Vlaamse overheid

OSLO : IMKL

Business Workshop

Welcome!

Thursday 20 April 2023
VAC Ghent – Leo Baekeland

We start at 13:35

Goal

OSLO IMKL
introduction

OSLO
introduction

USE CASES
Brainstorming

Agenda

13u35 - 13u45	Introduction
13u45 - 13u50	Who is who?
13u50 - 14u00	Motivation and context
14u00 - 14u10	Introduction OSLO
14u20 - 14u35	Inspiration
14u35 - 14u50	Pause
14u50 - 16u00	Brainstorm session
16u00 - 16u15	Q&A and next steps

Who is who?

Vlaanderen
verbeelding werkt

Motivation and context

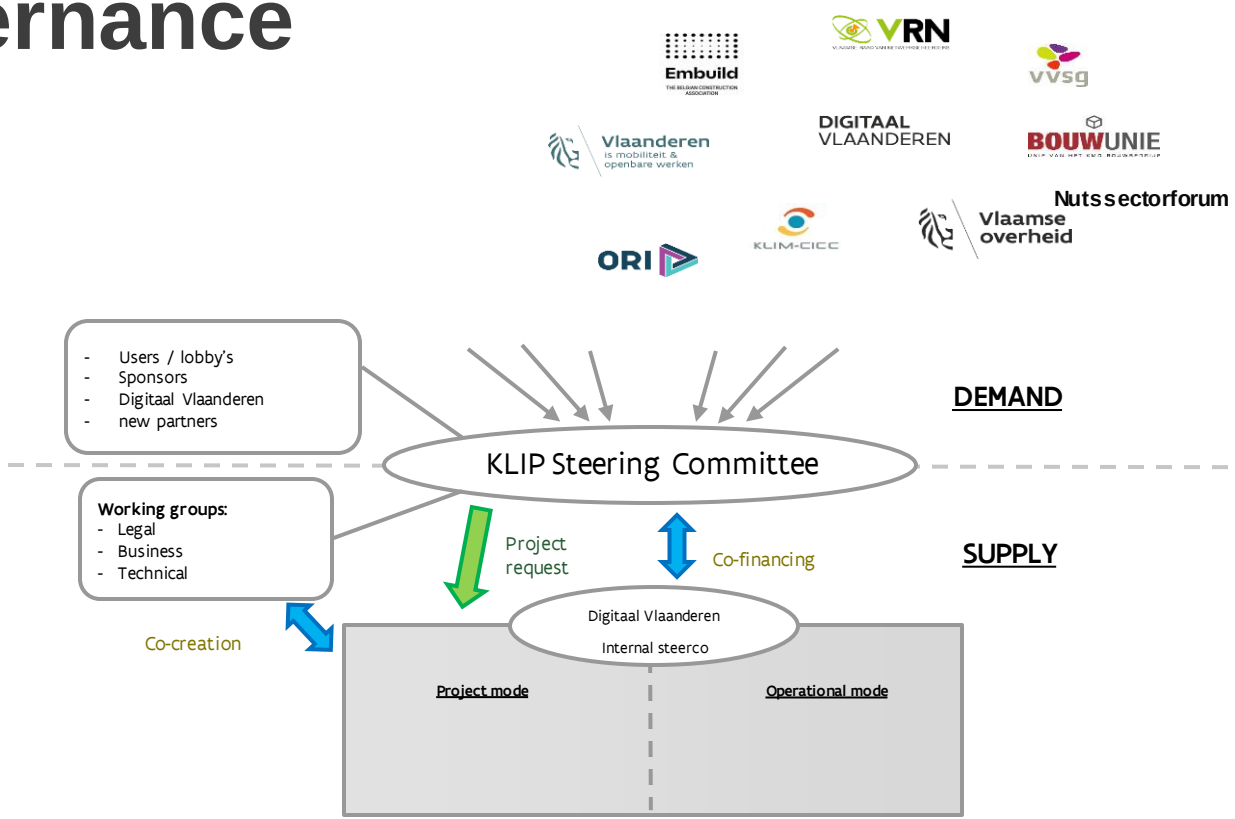
Vlaanderen
verbeelding werkt

It went terribly wrong

(Ghislenghien, 2004)

CONTEXT KLIP

Governance



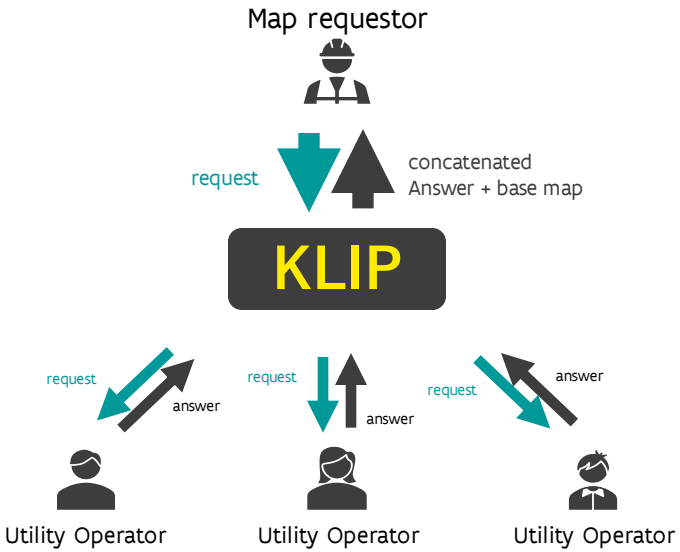
Use cases IMKL

- **Limit excavation damage** by exchanging data about underground cables and pipes
- Deliver piping data in a standardized form to be able to **display** this **info on 1 map**
- Collect piping data in a standardized form to process these data in **preliminary studies**
- Better **policy preparation** en better support to prevent issues with underground cables and pipes by improving **coordination between policy/big projects and pipe infrastructure**.

