



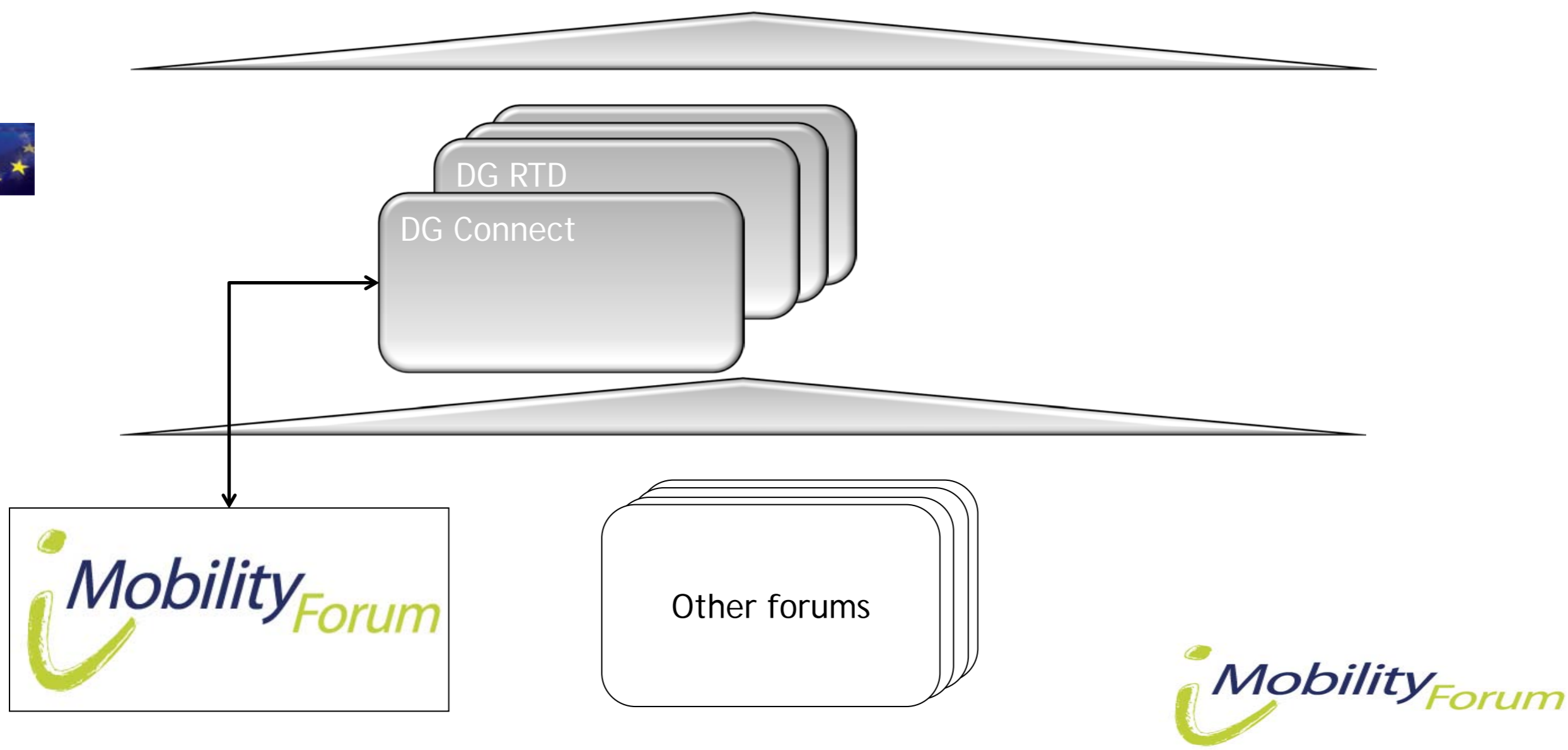
# [ iMobility Forum - *WG Automation in Road Transport*

Date: 25 July 2012

Meeting: TRB Vehicle Automation Workshop

Speaker and organisation: Joakim Svensson, Volvo

# [ EU public funding process



# [ *iMobility Forum*

## Vision

Safe, smart and clean mobility with zero accidents, zero delays, no negative impact on the environment and connected and informed citizens, where products & services are affordable and seamless, privacy is respected and security is provided.

