



GUIDE

Supporting the Strategic
Deployment Agendas for
The EU Corridors

5G Strategic Deployment Agenda for Connected and Automated Mobility

Automotive, Transport and Logistics solutions Webinar

20/11/2024

Speaker: Laura Sanz Díaz (i2CAT Foundation & GUIDE CSA)



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A VISION of future MOBILITY BASED ON 5G- enabled infrastructure, technologies and services

2-3 years time

5G
SA

Nowadays

5G
NSA



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Who will benefit from the 5G SDA?

Telecommunication vendors

MNOs

Tower Companies

Rail Infrastructure providers

Road operators

Road authorities

OEMs

CAM service providers

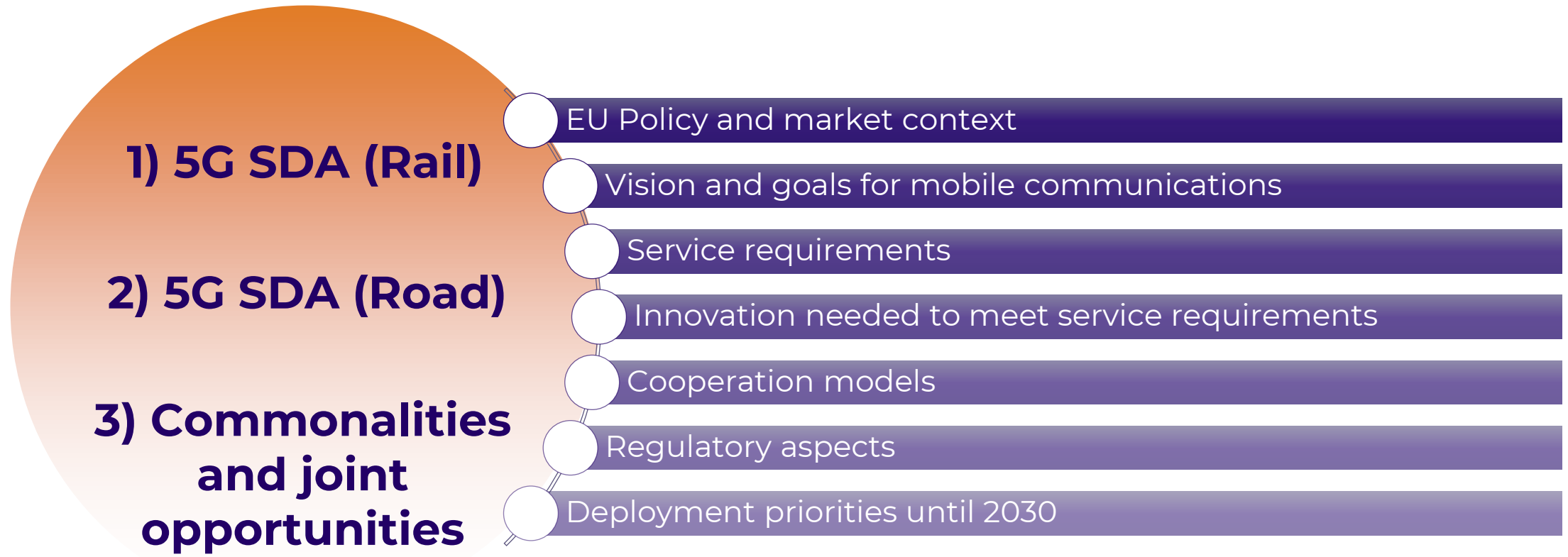
End users



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3 Key Modules



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5G SDA for Rail

www.eimrail.org

Download SDA 5G Connectivity & Spectrum at

<https://eimrail.org/2024/09/24/strategic-deployment-agenda-5g-connectivity-and-spectrum-for-rail/>