CONTEXT KLIP

KLIP Digitaal

2016 - today



CONTEXT KLIP

IMKL

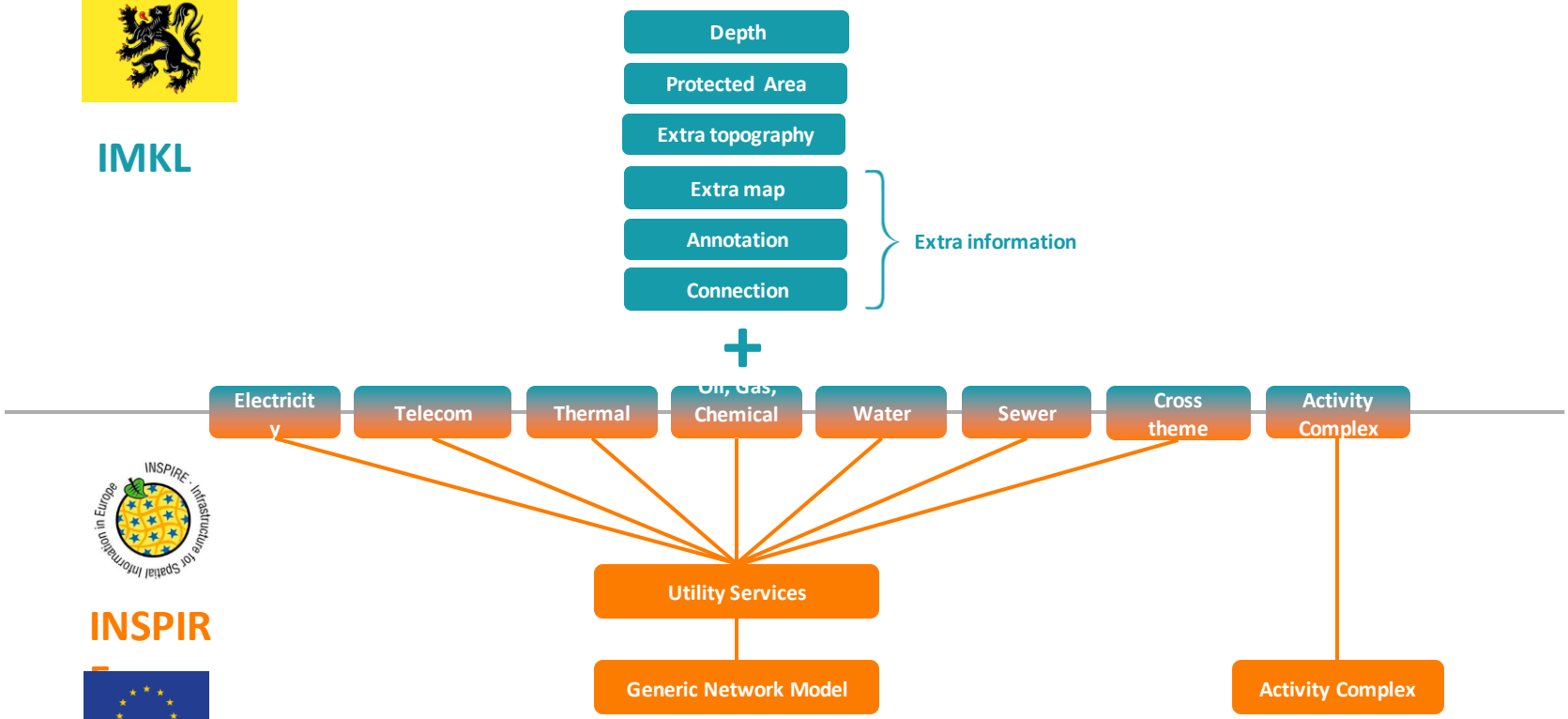
- Informatiemodel Kabels- en Leidingen (Information Model Cables and Pipes)
- Developed for ‘KLIP Digital’ in 2016
- Datamodel based on European standard: Inspire Utility Theme (INSIPIRE US 3.0)
  - Extra addition: classifications, attributes en relations

CONTEXTSCHETS KLIP

IMKL Model

IMKL

INSPIR



KLIP VISION 2025

IMKL-update: why?