## Mission

To work towards this vision, the Forum provides a platform for all ITS stakeholders in Europe to discuss, define, coordinate and support activities to further innovation, research, development, deployment and use of ICT based transport systems and services.

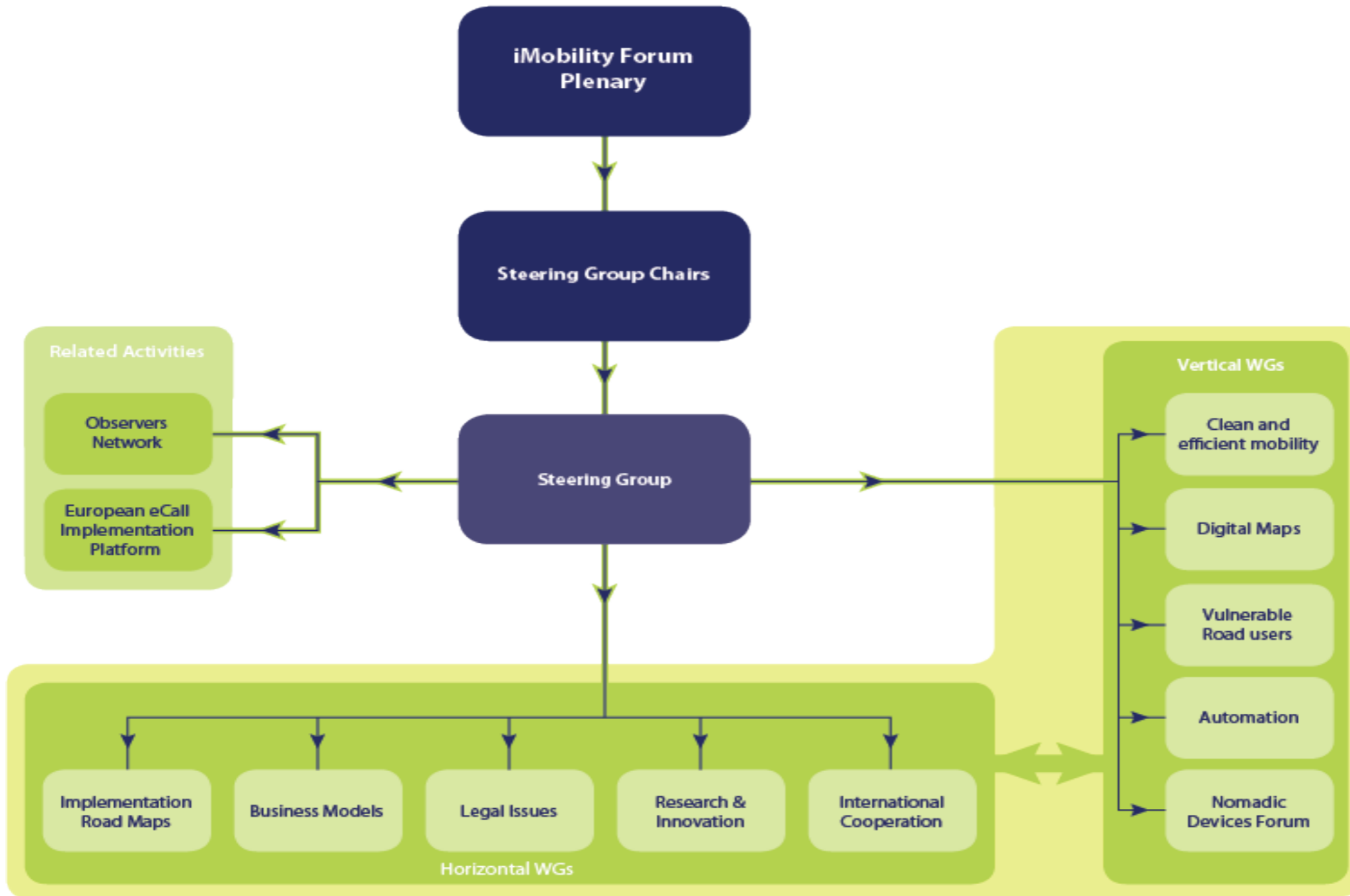
## Objectives

The new Forum objectives cover the period from 2010 to 2020. In the time period 2011-2020, the iMobility Forum estimates for ITS the following potential contributions:

- 30% reduction in the number of fatalities across Europe,
- 30% reduction in the number of seriously injured persons across Europe,
- 15% reduction of road traffic related congestion,
- 20% improvements in energy-efficiency,
- 50% increase in availability of real time traffic and travel information.