European Rail
Infrastructure
Managers **EIM** 

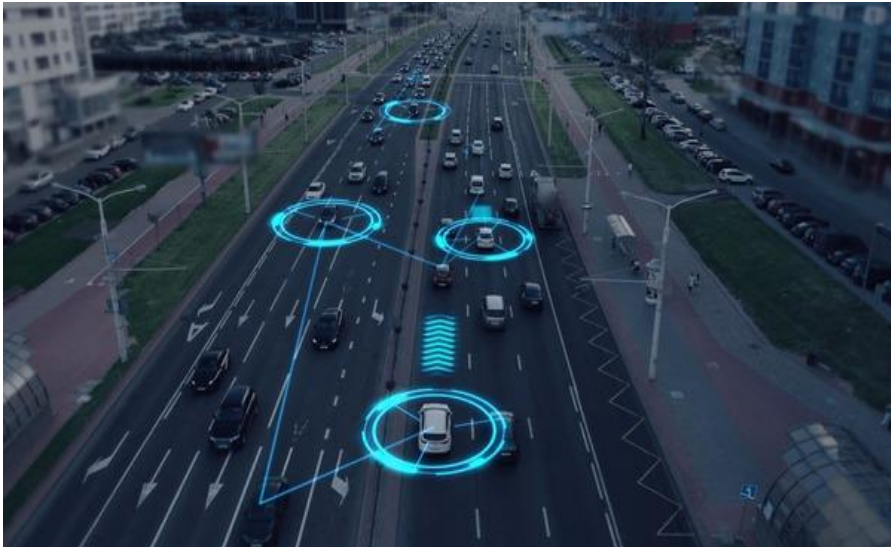

CER
The Voice of European Railways


INTERNATIONAL UNION
OF RAILWAYS



5G SDA Road - deployment opportunities

Road CAM services



- **Safety** and **traffic efficiency**
- Connectivity as Key Enabling Technology for **CCAM**



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Connected Passenger services

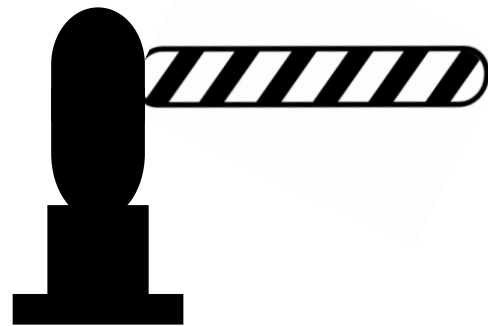


- **Multimedia** communication
- **Information**
- **Entertainment**



Barriers

- A **harmonized** service deployment roadmap
- What are the **most suitable cooperation models**
- **Feasible deployment** options



A harmonized service deployment roadmap



- Service roadmap convergence
- Most prominent use cases and services
- Estimate user demand figures
- Costs, investment, financing
- Identify necessary building blocks (Network coverage, network slicing, spectrum, MEC, cybersecurity, data, etc.)
- Compromise between requirements and business case feasibility



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Cooperation models

Communication Service Providers (CSPs)

Original Equipment Manufacturers (OEMs)

Road Operators (ROs)

- ✓ Objectives
- ✓ High-level requirements
- ✓ Business models

- Different models already identified; not mutually exclusive
- Explore feedback from CEF 5G Corridors on suggested cooperation models
- Work towards an integrated, holistic model that responds to higher complexity



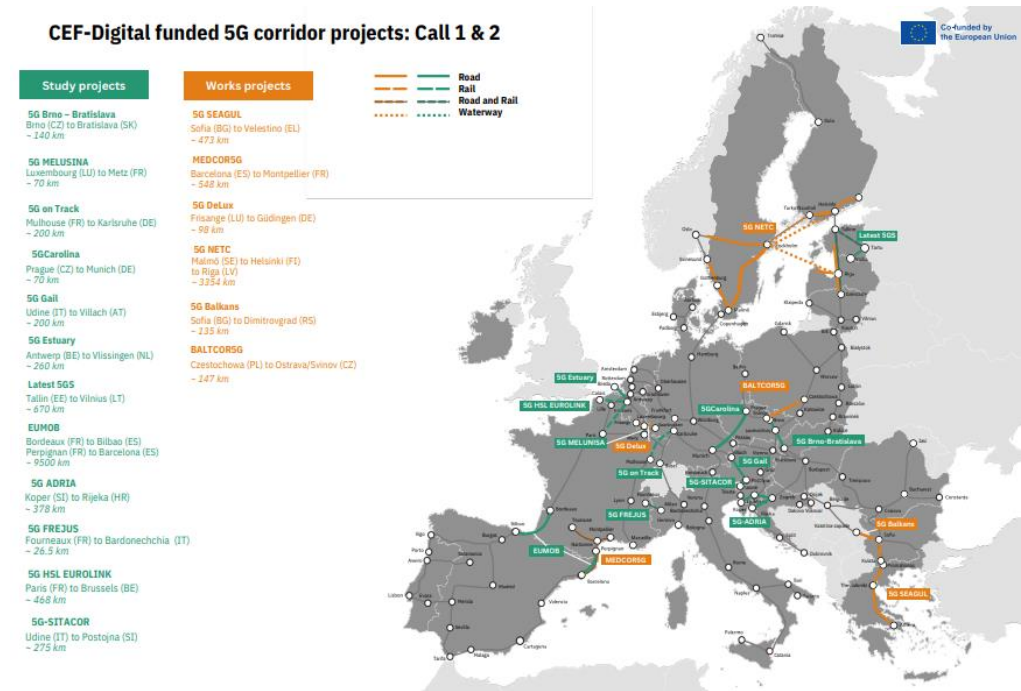
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Deployment options

