



# Towards User-centric transport in Europe



Brussels  
23 April 2017

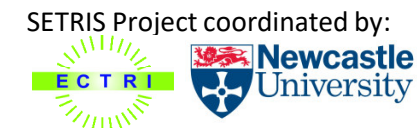


## SETRIS

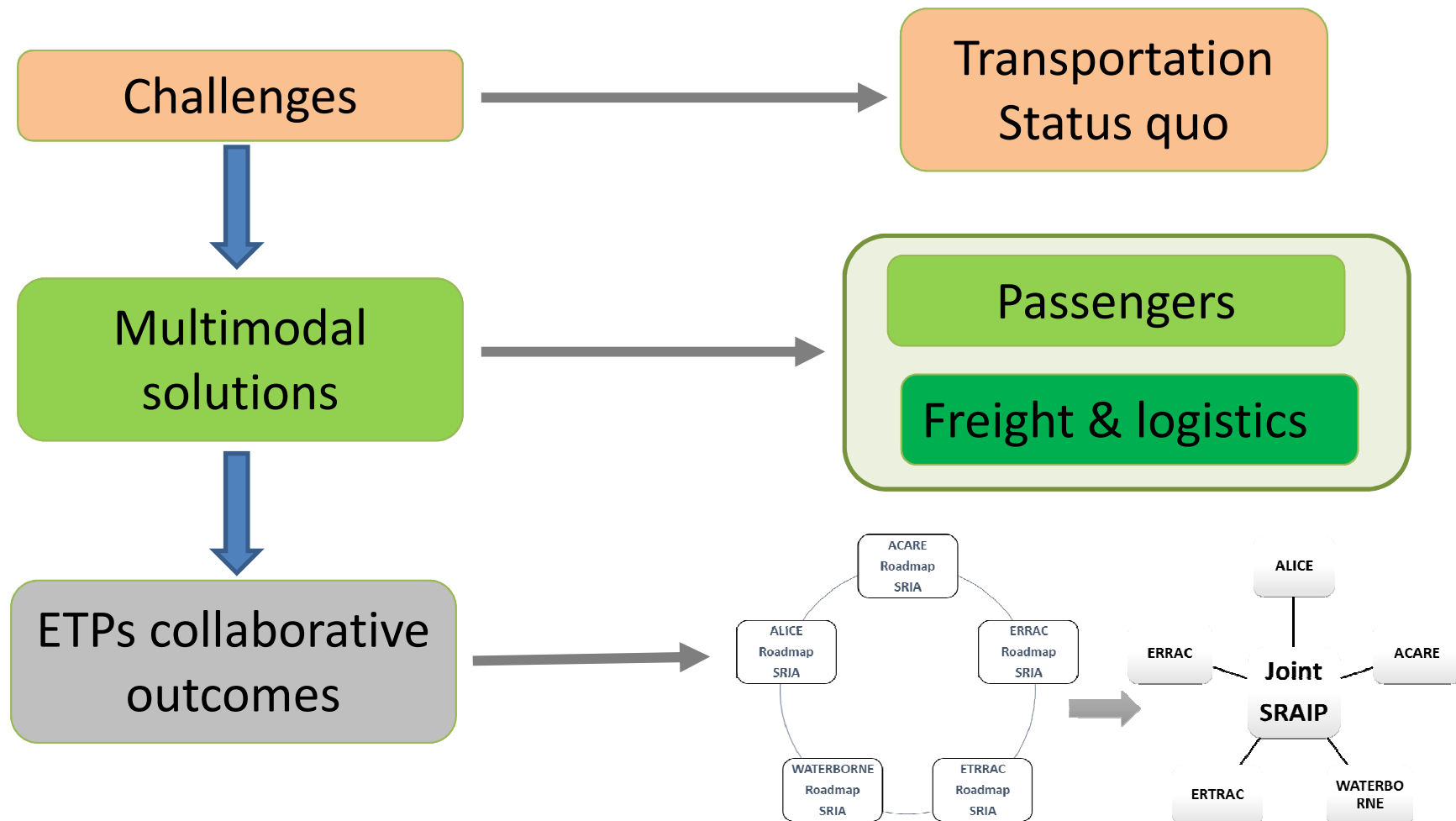
**Strengthening European Transport Research and  
Innovation Strategies**

