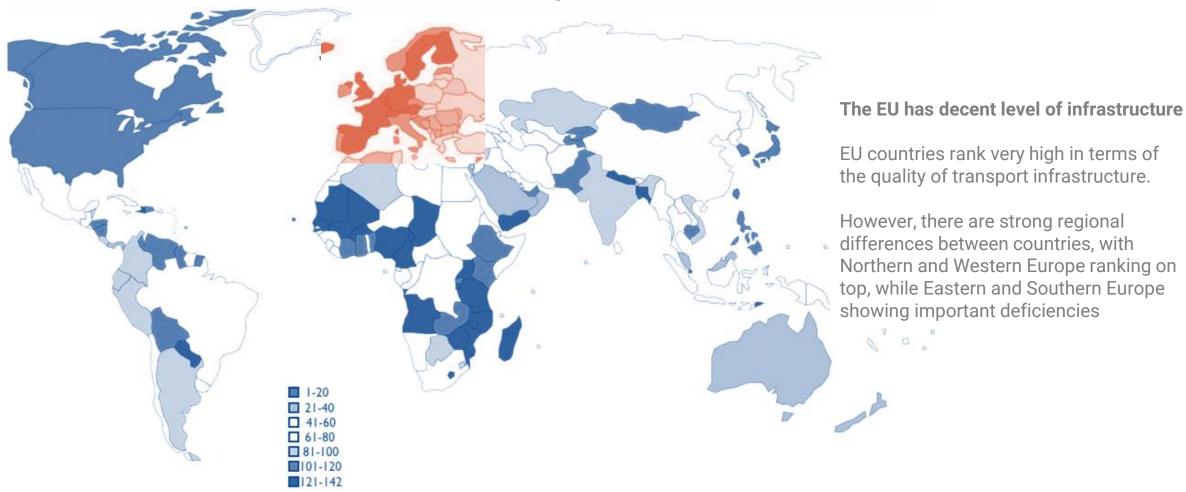
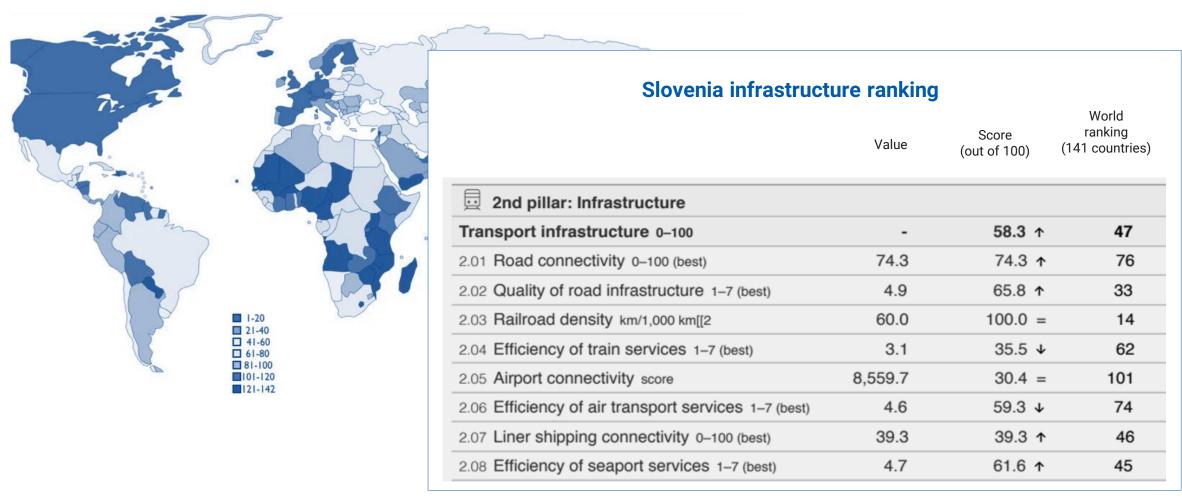


Scene setting: The EU in general has good transport infrastructure





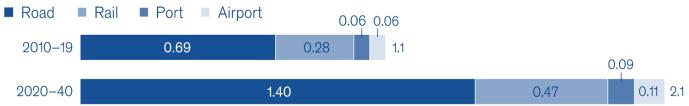
Deep dive: Slovenia has some key gaps in transport infrastructure