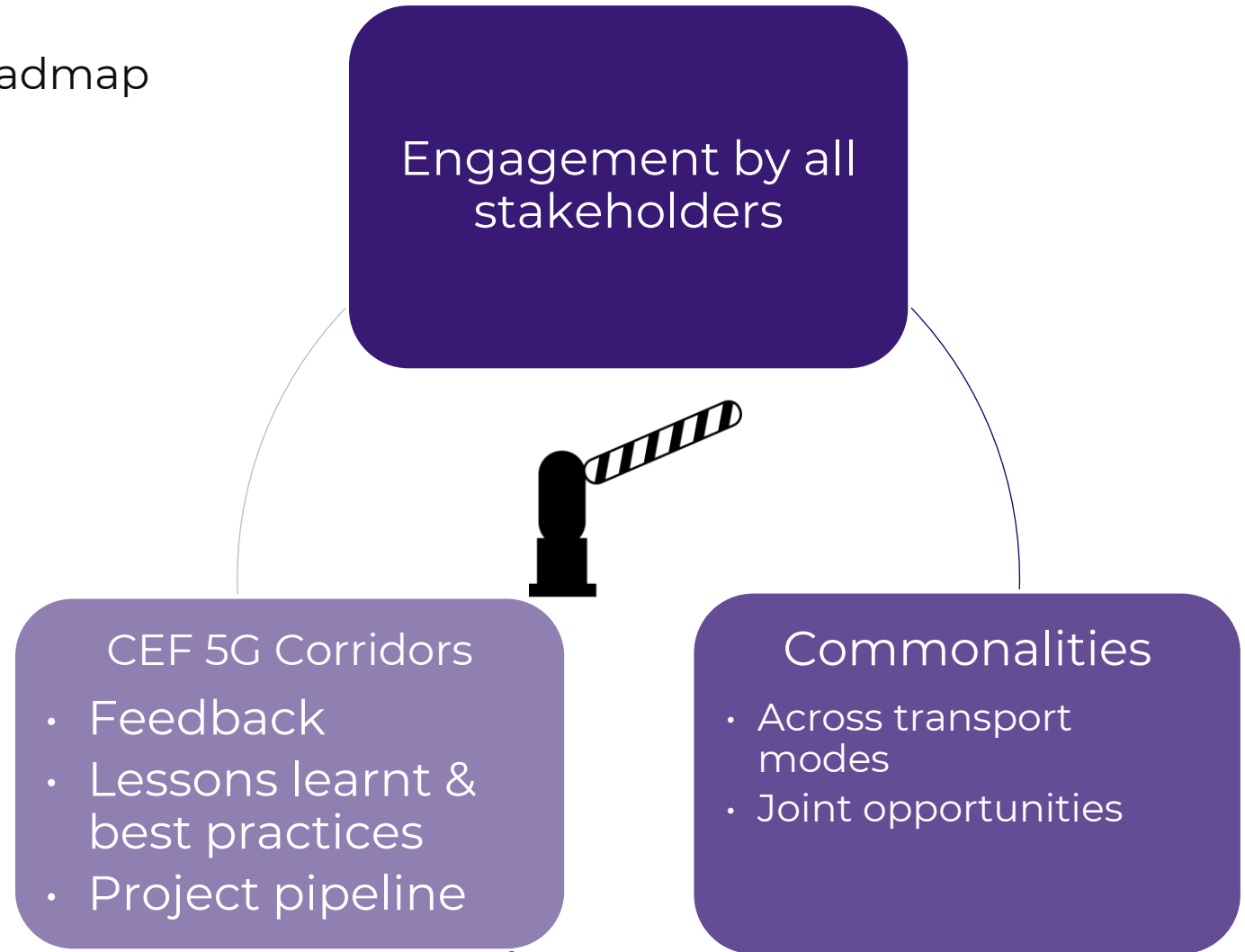
- **Feasible business models** for a scalable, sustainable deployment
- **Optimal cooperation** options and **contractual relations** between stakeholders
- Guidance on **planning and timelines**
- Incorporate **best practices**
- Recommendations for **public funding**
- Recommendations for policy and regulation to **encourage private investments**

CEF 5G Corridor map. Source: GUIDE project, 2024



Removing barriers

- **Harmonized** service deployment roadmap
- **Most suitable cooperation models**
- **Feasible deployment** options



Thanks

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