



INSPIRE data for automatic driving

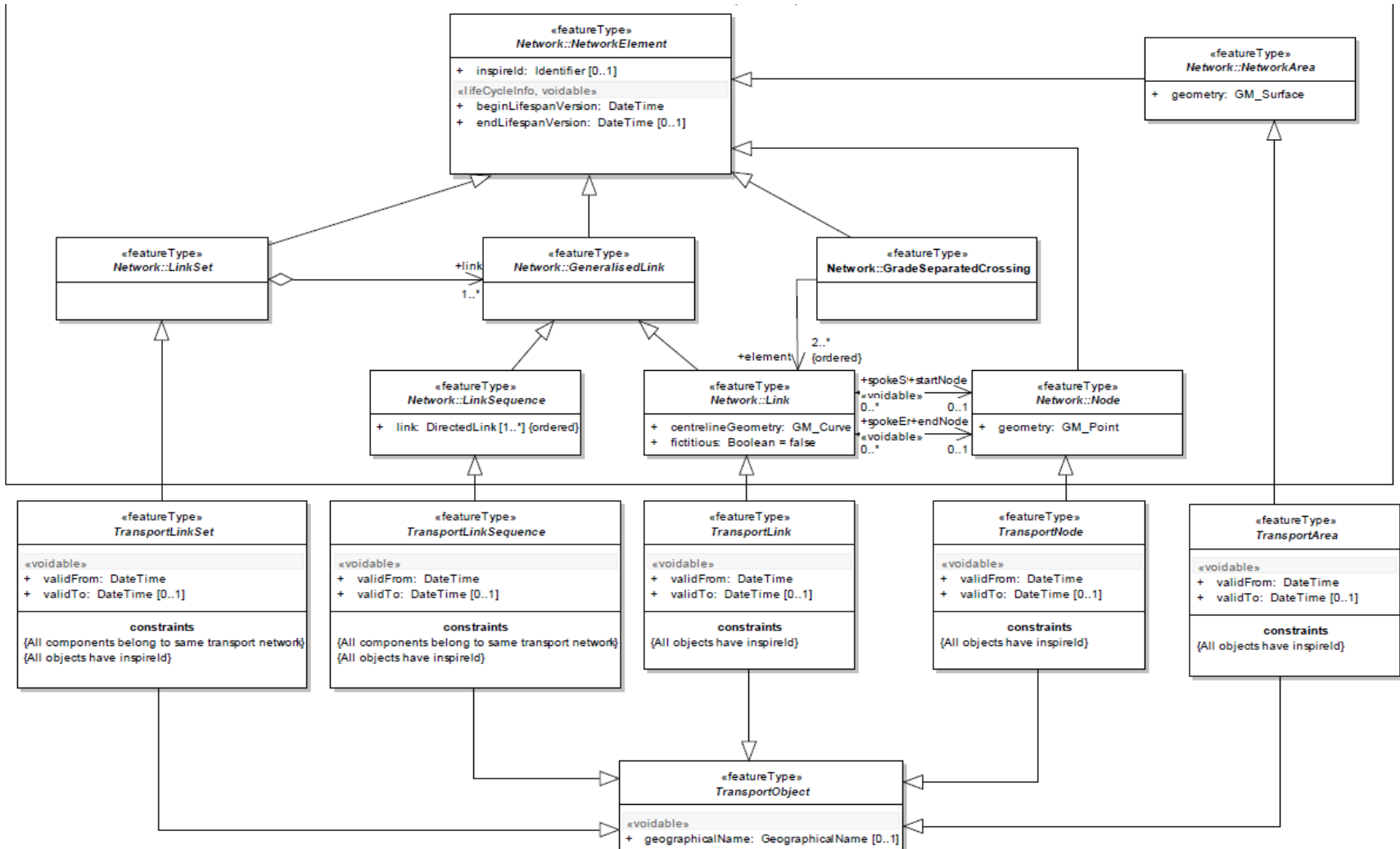
Workshop „Use of INSPIRE data“,
27.11.2018, Warsaw



