



The EU Framework Programme for Research and Innovation

HORIZON 2020

**Smart, green and
integrated Transport**

***Work Programme
2016-2017***

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European Commission DG MOVE
Torino, 24.2.2017**



Transport main challenges

- **GHG emissions – climate + health impacts**
- **Oil dependency - volatile oil prices**
- **Congestion – liveability of cities**
- **Infrastructure capacity vs mobility demand**
- **Urbanisation – role of public transport**
- **Demographic trends – ageing populations/migration**
- **Global competition**

Resource efficiency vs. climate change and oil dependency

Transport accounts for 32% of all energy consumption

- **Boost alternative fuels and infrastructure**

Curb noxious emissions, improve air quality

24% of CO₂, 20% of GHG come from transport

400 000 premature deaths in EU, 1/5 due to transport

- **Achieve the 2030 energy-climate targets: GHG -40%, 27% renewables, 27% energy savings**

Network capacity and modal shift vs saturation and congestion

Congestion costs: 1 to 2 % of GDP

- **30% of road freight > 300 km moving to rail/water by 2030**

Smart solutions for safety and security

26000 road fatalities/year

- **Vision zero: ½ road fatalities by 2020 (vs 2010), towards none by 2050**

Fierce international competition

Expanding markets but shrinking market shares

- **Innovate to preserve market-shares and jobs**

Objectives of Societal Challenge 4 'Smart, green and integrated Transport':

Achieving a European transport system that is

- resilient
- resource-efficient
- climate and environmentally friendly
- safe
- seamless
- competitive

...and that benefits citizens, economy and society

Four lines of activities:

1. Resource efficient transport that respects the environment
2. Better mobility, less congestion, more safety and security
3. Global leadership for the European transport industry
4. Socio-economic and behavioural research and forward looking activities for policy making

➤ ***6339 M € for 7 years 2014-2020***

➤ ***50/50 JTIs/collaborative calls***

- *Clean Sky*
- *SESAR*
- *Shift2Rail*
- *Fuel Cells & Hydrogen (contribution)*



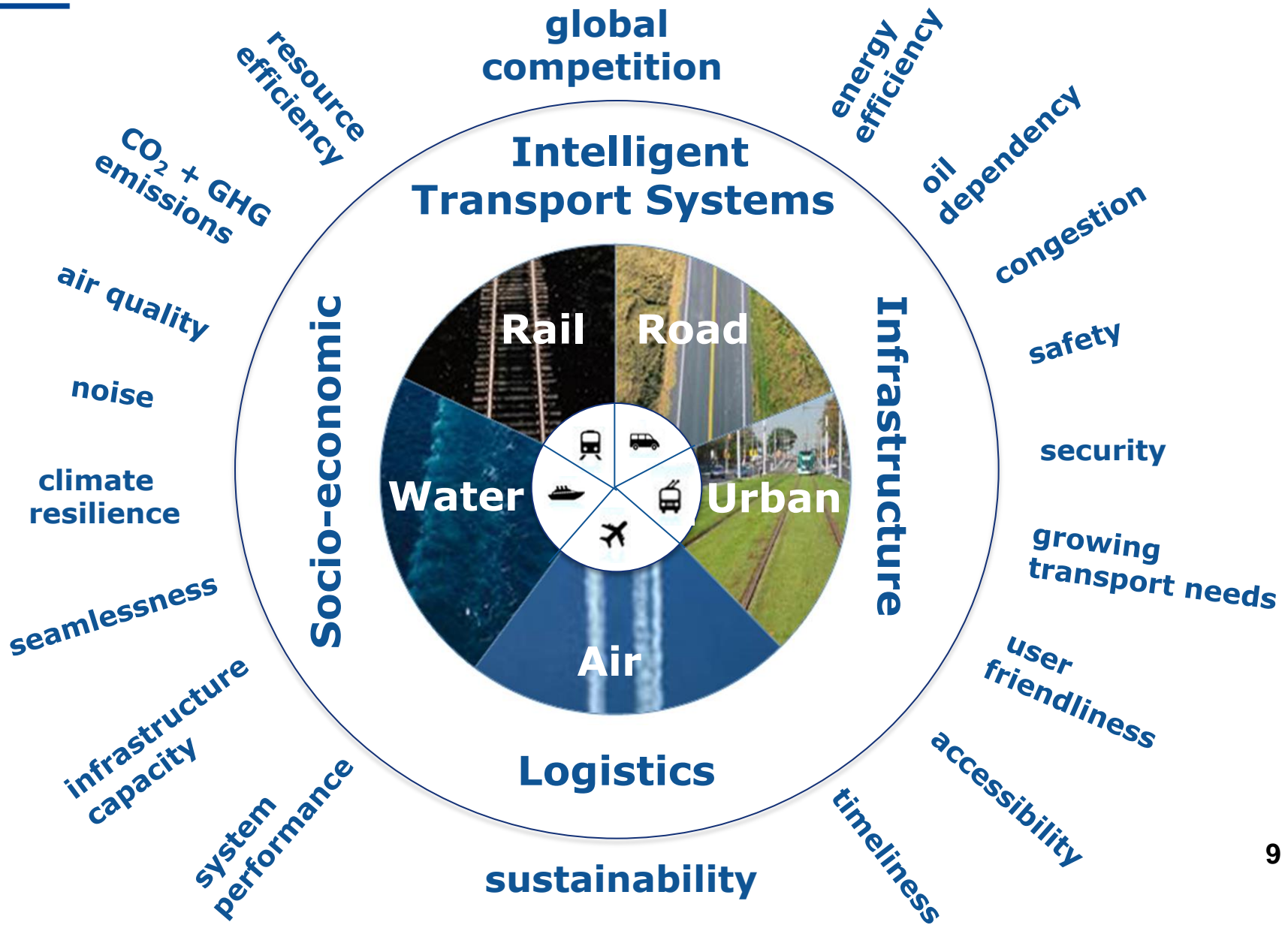
- **Public calls, competitive selection, peer review**
- **Multi-partner transnational consortia**
- **Evaluation criteria:**
 - *Excellence, impact, implementation*
- **Work Programme cycle:**



