

OSLO Mobility

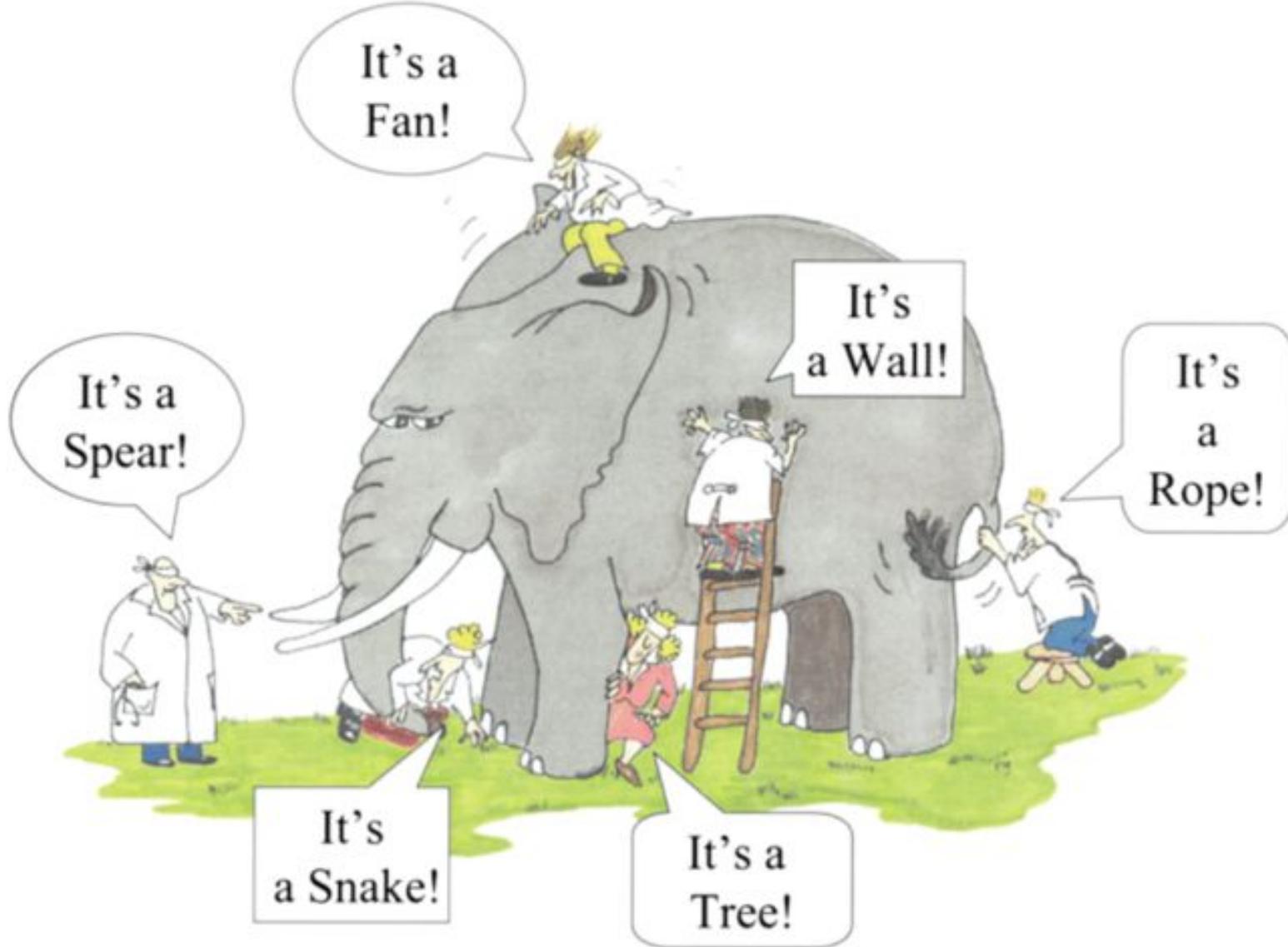
Open data standard

Dimitri Schepers
28th October 2020





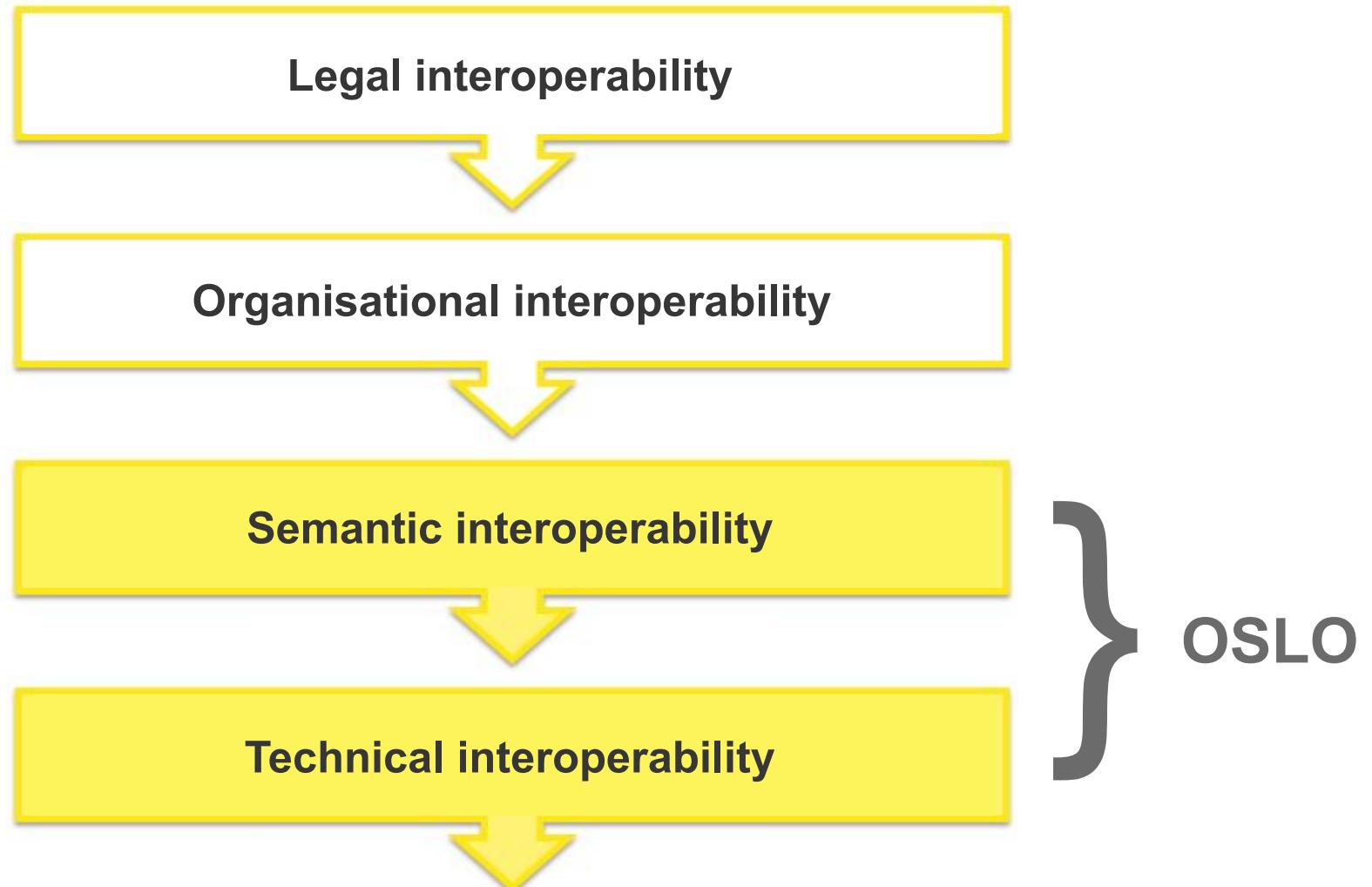
Open Standards for Linked Organisations



A photograph showing several hands from different people holding large, interlocking puzzle pieces. The pieces are shaped like clouds and are colored yellow, red, blue, and green. They are being held over a wooden table, suggesting teamwork and collaboration.

Interoperability is the ability of
different autonomous systems organizations
to communicate and collaborate with each other.