- Current version (IMKL 2.3) in production since 24/08/2017

- Since 2017
  - Not yet implemented breaking changes in INSPIRE Data Specifications for Utility Services
  - Flemish Government commits to Open Standards for Linking Organisations (OSLO)
  - A.o. for infrastructure (for example the OTL specifications of the Agency Roads and Traffic)
  - OGC-standard in development: “Model for Underground Data Definition and Integration (MUDDI)”

- New use cases detected
  - Policy preperation
  - Large infrastructure projects

- The current data model
  - Only XY-coordinates allowed (2D)
  - Only Lambert1972-coordinate system allowed
  - Mix of Dutch and English terminology
  - Maybe too complex

KLIP VISIE 2025

IMKL-update

2023

- Analysis datamodel

30/09/23

2024

Implementation new validationrules

30/06/24

Working together with OSLO-team (Digitaal Vlaanderen)

Renewed IMKL becomes a Flemish OSLO-data standard

NATIONAL CONTEXT

IMKL goes National

Goal: to make the Flemish data standard a national data standard

Fase 1

Include national stakeholders with the update of the current **datamodel** (Flemish OSLO-datastandard)

Fase 2

Make a national **standard based on** the Flemish OSLO-datastandard

Working together via ICEG
Announce: 8/3/2023

NATIONAL CONTEXT

History

2015

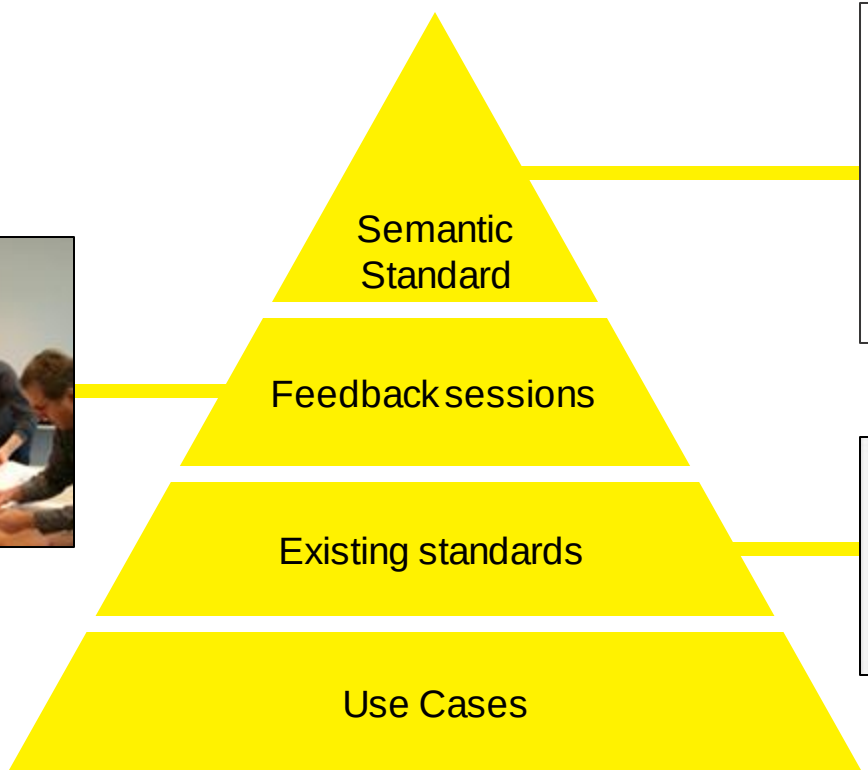
Open Standards for Linking Organisations (OSLO)

INTEROPERABILITY

=

The possibility of different autonomous organizations and systems to communicate and work together