Types of Actions

Actions	Participants
<p>Research and Innovation Actions (RIAs) Main focus on research</p>	<p>Consortia of min. 3 partners from 3 different countries</p>
<p>Innovation Actions (IAs) Main focus on close-to-market activities</p>	
<p>Coordination and Support Actions (CSAs) Focus on coordination and networking of R&I projects, programmes and policies</p>	<p>Single entities or consortia</p>

Transport means, modes, systems, policy goals and societal challenges



Global challenges call for global solutions

- Emissions, pollution, climate impact
- Oil dependency, energy efficiency
- Transport safety and security
- Standardisation of services, products and procedures

...



Local issues benefit from exchange of best practices

- Traffic congestion
- Land use planning
- Behavioural issues

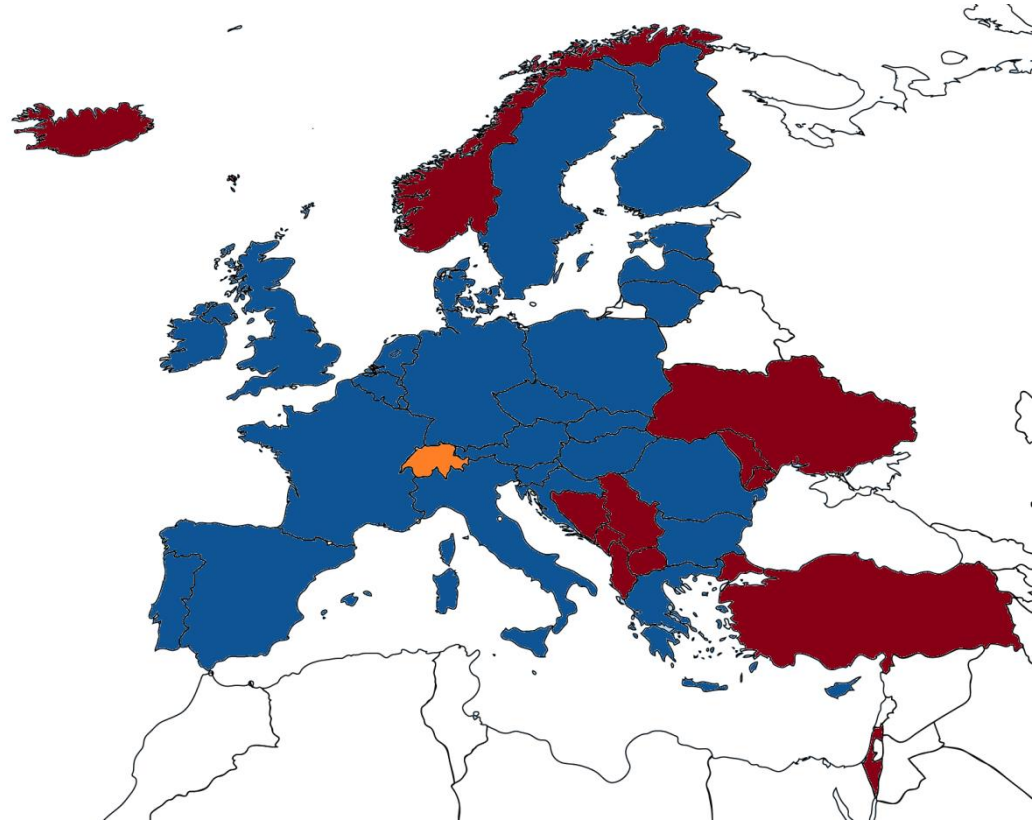
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28 Member States

12+1 Associated Countries

- Iceland
- Norway
- Albania
- Bosnia and Herzegovina
- FYROM
- Montenegro
- Serbia
- Turkey
- Israel
- Moldova
- Faroe Islands
- Ukraine (*excl. Crimea*)
- Switzerland (*partial: not for transport*)



Participants from any other Country can participate

Those from developing Countries can also get funded

Twinning

- In some topics, proposals should foresee twinning with entities participating in projects funded by US DOT
- EC funds European projects, DOT funds the US ones
- DOT (or its Funding Agencies) identify US projects for twinning
- Projects on both sides agree on twinning activities and respective efforts
- Freedom to choose forms of collaboration (examples: exchange of information, data, visits, methodologies, researchers, results; joint workshops, publications etc.)

2018-2020 WP:

- Systemic approach = beyond modal specificities
- Research + Innovation = greater impact

...and novelties

- Cross-cutting headers
- Cross-cutting consortia
- Systemic proposals
- User-centric solutions

Thank you for your attention



Find out more:

www.ec.europa.eu/research/horizon2020

www.ec.europa.eu/research/participants/portal/page/home

www.ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/11.%20SC4_2016-2017_pre-publication.pdf