

**EasyWay**



Annual Forum 2010



**Shortcut to the future.**

Lisbon • November 16<sup>th</sup>-18<sup>th</sup>



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Relating cooperative services with  
traffic and freight management systems

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- The Common Framework for ICT in Transport and Logistics



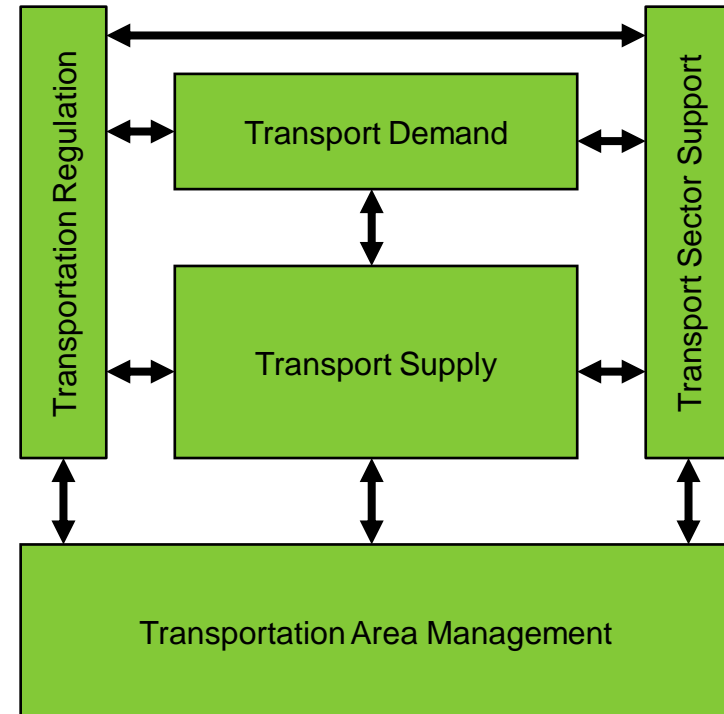
# The importance of a generic and holistic approach

- Modelling approach
  - Focus on the total solution
  - New technology in a broad context (the whole freight distribution and traffic management strategies and processes)
  - Consider all stakeholder needs
- Different regions– different needs
  - Different traffic patterns and flows
  - Different infrastructures (physical as well as technology)
  - Different traffic management policies
  - Different organisations of responsibilities
- Aligning with related work and upcoming solutions
  - Multimodal transport chains
  - Intelligent cargo
  - Intelligent vehicles



