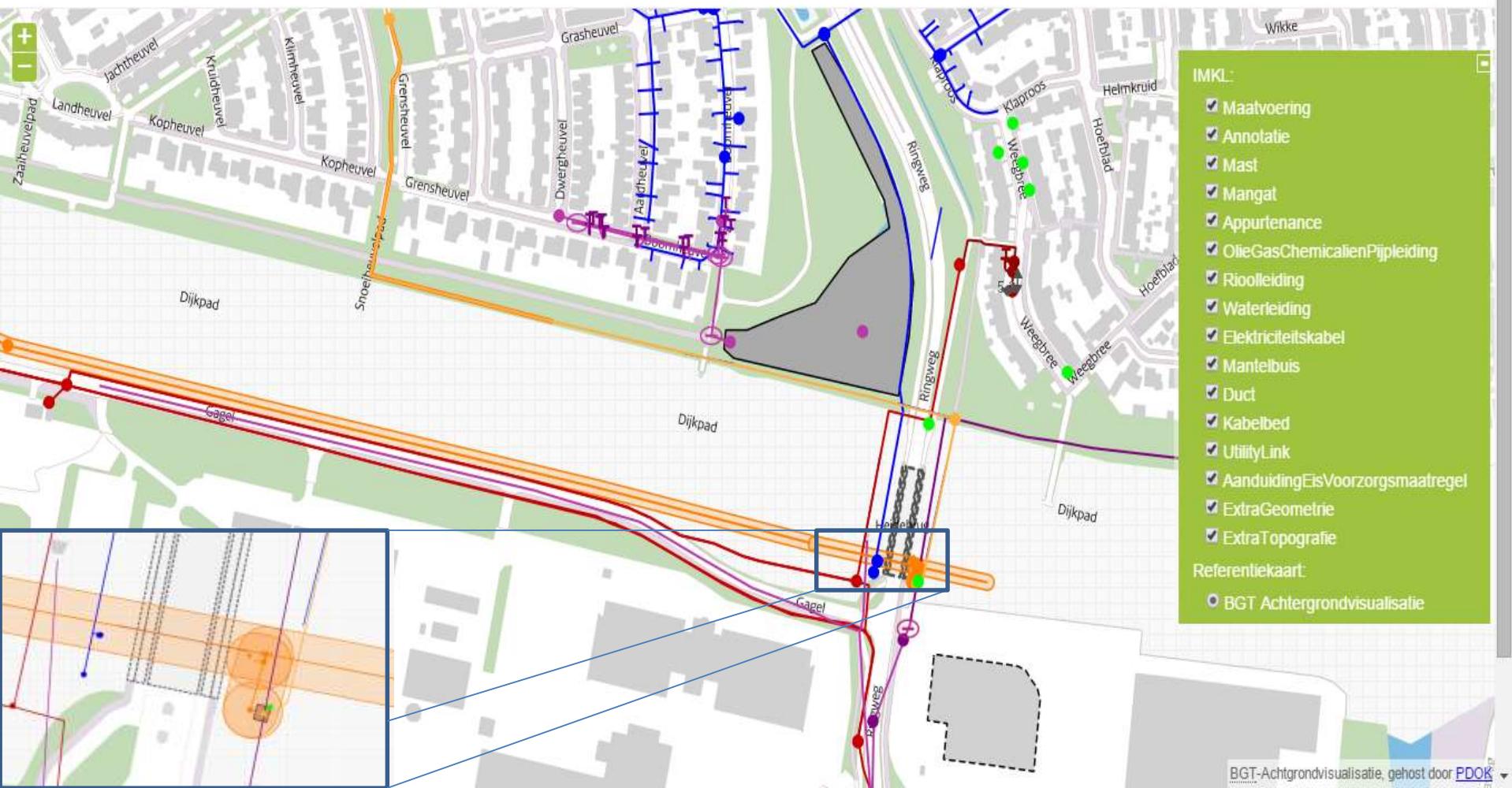


## No subversion to INSPIRE

IMKL Kabels en Leidingen x

www.webmapper.net/imkl/

## Visualisatie IMKL 2015



## **INSPIRE toepassen in NL werkprocessen:**

**Geen ballast maar basis**