Levels of interoperability



OSLO



Semantic interoperability



Technical interoperability



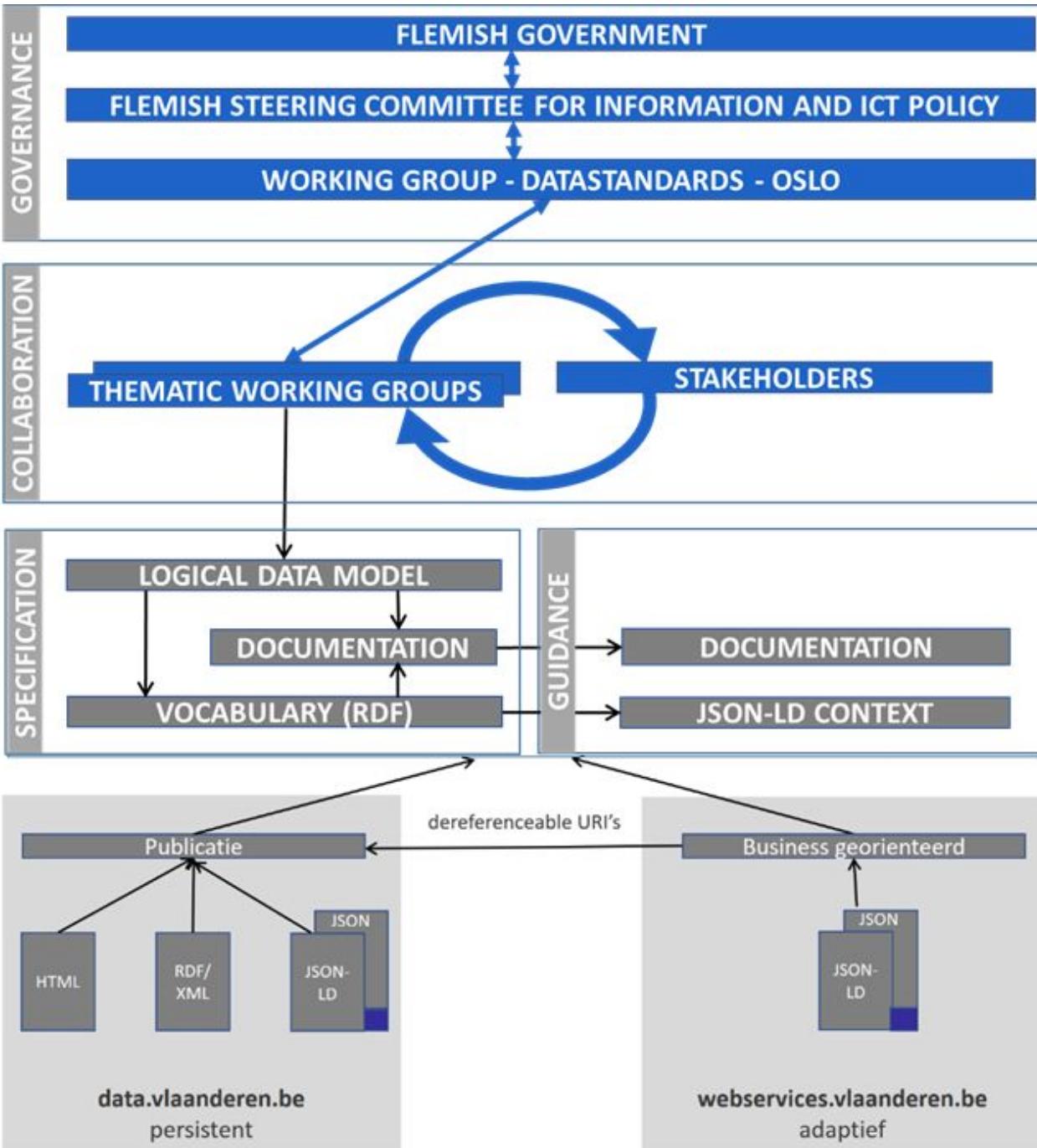
Tools



Support & governance

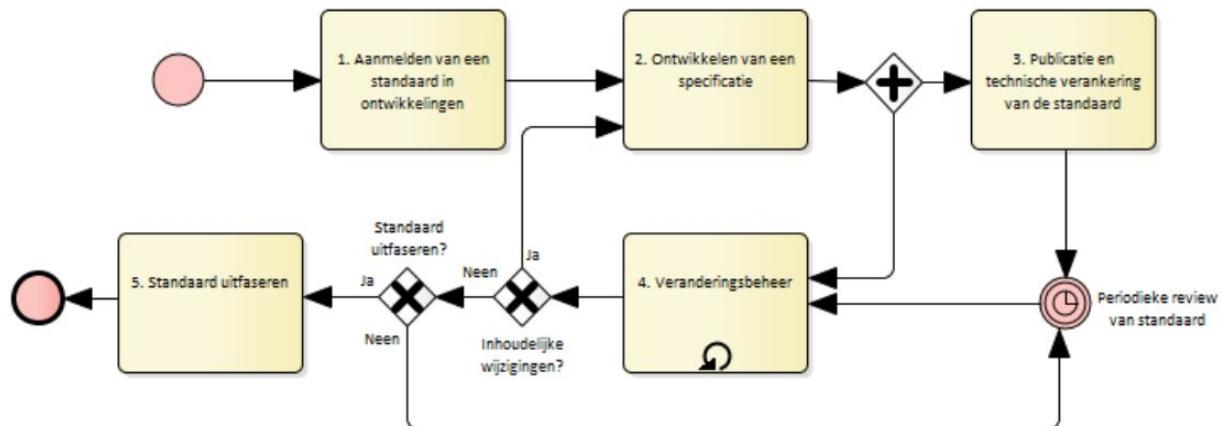


Use cases

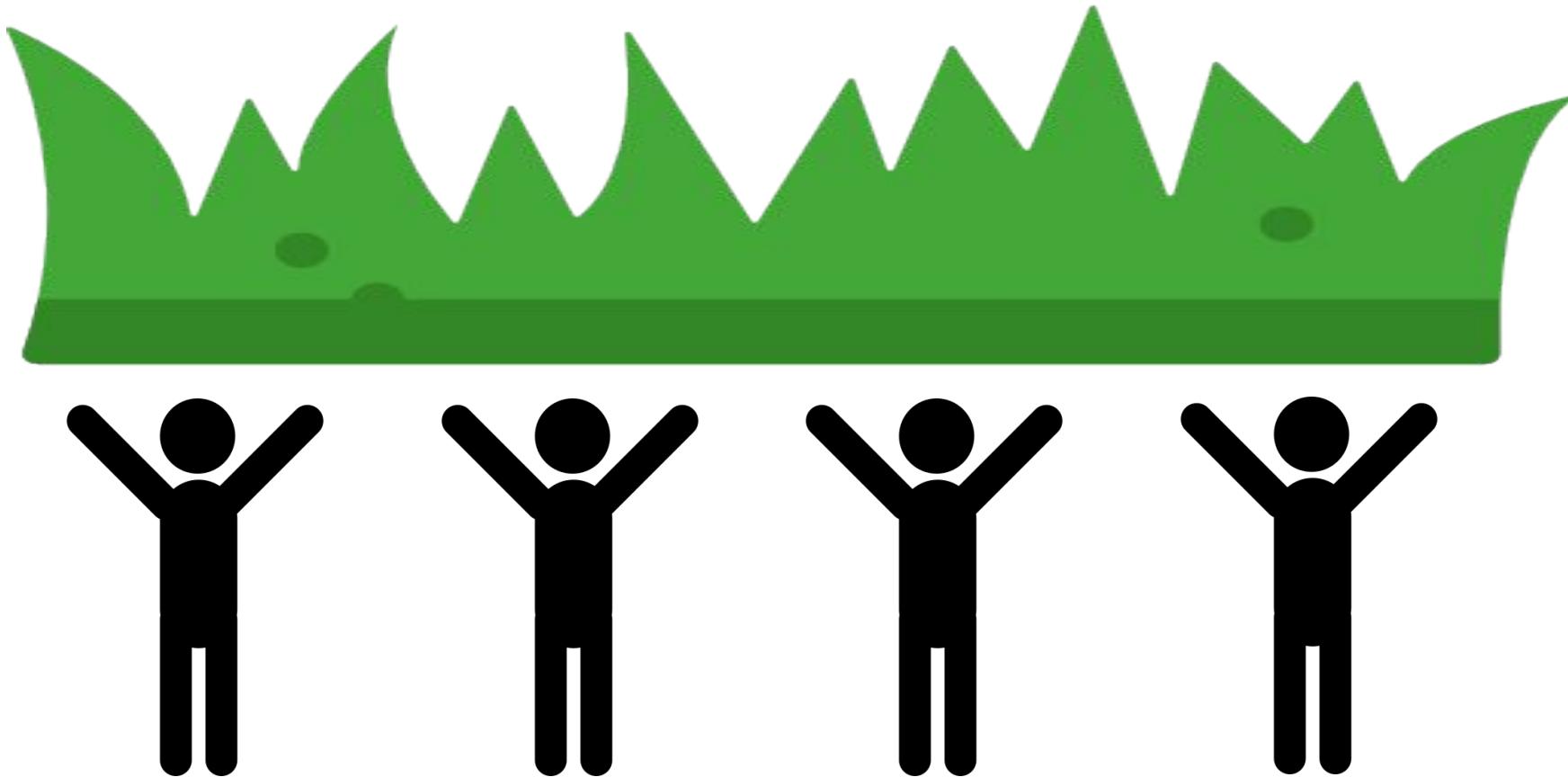


Proces and method

Scalable process for registering, developing, modifying and phasing out data standards.