## Stakeholder Roles

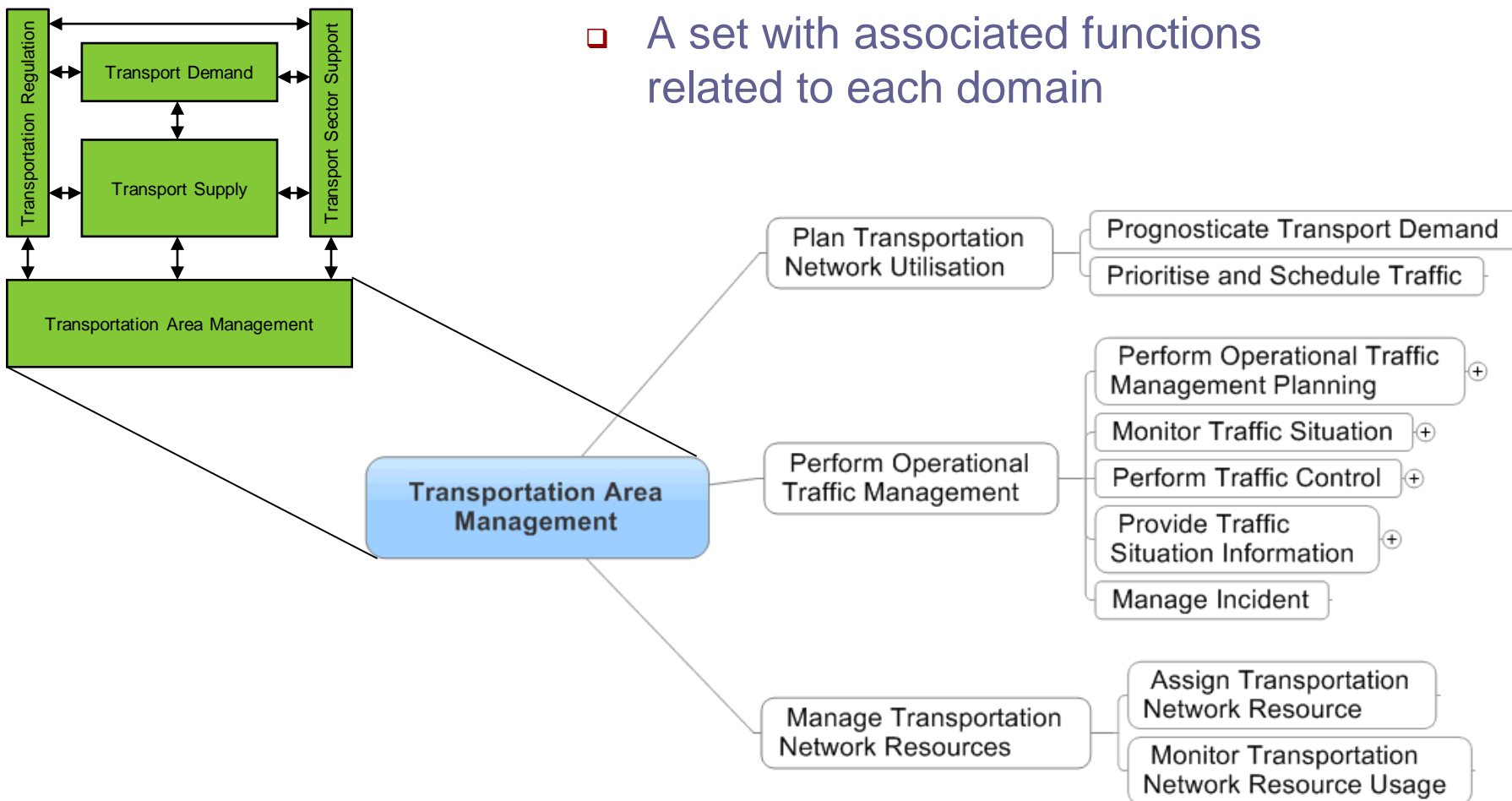
- Transportation Network Manager
- Transport Service Provider
- Drivers
- Retail postal/cargo owners
- City Transport Regulator/society
- Technology/Trackings Support Manager





