FINAL CONFERENCE
Madrid, 21st – 22nd September 2017
The transport challenge of 2030/2050

C4R Context

- In 2011, the White Paper on European Transport assigned ambitious challenges to the transport system, in terms of development, durability and competitiveness.
- In this context, the railway system has a major role to play in this transport system of tomorrow.
- But, the railway sector has to take a leap forward. Efforts must therefore be focused on increasing the attractiveness of rail system.

*How to obtain an affordable, adaptable, automated, resilient and high capacity railway for 2030 and 2050?*
C4R- consortium
SP1-Infrastructure

To increase **capacity**, **availability** and **performance** of the railway system through step changes in the infrastructure design, including advanced monitoring.
SP4 Advanced monitoring
To develop new concepts for railway structural and operational monitoring, in order to enhance the availability of the track, combined with automated maintenance forecasts and a prediction of the structural lifetime.
SP2 New concepts for efficient freight systems
SP2- Freight

To promote the designing of a modern, automated, intelligent, fully integrated system for **efficient, reliable and profitable** freight operations.
SP3 Operations for enhanced capacity
To develop tools and algorithms for supporting decisions during planning and operations of railway networks in order to increase capacity while providing resilience, affordability and adaptability by introducing different levels of automation.
SP5 System assessment and migration to 2030/2050
Development and assessment of scenarios to migrate from current to future situation.

✓ Assessing of scenarios and technologies developed under the different SPs
✓ Performing demonstrations
Thank you for your kind attention