

Recommendations for video conferences with interpretation to Speakers

- use a stable **wired** internet connection
- wear a headset
- turn on the camera when speaking

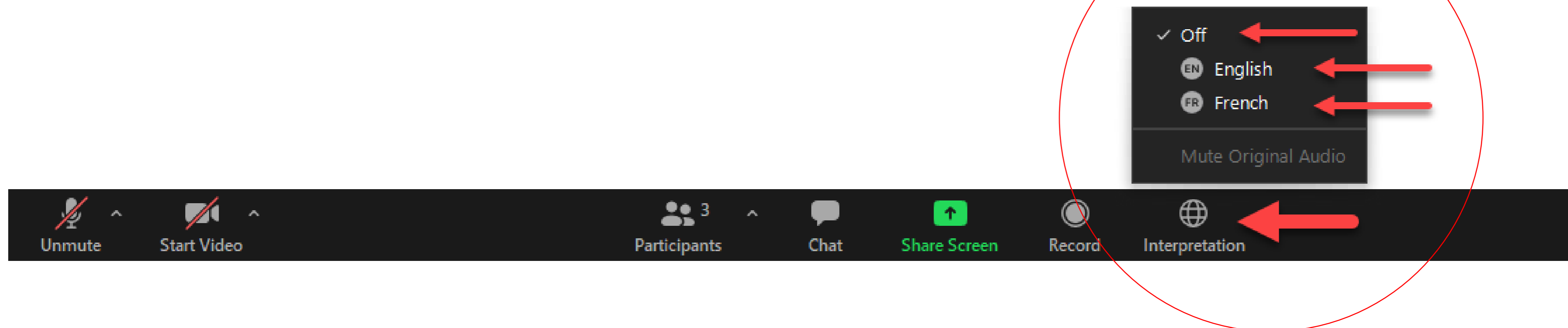


How to choose your meeting language with Zoom

Click on the language button located at the bottom right of your screen and select the language you want to listen to during the meeting.

If you wish to take the floor, please click on “off”.

You can mute the main language (Mute Original Audio) to listen only to your preferred choice



MOBILITY

LOW-CARBON



INTERNATIONAL UNION
OF RAILWAYS

RAILWAYS AS AN EFFICIENT AND SUSTAINABLE SOLUTION

Celebrating UN World Sustainable Transport Day
26th November

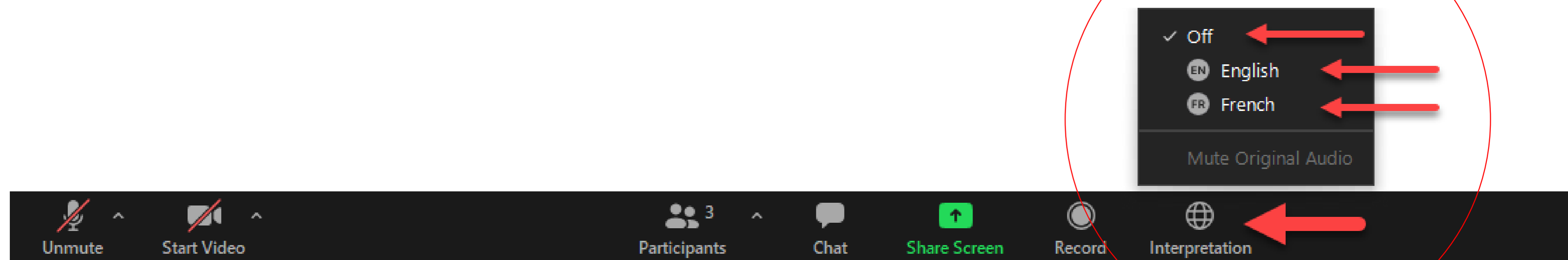


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Interaction

Rename your ID with
Name_Organisation

Say hello in the chat, introduce
yourself and say where you are
connecting from

Ask questions, share
information and add your
thoughts in the chat

Mute your microphone if you
are not a speaker

**As usual, this meeting will be
recorded
for the purpose of minuting**



REC ●

Opening Remarks



Mohamed Rabie Khlie

CHAIRMAN of UIC
African Regional
Assembly

ONCF



Francois Davenne

Director General

UIC



Robert Lisigne

Chief of the Energy, Infrastructure and
Services Section of the Private Sector
Development and Finance Division

