

# Needs - NRAs view



**Conférence Européenne  
des Directeurs des Routes**

**Conference of European  
Directors of Roads**

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# Overview

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Session 1 – Reducing costs and environmental impact, increasing efficiency and safety.

1. Who is CEDR?
2. Main challenges
3. CEDR and innovation
4. Implementing research outcomes.
5. Conclusion

# Who is CEDR?

- **C**onference of **E**uropean **D**irectors of **R**oads
- All countries on equal basis
- Annual rotating presidency
- Respects subsidiarity and distinct role from Ministries



Photo - DOI - Martin Attard

## CEDR's mission

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- To **analyse future developments** of the road system and its infrastructure as part of a **sustainable transport system** under the environmental, economic and social aspects and identify new challenges in order to promote common strategies.
- To promote international **networks of personal contacts** between Road Directors and their staff.
- To provide a **platform for understanding** and responding to common problems.
- To develop a strong **involvement in EU developments** on matters relating to the road system and its infrastructure.
- To use **existing representations** in relevant international groups for mutual benefit.
- To make **use of the results** of common understandings as well as research results in each member country.

# CEDR's current main challenges & focus of cooperation.



**Maintenance**



**Climate change**

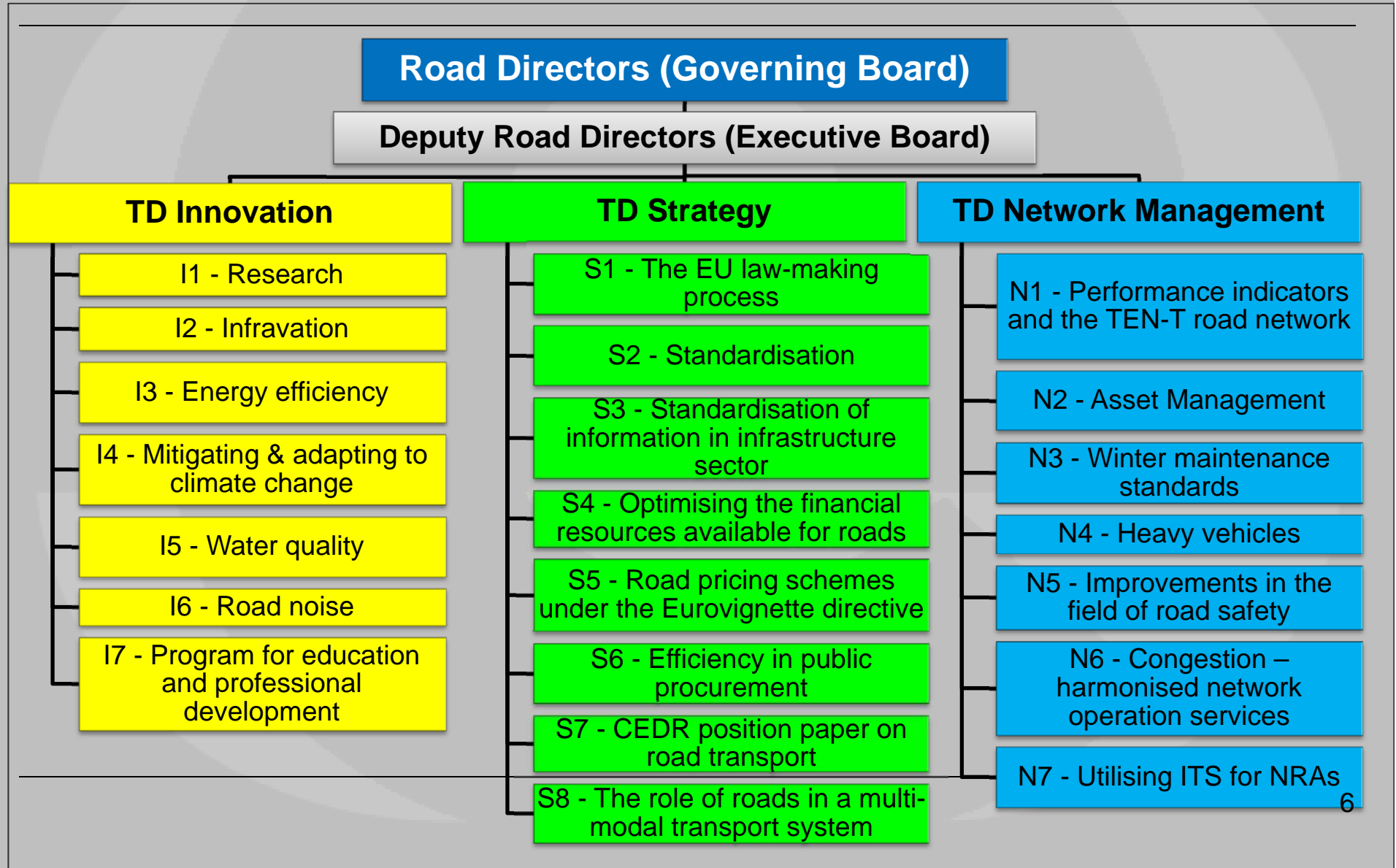


**Multimodality**



**Intelligent Transport Systems (ITS)**

# Task Groups 2013-2017



# Innovation 'history'

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- **WERD/DERD < 2003**
    - FEHRL SERRP 1 & 2
    - WERD projects – coordination of national resources
      - Telematics, Long-life pavements etc
    - EC Framework (incl COST) programmes
  
  - **CEDR 2003-2013**
    - ERA-NET ROAD ( 2005 - 2011)
    - Transnational Research programme (>2011)
    - Infravation (2014)
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- CEDR Transnational Research Programme
  - Research call 100% funded by NRAs
  - Solve problems of NRAs
  - €5M per year
- Infravation EN+
  - 2/3 funded by NRAs (incl USA), 1/3 EC
- Coordination of national research activities
- Dissemination, demonstration & deployment projects
- X-prize?