**A collaborative approach to develop multimodal research and  
innovation strategies**

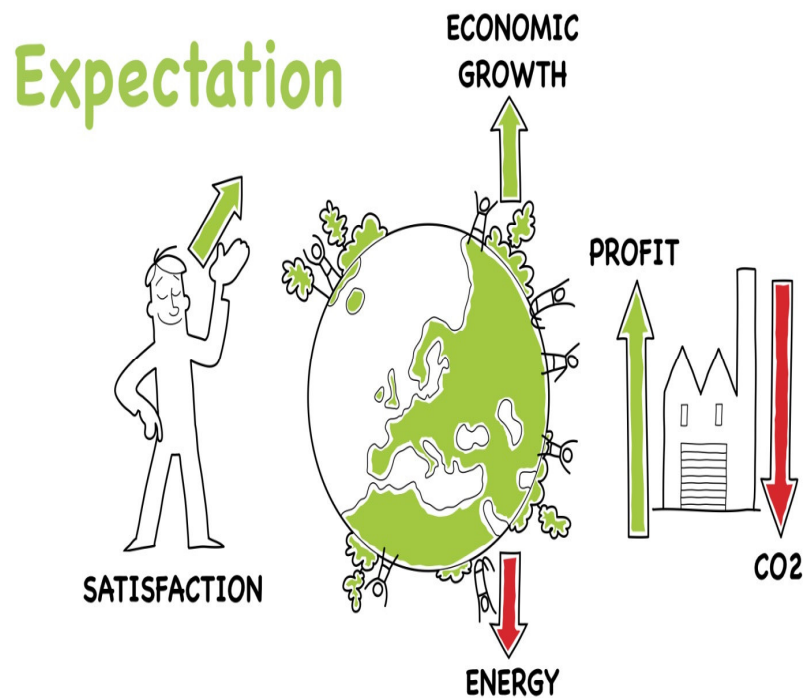
**Prof. Mark Robinson  
ECTRI and Newcastle University**