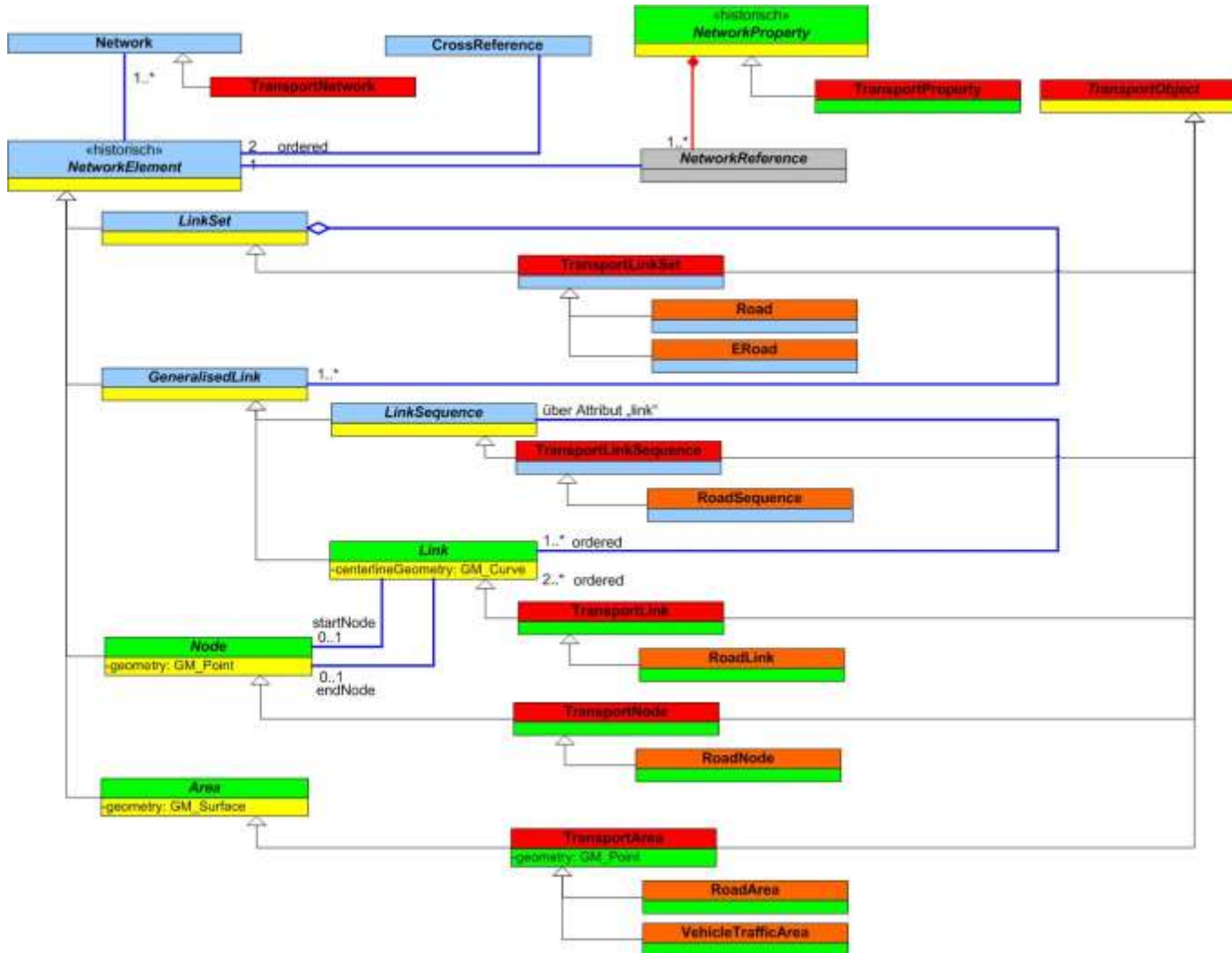
Goal of geodata management

- Delivery of data that is provided by law from administrations (INSPIRE):
Traffic network, Elevation, Buildings,
Environmental monitoring facilities, Meteorological geographical features
- Delivery of additional thematic data
e.g.: Open Data of road engineering and management, Open Street Map,
weather and climate data, traffic situation
- Preparation and structuring of data to combine them with the dynamic data produced by cars