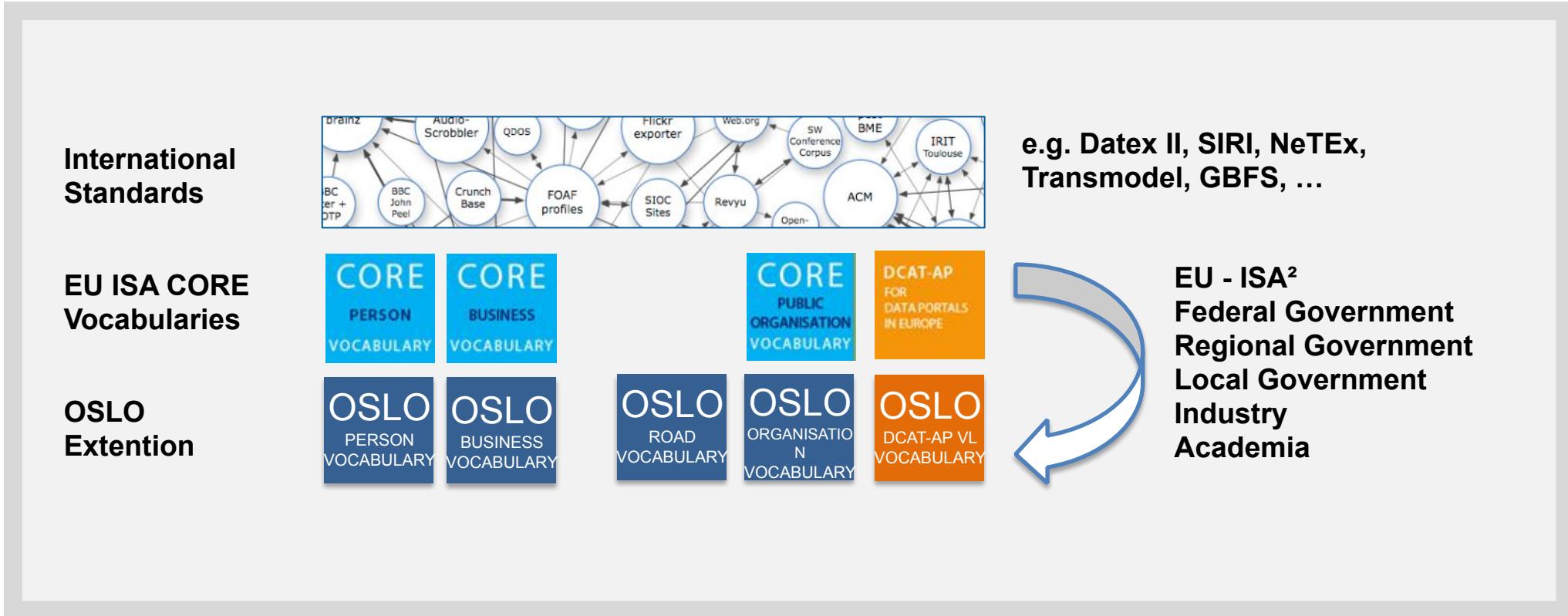
Bottom-up development



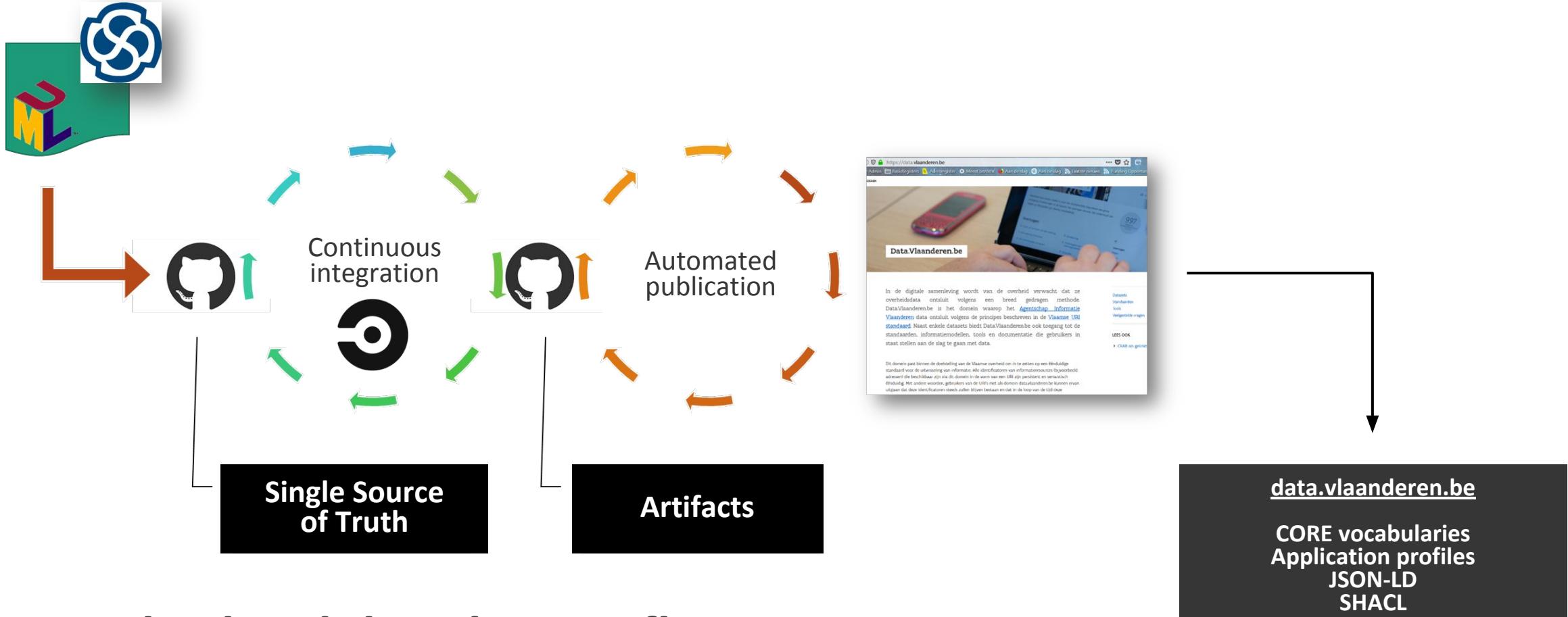
Thematic working groups



Share and re-use

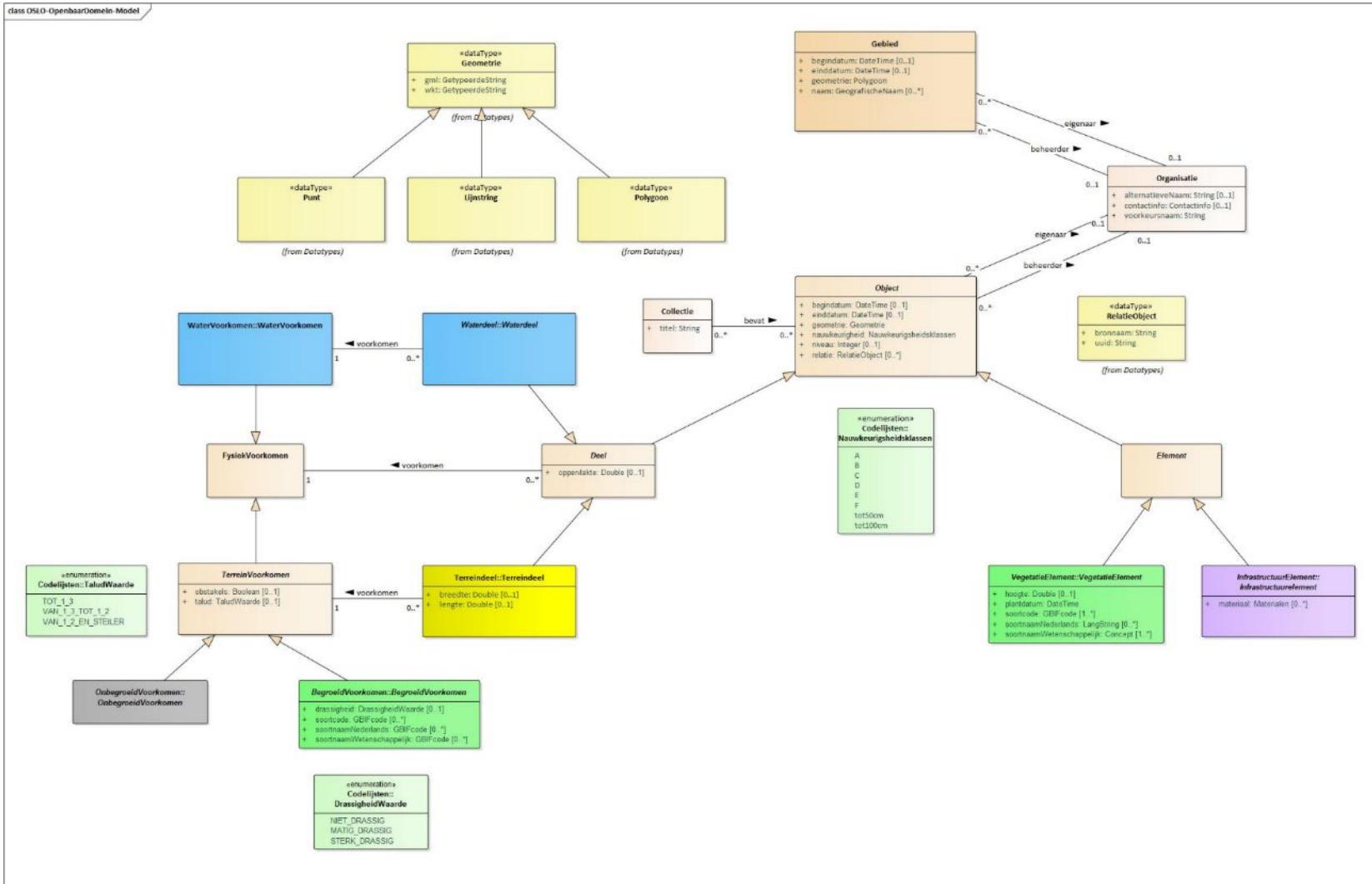


Method.



Standardised distribution flow

OSLO in practice



OSLO in practice

HTML documentation

Deel					
Beschrijving					
Homogeen gedeelte van het aardoppervlak, met een gelijkaardige hoofdfunctie en fysiek voorkomen.					
Eigenschappen					
Eigenschap	Verwacht Type	Kardinaliteit	Beschrijving	Gebruik	Codelijst
oppervlakte	Double	0..1	De afmeting van het object in vierkante meter.		
voorkomen	FysiekVoorkomen	1	Verwijst naar het fysiek voorkomen van het beheerdeel.		

Eigenschap eigenaar

Type	Eigenschap
URI	https://data.vlaanderen.be/ns/openbaardomein#eigenaar
Domein	http://www.w3.org/2000/01/rdf-schema#Resource
Bereik	http://www.w3.org/ns/org#Organization
Definitie	De entiteit (bv. de gemeente) die eigenaar is van het object of gebied.

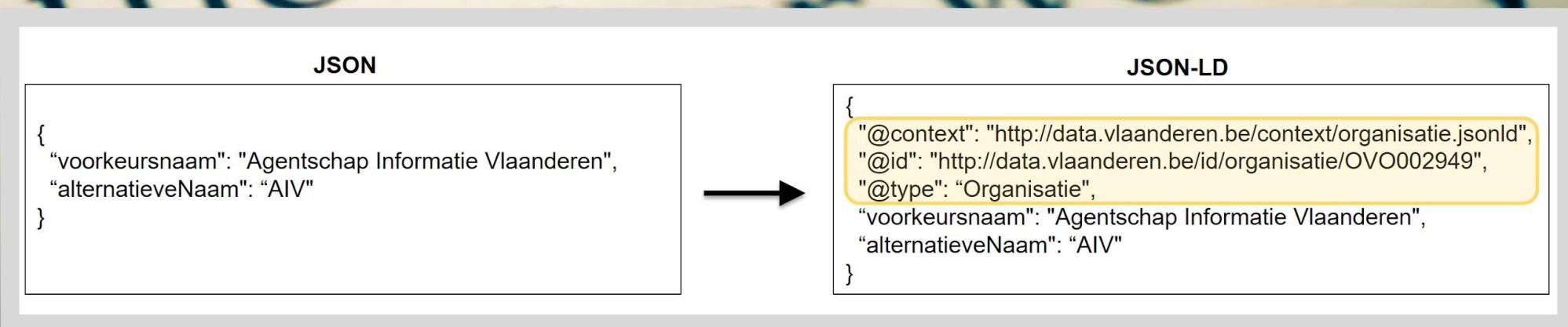
RDF

```
<https://data.vlaanderen.be/ns/openbaardomein#eigenaar> a owl:ObjectProperty ;  
    rdfs:label "eigenaar"@nl ;  
    rdfs:comment "De entiteit (bv. de gemeente) die eigenaar is van het object of gebied."@nl ;  
    rdfs:domain rdfs:Resource ;  
    rdfs:isDefinedBy <https://data.vlaanderen.be/ns/openbaardomein> ;  
    rdfs:range <http://www.w3.org/ns/org#Organization> .
```

JSON-LD

```