UNECA



Mohamed Rabie Khlie

MESSAGE FROM THE
CHAIRMAN OF THE UIC-AFRICA REGION
AND VICE-CHAIRMAN OF THE UIC

Sustainable transport and climate challenges



TRANSPORT SECTOR

30%
Energy
consumption

23%
GHG
emissions



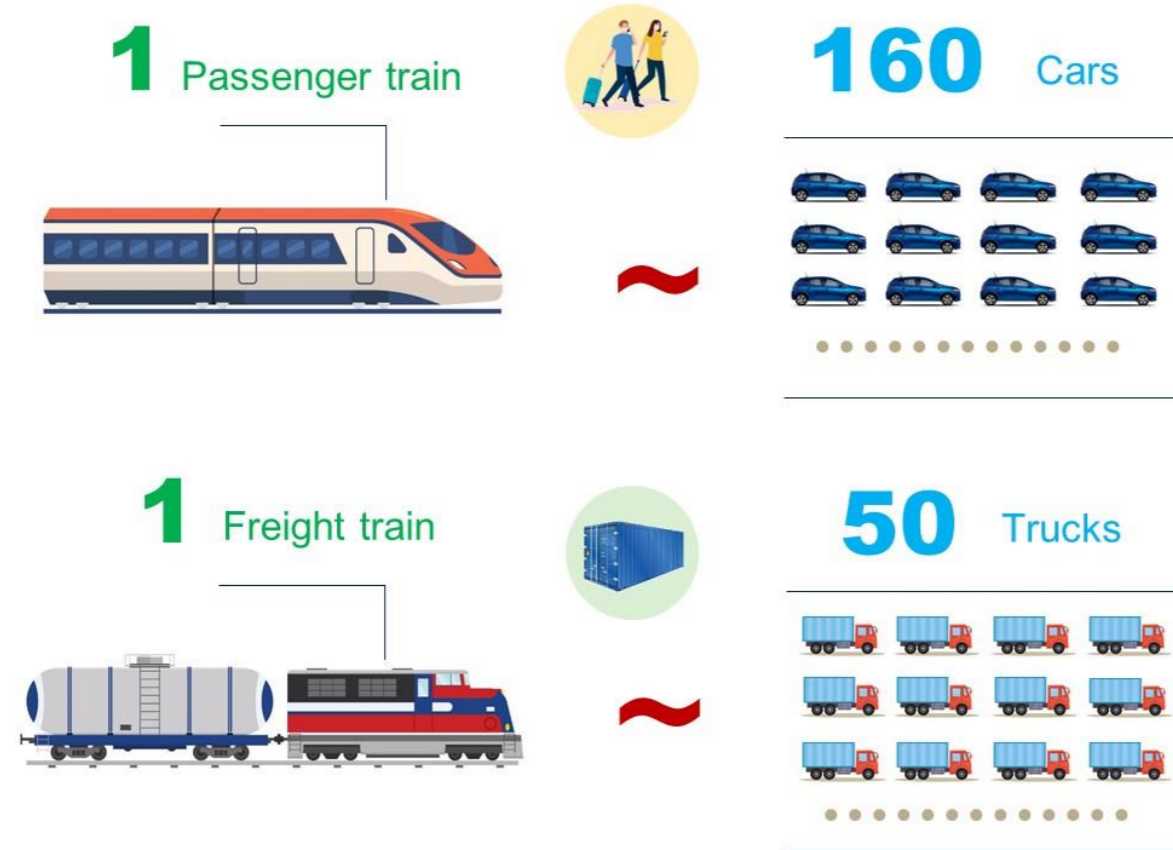
RAIL TRANSPORT

03%
Energy
consumption

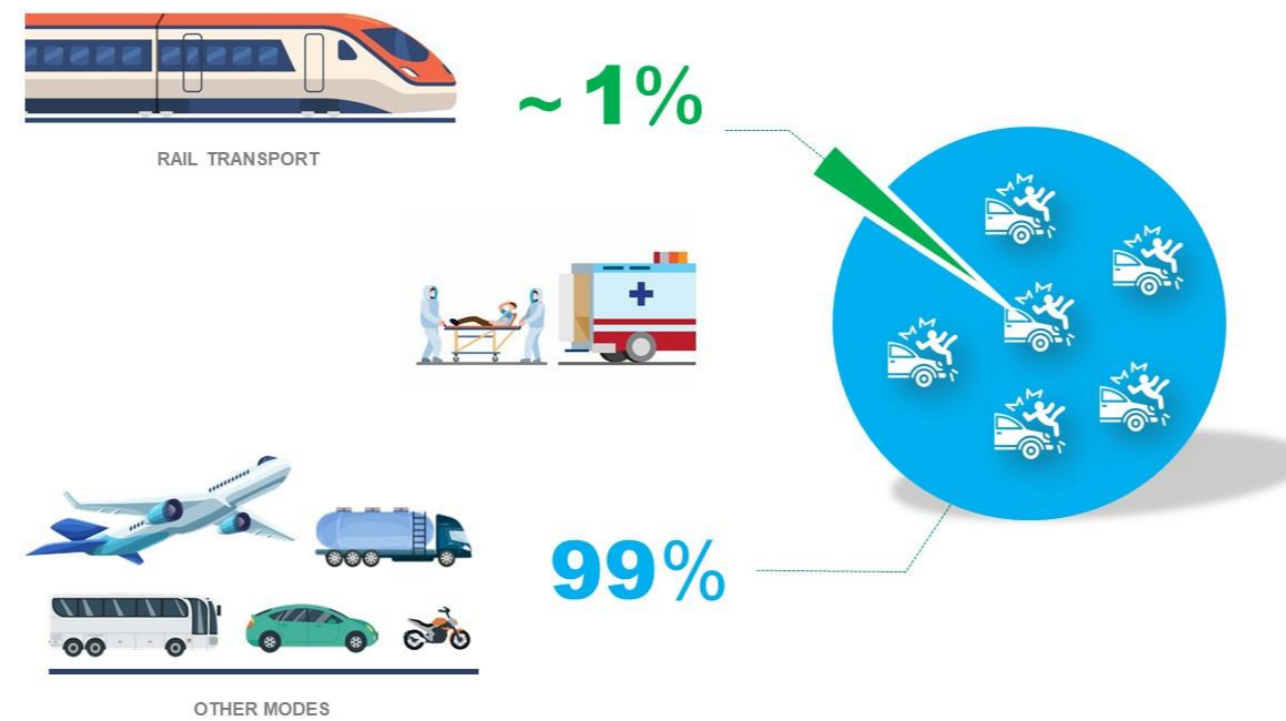
01%
share of GHG
emissions

The railways, assets for eco-responsible mobility

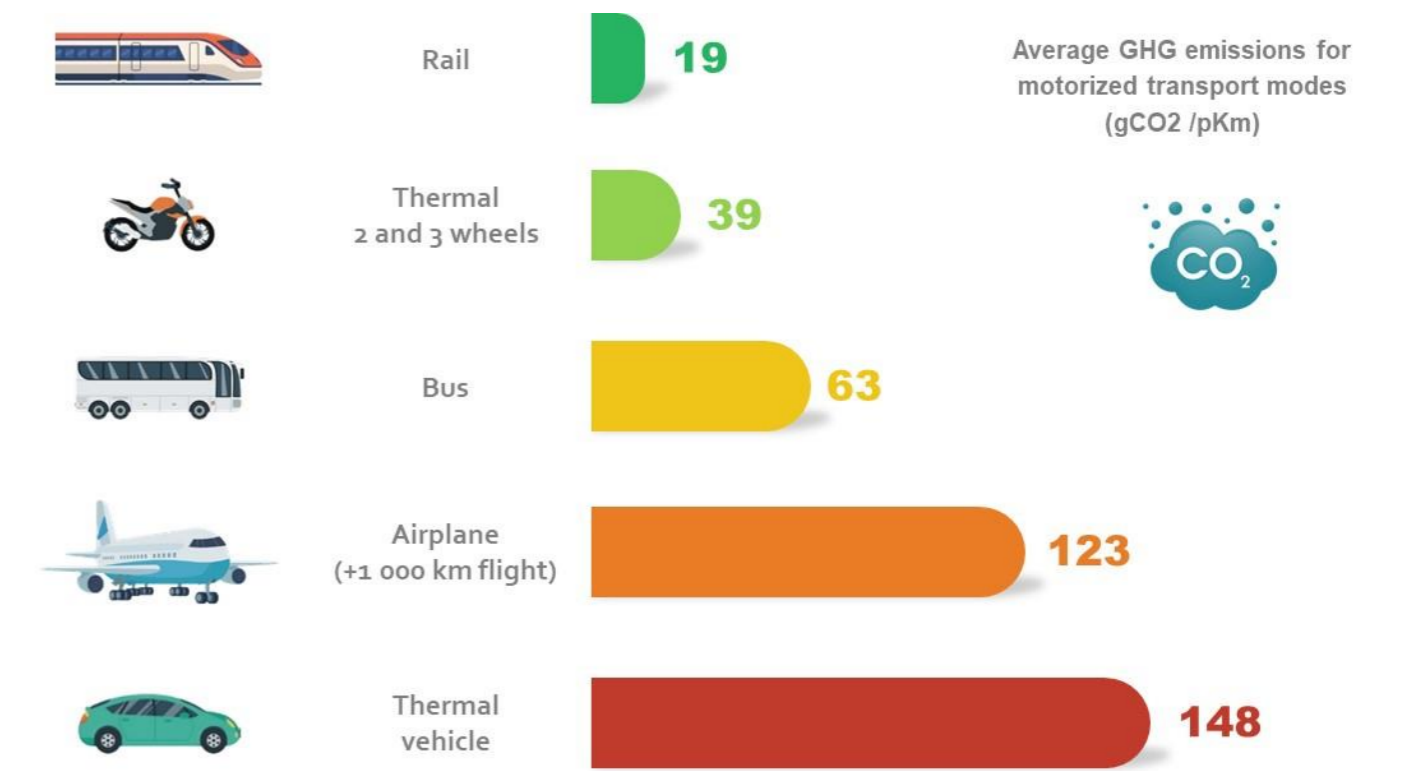
HIGH CARRYING CAPACITY



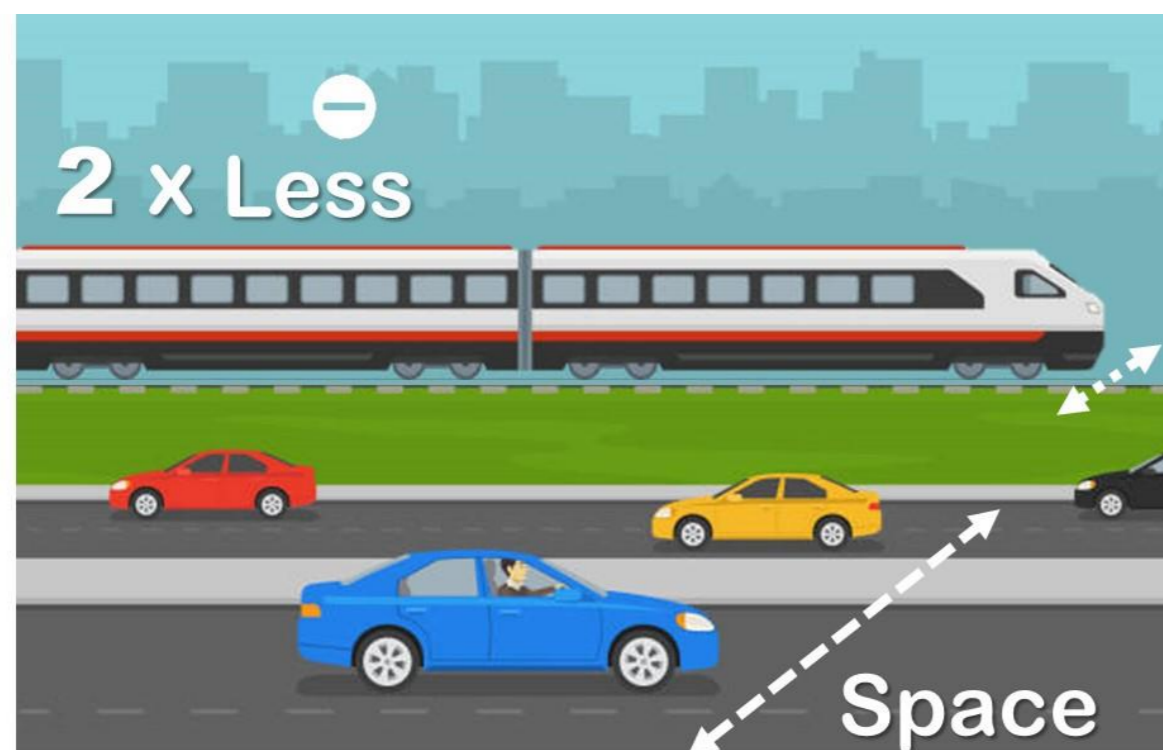
SAFER



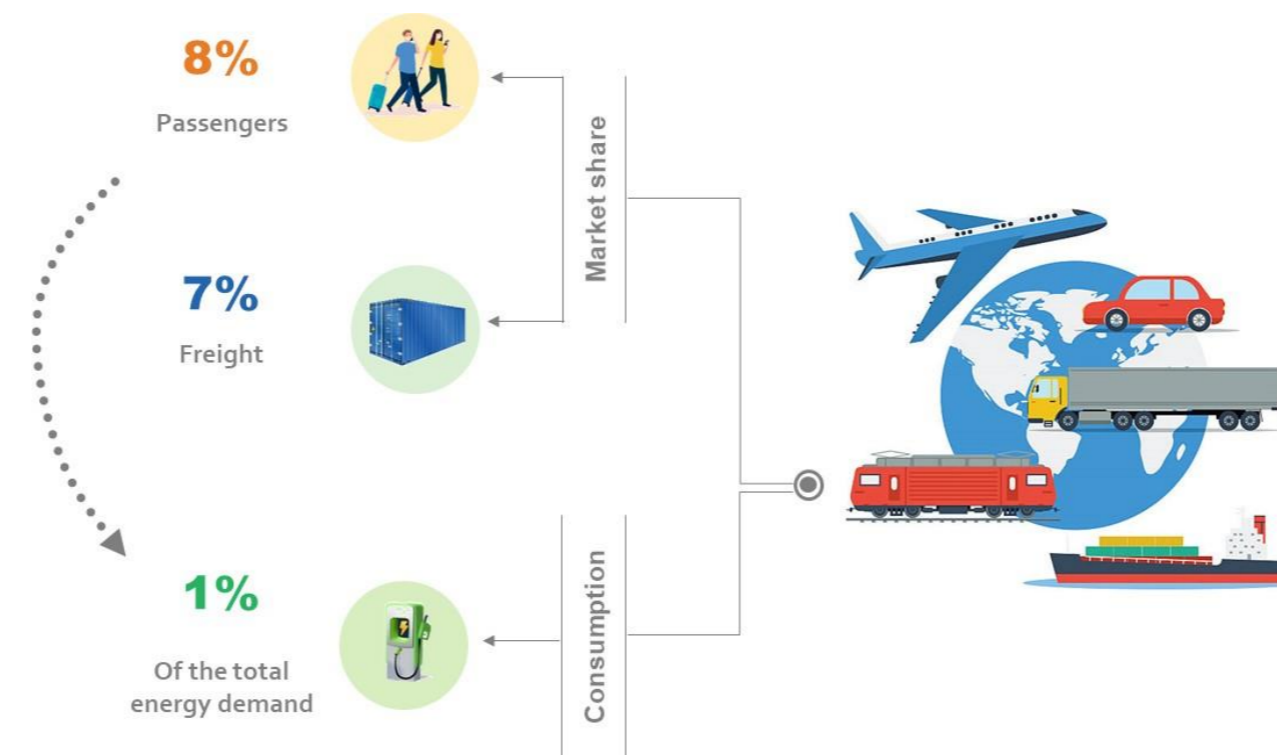
LESS POLLUTING



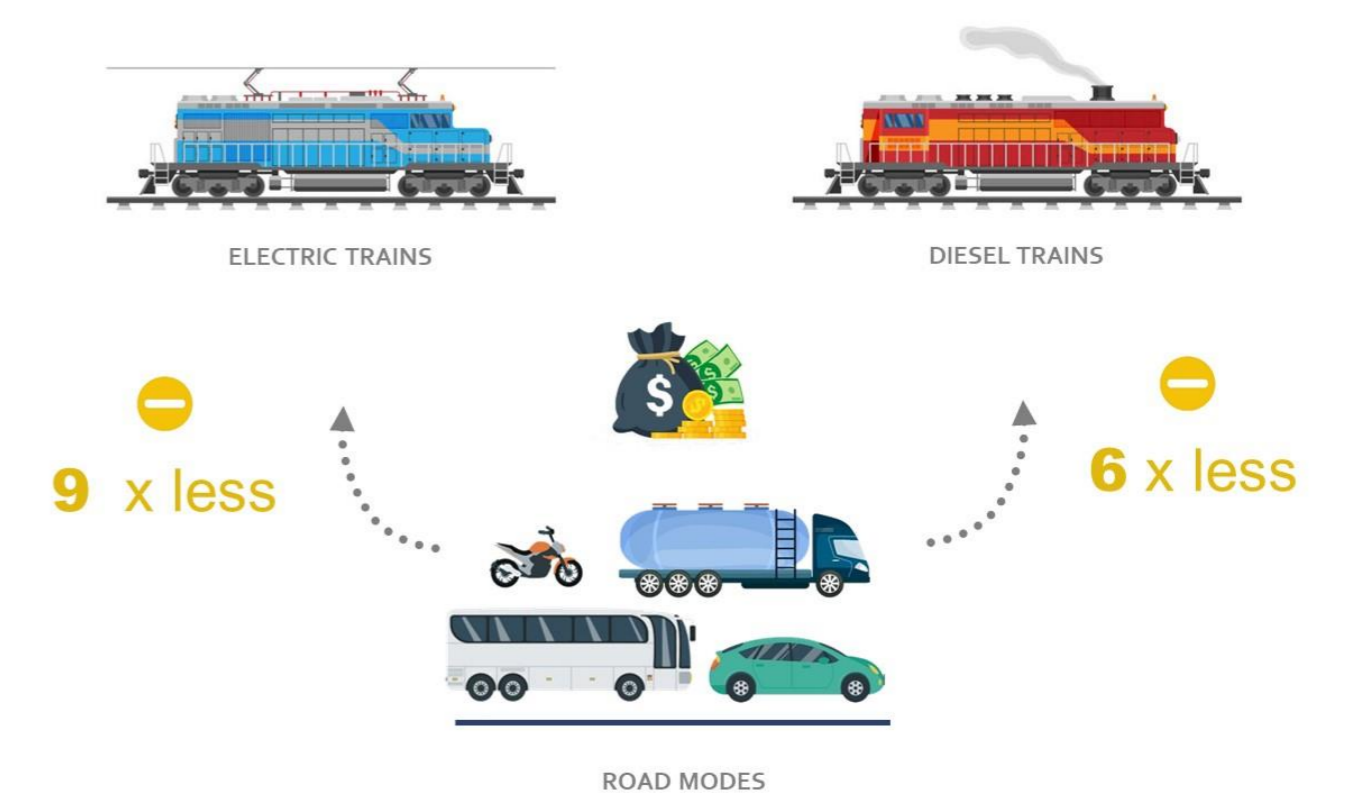
SPACE SAVING



ENERGY SAVING



LOW EXTERNAL COSTS



Africa, CO₂ emissions and transport infrastructure



2 to 4

GDP deficit points/year

30 to 40%

Cost of imported products

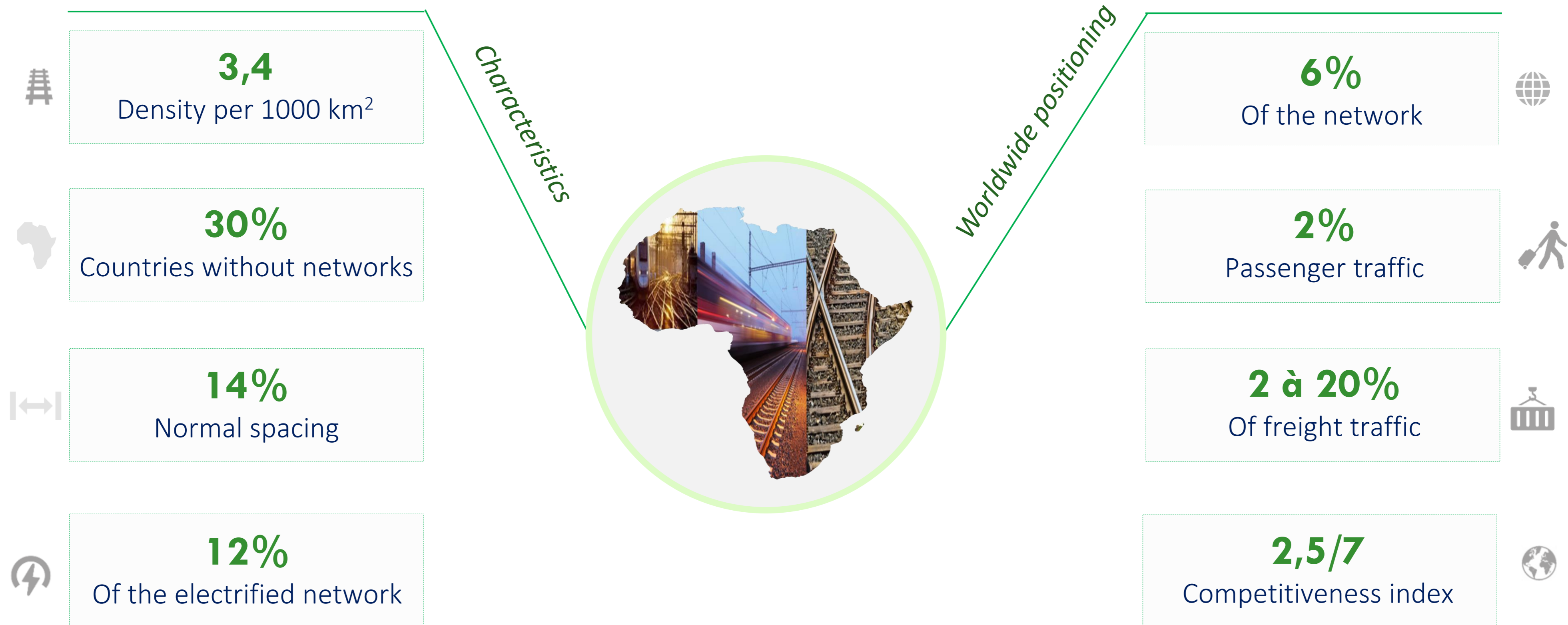
+6 to 8%

Transport demand per year

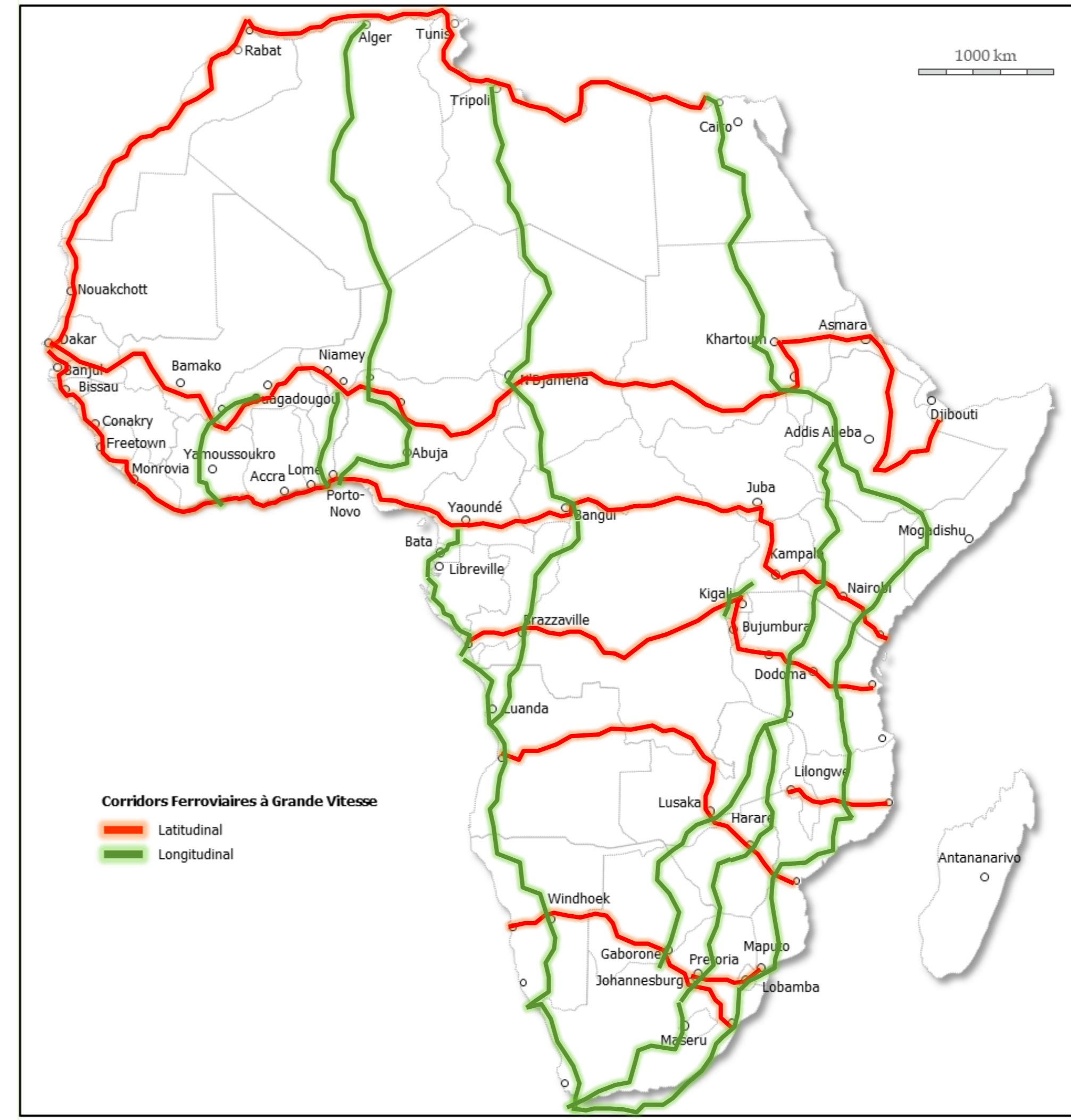
+2 to 4

times, logistics costs/ emerging countries

Africa's railways lagging behind in rehabilitation and expansion



Africa's railways, revitalization underway and to be accelerated



Sustainable transport, time for action



Accelerating
The
investments

Regulatory
and tax
incentives

Amplifying
the
multimodality

Mobilizing
climate
financing

Structuring
the modal
shift

Internalization of
externalities