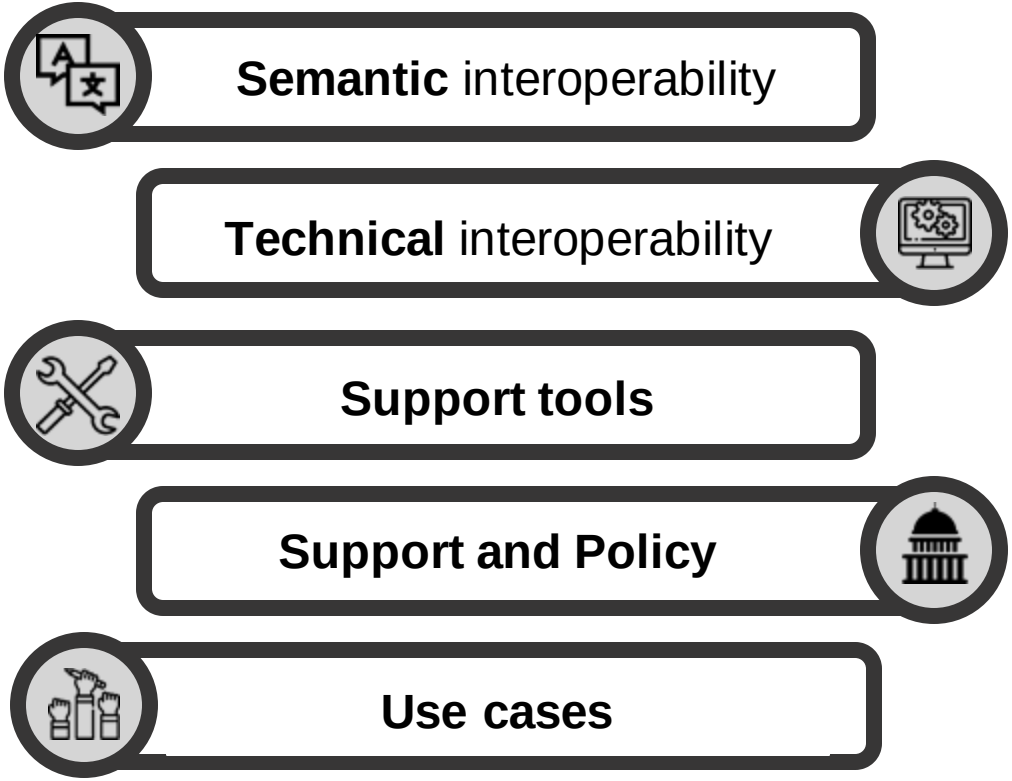
Bottom-up


Semantic Standard
Feedback sessions
Existing standards
Use Cases


data.vlaanderen.be
https://data.vlaanderen.be/ns/persoon


International Standards
EU ISA CORE Vocabularies
OSLO Extention
e.g. INSPIRE
EU - ISA'
Federal Government
Regional Government
Local Government
Industry
Academia

OSLO


Semantic interoperability
Technical interoperability
Support tools
Support and Policy
Use cases

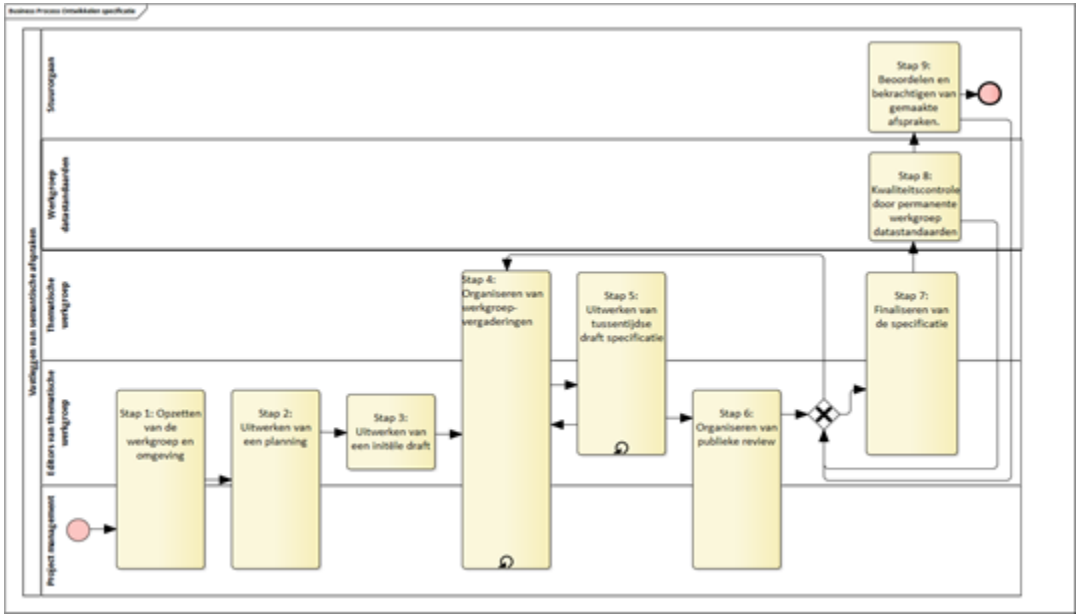
Process and methodology

Scalable process for joining, developing, changing and phasing out data standards. Discover the document with Process and Methods here.