## Strategy

- Strategic focus will be on roadmaps, the overall development/ deployment processes and will cover requirements for all stakeholders along the whole value chain
- Ensure that all relevant stakeholders are participating in the Forum
- Stakeholder expert-driven proposals leading to recommendations



● Related activities under iMobility Forum    
 ● iMobility Forum Working Groups

# [ WG AUTOMATION IN ROAD TRANSPORT

## Mission

The mission of the working group on Automation in Road Transport is to identify how automation and its subsequent applications can help to improve efficient, clean, safe and reliable road transport now and in the future and what is needed to foster deployment and implementation.

## Objectives

Act as a forum for understanding the current state of the art in automation in Road Transport, explore and promote the potential of automation and applications for intelligent and sustainable mobility and providing a clear direction for the challenges of the future

## Strategy

The working group will focus its activities on the common agreement on one or more **roadmaps** for future developments in the area of automation in road transport. The working group will therefore make use of and apply **scenario's** to these roadmaps.

To achieve these objectives, the Working Group will:

- Translate the roadmap for automation into a working program that will be recognized and accepted by the ITS community
- Provide advice to the European Commission on Automation issues and research needs
- Maintain and update a comprehensive repository of the actual developments in the field of automation for road transport;
- Act as a platform to reach cross-sector agreement on issues relating to technology development and integration, standardization and the use of applications coming from increased automation in road transport;
- Organize an annual Workshop to discuss the findings and gather input from the stakeholders.