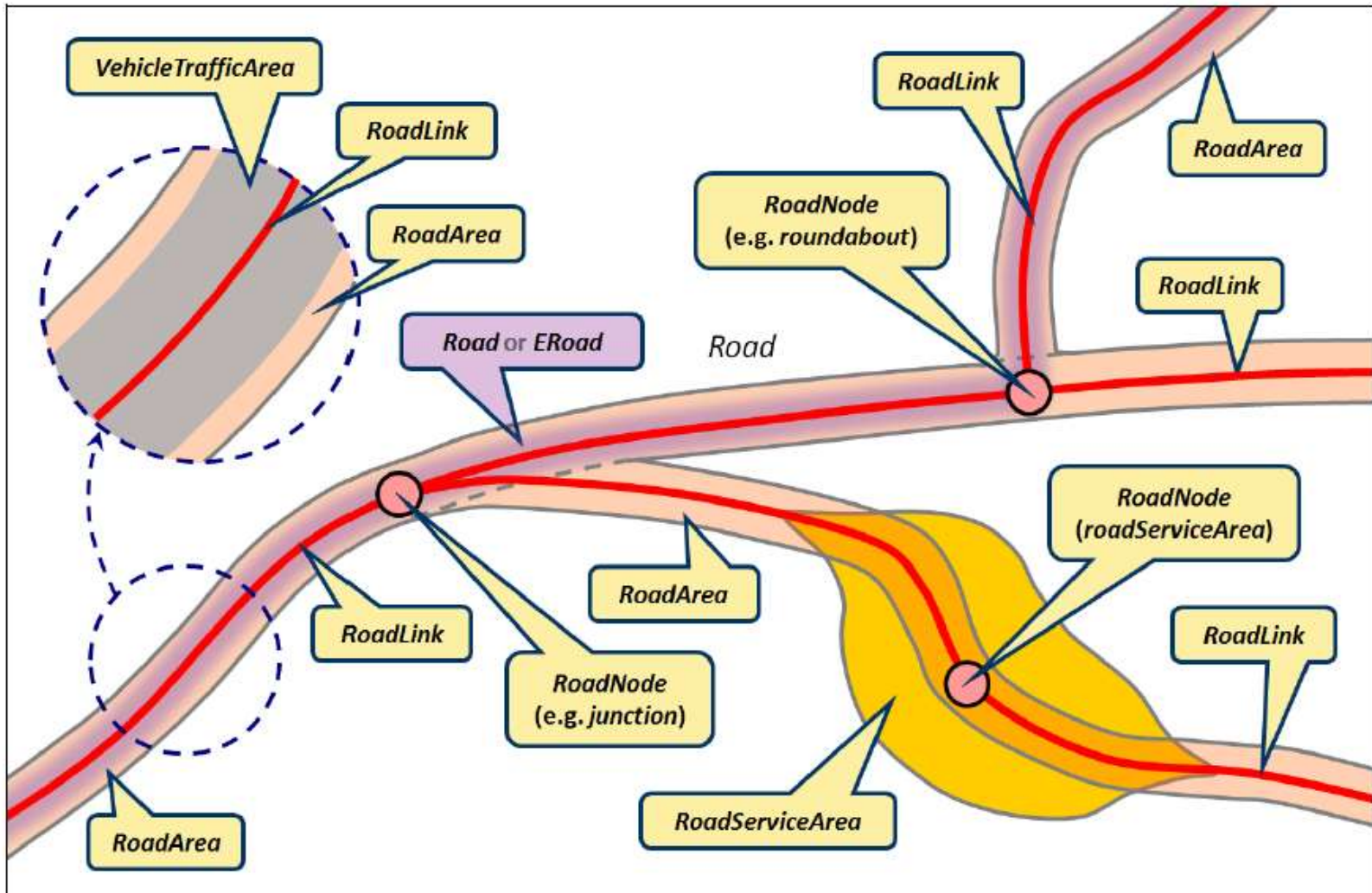
INSPIRE – Traffic network



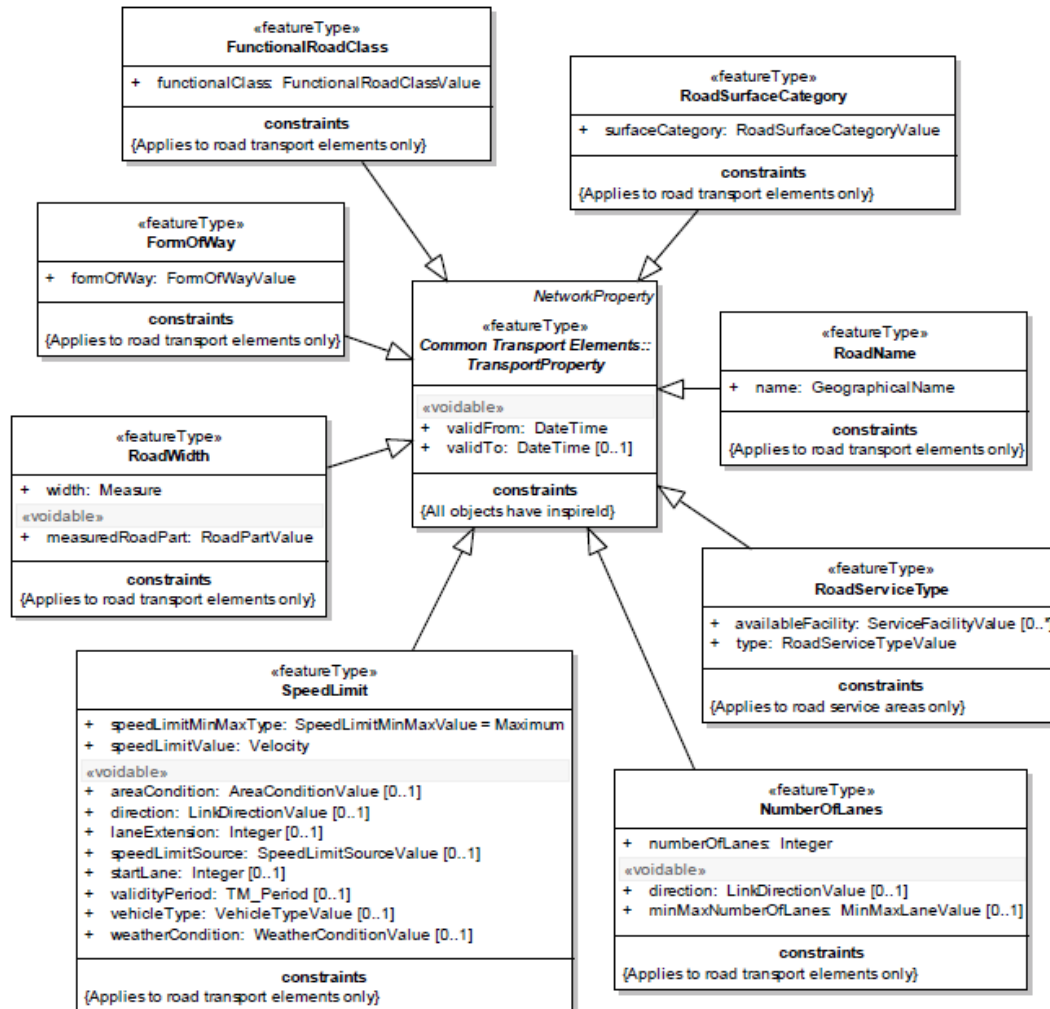
INSPIRE – Road network



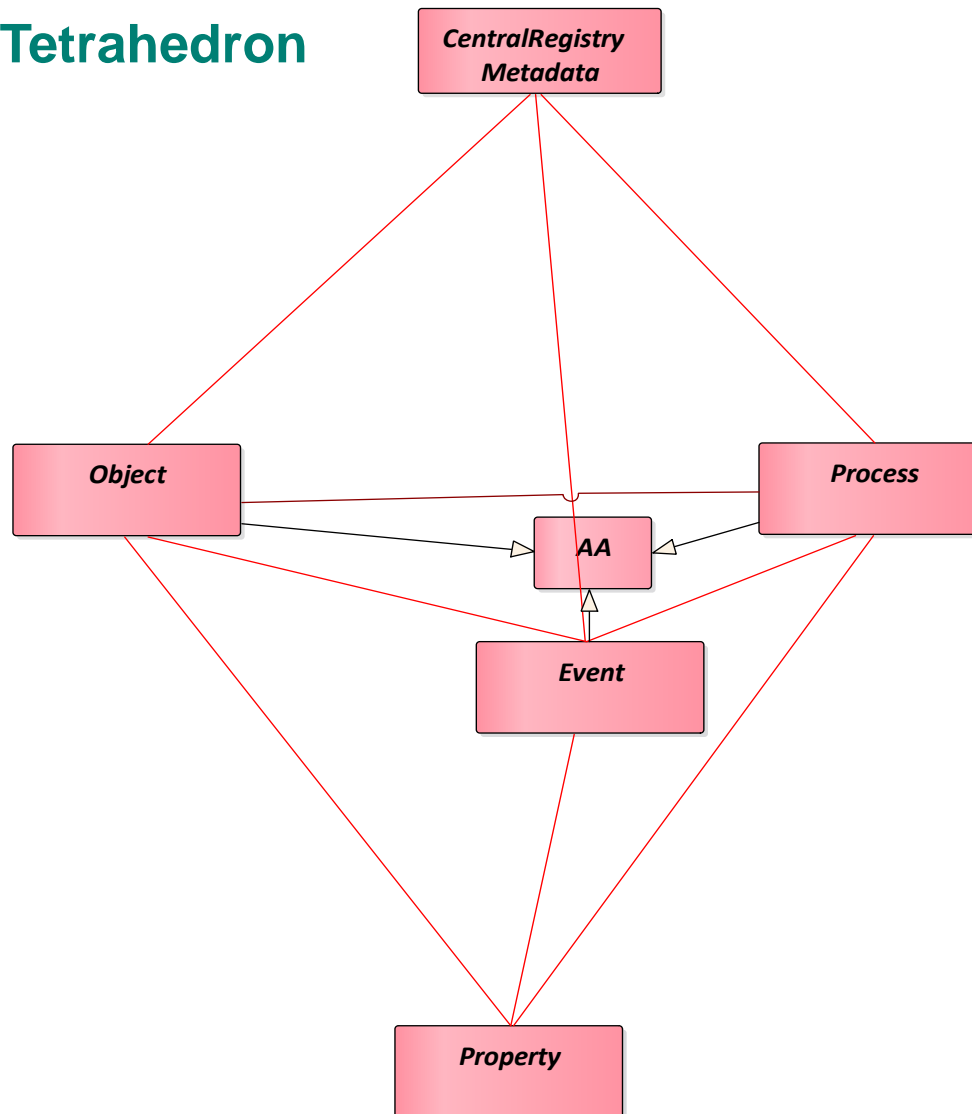
INSPIRE – Road network