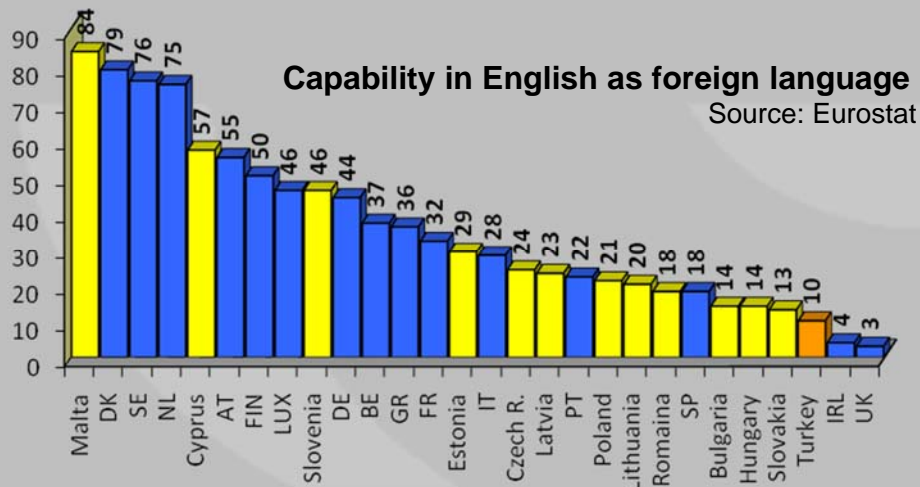
# Potential Implementation actions

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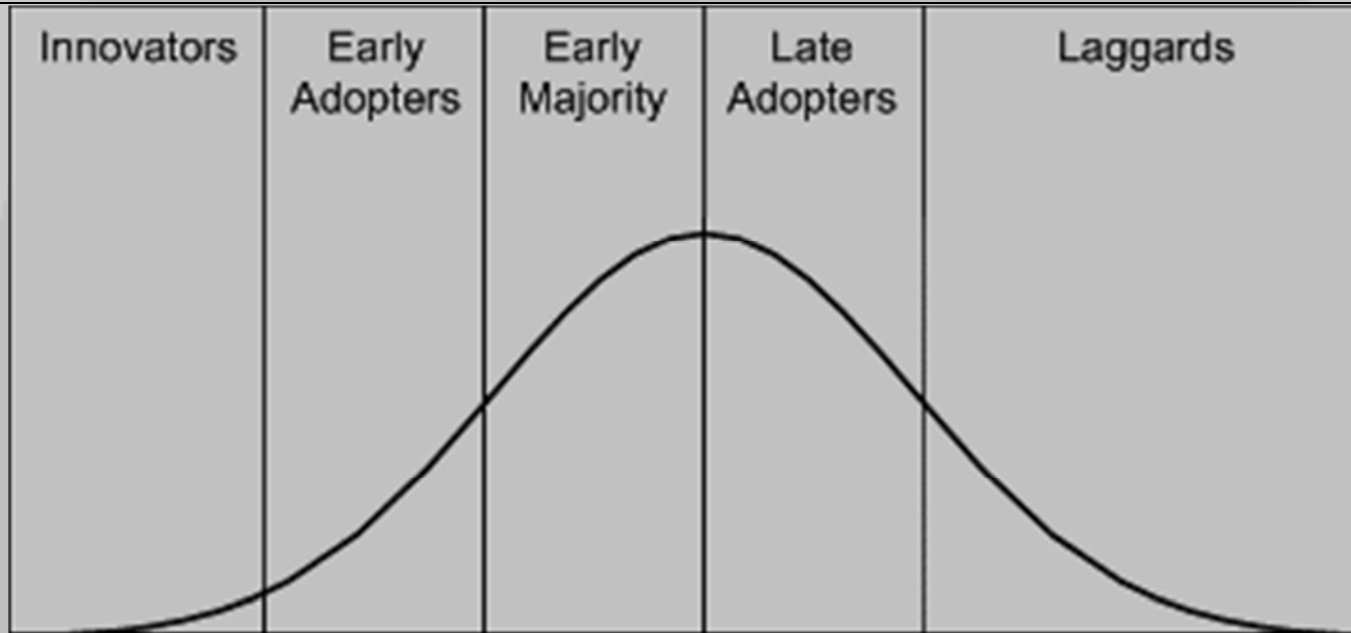
- **Procurement**
  - **Pre-Commercial Procurement**
  - **Public Procurement of Innovative Solutions**
    - **CHARM – Common Highways Agency Rijkswaterstaat Model**
      - » SoA and beyond Advanced Distributed Network Management
      - » SoA and beyond Advanced Traffic Predictions
      - » Support of Co-operative ITS Functions
    - **V-CON – Virtual Construction for Roads**
      - » Application of BIM
  
- **Standardisation**
  - Greater cooperation with CEN and industry

# Implementation - awareness

- Implementation focused on involved countries - ownership
- Example of extra money for case studies
- Final events largely for the 'in-crowd' – standalone



# Innovation adoption



Classes of Adopters

1. **Innovators**-well-informed customers who are able to try unproven product
2. **Early adopters**-usually educated opinion leaders
3. **Early majority**-careful consumers, who tend to avoid risk
4. **Late majority**-somewhat sceptical customers
5. **Laggards**-those who avoid change

## CEDR is....

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- Organization of and for, Road Directors
- Addressing the common needs of Road Directors
- Practical solutions
- Looking to bridge the barriers between research and implementation



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# Thanks for listening

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