Opening Remarks



Francois Davenne

Director General

UIC

Opening Remarks



Robert Lisigne

Chief of the Energy, Infrastructure and
Services Section of the Private Sector
Development and Finance Division

UNECA

Expert Panel



**Moderator:
Lucie Anderton**

Director of Sustainability

UIC



Lia Talarico

Head of Sustainability
and Chair of UIC
Sustainability Platform

Trenitalia



Kara Oldhouser

Director of Sustainability
and Vice-Chair of the UIC
Sustainability Platform

Amtrak



Said Chandid

Director of Strategy,
Communication and
Cooperation

ONCF



Nargiz Samadova

ESG Manager

Azerbaijan Railways (ADY)



“ This first World Sustainable Transport Day reminds us that the road to a better future depends on cleaner and greener transportation systems.

— António Guterres



Shifting from cars to public transportation can reduce up to 2.2 tons of carbon emissions annually per individual.

| PHOTO: UN

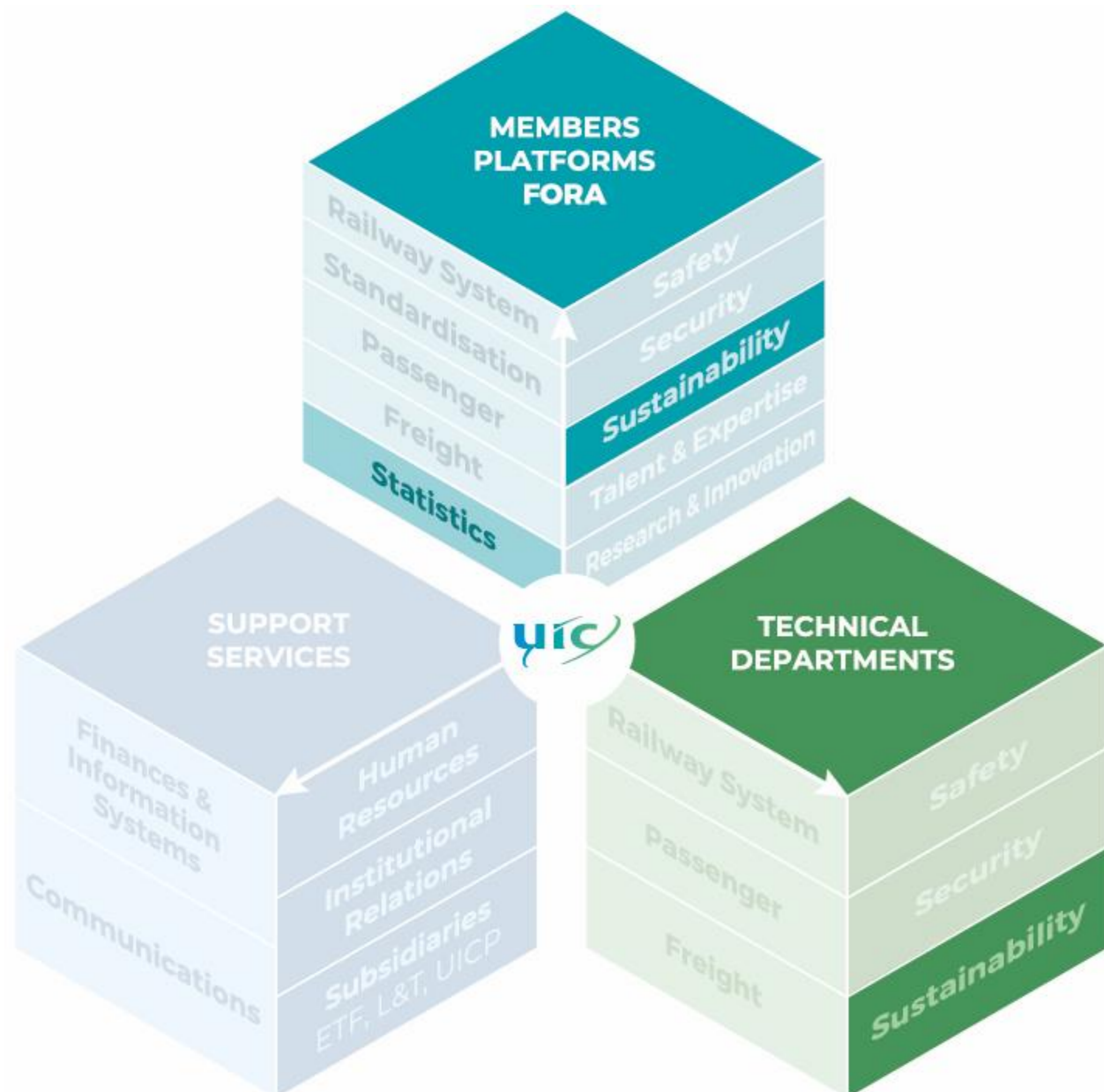


Lia Talarico

Head of Sustainability
and Chair of UIC
Sustainability Platform

Trenitalia

UIC Sustainability Platform



ADVOCATE

To build collaborative partnerships and be the voice of the global railway community to advocate for a multimodal vision of sustainable mobility with rail as the backbone



CONVENE

To provide a trusted platform for the railway sustainability community to connect