# SETRIS – Challenges to Solutions



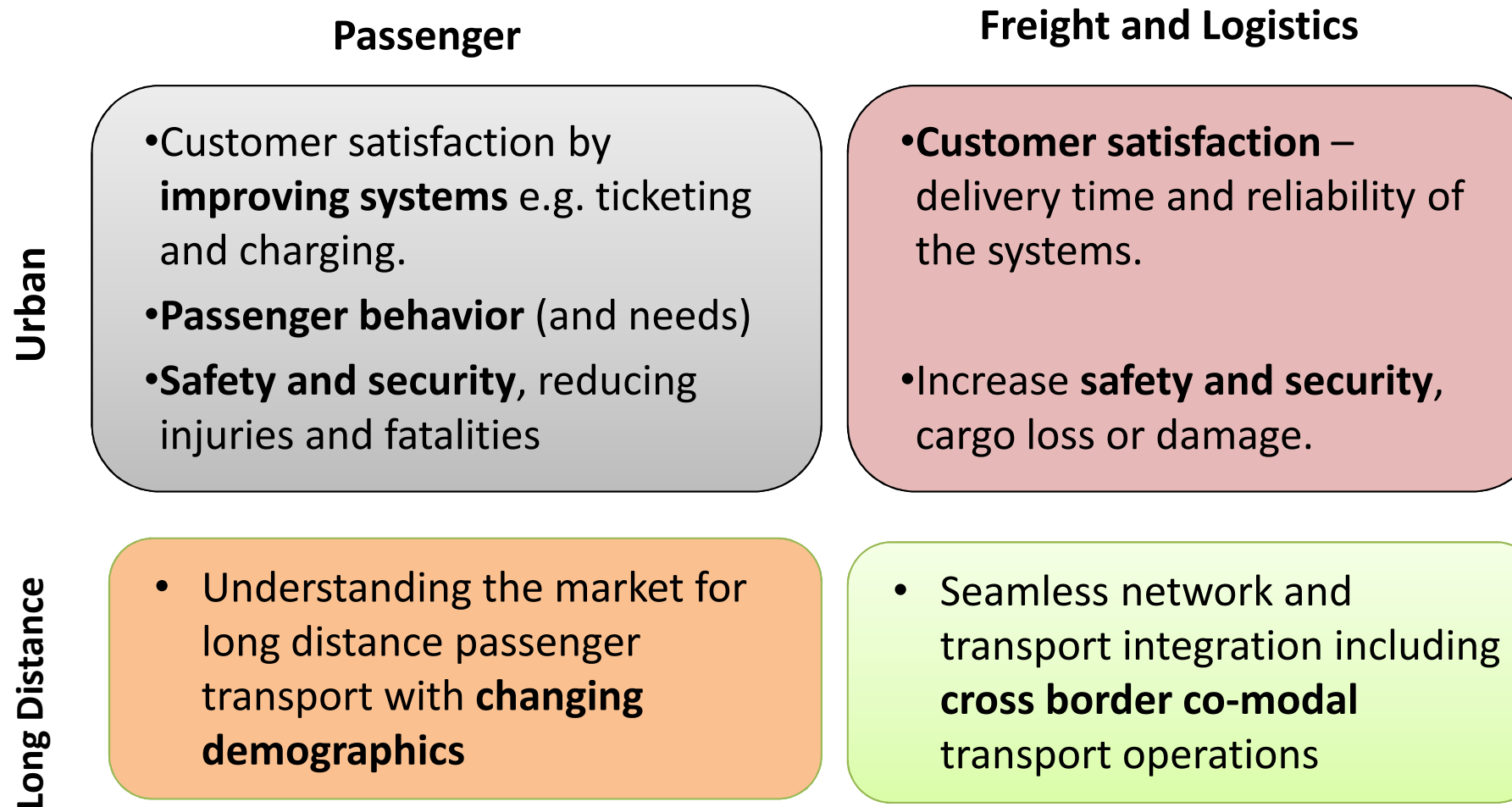
# Challenges identified by all ETPs



- **Competitiveness** of EU transport stakeholders
- Decision to **decarbonise transport**
- Information technology - **new opportunities and threats** e.g. cyber security and big data
- **New mobility** systems/services concepts
- Progress towards an **integrated transport system** is slower than expected
- **Security and Resilience** of transport systems