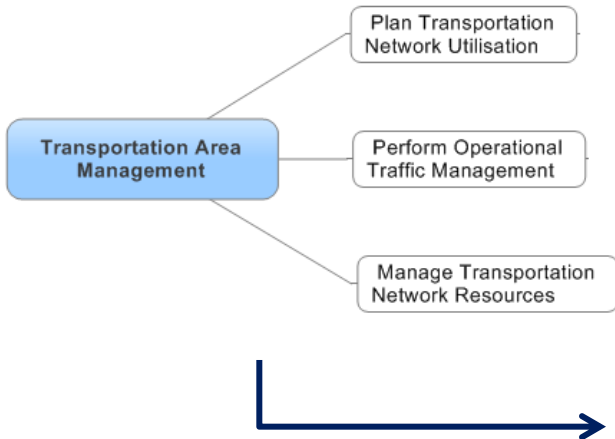
## Roles performs different Functions

- A set with associated functions related to each domain

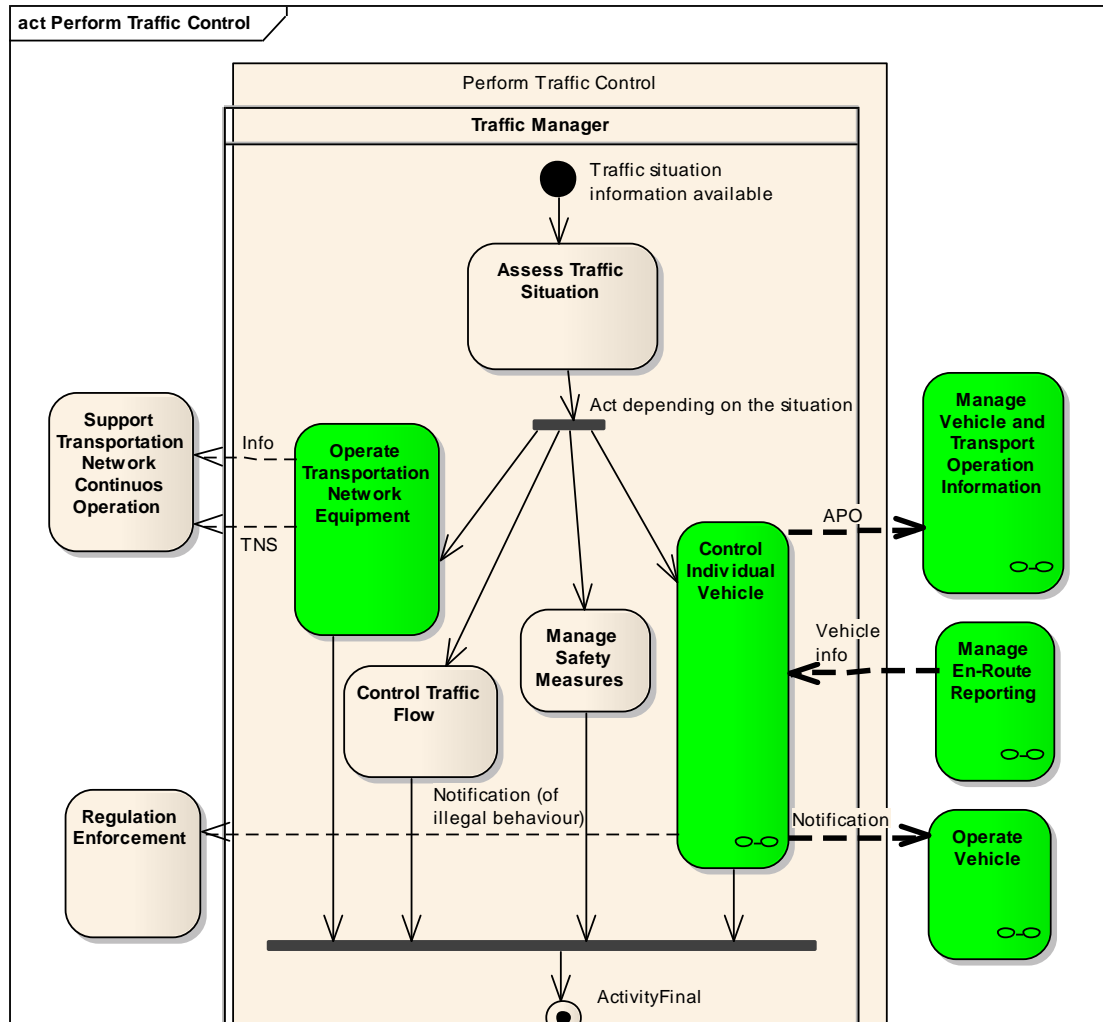