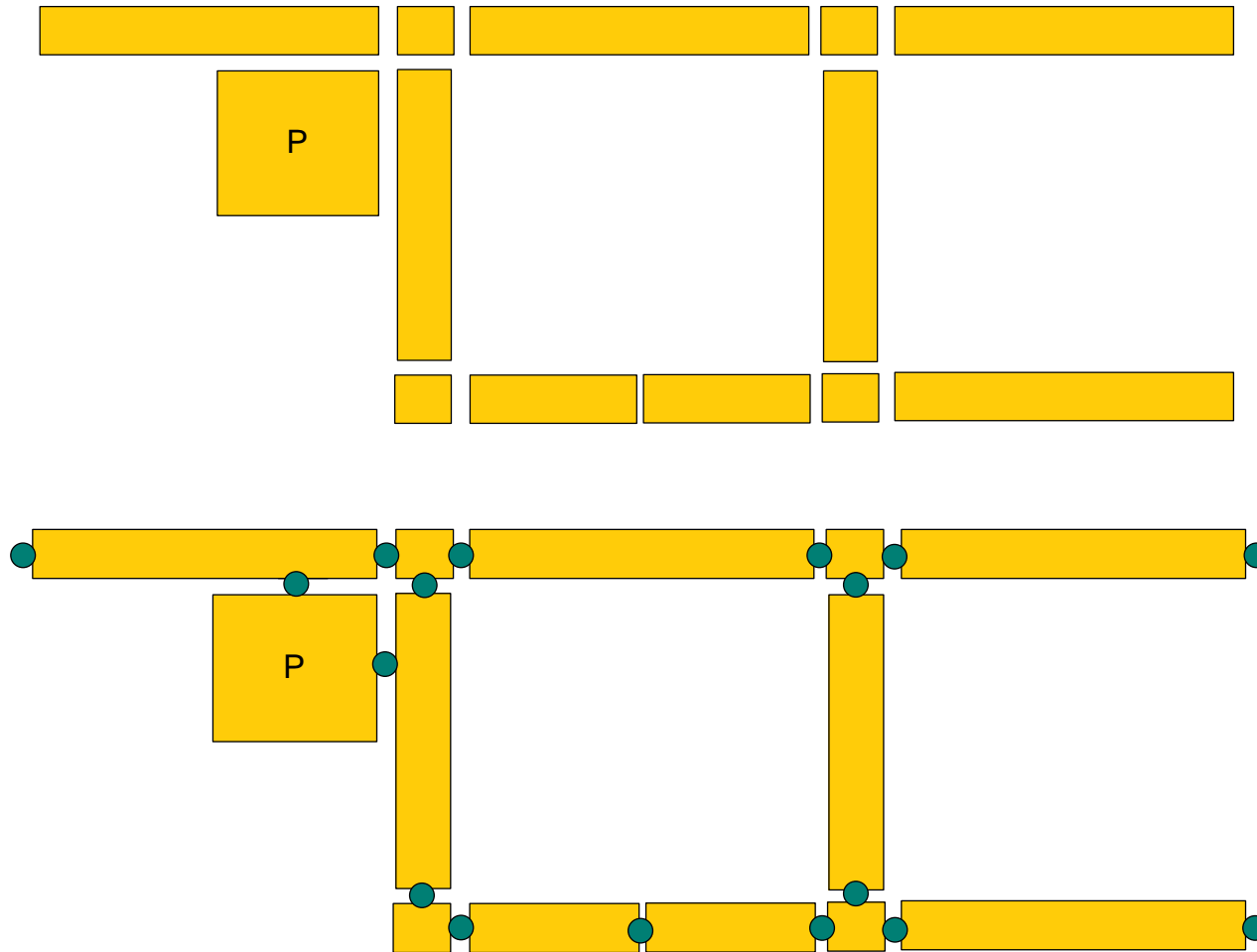
INSPIRE – Road properties



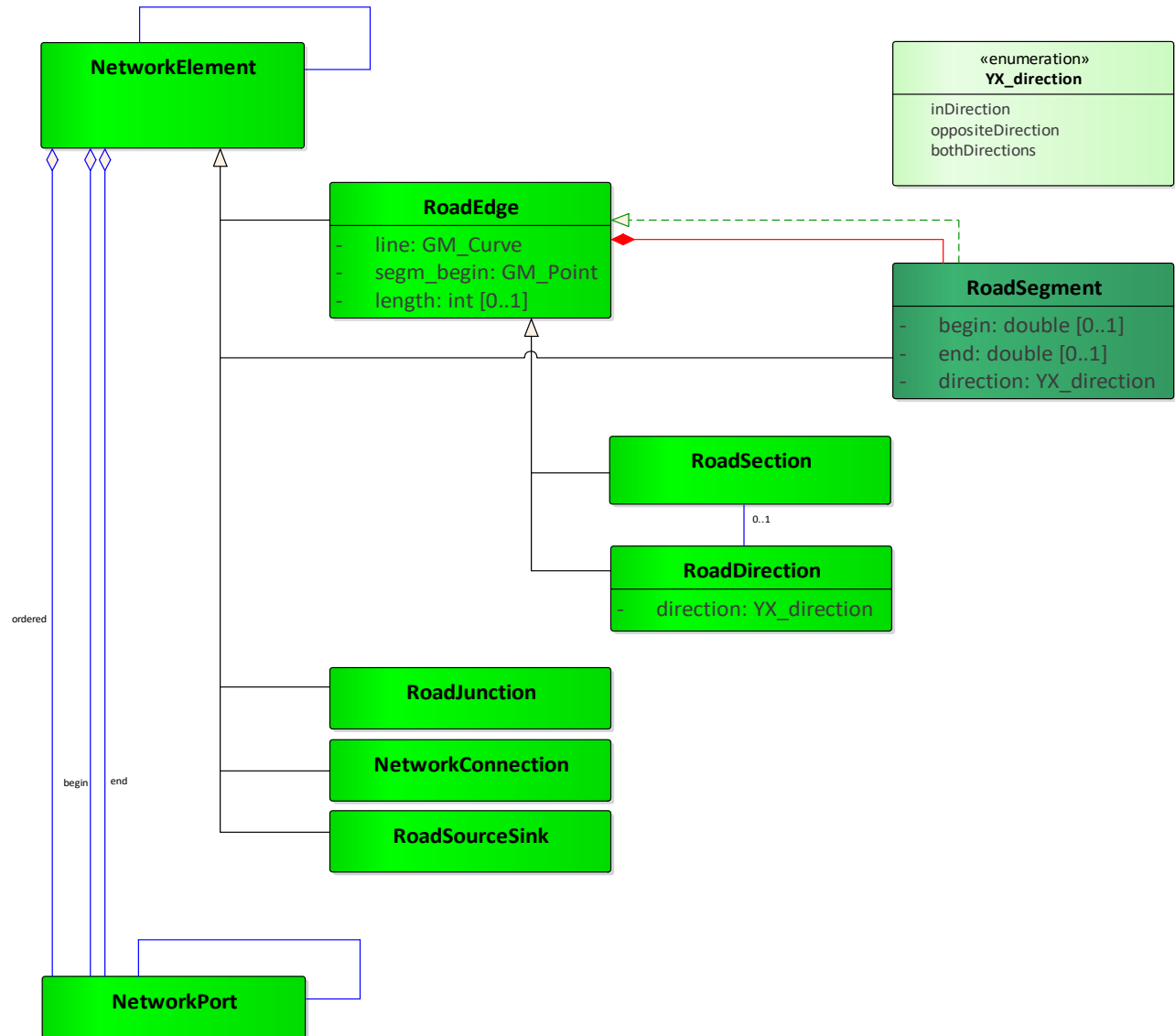
Basic model: Tetrahedron



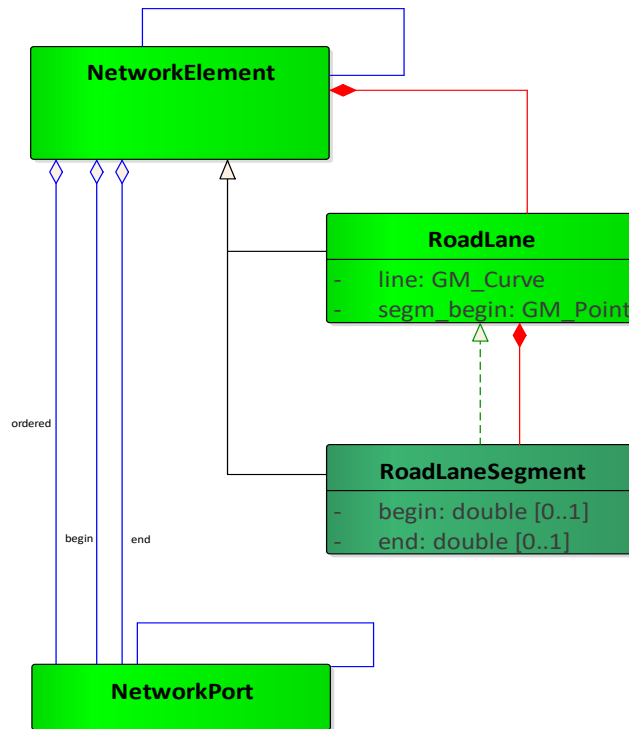
Network model - Street