# Specific Challenges



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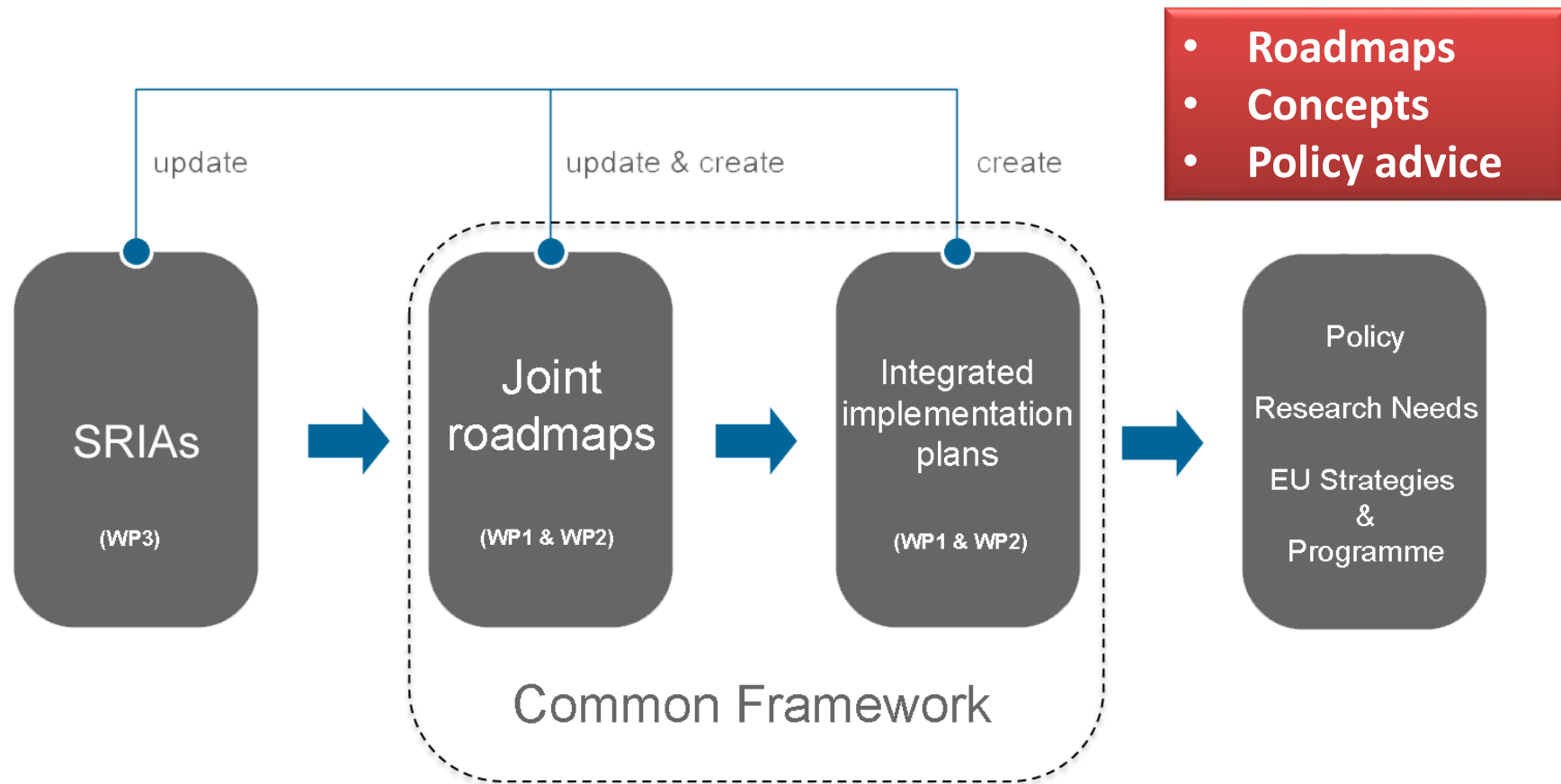


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# SETRIS Solutions





The SETRIS project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653739



# Integrated transport Enablers - Passengers

## Integrated transport infrastructure data/information systems

- Active infrastructure;
- Common data meta-information architecture;
- Data/information sharing - developing the meta-information layer;
- Data/information security

## User information management

- Transport user expectations and acceptance factors;
- Market opportunities and acceptance factors;
- Coordinated travel process management;
- Disruption and recovery management