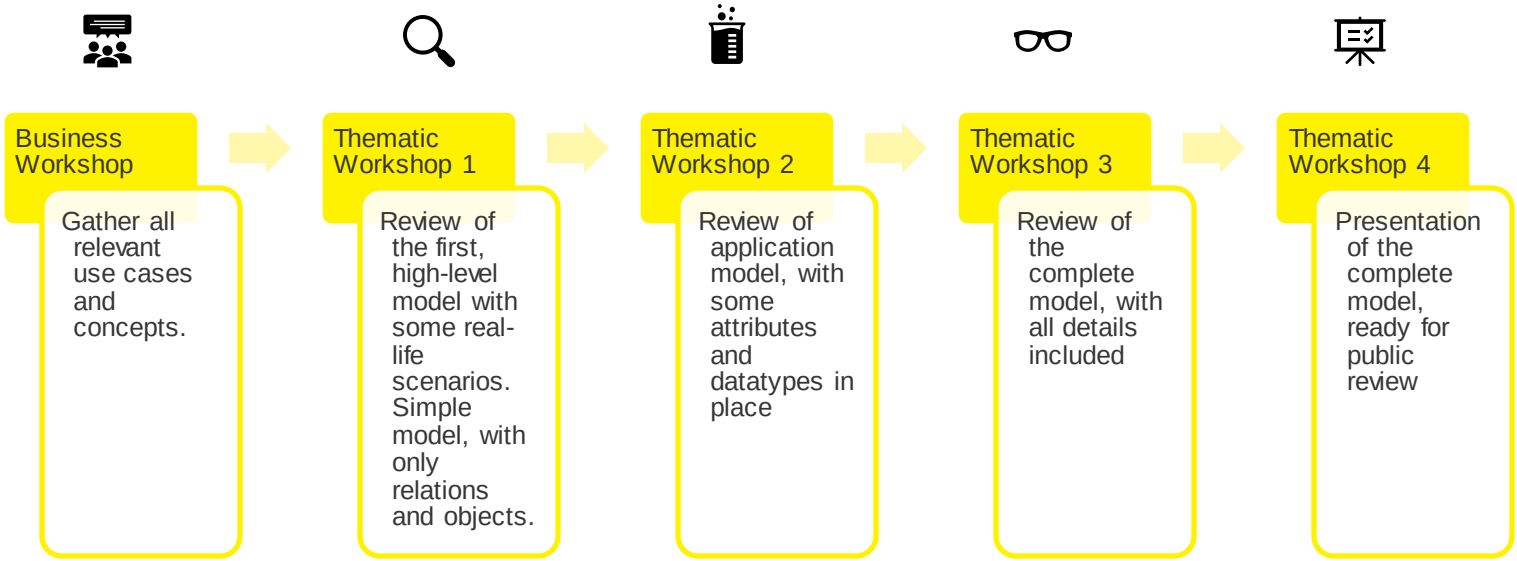
Context of the workshops

Workshops should be put into the context of a broader process

- Goal: Consensus around the data standard by several stakeholders
- Process and methodology for developing a data standard
- Obtaining content-related data



Iteration of workshops



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Note: This is just a guideline, we can certainly deviate from this

OSLO STANDAARDENREGISTER

Dit standaardenregister geeft een overzicht van alle lopende en afgewerkte trajecten die deel uitmaken van het initiatief Open Standaarden voor Linkende Organisaties (OSLO) van de Vlaamse overheid.