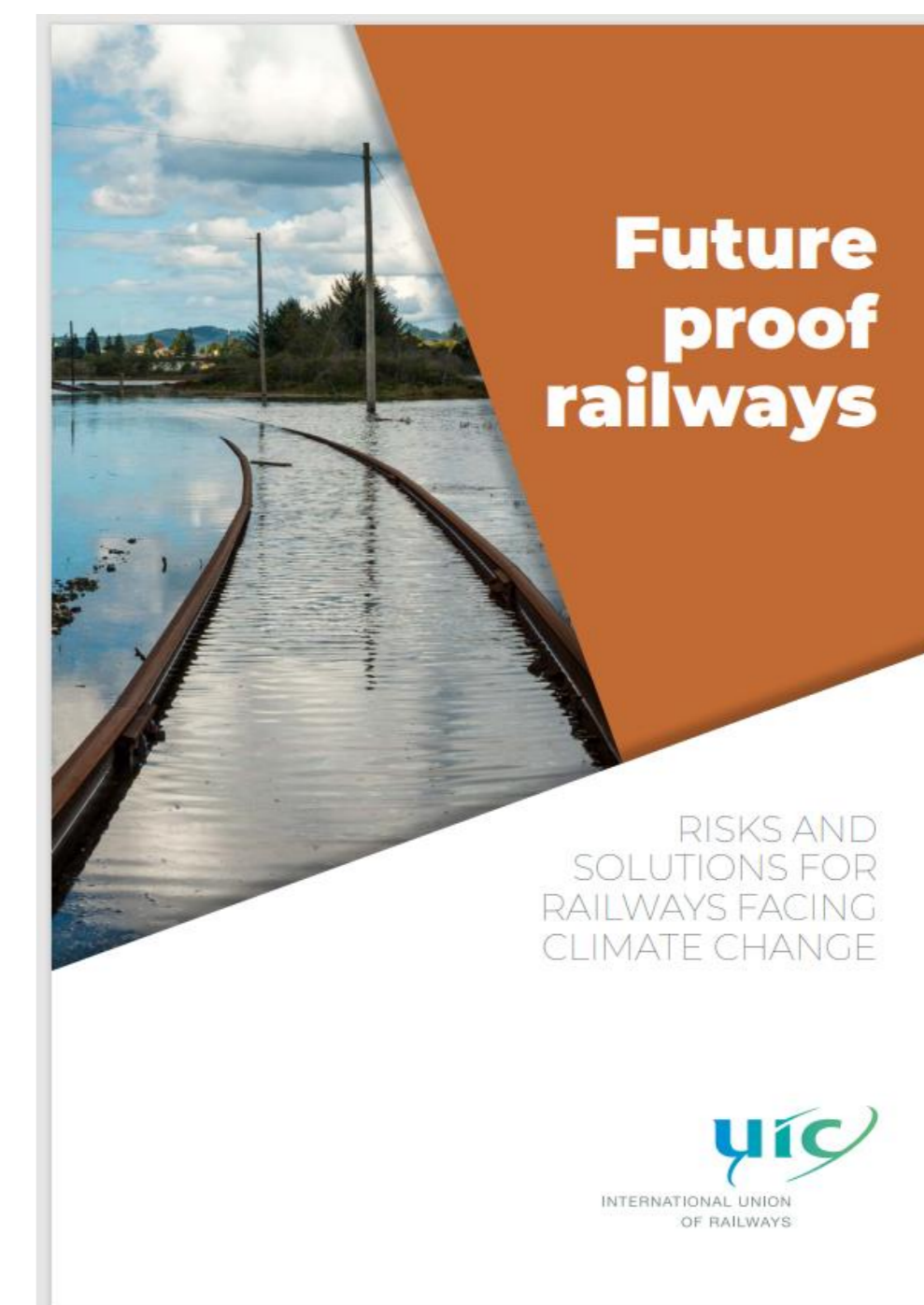
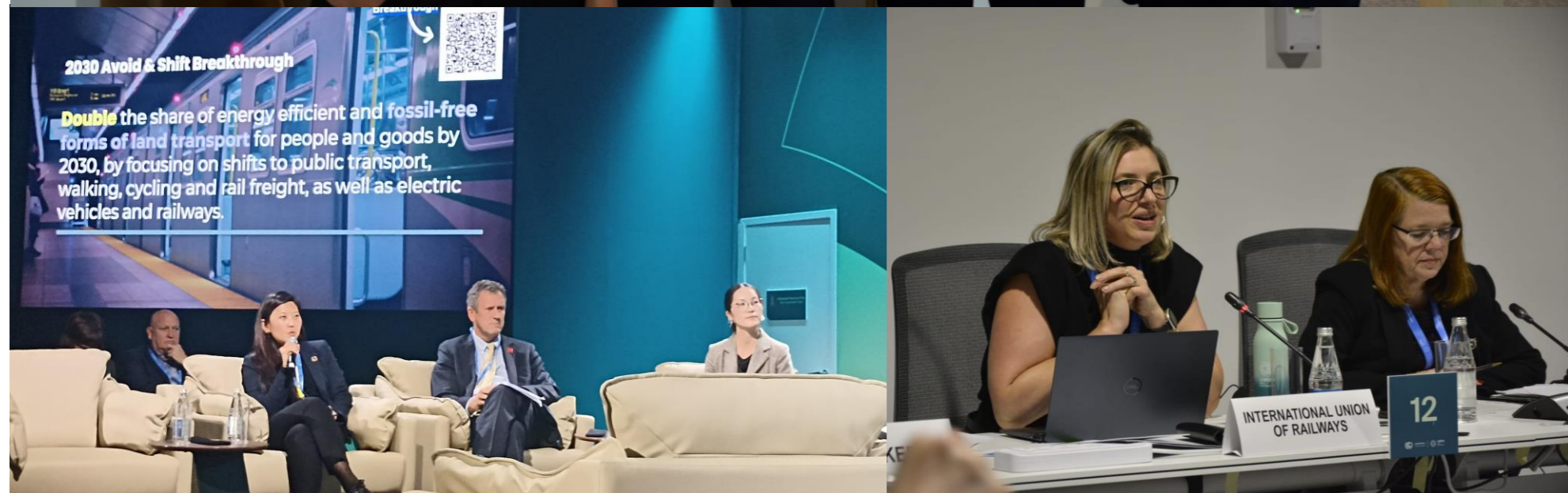


SOLVE

To provide practical solutions for sustainability challenges for a future railway



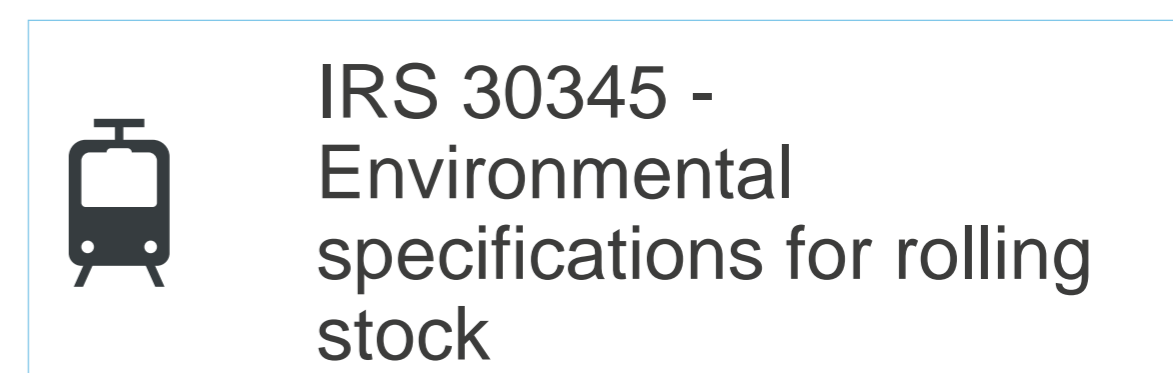
Advocate



Convene



Solve



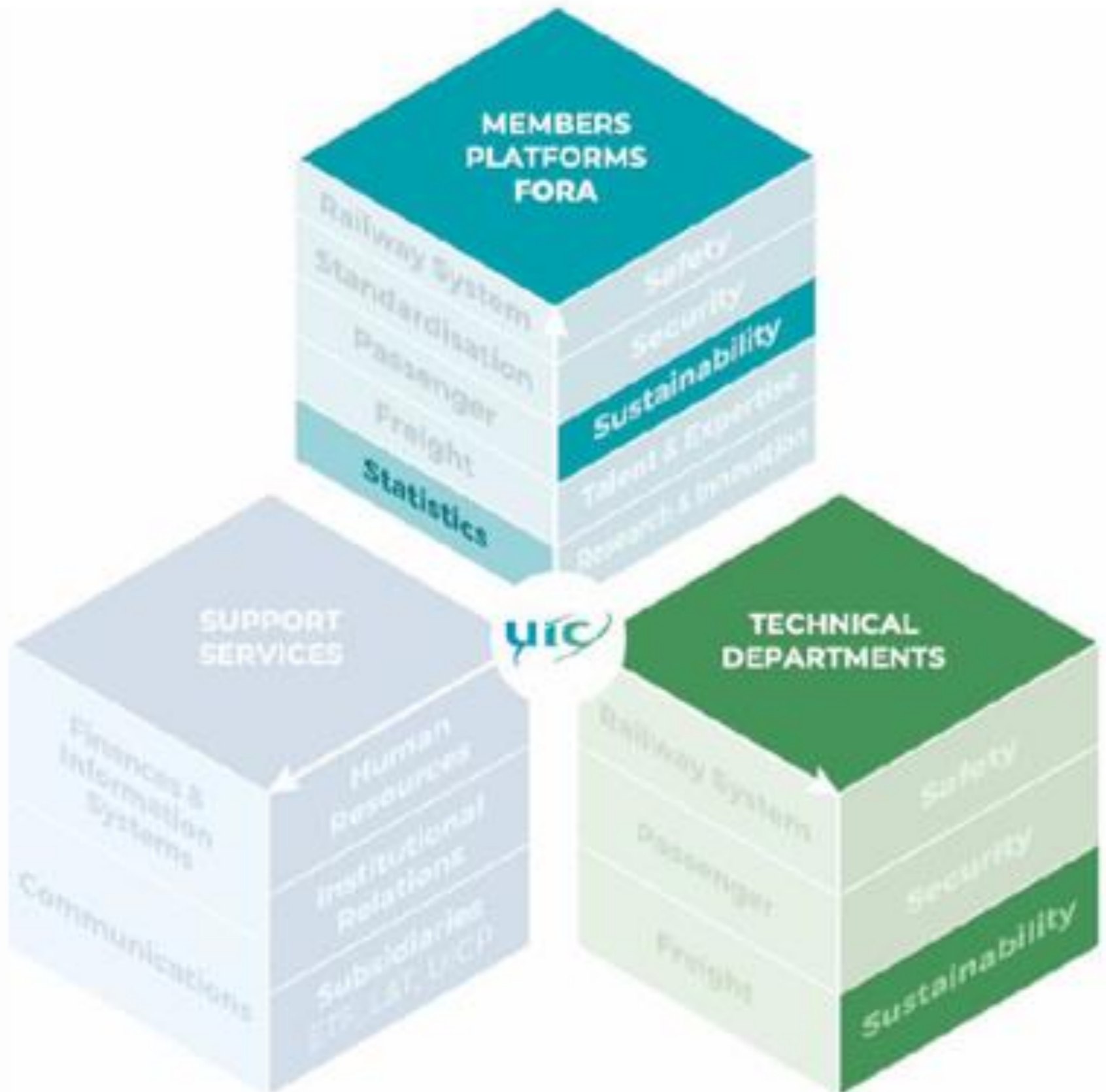
UN World Sustainable Transport Day

Lia Talarico - UIC Sustainability Platform Chair &
Head of Sustainability at Trenitalia

Novembre 2024



UIC SUSTAINABILITY PLATFORM



ADVOCATE

To build collaborative partnerships and be the voice of the global railway community to advocate for a multimodal vision of sustainable mobility with rail as the backbone

CONVENE

To provide a trusted platform for the railway sustainability community to connect

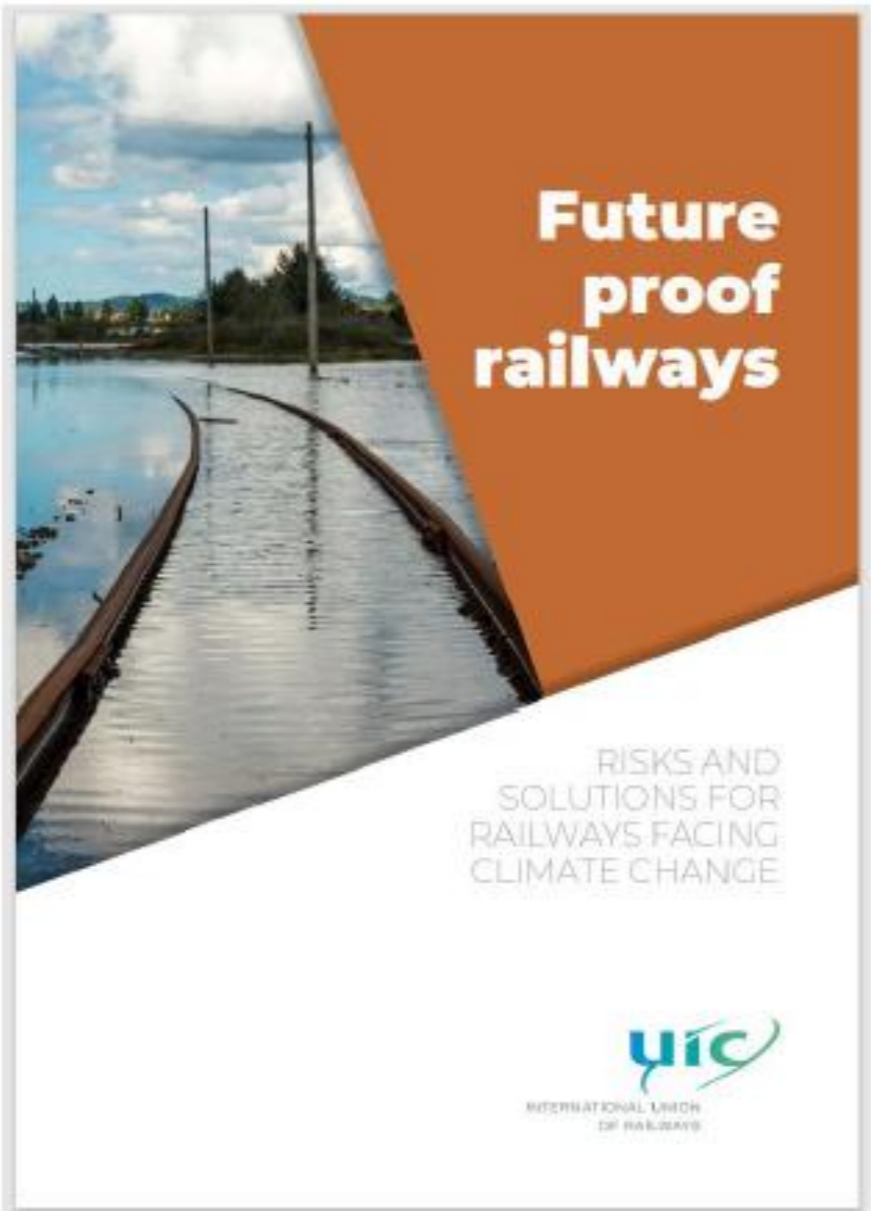
SOLVE

To provide practical solutions for sustainability challenges for a future railway