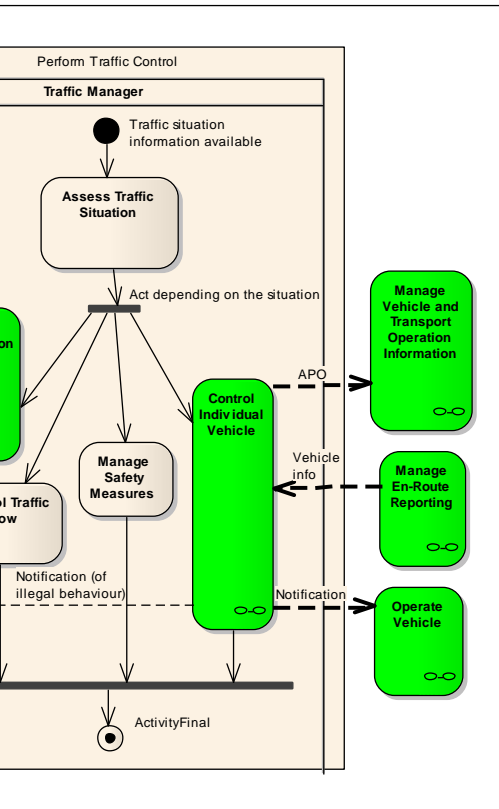
## Function as in Processes



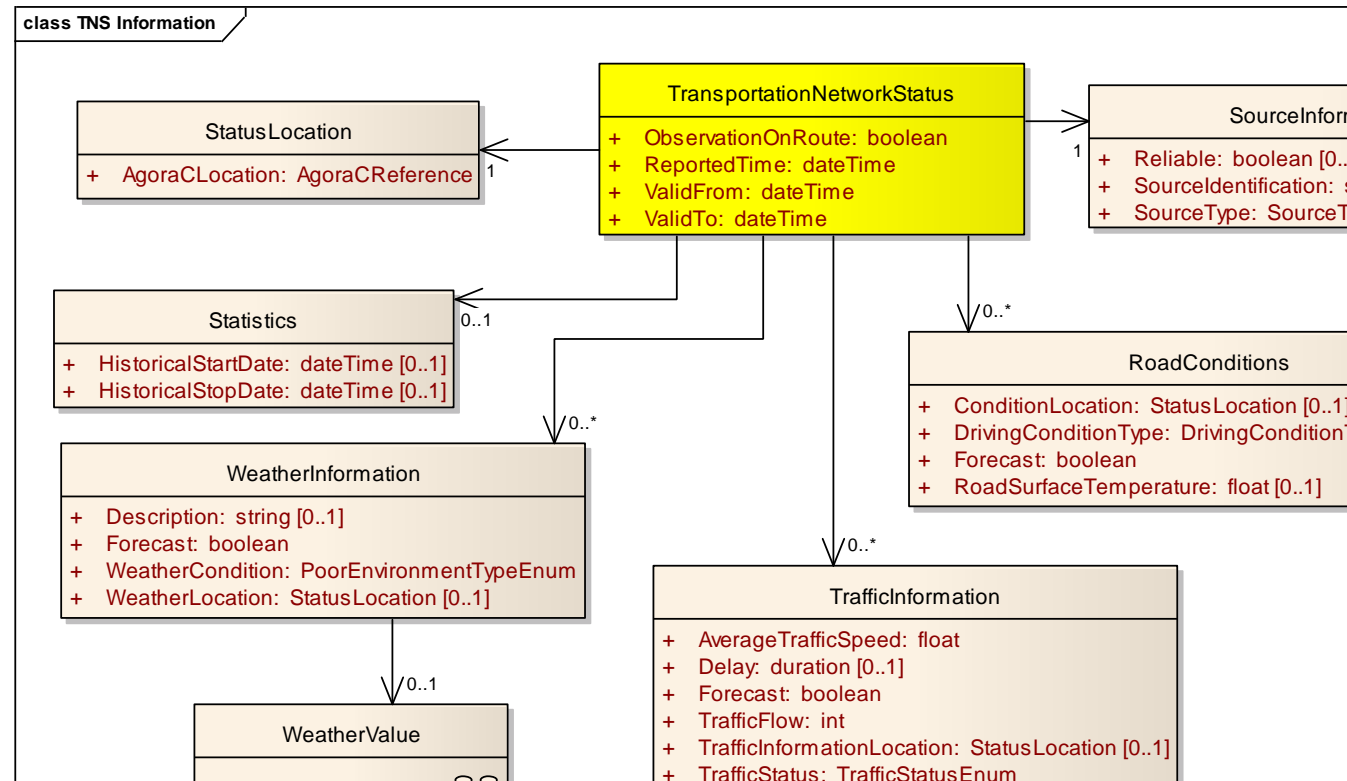
- Processes defines the functions' interactions