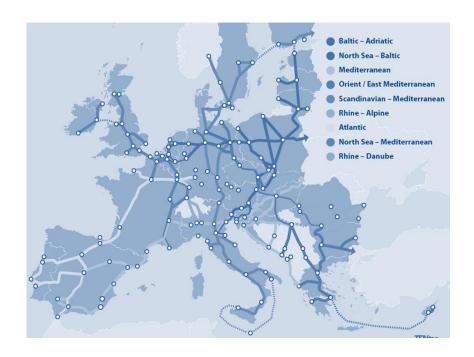


Outlook: about EUR 2 tn per year will be needed in transport infrastructure worldwide

Policies & trends impacting transport infrastructure

Average annual investment in transport infrastructures required, \$ trillion





Growing passenger and freight transport demand

From ~53 trillion pkm¹ in 2015 to 105 trillion—125 trillion pkm in 2050; from ~135 tkm² in 2015 to ~280—350 tkm in 2050

Urbanization

From ~30% of urban population in 1950 to ~55% in 2018 and ~70% in 2050

Stimulus plans

\$2 trillion in US, €672.5 billion in Europe, \$500 billion in China

Trans-European Network - Transport

The overall investment cost of TEN-T, has been estimated at around EUR 900 billion

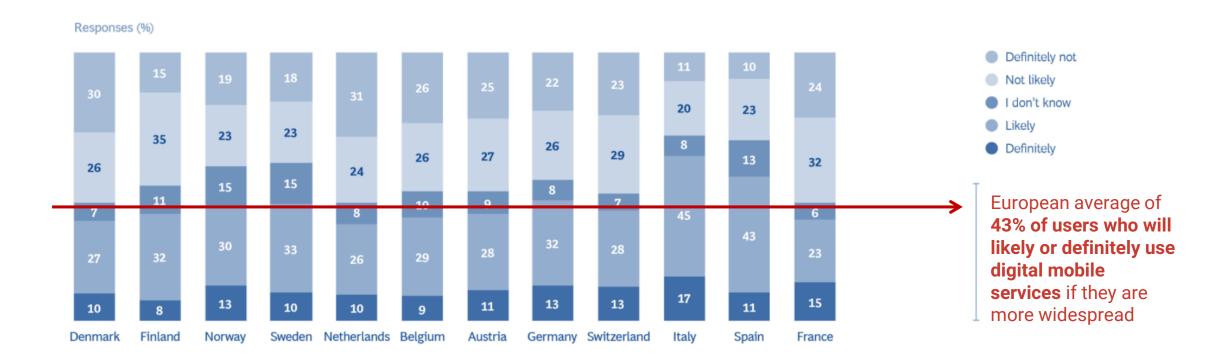
Increasing digitalisation willingness

43% of Europeans willing to use mobile services more frequently



Key trend: users want to use digital mobile service more frequently

User willingness to use digital mobile services if they are more widespread





So... how does digital transport infrastructure differ from the "normal" approach

Infrastructure investment criteria



Environmental

Performance indicator example: CO_o/ton-mile



Social

Performance indicator example: safety or cost of public transport



Institutional

Performance indicator example: regional development



Economic

Performance indicator example: revenue, EBITDA¹



Inclusive

Sustainability as enhanced social inclusivity and no prevention from benefiting from the service

Technological

Sustainability as benefits from increasing technology innovations

Productive

Sustainability as increased productivity and streamlining of delivery and implementation of the projects

Flexible

Sustainability as improved ability to flexibly adapt to shocks and changing environment



In practice: how to deliver digital components in the procurement process

Standard procurement process and proposed changes

Planning and control	Design	> Tender	Procurement and construction	Operational excellence
Planning the mix of interventions optimizing: • Execution speed and quality • Resources allocation • Noneconomic returns	Optimize infrastructure design to: • Reduce duration of the work • Reduce costs • Introduce requirements for digitalisation components and performance levels at design stage • Guarantee standardisation and interoperability of digital solutions	Set up the optimal strategies for the management of civil-works tenders to decrease award timing Allow for smaller digital start-ups with small business volumes and little project experience but proven solutions, to bid for large(r) contracts	Establish a holistic approach to infrastructure capital expenditure optimization to: • Assure a timely implementation of interventions • Create positive externalities • Introduce dedicated procurement rules for digital components	Optimize operations satisfying the environmental, social, institutional, and economic dimensions

The Bank provides financing for all types of digital transport infrastructure

From the traditional projects...

European Rail Traffic Management System (ERTMS)

Air Navigation infrastructure and systems

Road tolling schemes

Traffic flow management & control systems

Vessel Traffic Systems



Electrical and hydrogen vehicle and vessel charging infrastructure

Ride-Hailing applications and services

Drone safety and security services

Digitalisation NEVER STOPS and requires

CONSTANT INVESTMENT!!