131
Erkende standaarden

33
Kandidaat standaarden

26
Standaarden in ontwikkeling

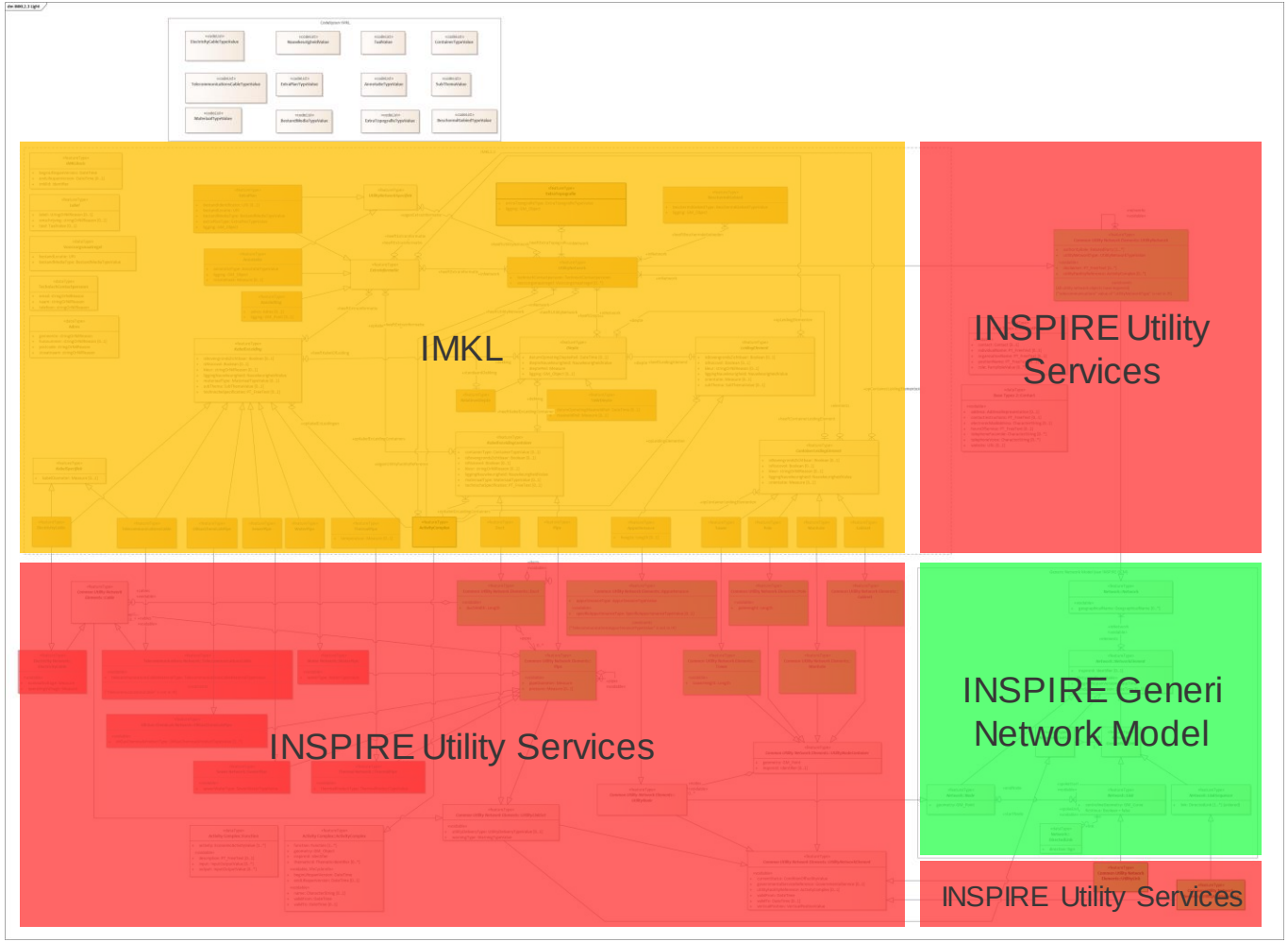
472
mensen hielpen mee

210
organisaties waren vertegenwoordigd

Inspiration

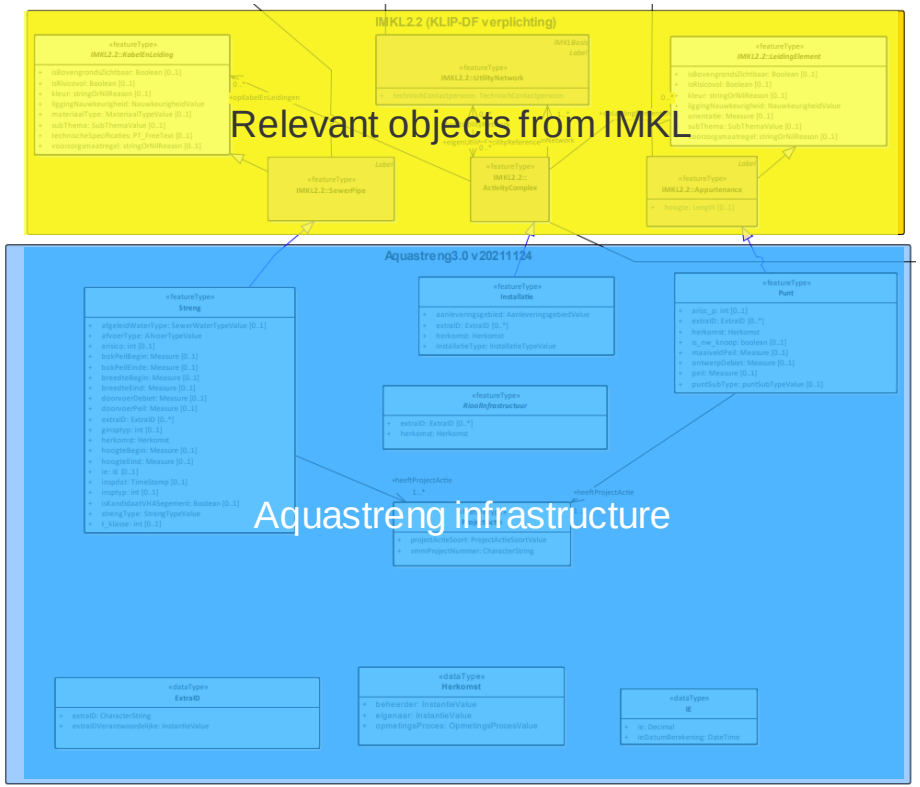
Vlaanderen
verbeelding werkt

IMKL 2.3

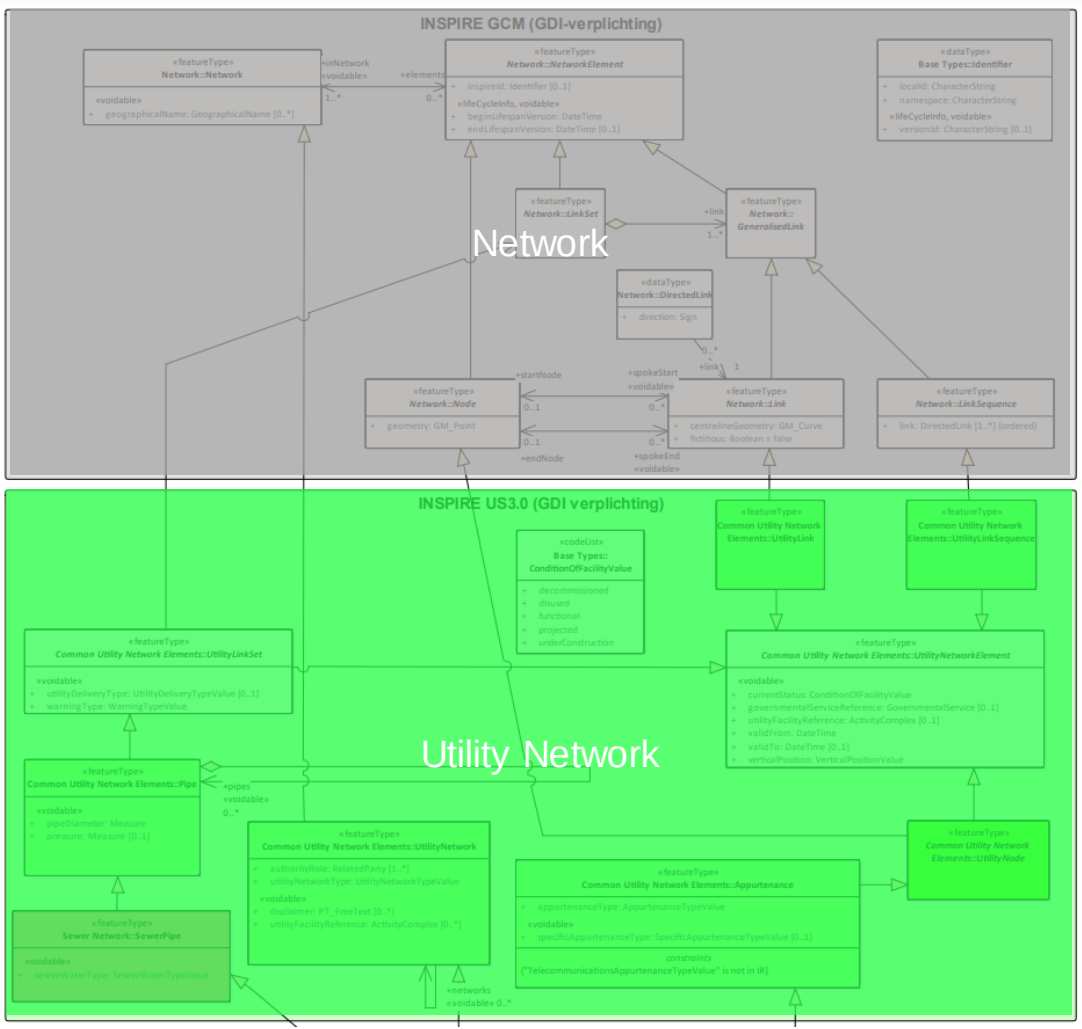


Vlaanderen
verbeelding werkt

AWIS-model of the Flemish Environmental Department



INSPIRE: US



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Other inspiring models

- OGC Model for Underground Data Definition and Integration
- OSLO Openbaar domein
- OSLO Wegen en Verkeer

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Pause

Brainstorm

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What is the subject of the IMKL project?

The goal is to create a data model for cables and pipes on the federal level:

- Start off with the original Flemish IMKL model
- Discuss it in multiple thematic workgroups with various stakeholders