UIC: ADVOCATE



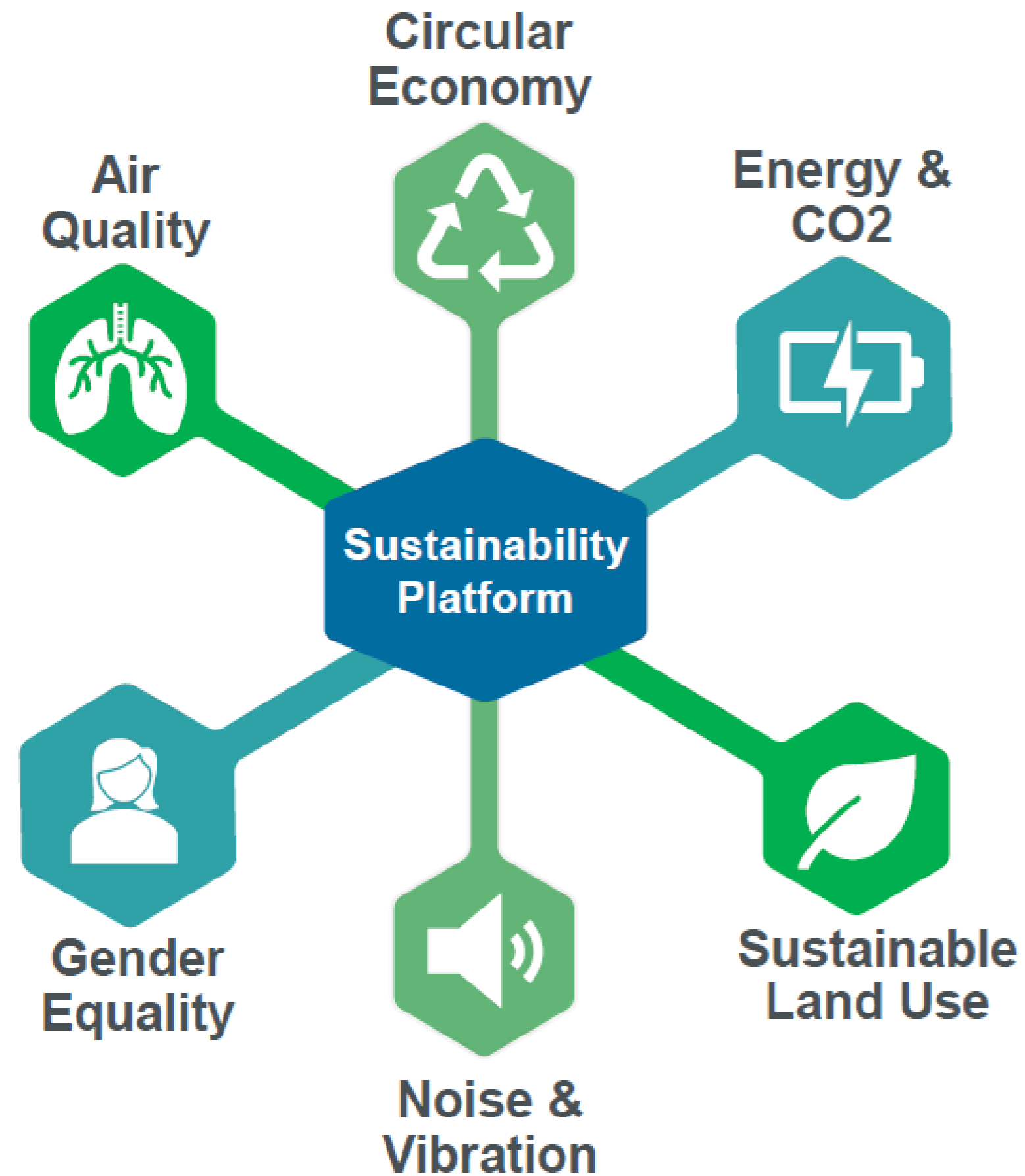
Advocate



UIC: CONVENE & SOLVE



Convene



Solve



Zero Waste Railways



IRS 30345 - Environmental specifications for rolling stock



SustHUB

TRENITALIA: MOBILITY BACKBONE OF ITALY



19 Connections to airports

- **6** by train
- **12** by Airlink/Alibus
- **1** by people mover



10 «Freccialink»



15 «Air&Port Link»



52 «Link»

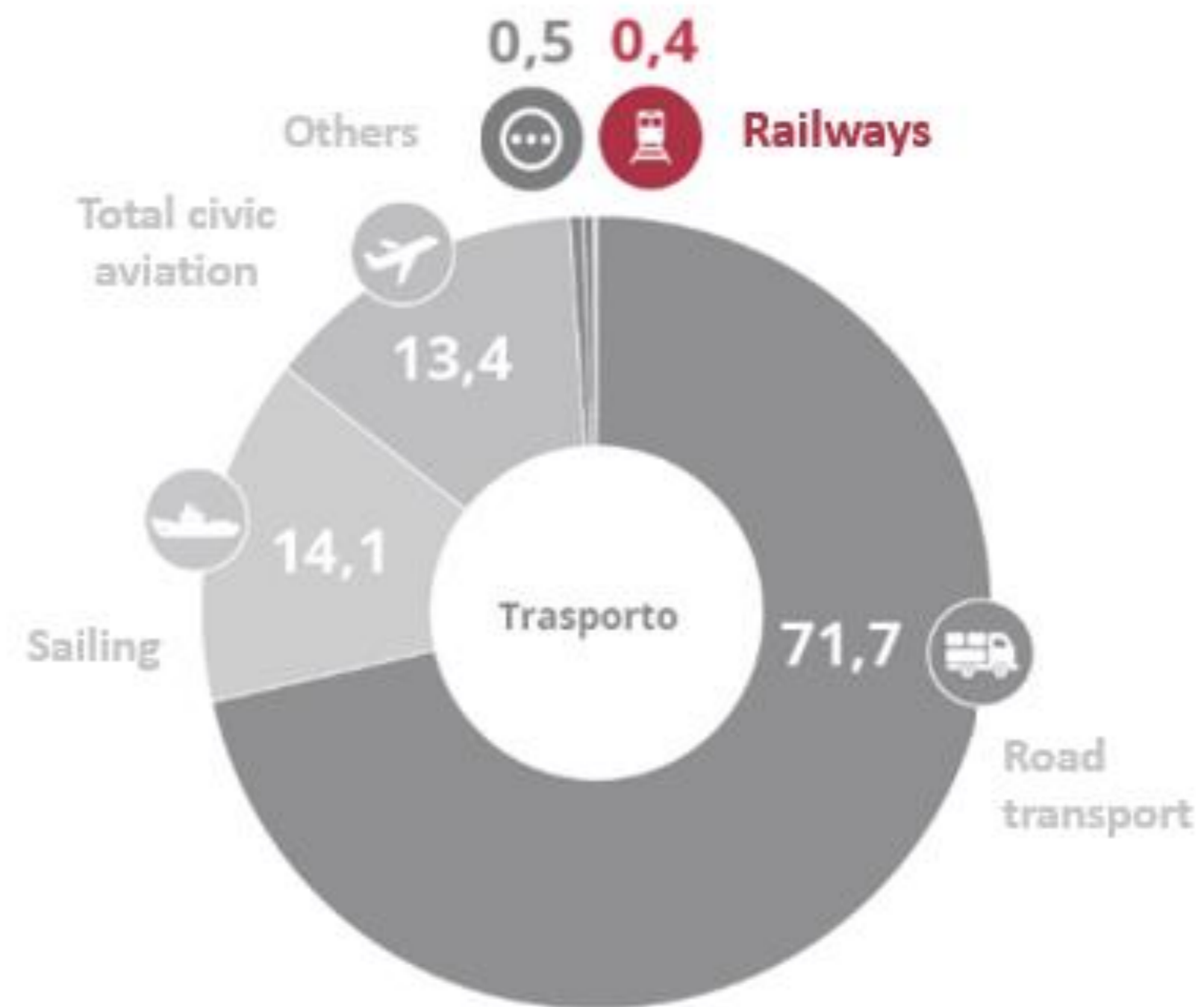
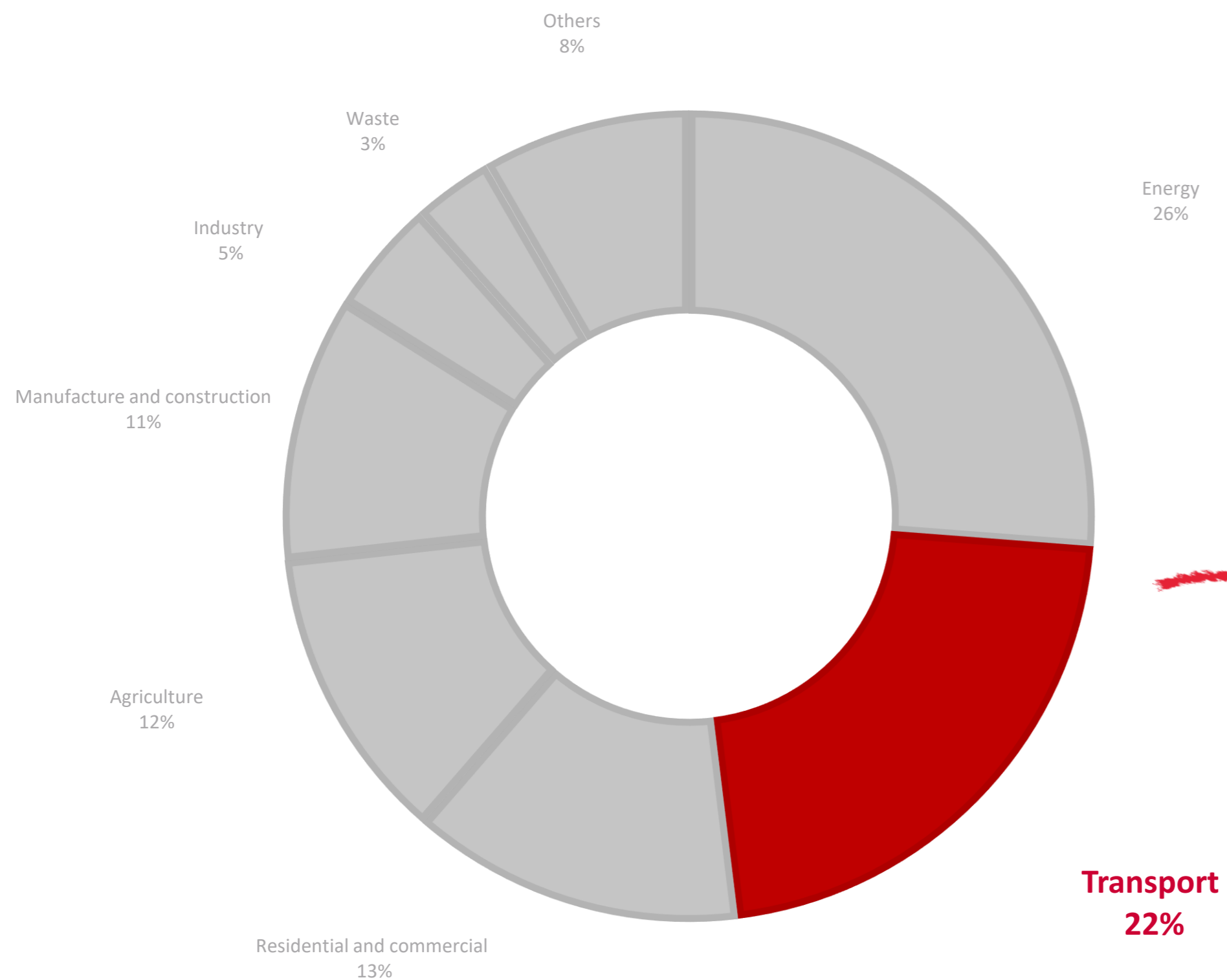