"eigenaar": {  
    "@id": "https://data.vlaanderen.be/ns/openbaardomein#eigenaar",  
    "@type": "http://www.w3.org/ns/org#Organization"},
```

Machine-readable

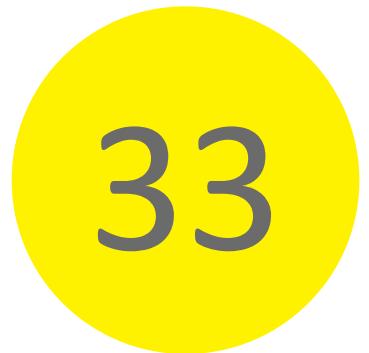


The image shows a tablet displaying two applications side-by-side. On the left, a Google Maps interface shows a route from 'Station Gent-Sint-Pieters, 9000 Gent' to 'STAM - Stadsmuseum Gent, Godshuize'. The route includes several options: 'Nu vertrekken' (Driving: 5 min., 1,5 km), 'via Kortrijksesteenweg/N414' (Driving: 5 min., 1,5 km), 'via Koning Leopold II-laan' (Driving: 6 min., 1,6 km), and 'via N60 en R40' (Driving: 7 min., 2,1 km). A blue oval highlights the first route. On the right, a screenshot of a digital meeting application shows a agenda item titled 'Tijdelijke inname van de openbare weg' (Temporary occupation of the public road) under 'OPEN AGENDAPUNT' (OPEN AGENDA ITEM). The application includes buttons for 'Bewaar afgelopen vrijdag om 11:50 Actief' (Save last Friday at 11:50 Active), 'Naar prullenmand' (To trash can), 'Ondertekenen en publiceren' (Sign and publish), 'Bewaar concept' (Save concept), 'Synchroniseer gegevens met OCMW' (Sync data with OCMW), 'Voeg sjabloon in' (Add template), and 'Toon invulvelden' (Show fillable fields). A checkmark indicates 'Klaar met verwerken' (Ready to process).

Integraties met applicaties, dicht bij de burger.