# Scenarios

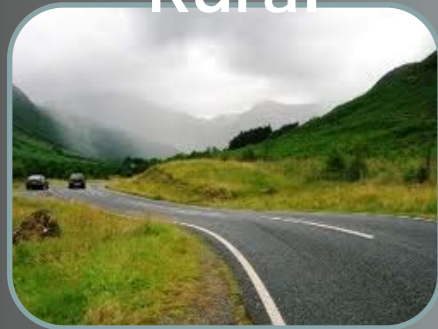
# Functions



## Highway



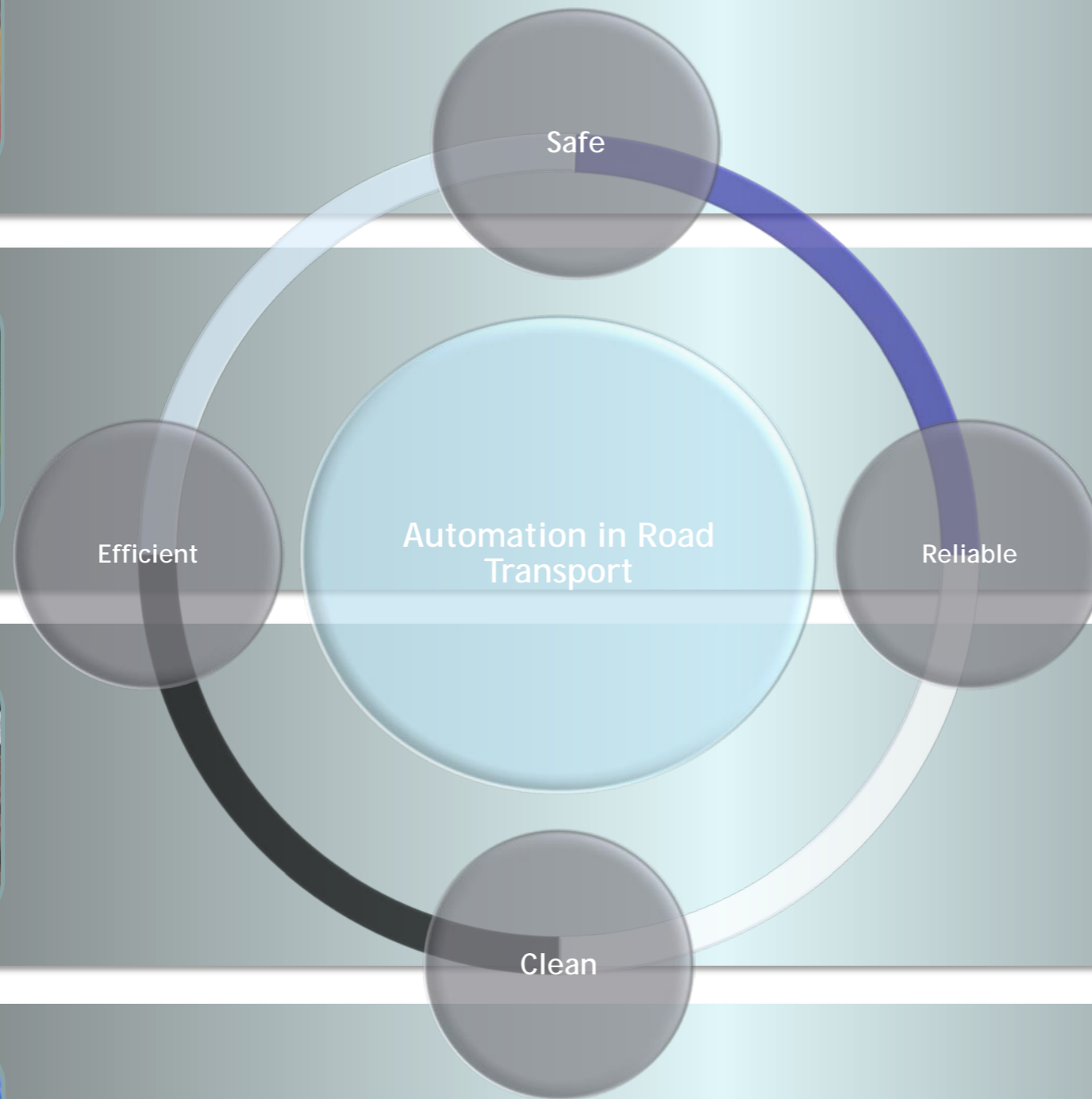
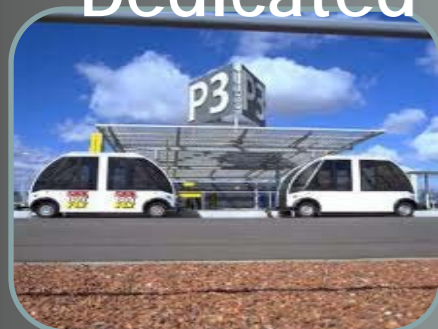
## Rural