Network model Street

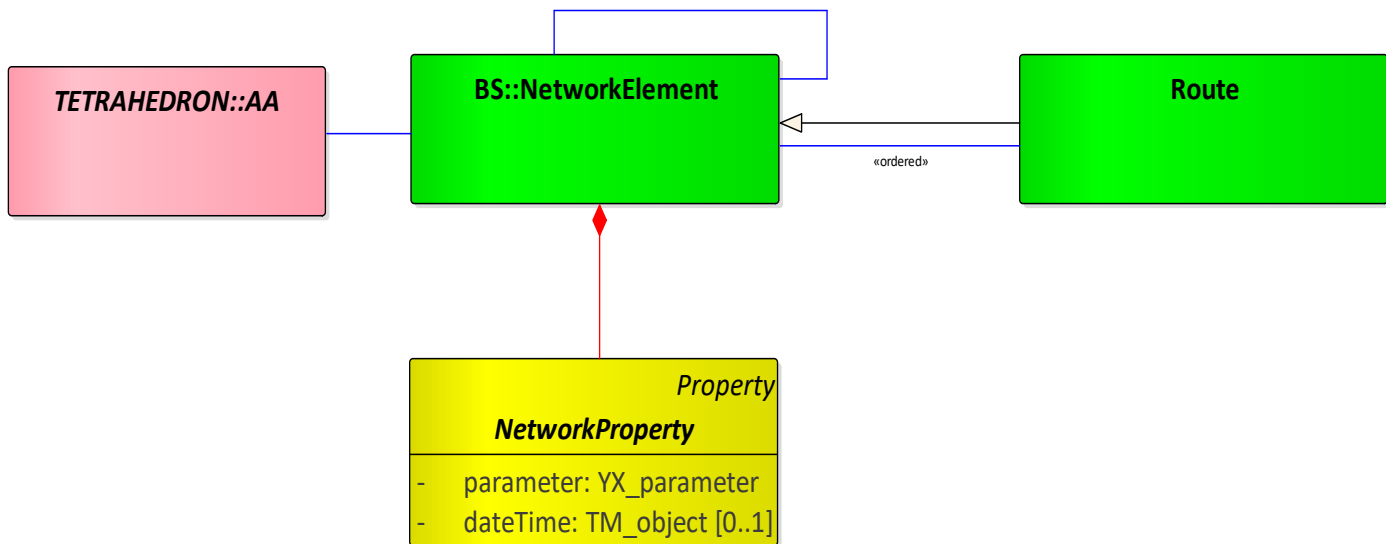


Network model Lane



Network model

Properties

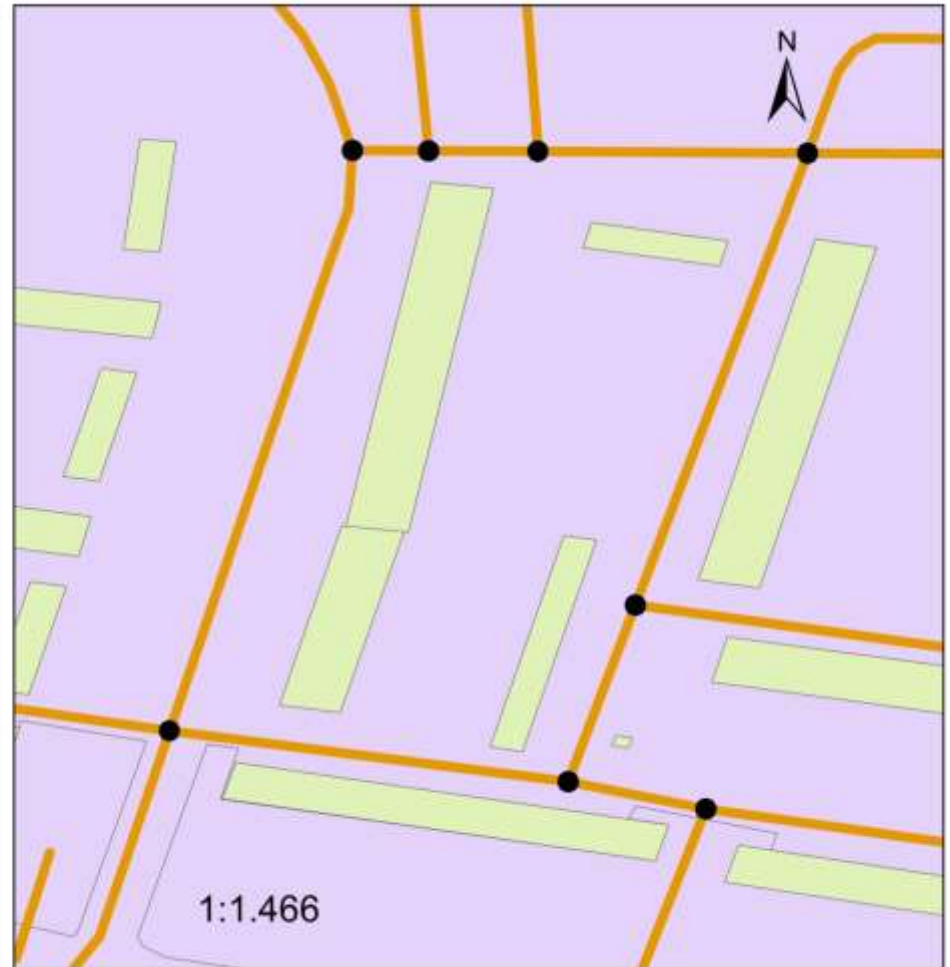


Network model Examples

Legend