## Safe and secure transport infrastructures and operations

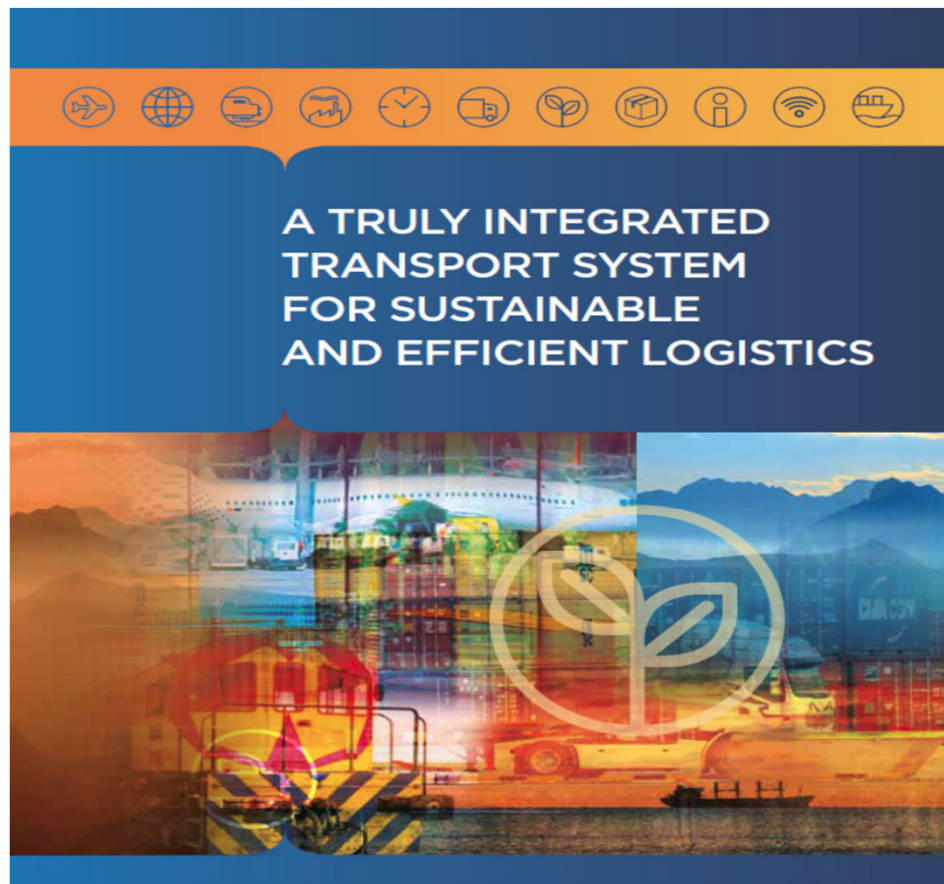
- Advanced safety technology;
- Advanced safety management systems;
- Advanced security systems



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# Truly integrated transport- Freight & Logistics



- **Important definition developed**  
A **truly integrated transport system for sustainable and efficient logistics** is based on an open and global system of transport and logistics assets, hubs, resources and services operated (in an open environment and framework conditions) by individual companies. They are fully visible and accessible to market players hence creating a network of logistics networks. Coordination of logistics, transport, infrastructure and supply networks aim to move, store, supply and use physical objects throughout the world in a manner that is economically, environmentally and socially efficient, secure and sustainable. The system will be based on physical, digital, and operational interconnectivity, enabled through modularization as well as standardisation interfaces and protocols.



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# End-to-end logistics Enablers

- Reaching consensus and support from all transport and logistics stakeholders.
- Current development on robotics for logistics and autonomous operations.
- Autonomous transport.
- Internet of Things.
- Big Data.
- Crowdsourcing and sharing economy.
- Fast evolution of interoperability towards easier connectivity of independent ICT systems.
- Leadership and entrepreneurship.