Status OSLO 2020



Accepted
standards



Candidate
standards



Standards under
development

DEPARTEMENT
MOBILITEIT &
OPENBARE
WERKEN

INFORMATIE
VLAANDEREN

OSLO Mobility



STAD ANTWERPEN



imec

its.
be

OSLO Mobility

Decree Basic Accessibility

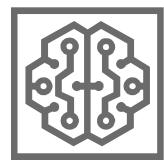
The mobility system in Flanders must be



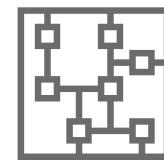
safe



sustainable



intelligent



multimodal



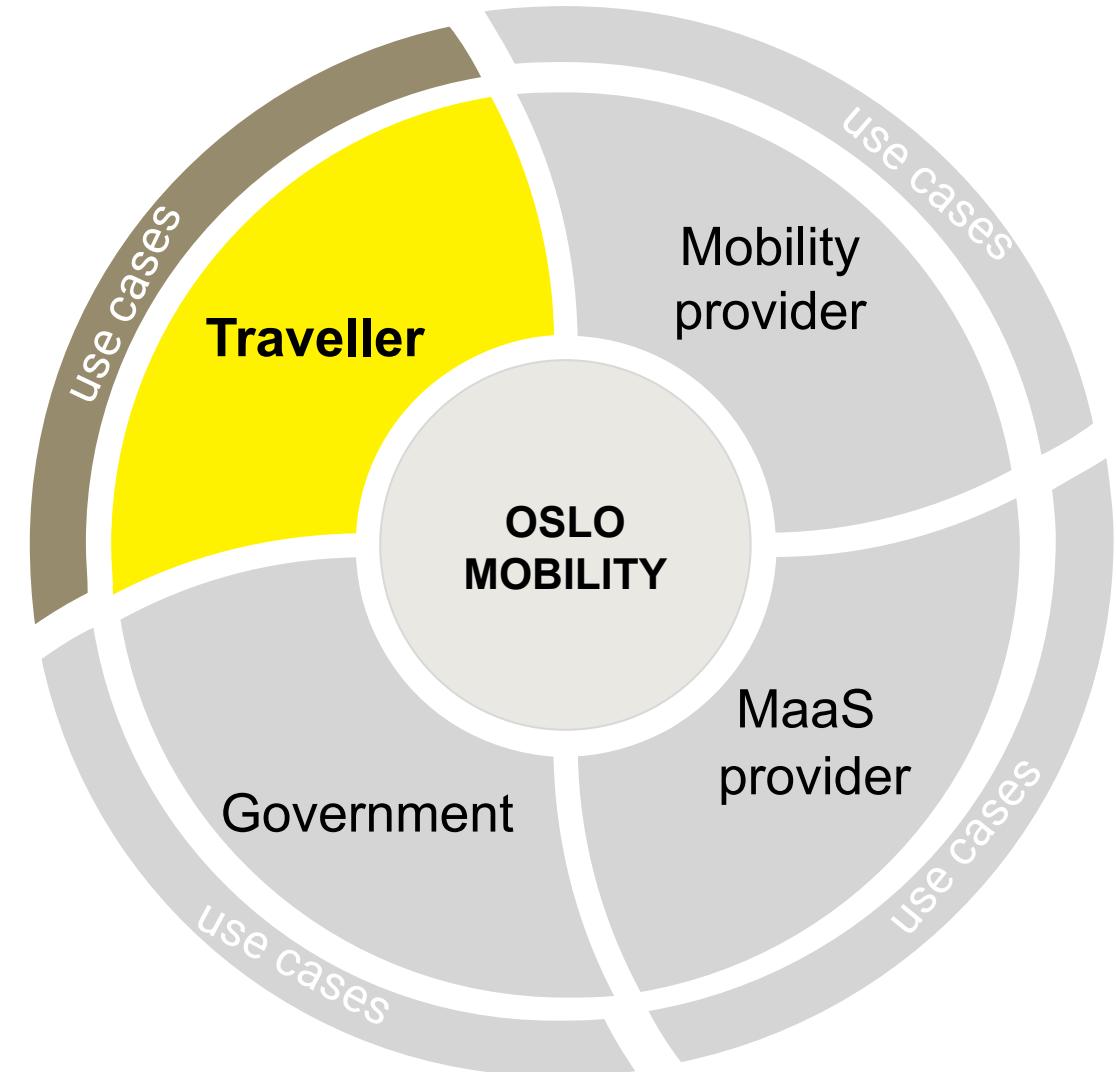
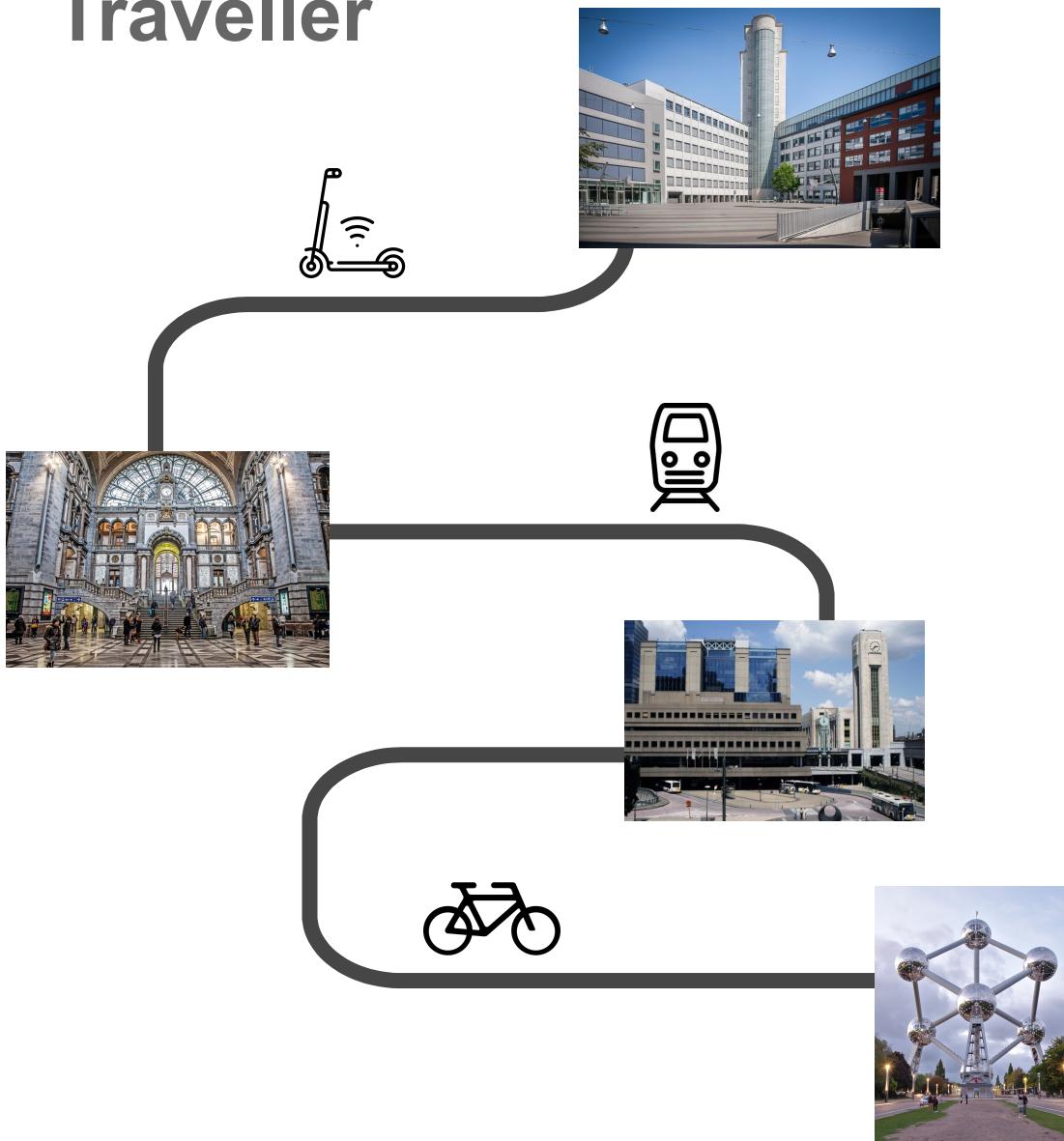
data