- Improve and update the model
- Adapt it to a federal standard
- Replace the original IMKL model

What is expected?

Information needs and collect use cases

Identify high-level concepts

Existing standards or data models

1. Which use cases can we come up with?

What do you want to be able to achieve as a stakeholder?

1.2 Example use case

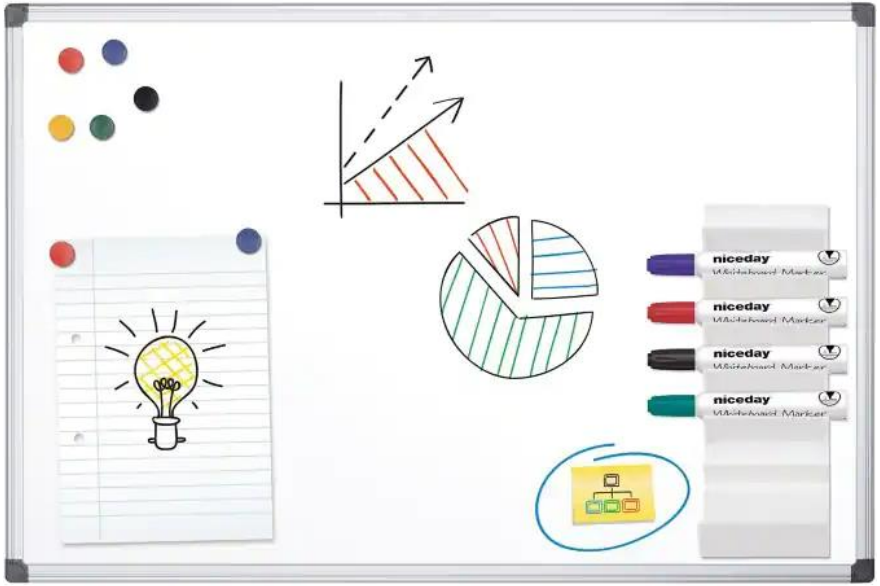
As a user, I want the pipe data delivered in a standardized form to be able to display this information on a map.

As a researcher, I want to be able to get pipeline data in a standardized form for processing in studies (e.g., BIM models, impact studies, environmental studies, etc.) and site plans.

As a building company, I want more support to prevent problems with underground cables and pipes through better coordination between major projects and the pipe infrastructure in place.

As a government agent, I want to limit excavation damage by exchanging information about underground cables and pipes