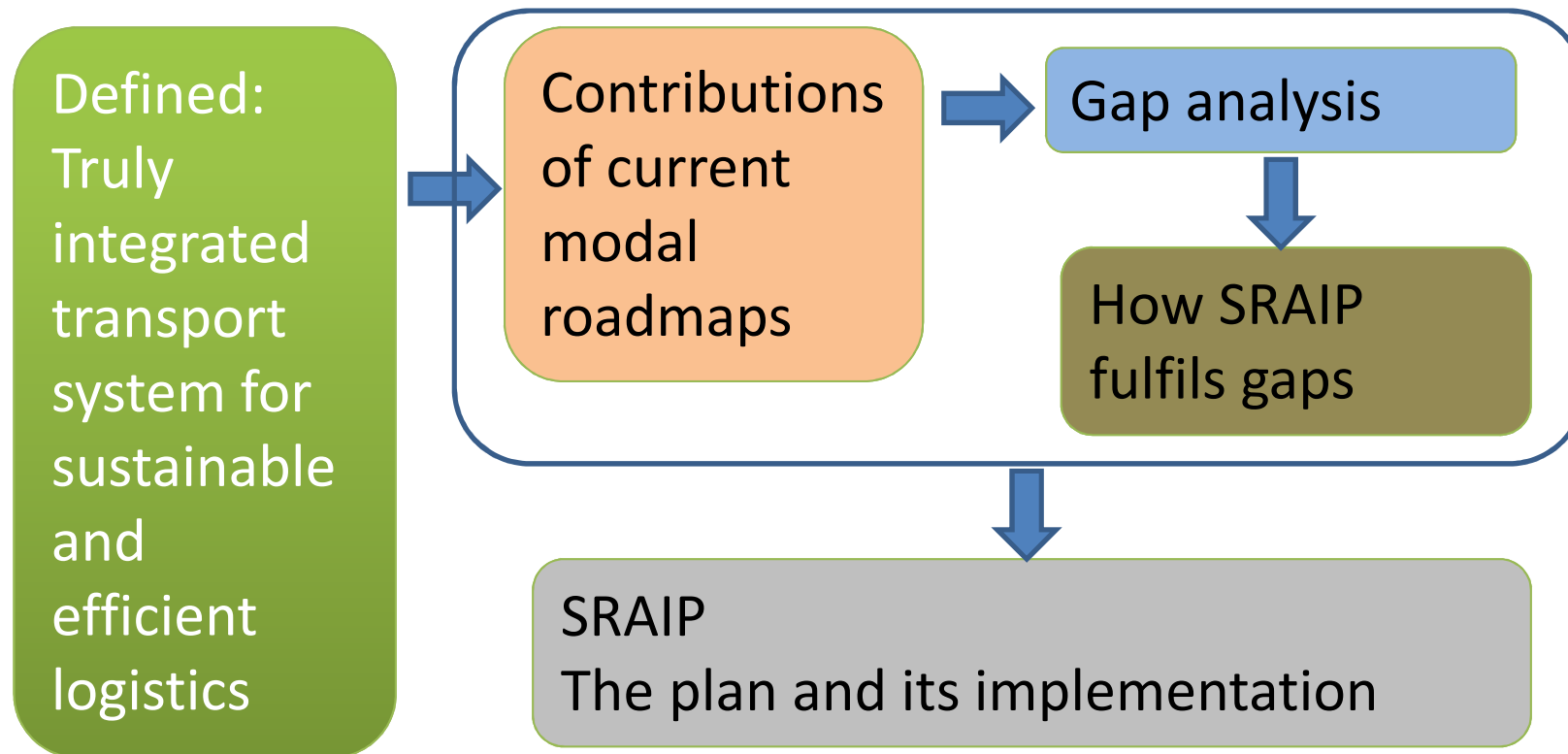
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# Process to Multimodal SRAI Plan (SRAIP)

- Moving from defining “truly integrated transport for sustainable and efficient system” to SRAIP