data standard

Use cases

Traveller



Use cases

Mobility provider

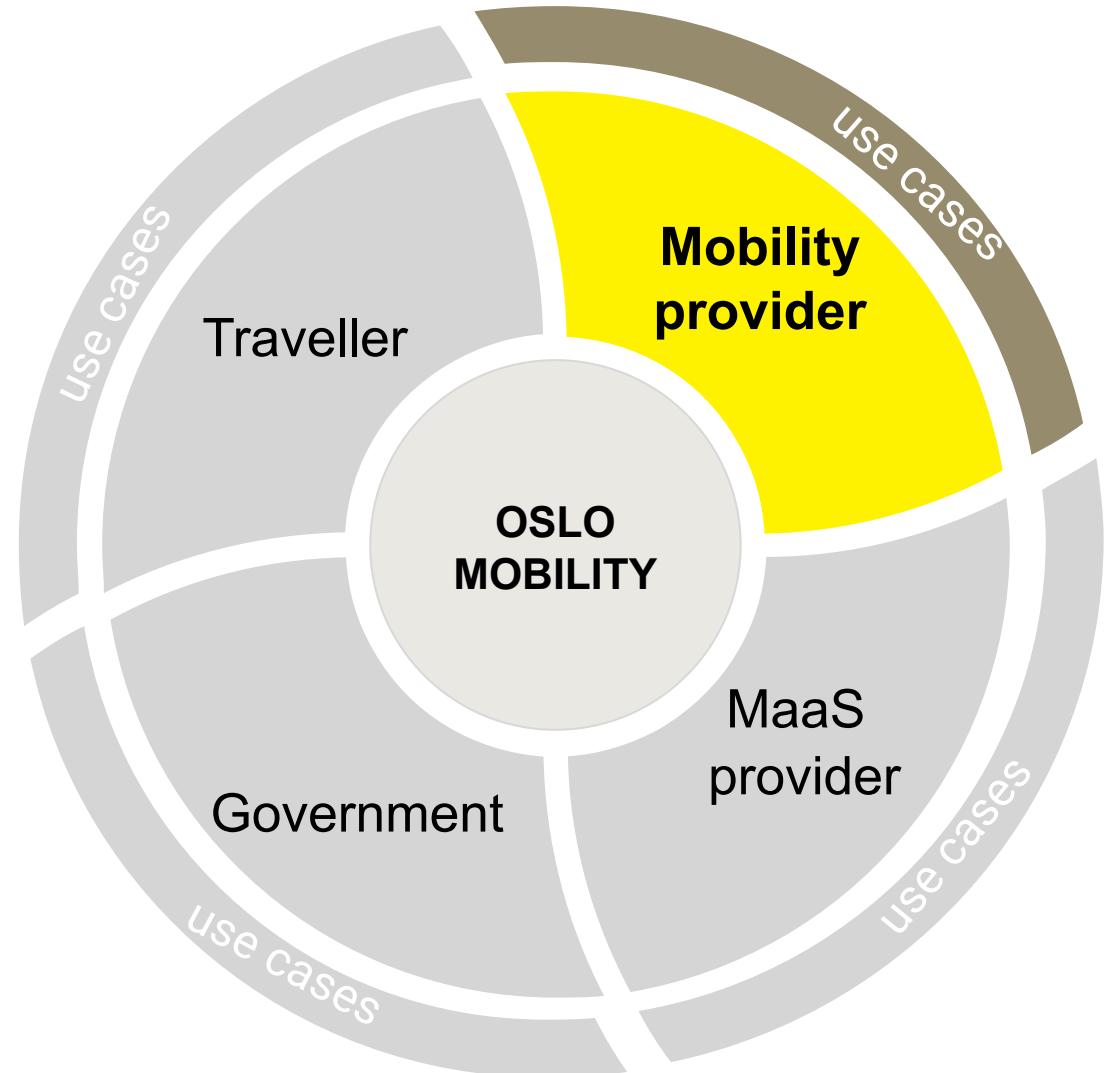
Describe their offerings in terms of



services

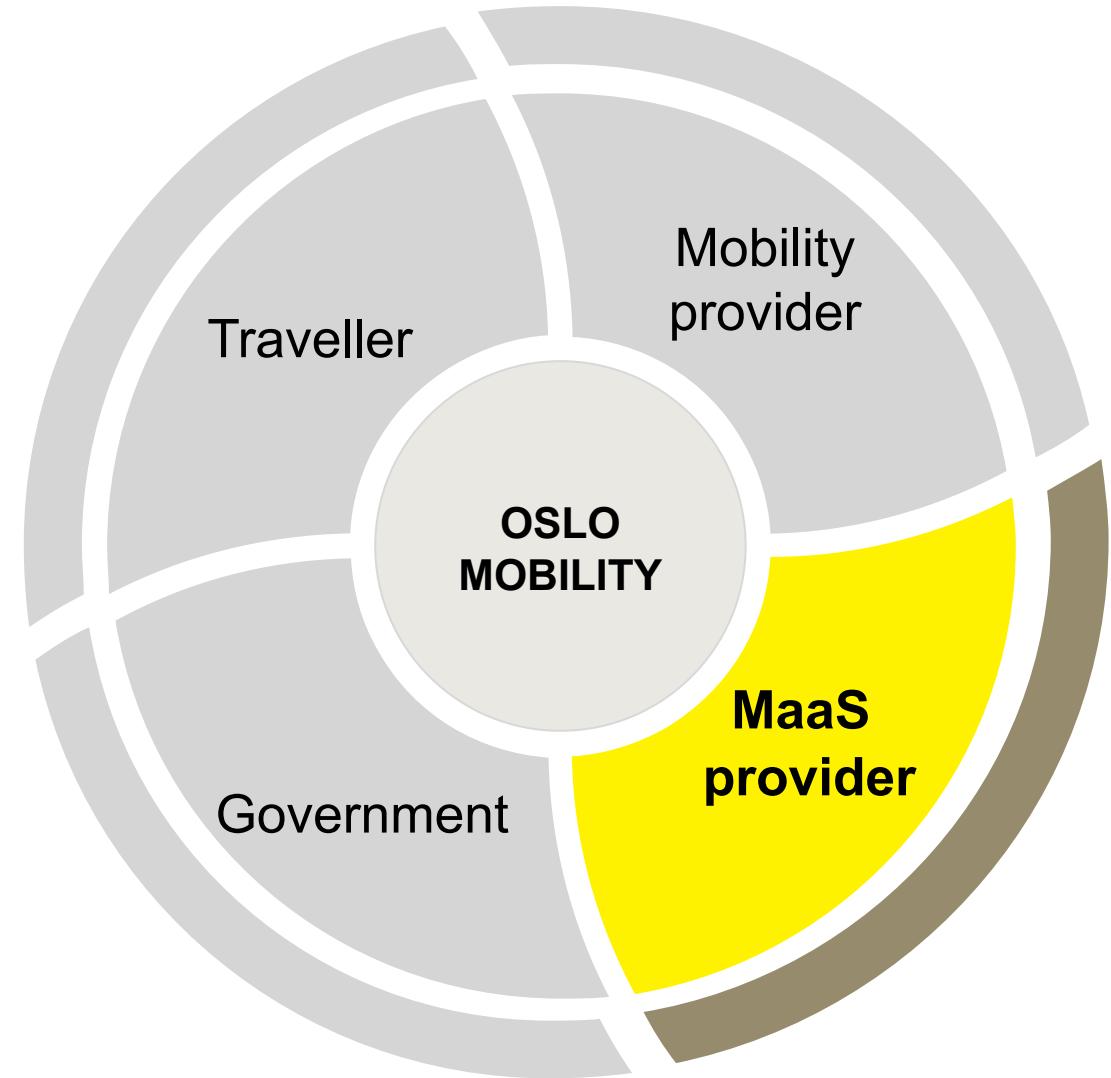
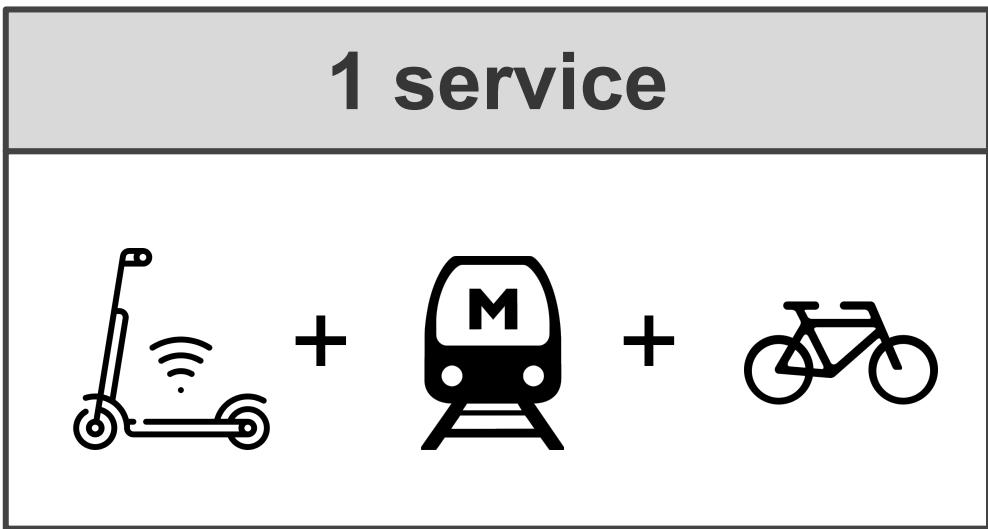