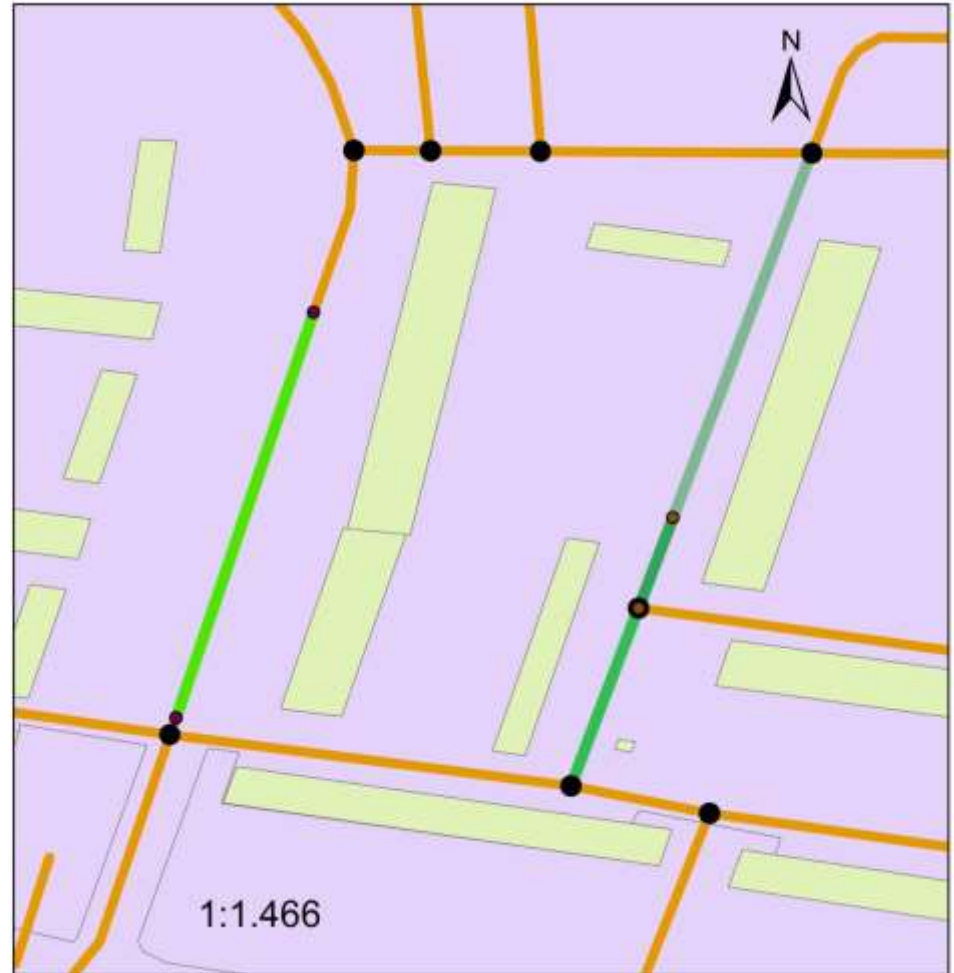
— Streets

● Junctions
Ports



Network model Examples

- Legend**
- Segment: parking prohibited
 - Segments: average car speed



Conclusions

- Simple data model
- Less object classes
- Common and repetitive structure
- Accuracy:
 - topological model: street – undirected
 - functional model: lane – directed
 - segments for exact position of all road features and traffic conditions
- Depiction of any properties
 - expandable
 - same structure
 - any resolution of the street

Thank you for your attention!

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