46 Connections for people who commute regularly



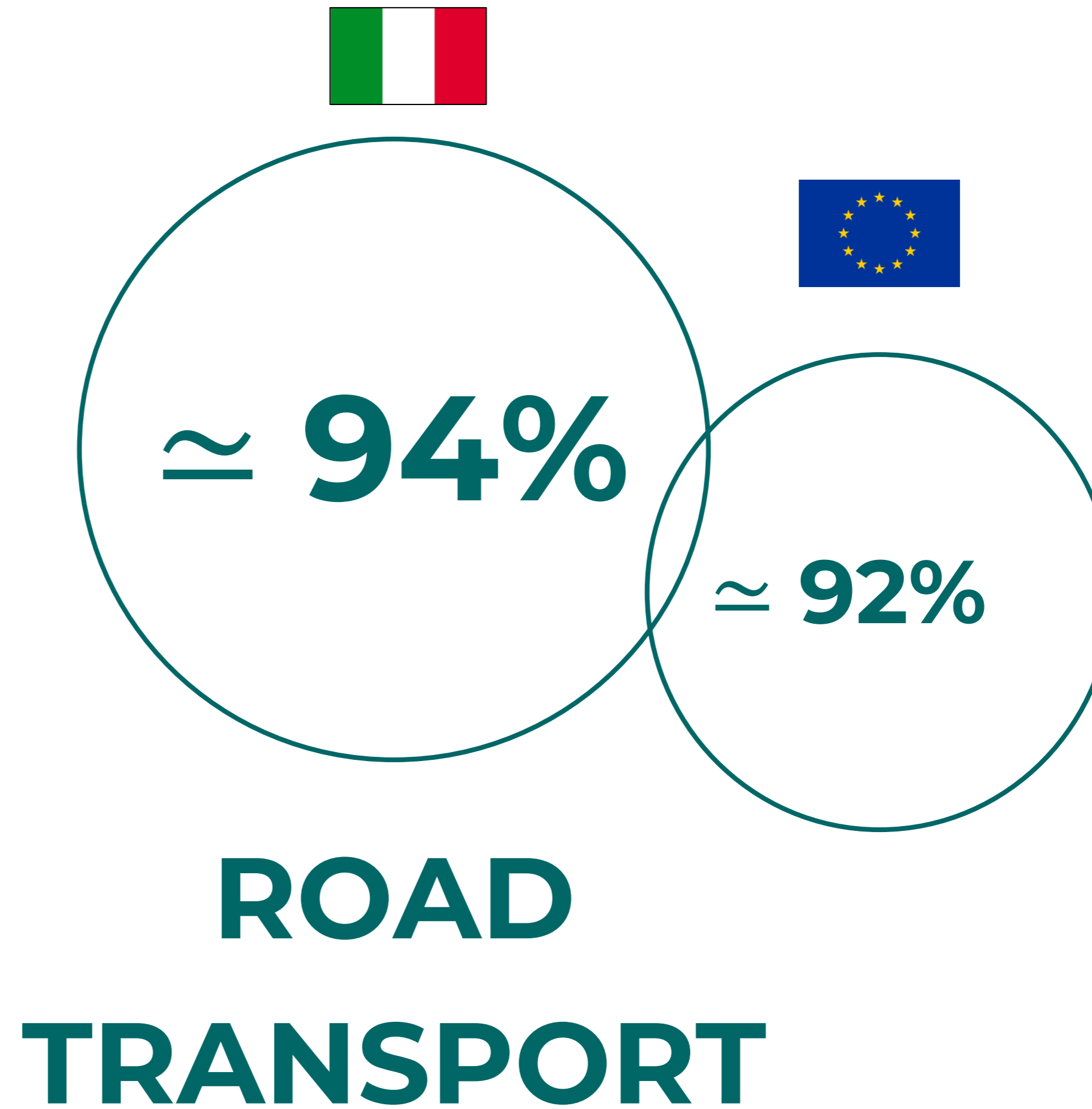
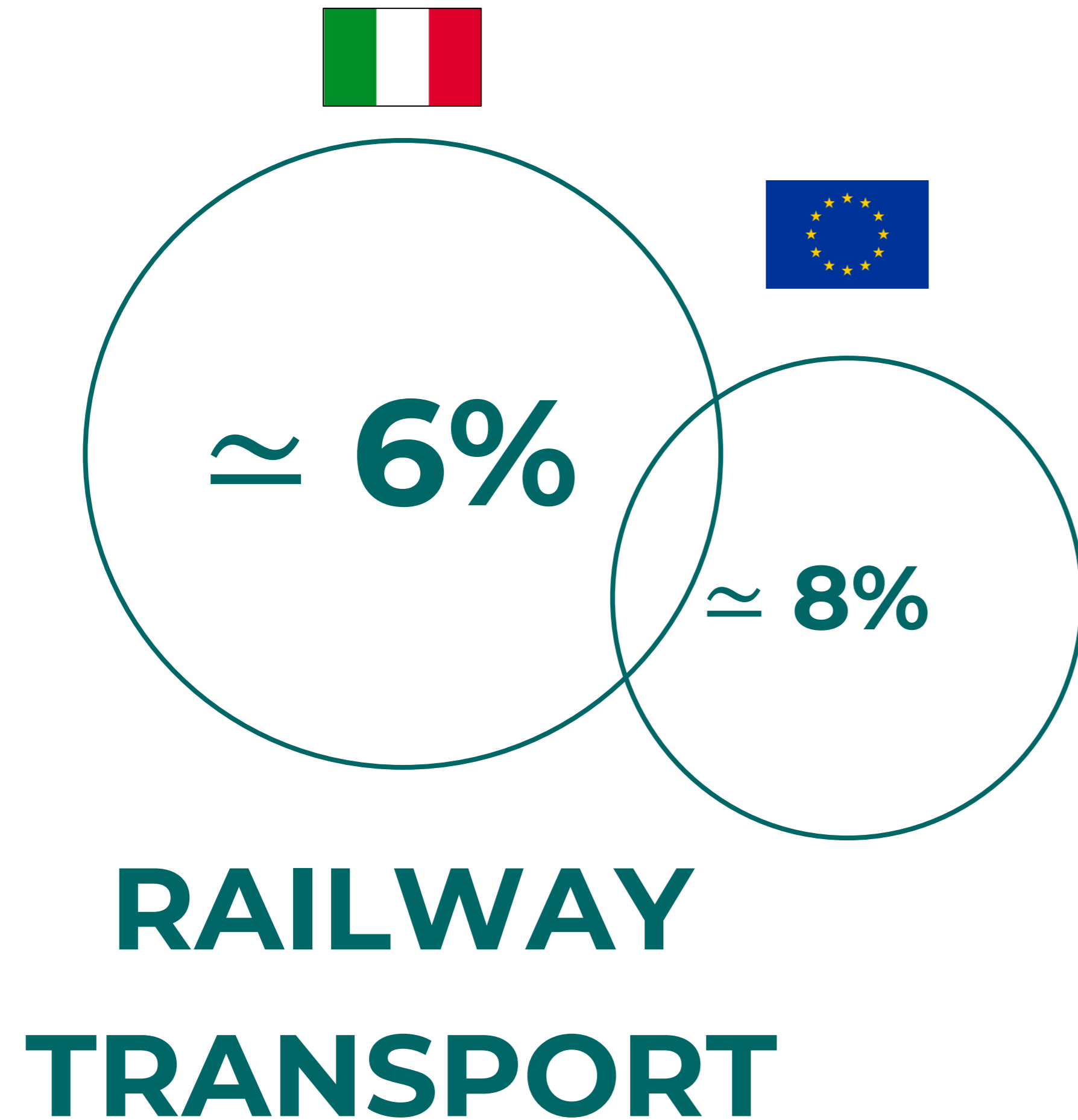
A COUPLE OF NUMBERS

GHG emissions in UE per sector



*Climate Watch; European Environment Agency

A COUPLE OF NUMBERS: ITALY AND EUROPE



*Commissione Europea - Mobility and Transport - Statistical Pocketbook 2024

Informazione ad uso interno - Internal use information

COMMON GOAL



**RAILWAY
TRANSPORT**



**ROAD
TRANSPORT**

SUSTAINABILITY IN TRENITALIA



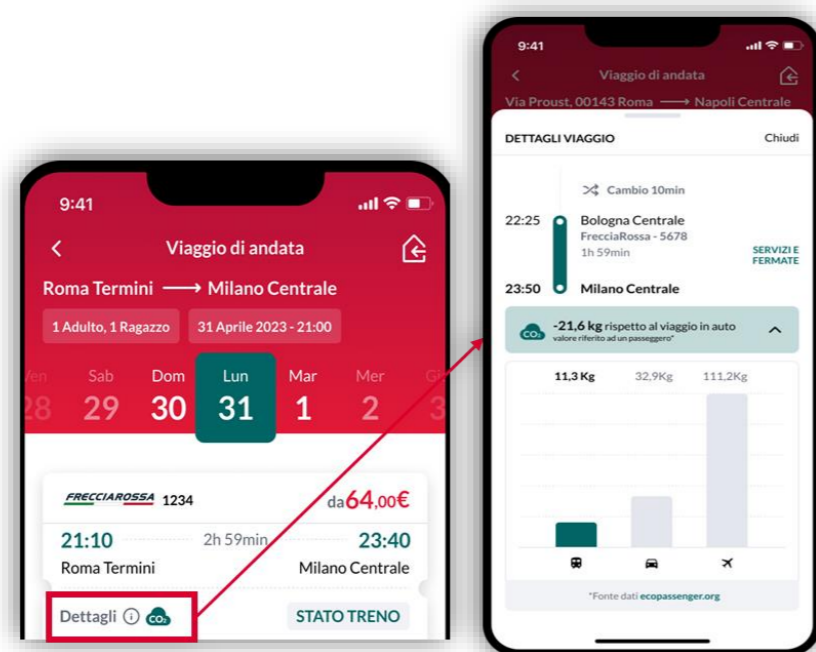
CUSTOMER SERVICES



Generating a common value

ECOPASSENGER

First European railway company to disclose **CO₂ emissions** from its trips at the time of purchase



SCHOOL PROGRAM

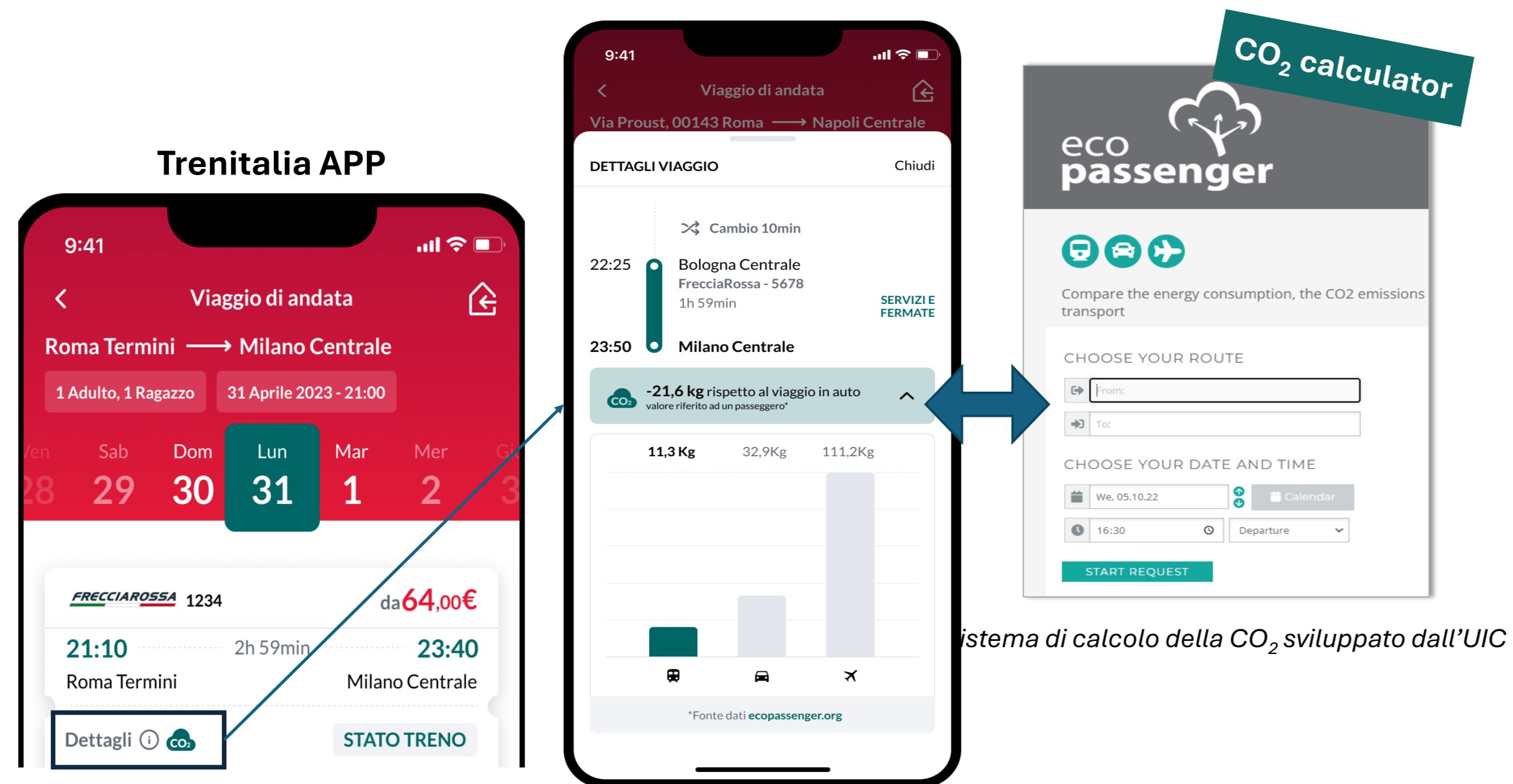
Project aimed at raising awareness on the **use of trains for school trips** among primary and secondary school teachers and students throughout Italy



ECOPASSENGER

Transparent communication to customers on CO₂ emissions of traveled

- ✓ During the first quarter of 2024, a project was launched to provide “**real time**” CO₂ emissions associated with each trip, through the official “**Ecopassenger**” calculator
- ✓ When **purchasing a ticket on digital channels**, the customer sees the CO₂ generated by their trip and the emissions avoided compared to car and plane
- ✓ B2B (corporate) customers will be able to receive **periodic reporting** of emissions related to **corporate travel**