network



Use cases

MaaS provider



Use cases

Government



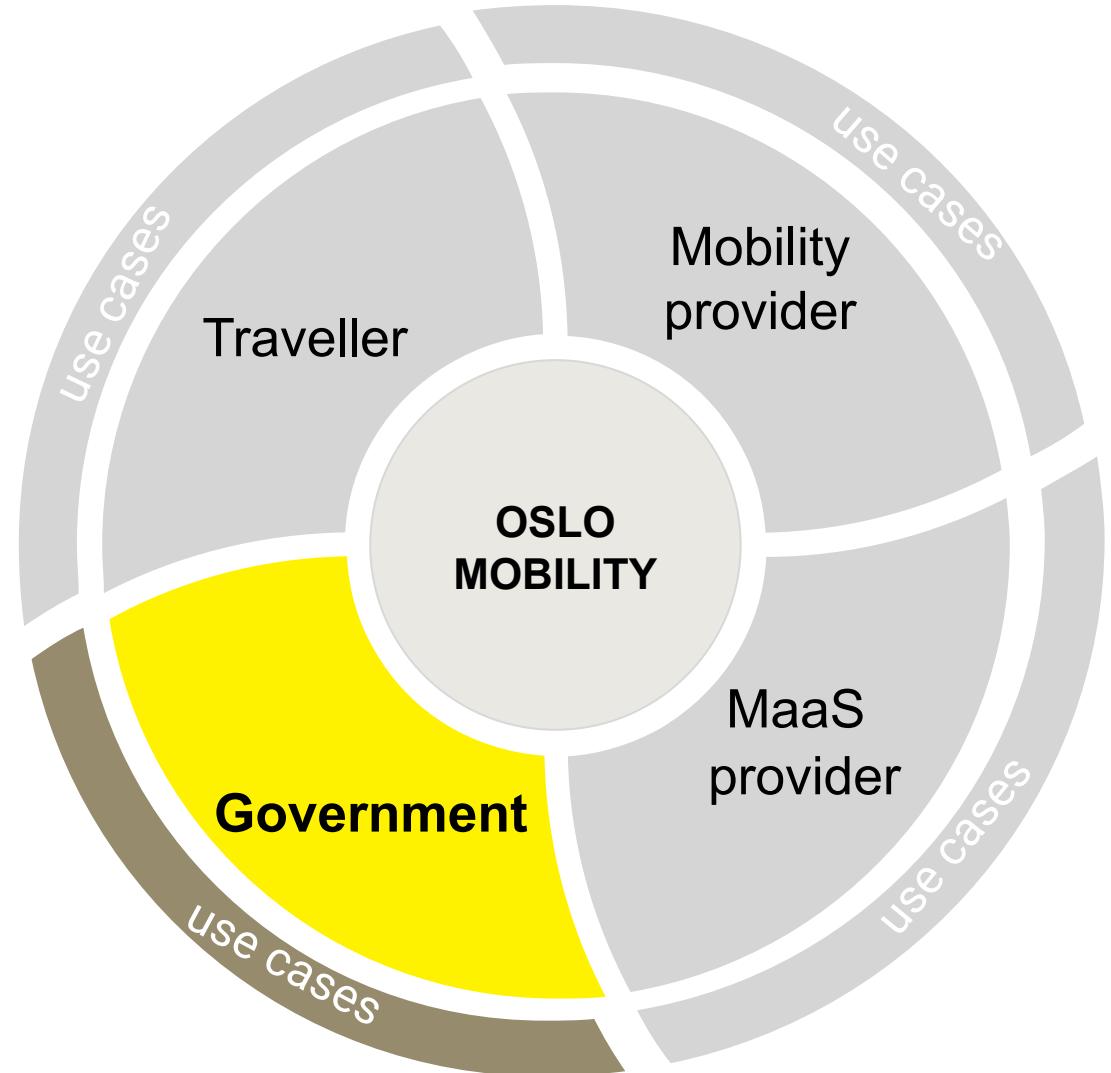
supply as **open data**

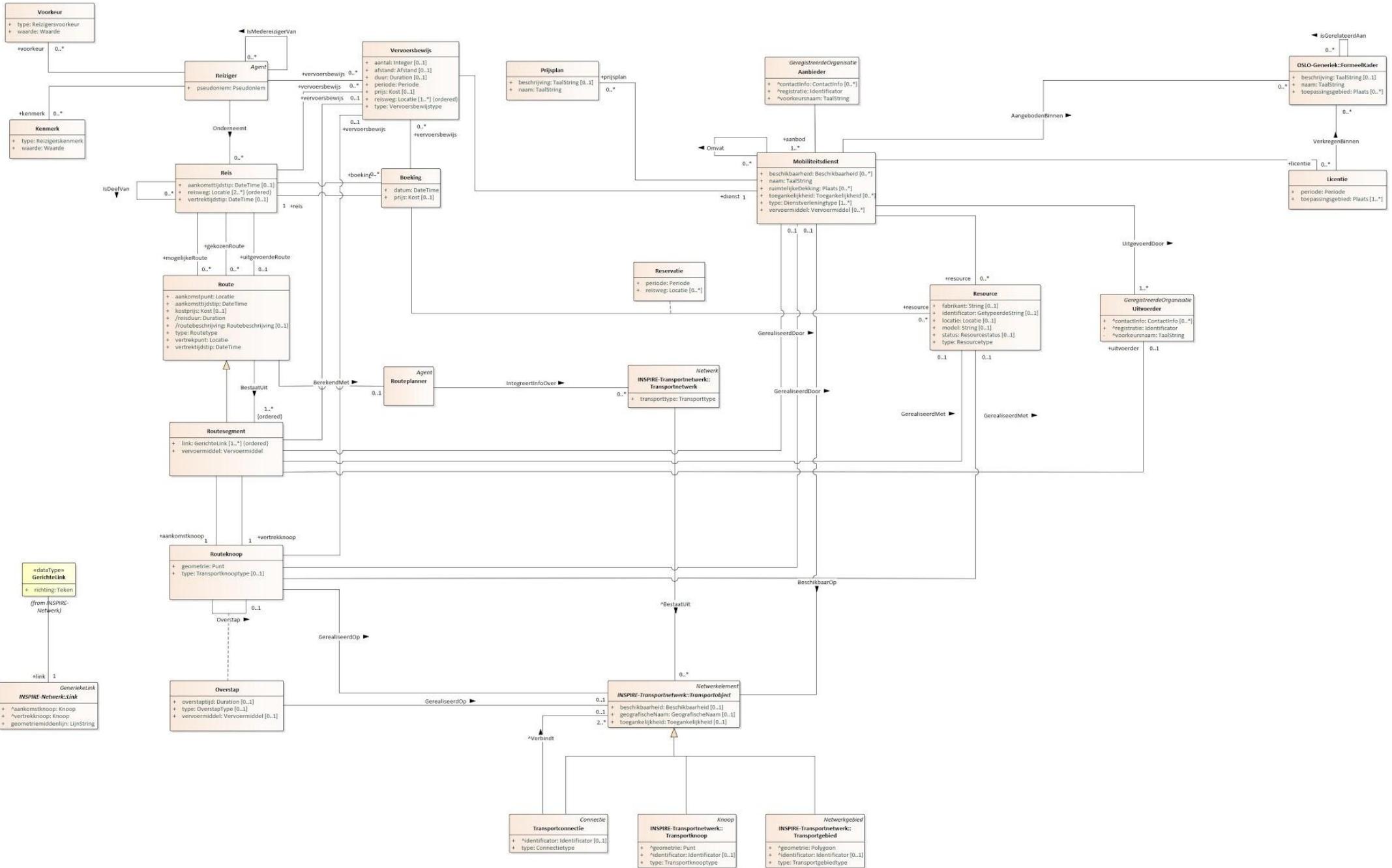


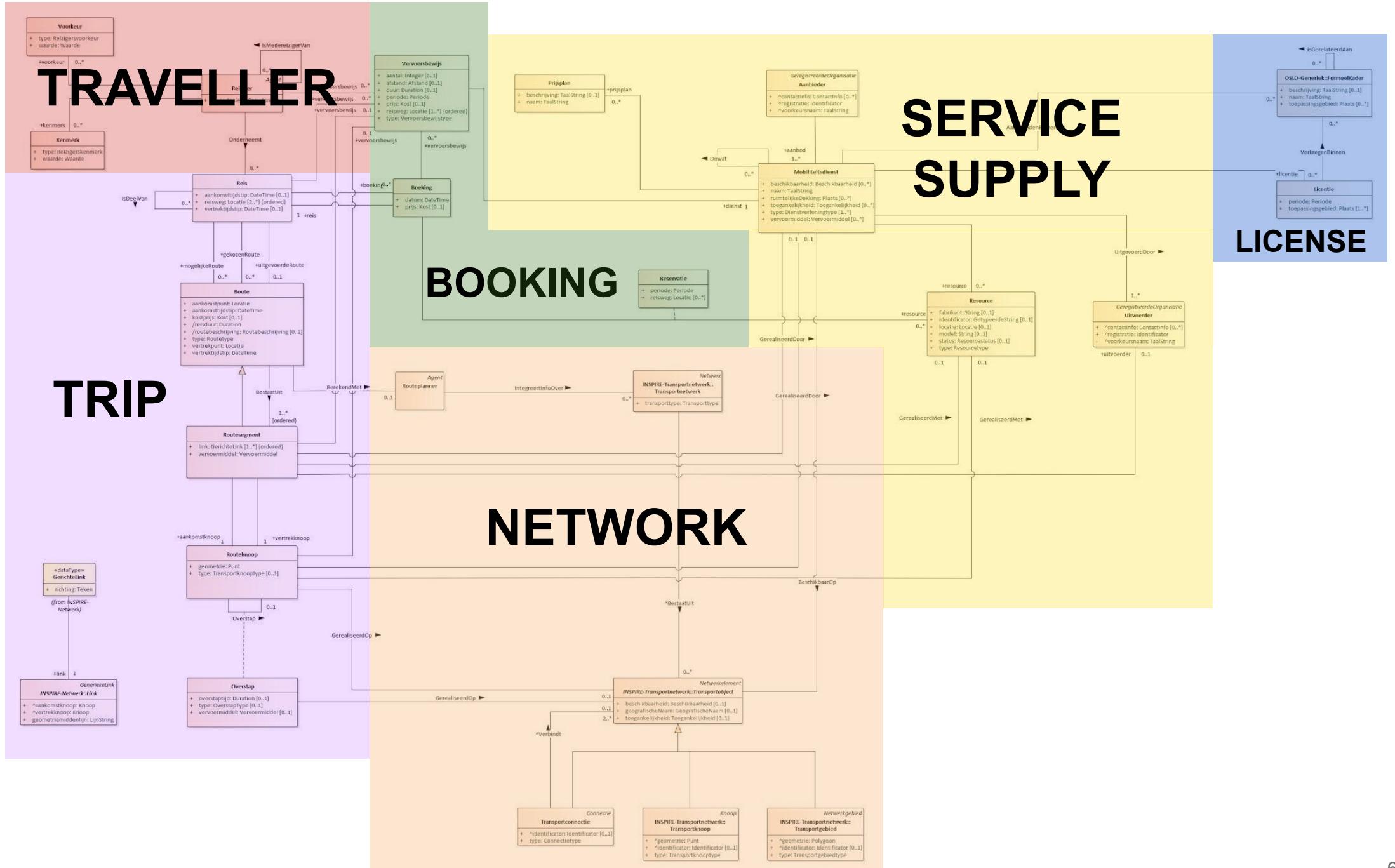
insights into **mobility behaviour**



reporting







Definitions

Mobiliteitsdienst

Beschrijving

Dienstverlening die verplaatsingen van Personen tussen Locaties mogelijk maakt.

Subklasse van

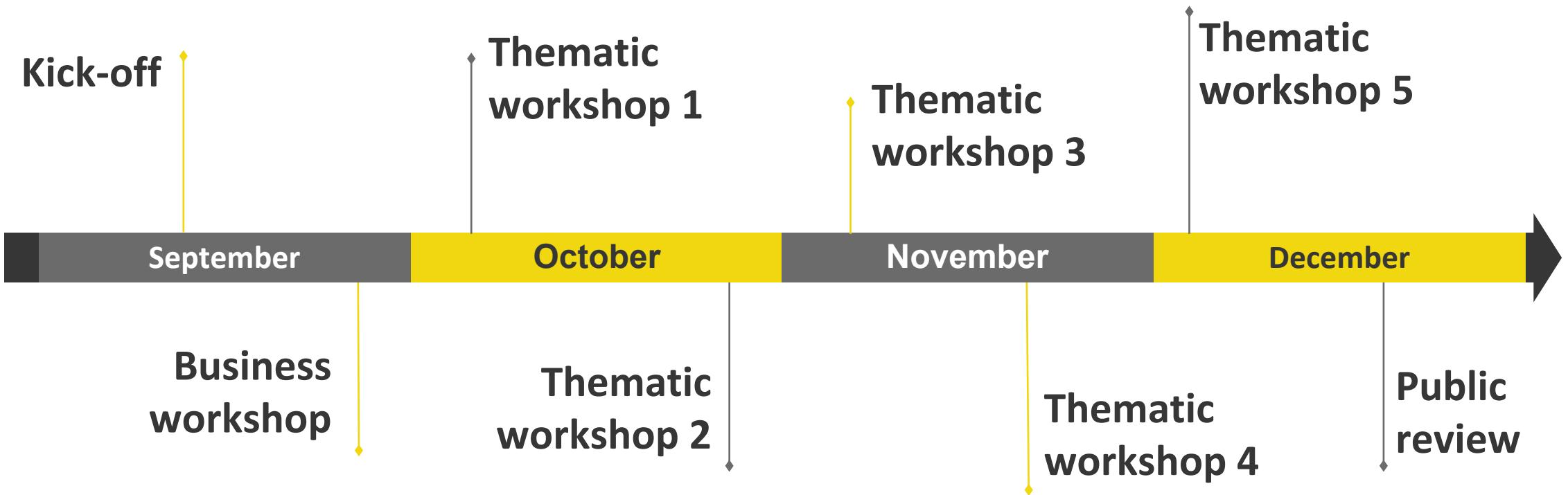
Dienstverlening

Eigenschappen

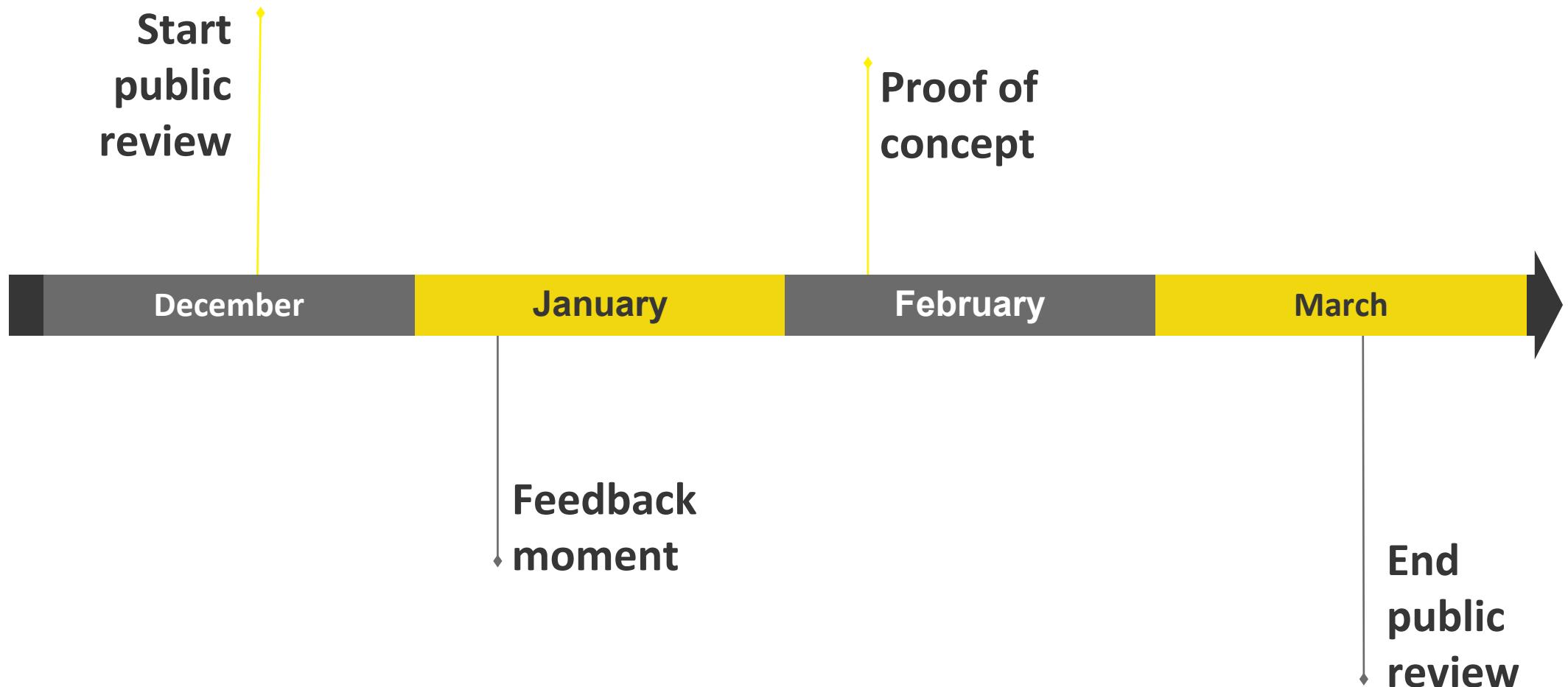
Voor deze entiteit zijn de volgende eigenschappen gedefinieerd: aangeboden binnen, beschikbaarheid, kost, licentie, naam, omvat, prijsplan, resource, ruimtelijke dekking, transportnetwerk, type, uitgevoerd door.

Eigenschap	Verwacht Type	Kardinaliteit	Beschrijving	Gebruik	Codelijst
<u>aangeboden binnen</u>	<u>Formeel Kader</u>	0..*	Formeel Kader waarbinnen de Mobiliteitsdienst wordt aangeboden.		
<u>beschikbaarheid</u>	<u>Beschikbaarheid</u>	0..1	Beschikbaarheid van de Mobiliteitsdienst.		

Timeline 2019 - workshops



Timeline 2019-2020 - public review



Github



- > To log issues.
- > To share useful resources.
- > To complete the enumerations.

<https://github.com/Informatievlaanderen/OSLOthema-mobiliteit-trips-en-aanbod>

Thank you!