

Road Authority support to the deployment of C-ITS

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EU EIP workshop

22nd of November 2017, Brussels



Content



- 1** First, Road Authorities challenges and opportunities
- 2** Second, C-ITS deployment to connect missing dots and solve road transport issues
- 3** Third, Conclusions





Finnish Transport Agency





Accidents



Millions of kilometers
of national roads in
Europe



Average car age in
Europe 8 years



Congestion and
emissions



Extreme weather



Road Authority opportunities

Support Organizations

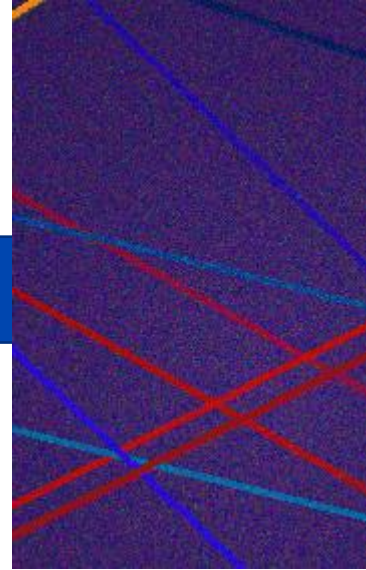
Startup Ecosystem

- ideas, inventions and resources
- startups at various stages
- entrepreneurs
- startup team members
- investors
- mentors
- advisors
- other entrepreneurial people
- people from related organizations

New ecosystems with market evolution



Automatisation, Mobility services, electricity



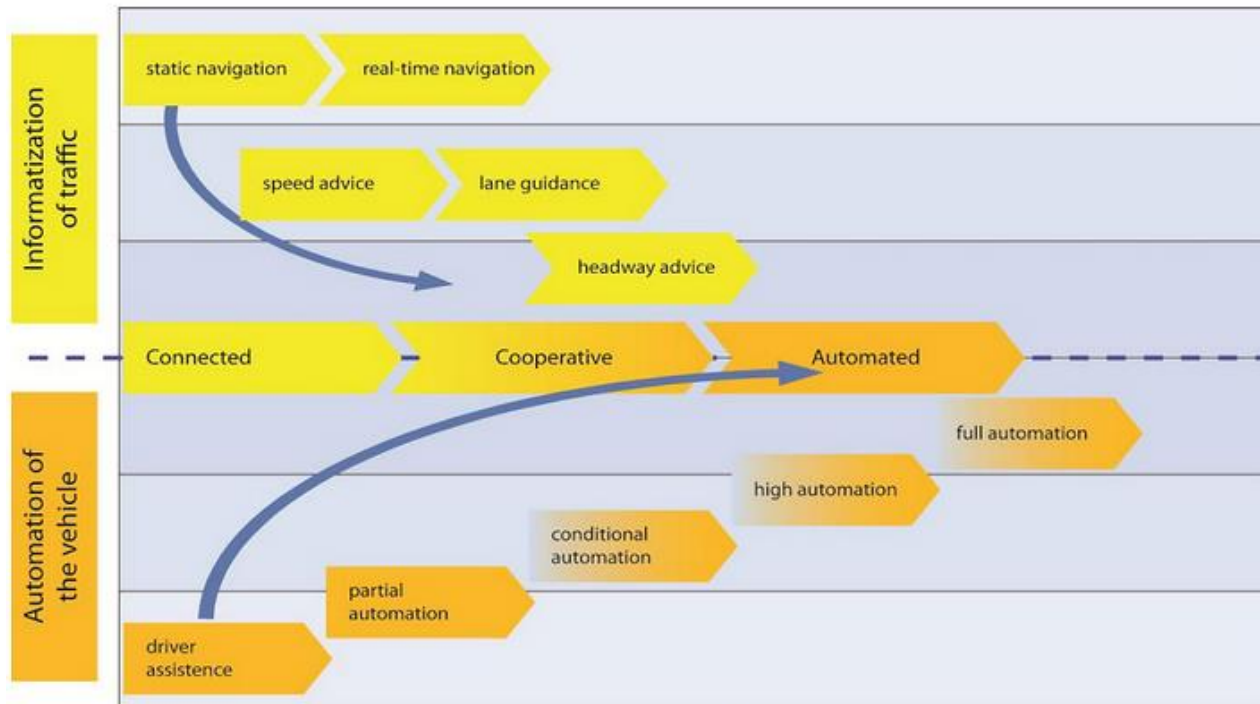
Digitalisation



Digital and physical infrastructure – Cooperative and Connected



Cooperative, Connected and Automated Mobility merging



Connected, cooperative and automated driving developments should come together to harvest societal benefits.



Co-financed by the European Union

Connecting Europe Facility



European C-ITS – harmonised deployment by 16 member states



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Example from Finland: Road transport automation road map and action plan 2016–2020

- Use cases to five domain:
 1. Infrastructure
 2. Pavement and equipment
 3. In-vehicle systems
 4. Services and functions
 5. Driver

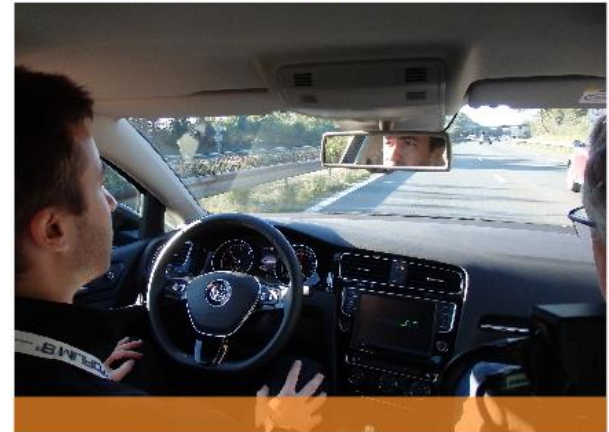


Research reports of the Finnish Transport Agency
19eng/2016

Aki Lumiaho
Fanny Malin

Road Transport Automation
Road Map and Action Plan 2016–2020

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Expected safety and socio-economic benefits with C-ITS – NordicWay results



- C-ITS evaluation results from the NordicWay project
- Key findings in Risto Kulmala's presentation, here in short:
 - **Acceptance:** positive feedback from the users and Traffic Management Centre
 - **Behaviour:** indicative results of safety benefits
 - **Technical:** hybrid communication tested with good results; cellular and ITS-G5 hybrid communication mix in cloud architecture
 - **Socio-Economics:** benefits expected, over two times per investment costs



Cooperative ITS for road users: safety, reduced travel time, comfort of traveling, the environment and better services

• Thank You!