**Increasing customers' awareness of the impact of their travel:
Choosing the train is more sustainable!**

SUSTAINABILITY IN TRENITALIA



Acting responsibly on a daily basis

SOLAR PANELS

12 Maintenance plants equipped with **photovoltaic technology**, with an installed capacity of 9.1 MWp



HYBRID TRAINS

First hybrid Regionale and Intercity trains, allow to reduce greenhouse gas emissions and noise pollution.
HVO fuel experimentation

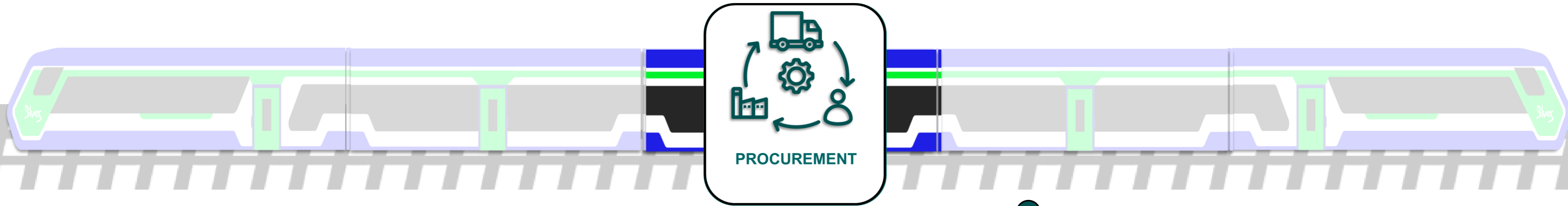


WATER CIRCULAR ECONOMY

Pilot project in 3 maintenance facilities for **water reuse** in industrial settings



SUSTAINABILITY IN TRENITALIA



Making the entire supply chain sustainable

ESG REQUIREMENTS

ESG criteria included into several purchasing procedures



ESG EVALUATION OF SUPPLIERS

“Sustainable Procurement & Supply Chain Management,” FS Group's new project for ESG assessment of suppliers



LCA R-PET

Life Cycle Assessment (LCA) study to compare the environmental impact of **R-PET bottles** distributed on board compared to the previous tetrapak packaging



Thank You



Kara Oldhouser

Director of Sustainability
and Vice-Chair of the UIC
Sustainability Platform

Amtrak

Sustainability at Amtrak

World Sustainable Transport Day, November 26, 2024



Overhead Contact System (OCS) Rail Electrification in the U.S.

**1% of U.S. rail network vs:
60% in Europe
72% in China
80% in Japan**

**NEC +
Commuter Rail**

Caltrain

— Not electrified
- - - Electrified

Map source: openrailwaymap.org

% electrification source:
<https://www.forbes.com/sites/michaelbarnard/2023/11/24/most-rail-is-already-electric-and-all-will-be-even-in-north-america/>



Zero-Emission* Rail Propulsion Technologies

Amtrak ZE Rail Focus



- Overhead Catenary System aka catenary
- Northeast Corridor (NEC) is electrified
- Remainder of Amtrak's national network not electrified and owned by host railroads
- Amtrak is open to new catenary partnerships, but new OCS not a cornerstone of ZE transition strategy



- Battery Electric
- Battery powers traction motor
- Charge batteries via plug-in, pantograph/ catenary, regenerative braking
- We could explore for shorter distances or maintenance equipment, but not viable for most routes



- Hydrogen fuel cell (hydrogen + electric current to power battery & traction)
- HFC rail powertrains are in their infancy stage and will require testing and research before becoming a full-scale Amtrak solution

Beyond Propulsion

NATIONAL NETWORK CLIMATE HAZARDS EXTREME HEAT





Said Chandid

Director of Strategy,
Communication and
Cooperation & Chief of UIC
Africa Regional Office

ONCF

World Sustainable Transport Day



Railways as an efficient and sustainable solution :



26 November 2024

Morocco, committed to sustainability



Alignment with SDGs and targeted objectives for 2030

-45,5%

GHG emissions



-20%

Energy consumption



80%

Decarbonized electricity

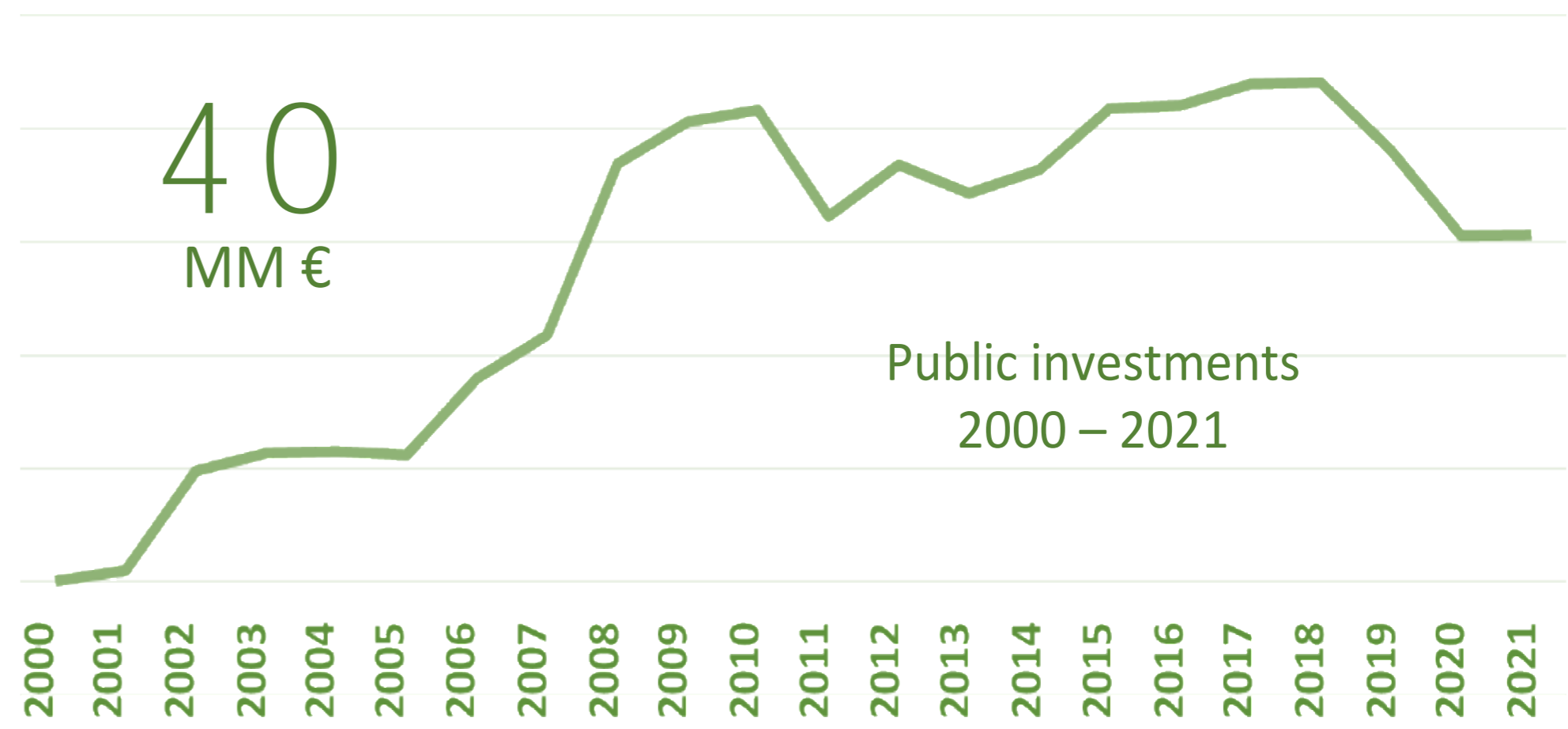


52%

Renewable energy (installed capacity)