## Process Exchange Information

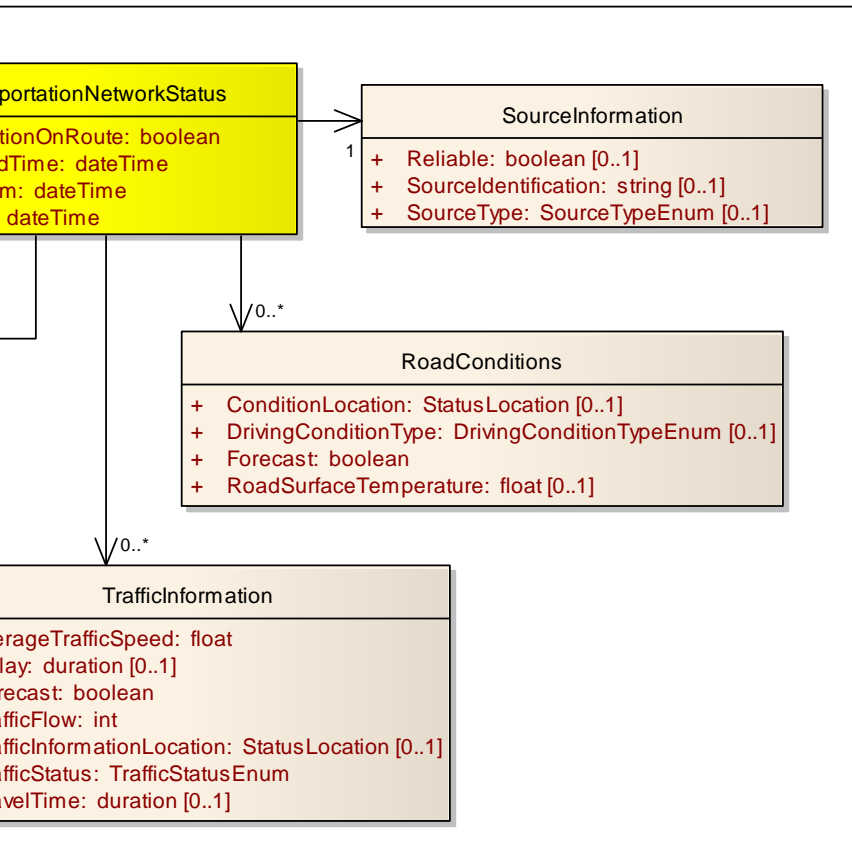


- Defining the information exchanged in the processes

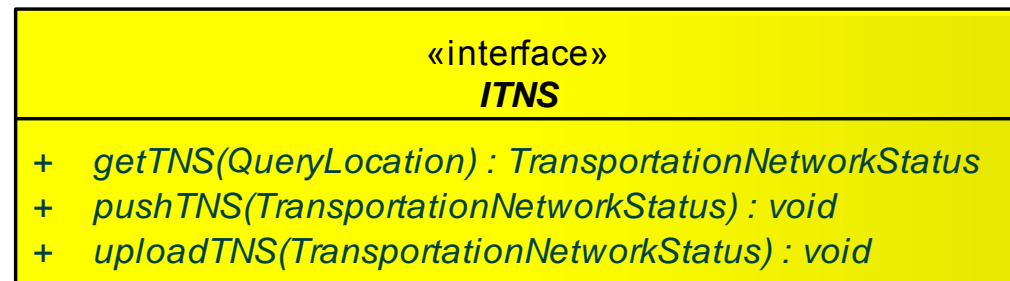




## Information available via service interfaces

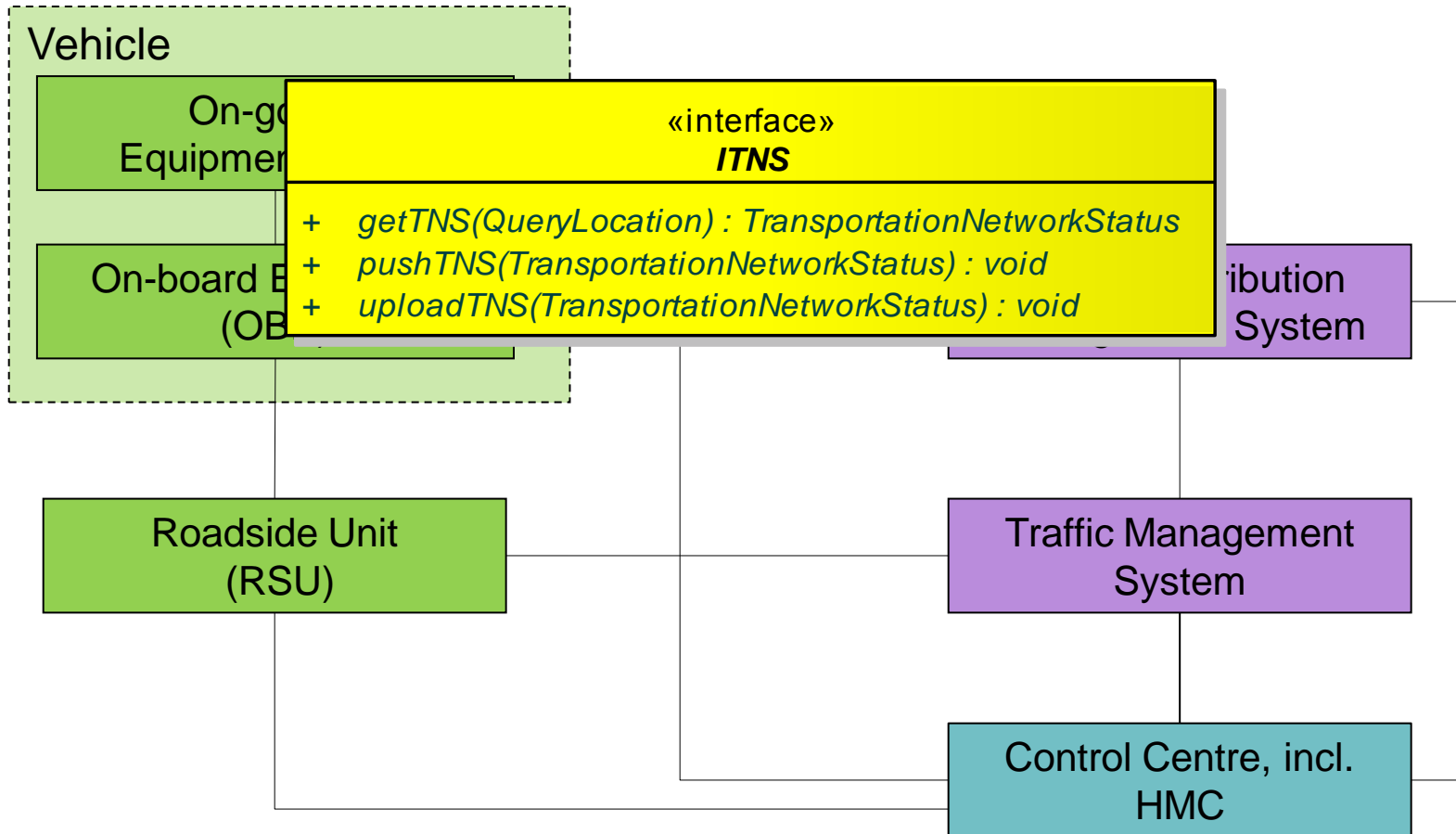


- Open service interfaces enable information sharing between information systems





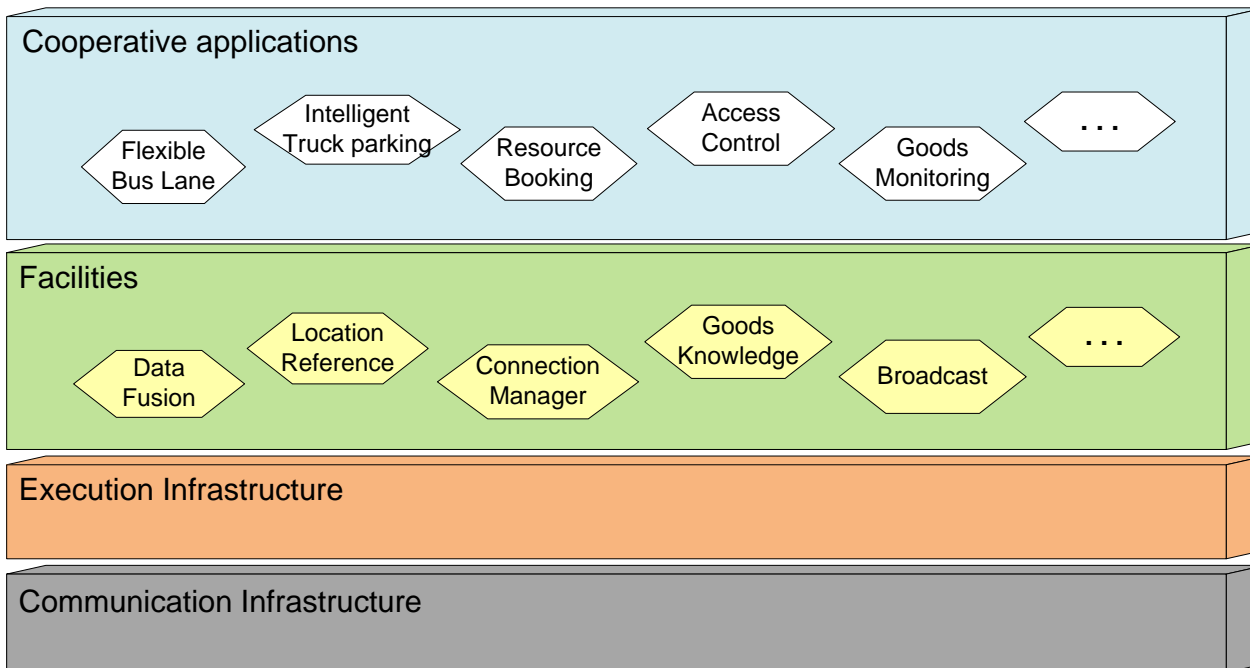
## Service interfaces system components





## Cooperative applications

- is the top layer in the ITS service platform
- service interfaces enables
  - the use of common facilities/services