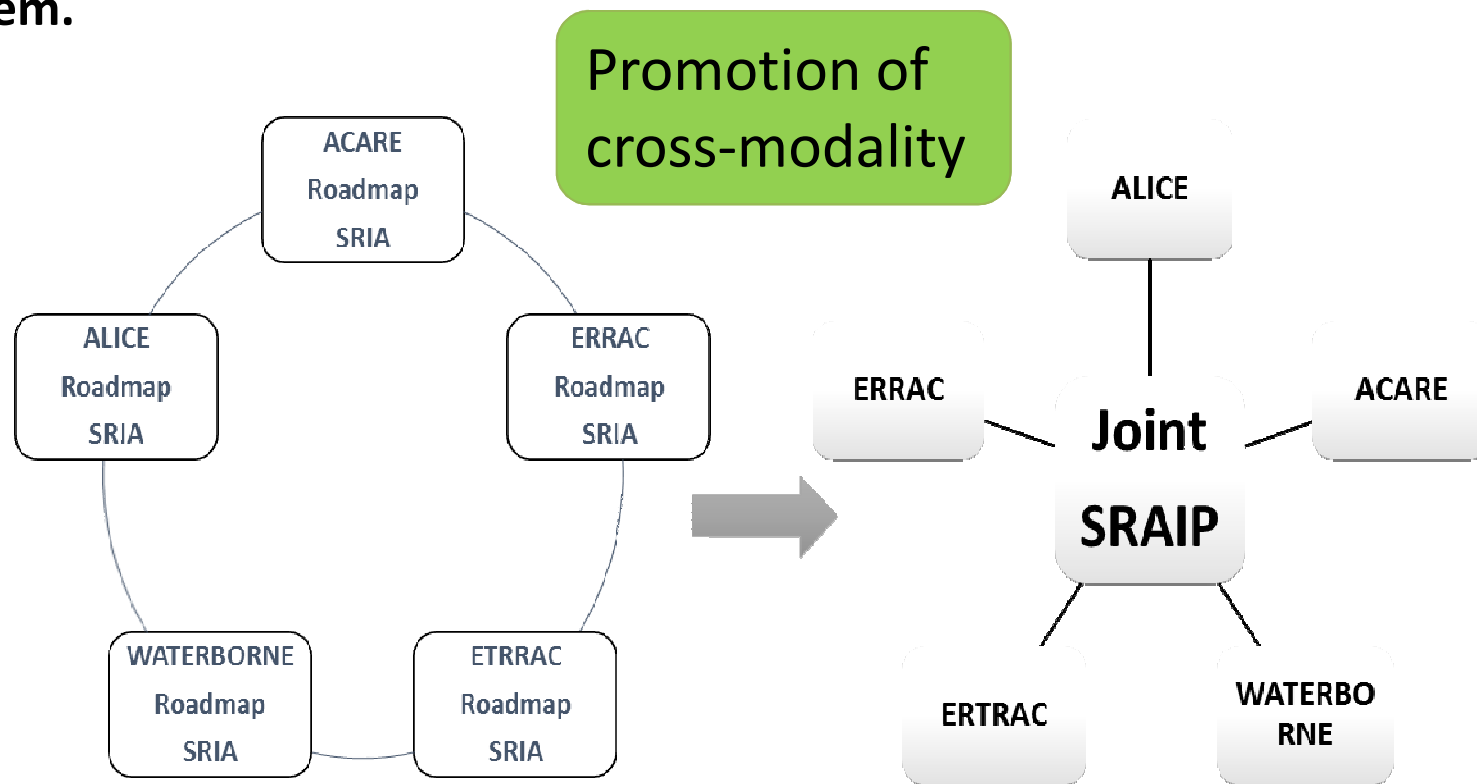


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# ETP Collaborations

- The contributions of the different transport European Technology Platforms, ETPs, to the achievement of the truly integrated transport system.



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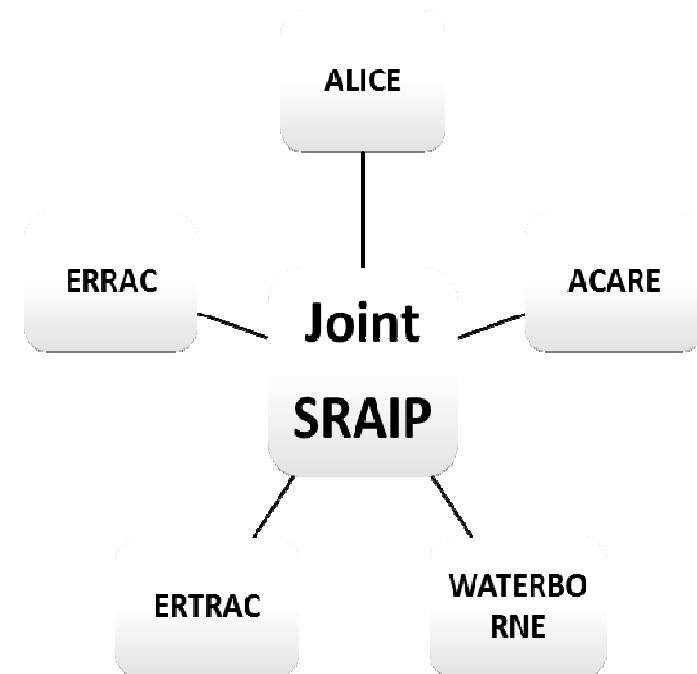


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# Impact of ETP collaborations

- Optimised the research and innovation capacities of Europe in the transport sector
- Improved communication, dissemination and use of results
- Well defined relevant transport policies



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**WATERBORNE**  
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# Thank you for your attention!



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