Morocco, for a green mobility



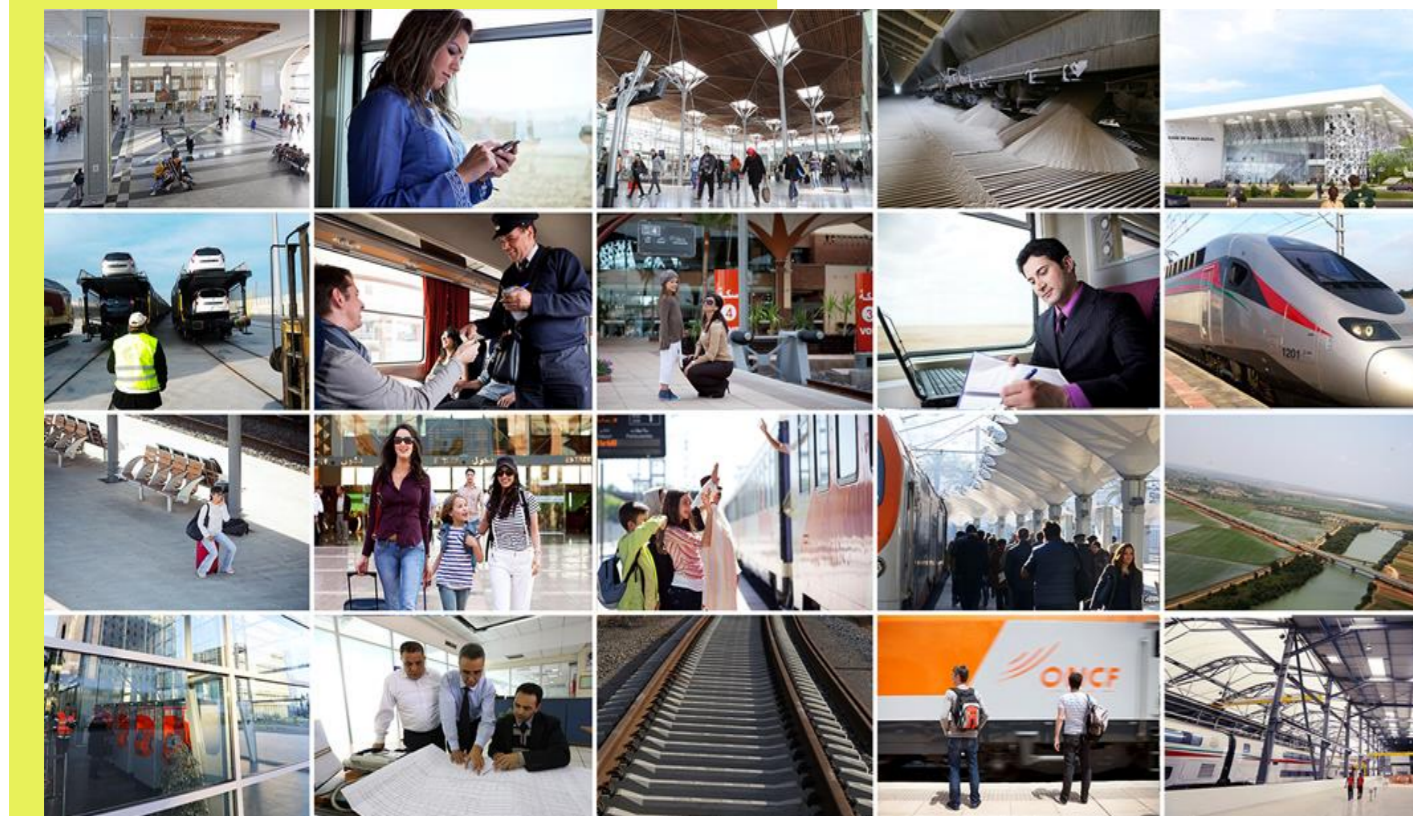
38%
Of overall
energy
consumption

28%
Of total
greenhouse gas
(GHG) emissions

-24%
Of energy
consumption by
2030

-7,9%
Efforts to mitigate
GHG emissions in
2030

ONCF, a player in sustainable mobility

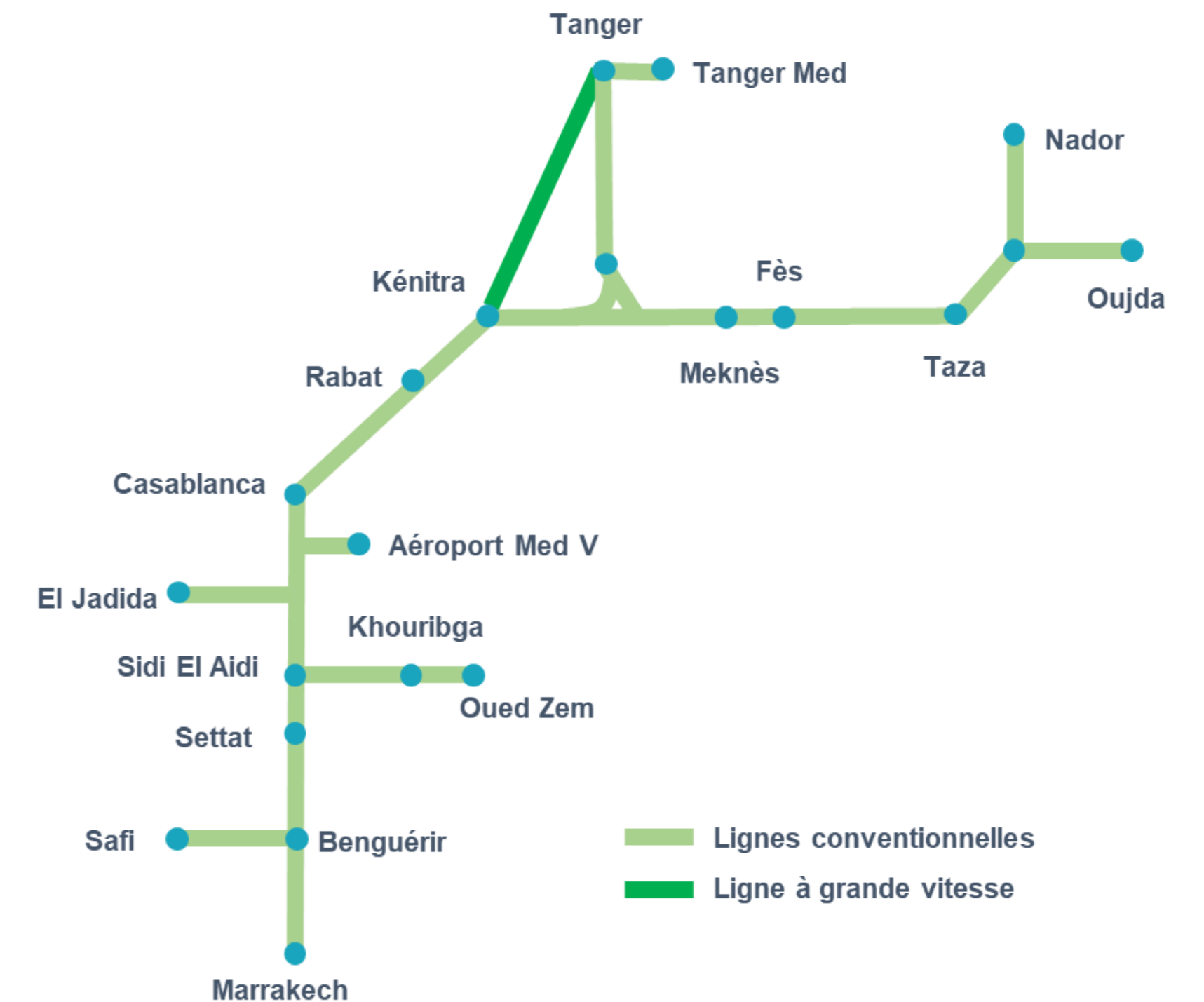


6827 Employees

3350 km of track
75% of electrified tracks
200 km of HS lines

53 million passengers
17 million T goods
4,5 billion in revenue

7 billion € invest. 2000-2020
33 World ranking
0,47% of GHG Morocco



ONCF, heading for carbo-neutrality by 2030



Reinforce the eco-responsible DNA of the railways as the backbone of sustainable mobility, in the service of carbon-neutrality and socio-economic prosperity, while viably meeting the expectations of stakeholders and future generations.

SUSTAINABILITY

Reducing our footprint and ensuring viability of the environmental system

SOBRIETY

Widespread use of clean energy and optimization of consumption

EXCELLENCE

Developing innovative services and optimizing the operational value chain

VIABILITY

Territorial coverage and perfecting the business model

ONCF, sustainable innovations and commitments

The environment, a top priority

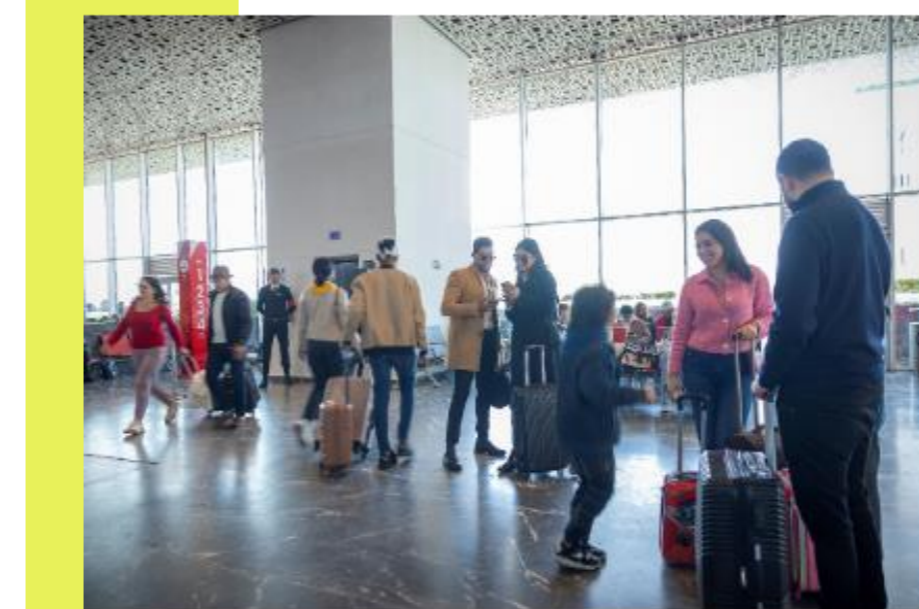


90%
Clean energy (traction)

-20%
GHG emissions (2023/2022)

14000 T
Recycled waste

Passenger innovations



82%
Satisfaction rate

89,5%
Regularity rate

23%
Share of online sales

Eco-friendly freight solutions



80000
Daily capacity (T)

4
Logistics platforms

17%
Market share

A resilient and sturdy network



1st
Arab-African ranking

99%
Infrastructure availability

120 M €
Securing rights-of-way

ONCF 2030, structuring projects for sustainability



Extension of the high-speed line to Marrakech (430 km)



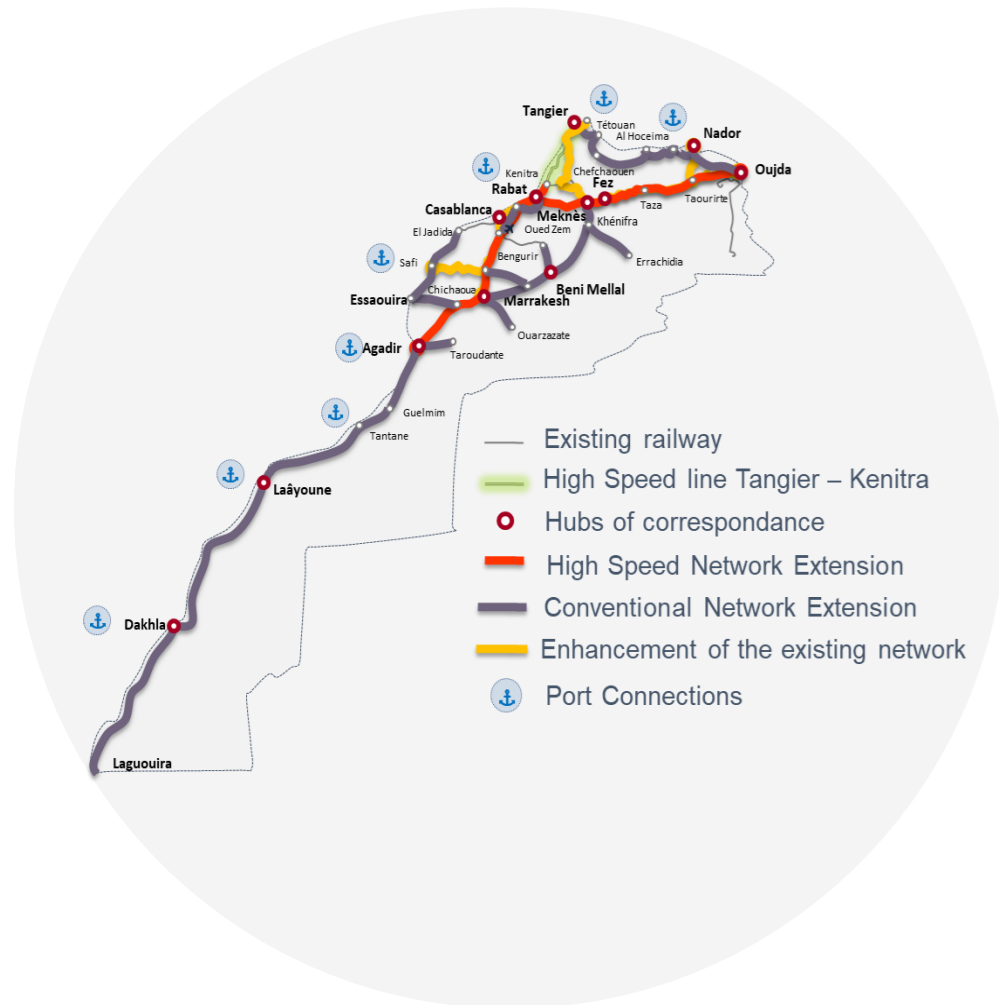
Development of RER services to major cities (220 km)



Program to acquire a fleet of 168 trains



Projects to maintain existing performance



73%

Population served (currently 51%)



1000

Trains per day
Quadrupling offer



0%

GHG emissions
Carbon neutrality



90%

Share of renewable energies



-8%

Number of road accidents per year



Thank you for your attention



Nargiz Samadova

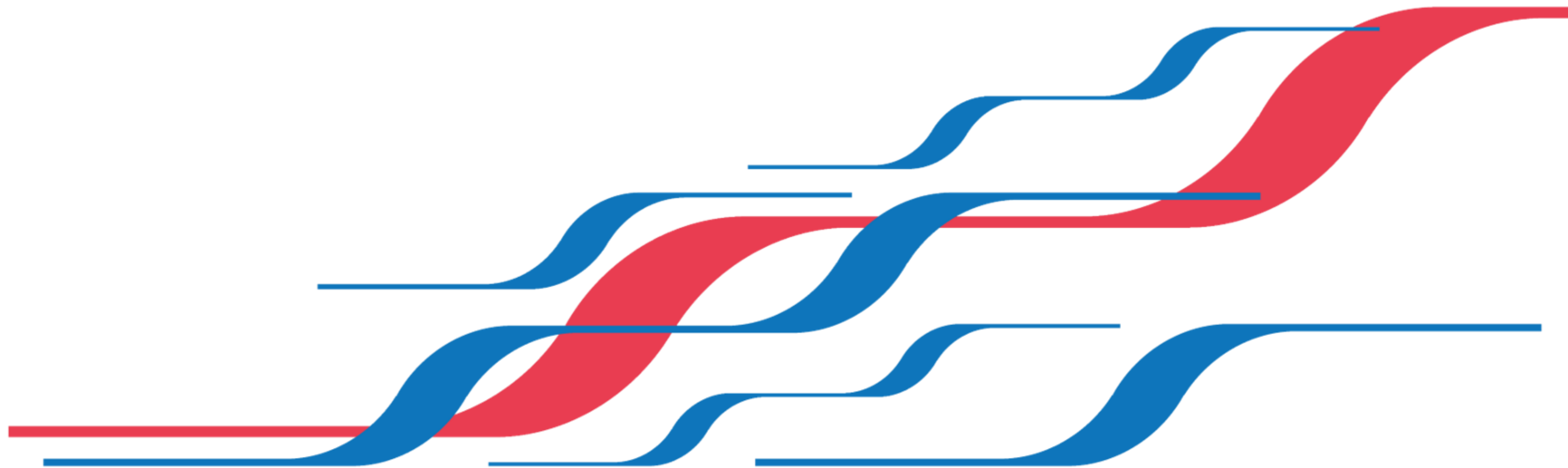
ESG Manager

Azerbaijan Railways (ADY)



Azərbaycan
Dəmir Yolları

Azerbaijan Railways



Strategic Importance of Azerbaijan Railways



Achievements of Azerbaijan Railways

- Reduced energy consumption by 5%, natural gas by 16%, and emissions by 9% since 2023
- ADY has electrified 63% of its network, ensuring that 100% of passenger and 80% of freight transport is powered by electricity
- ADY invests in digital tools and R&D for sustainability.
- Digitalization cuts emissions and enhances efficiency
- Real-time monitoring and paperless freight systems are operational

Sustainability Milestones

- Aligning with Azerbaijan's 2030 and 2050 climate goals;
- Supporting UN SDGs through electrification and innovation;
- Contributing to 9 UN Sustainable Development Goals;
- ADY is on track to achieve 100% carbon neutrality;
- ADY's electrification and decarbonization strategies directly support these goals by reducing dependency on fossil fuels;

Azerbaijan Railways contribution to NDC

ADY's activities are supporting the delivery and implementation of NDCs in many ways that align with the Key Recommendations of the **Rail NDC Template** launched for COP29 on **Ambition, Integration, Implementation, and Funding.**



Azərbaycan
Dəmir Yolları



CLOSING REMARKS



INTERNATIONAL UNION
OF RAILWAYS

Thank you for your attention

CONTACT
Sustainability@uic.org

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WATCH NOW 

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