Use case exercise

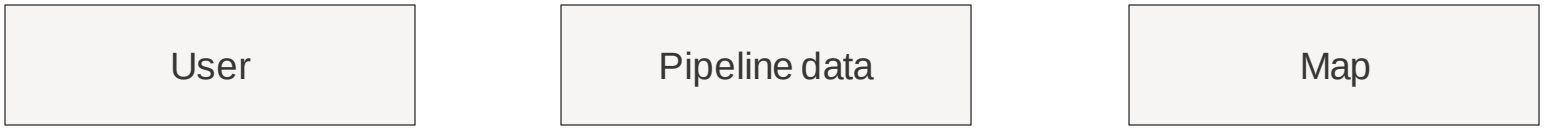


2. What concepts are required?

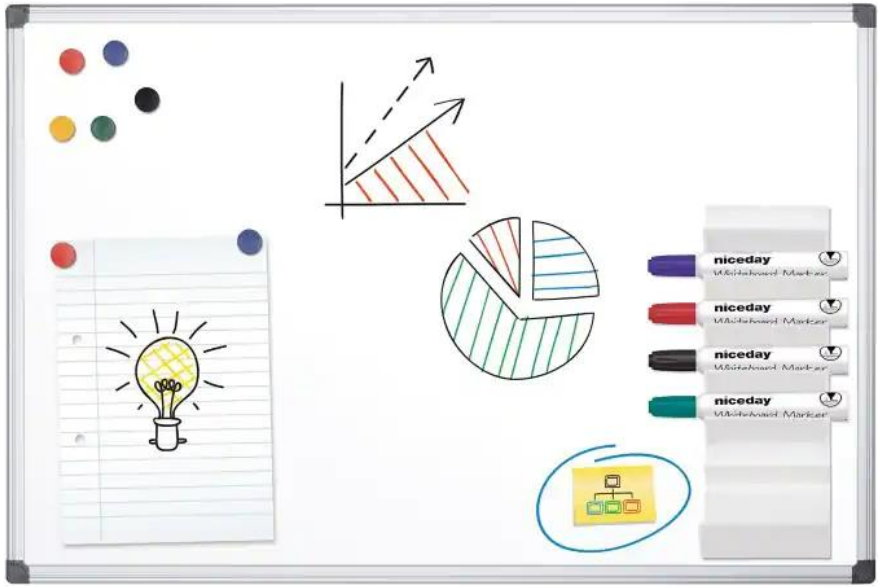
What main elements make up the use cases and can accomplish them?

2.1 Example concept

As a user, I want the pipeline data delivered in a standardized form to be able to display this information on a map.



Concept exercise



Q&A and Next Steps

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Why do we…?

Shouldn't we add …?

Can't we …?

What is …?

Next steps

Process the input from the brainstorming exercise.

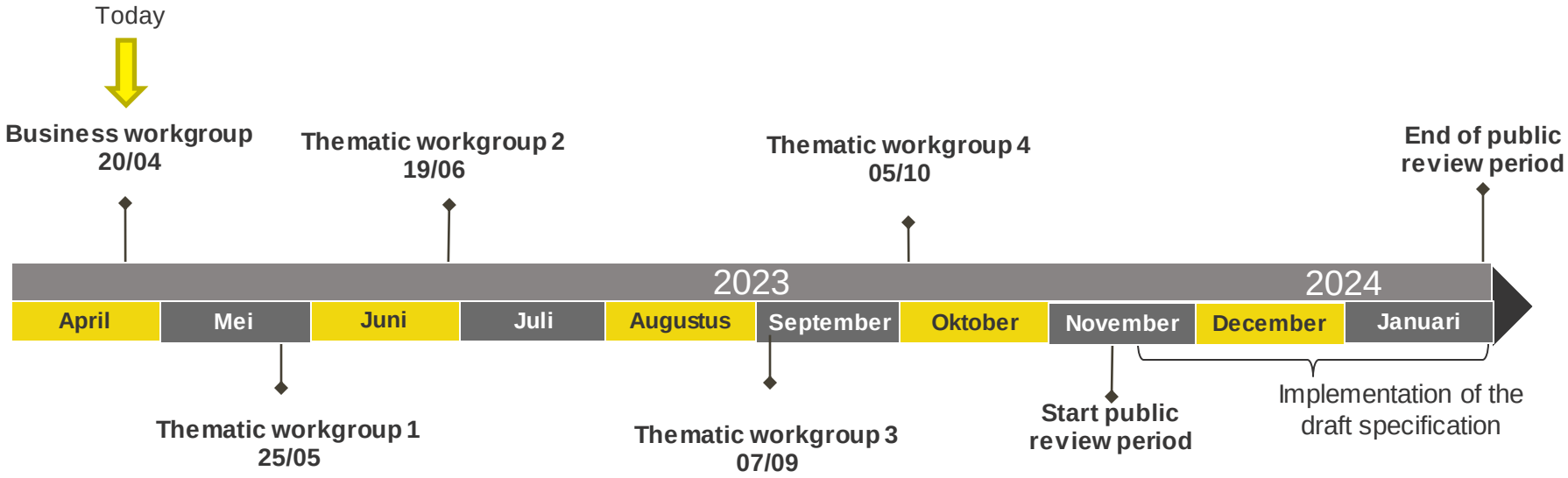
Circulate a report from this working group. Feedback is certainly welcome!

Further research and preparation of the first thematic working group.

Gathering information through GitHub!

OSLO timeline

Thematic workgroup 1 on **Thursday 25th May: 13u30 - 16u30**
Register via the following link: [1st thematic workgroup]



Feedback & Cooperation OSLO

Feedback can be given by e-mail to the following people:

- digitaal.vlaanderen@vlaanderen.be
- Pieter.desmijter@vlaanderen.be
- Laurens.vercauteren@vlaanderen.be

Feedback/input can be given via GitHub:
https://github.com/Informatievlaanderen/OSLOthema-imkl

Through the creation of **issues**

Thank you!

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