

Guidelines and plans prepared by the multidisciplinary team of experts will provide transport authorities and managers with a **solution to anticipate, absorb, adapt and rapidly recover from disruptive events, benefiting all end-users.**

**FORESEE** improves management of strategic engineering assets, integrating Situational Awareness Systems based on satellite and terrestrial data acquisition tools for the analysis and assessment of hazards. **Our research will support planning and maintenance of infrastructure,** developing new methodologies for design of permeable pavements, slope stabilization, innovative drainage and culvert systems as well as transport interconnections.

Case studies will be validated in real demonstrations in Italy (Motorways A16 and A24), Germany (high-speed line Hannover-Berlin), Spain (M30 Ring Motorway in Madrid and the Montabliz Viaduct in Cantabria) and Portugal (25th April bridge in Lisbon).



# FORESEE

PROJECT

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**European research for a stronger and more resilient multimodal transport infrastructure**



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PROJECT

***FORESEE***  
*is funded by  
Horizon 2020  
to develop a  
toolkit able to  
improve road  
and rail asset  
management  
schemes,  
achieving  
highest levels of  
safety, security  
and comfort.*



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**Establish** new preventive maintenance strategies including any human (i.e. accidents) or natural hazards (extreme weather conditions, landslides, earthquakes)



**Predict**, alert and manage potential risk scenarios at different time scales, considering age, conditions and the residual life of engineering components



**Minimise** the socio-economic impact on critical transport assets (bridges, tunnels, pavement, slopes and logistic terminals) for transport authorities and infrastructure operators after disruptive events



**Facilitate** the deployment of contingency protocols to ensure mobility, evacuation and emergency operations for end-users, including citizens and freight



**Demonstrate** positive cost-benefit balance associated with resilience investment during the full lifecycle of the infrastructure