## Urban



## Dedicated



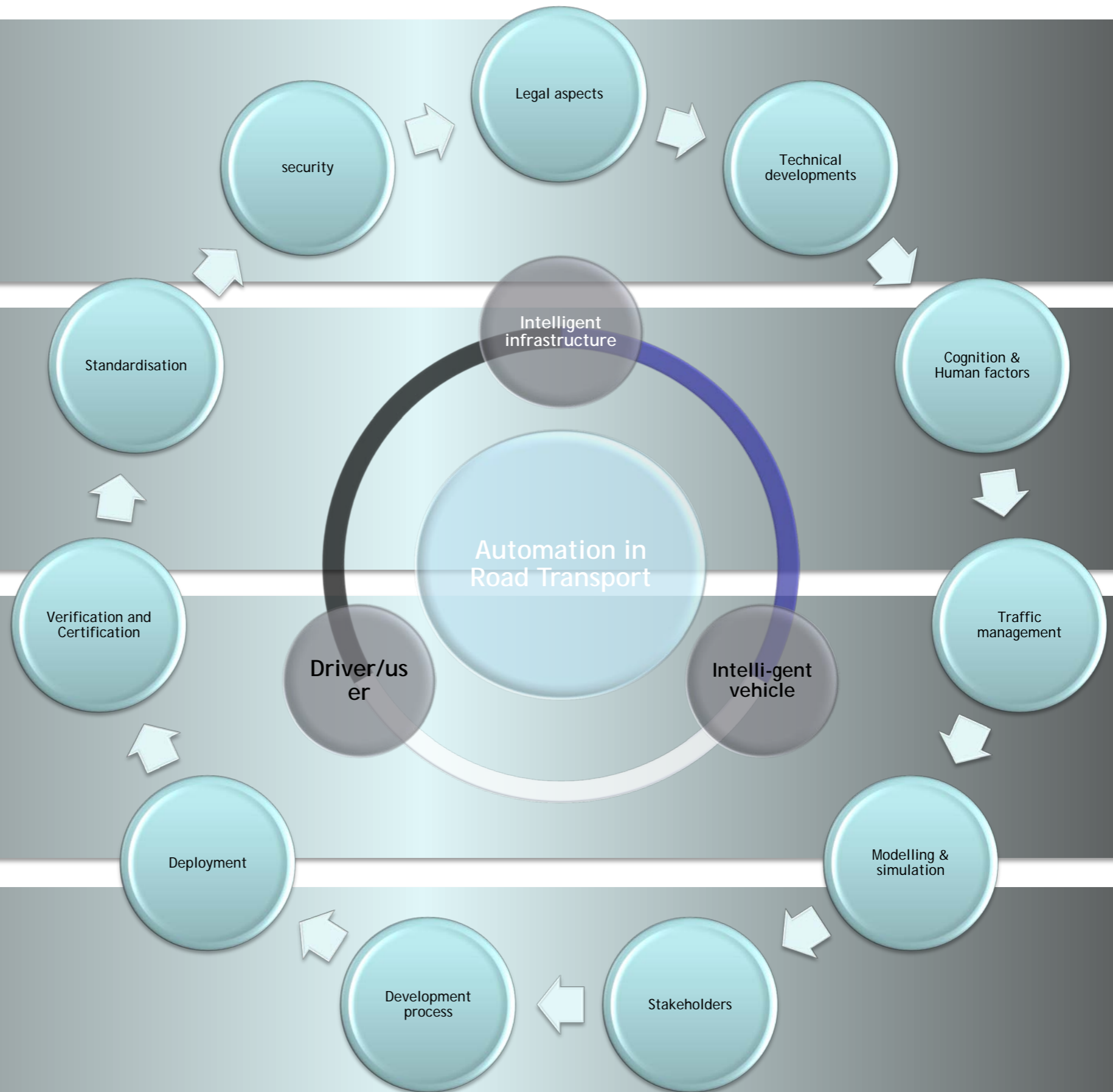
- \_ Emergency Stop Assistant
- \_ Automated Lane Keeping
- \_ Cooperative Traffic Jam Assistant
- \_ Road Works Assistant
- \_ Cooperative Advance ACC
- \_ Platooning by CACC
- \_ Cooperative Merge Assistant
- \_ Cooperative Overtake Assistant
- \_ Collision Avoidance
- \_ ...

- \_ Cooperative Advance ACC
- \_ Overtake Assistance
- \_ Intersection Assistance
- \_ Emergency Braking for VRUs
- \_ Emergency Stop Assistant
- \_ Collision Avoidance
- \_ ...

- \_ Emergency Braking for VRUs
- \_ Automated Parking
- \_ Lane Keeping
- \_ Cooperative low speed ACC
- \_ Intersection Assistant
- \_ Platooning by CACC
- \_ Automatic Manuevers at Bus Stops
- \_ Collision Avoidance
- \_ ...

- \_ Dedicated lanes for buses
- \_ Dedicated lanes for Platooning
- \_ ...

# Scenario's



# [ Output and Timetable



July 2012

September 2012

December 2012



Recommendations on process and approach

Recommendations on priority topics

Draft input to Horizon 2020



First draft roadmap(s) for automation in road transport

Terminology & Definition

Project repository



Revised recommendations for EC

Guidelines for working program

Open workshop on roadmap for automation