  - The use of different communication means (e.g. cameras, sensors, etc)

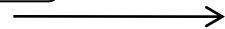




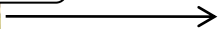
## Access Control – the SMARTFREIGHT demonstration



City policy



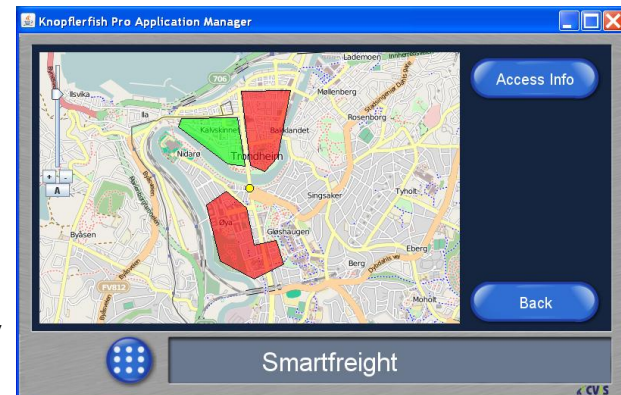
City policy



Roadside Unit



On-Board Unit



- Information: City policy
- Service interface:
  - *uploadCityPolicy(): CityPolicy*
  - *CVIS serviceAnnouncement()*
  - *getCityPolicy(): CityPolicy*
- Comparing vehicle properties with the city policy
- Communication: IPv6 / CALM FAST / CALM M5



## The Common Framework for ICT in Transport and Logistics

- Joint initiative
  - Eight European project in the 7<sup>th</sup> Framework Program
  - European Commission (DG INFSO, DG MOVE, DG RESEARCH)
- Supports interoperability between commercial actors and transportation network responsible
  - To make the best possible use of the available transportation infrastructure
- Builds on the Freightwise Framework – i.e. the ARKTRANS framework
  - Roles & Responsibilities
  - Functions & Processes
  - Information & Service interfaces



Thank you for the attention!

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