Architecture for C-ITS applications
in the Netherlands
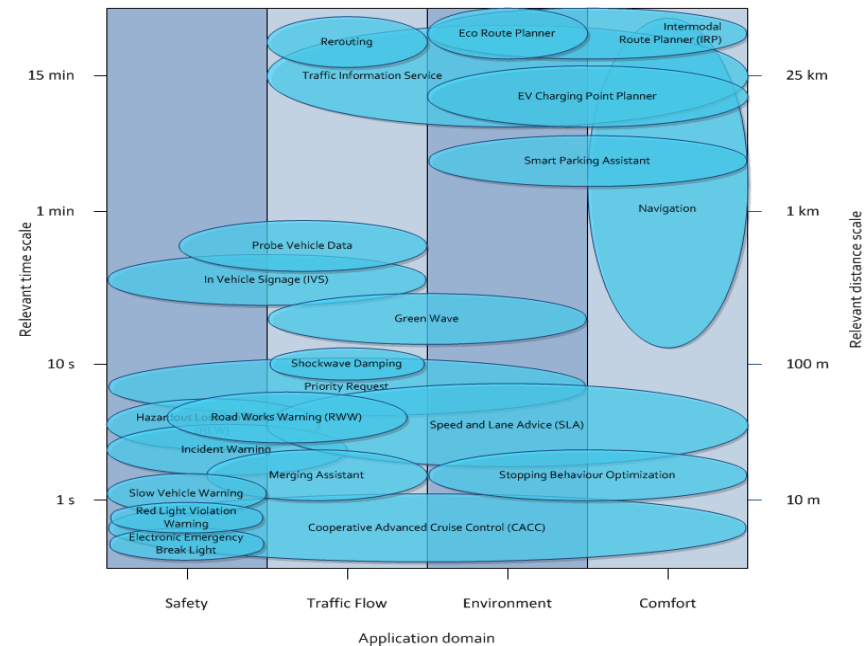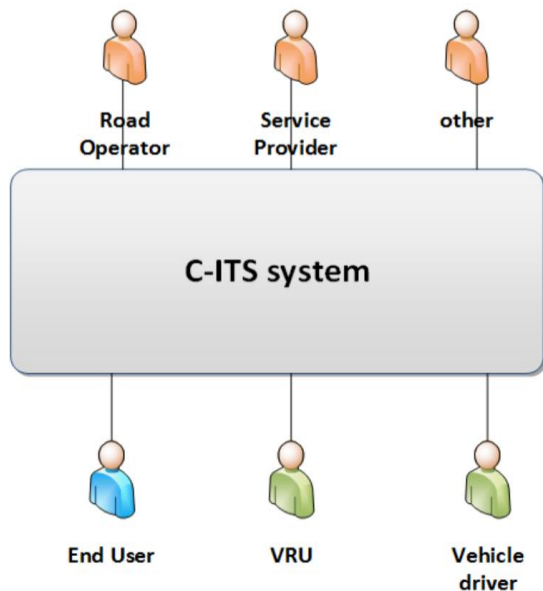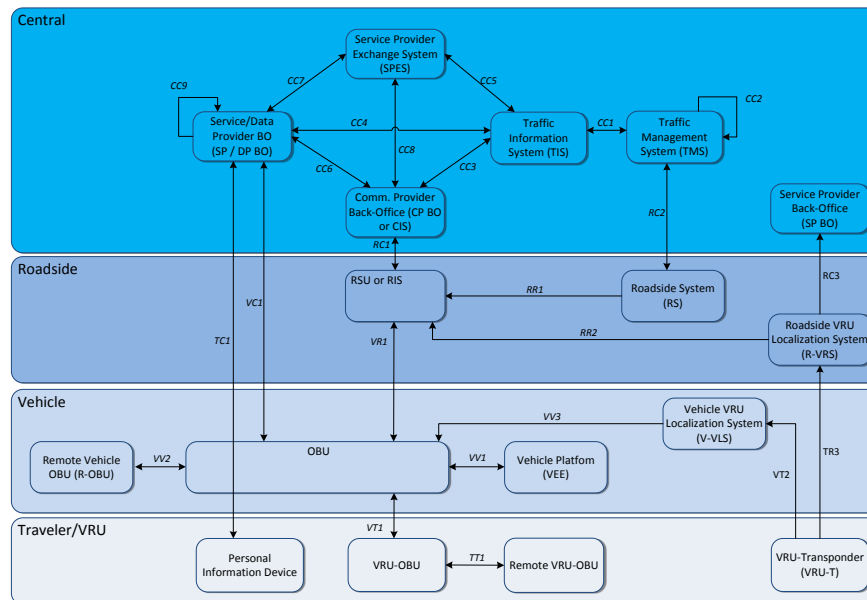
Objective

- Provide a high-level architecture
  - applicable to all applications and systems in scope.
  - Based on international standards
  - Dutch context

Key features

- Safety, Traffic management, comfort, and eco applications
- Multi stakeholder and business models
- Vehicle, Roadside, Back-office
- ITS G5 and cellular communication

C-ITS Architecture

Process

- Based on 2014 Architecture (DITCM)
- Input from Spookfiles A58, C-ITS Corridor, PPA and the iVRI
- Input from round table meetings
- Input from expert sessions

- Close collaboration with Dutch profile

Reference architecture

Different views

- Physical view
- Functional View
- Communication View

- Consistent component definitions and interfaces
- Helps in understanding how different projects implement similar functionality
    - Mappings provided for A58, ITS Corridor, iTLC, (PPA)

Implementation architectures

- Applicability of reference archtecture for implementation projects
  - too abstract
  - too complex
    - all applications
    - all implementation solutions

→ 2 example implementation architectures
  - Sample highway context
  - Sample urban context