



INTERNATIONAL UNION
OF RAILWAYS

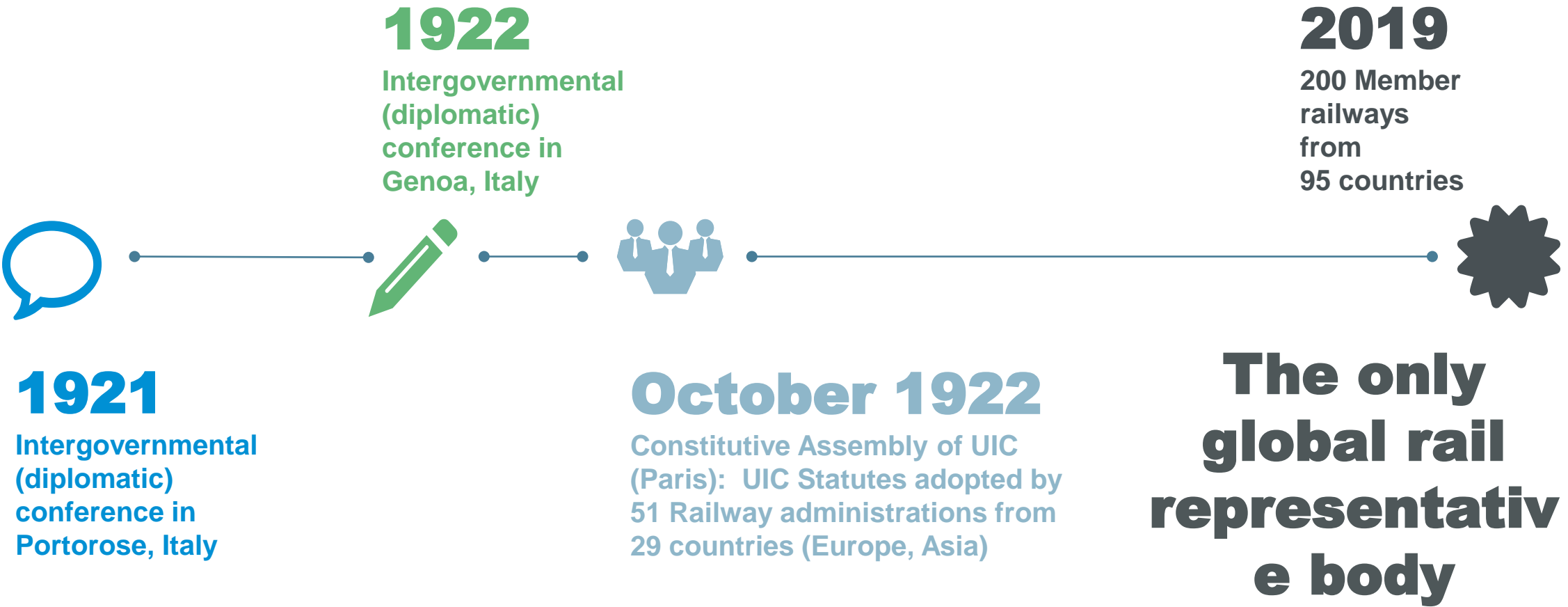
MAKING RAIL FREIGHT MORE COMPETITIVE

EATL, GENEVA 25.11.2019

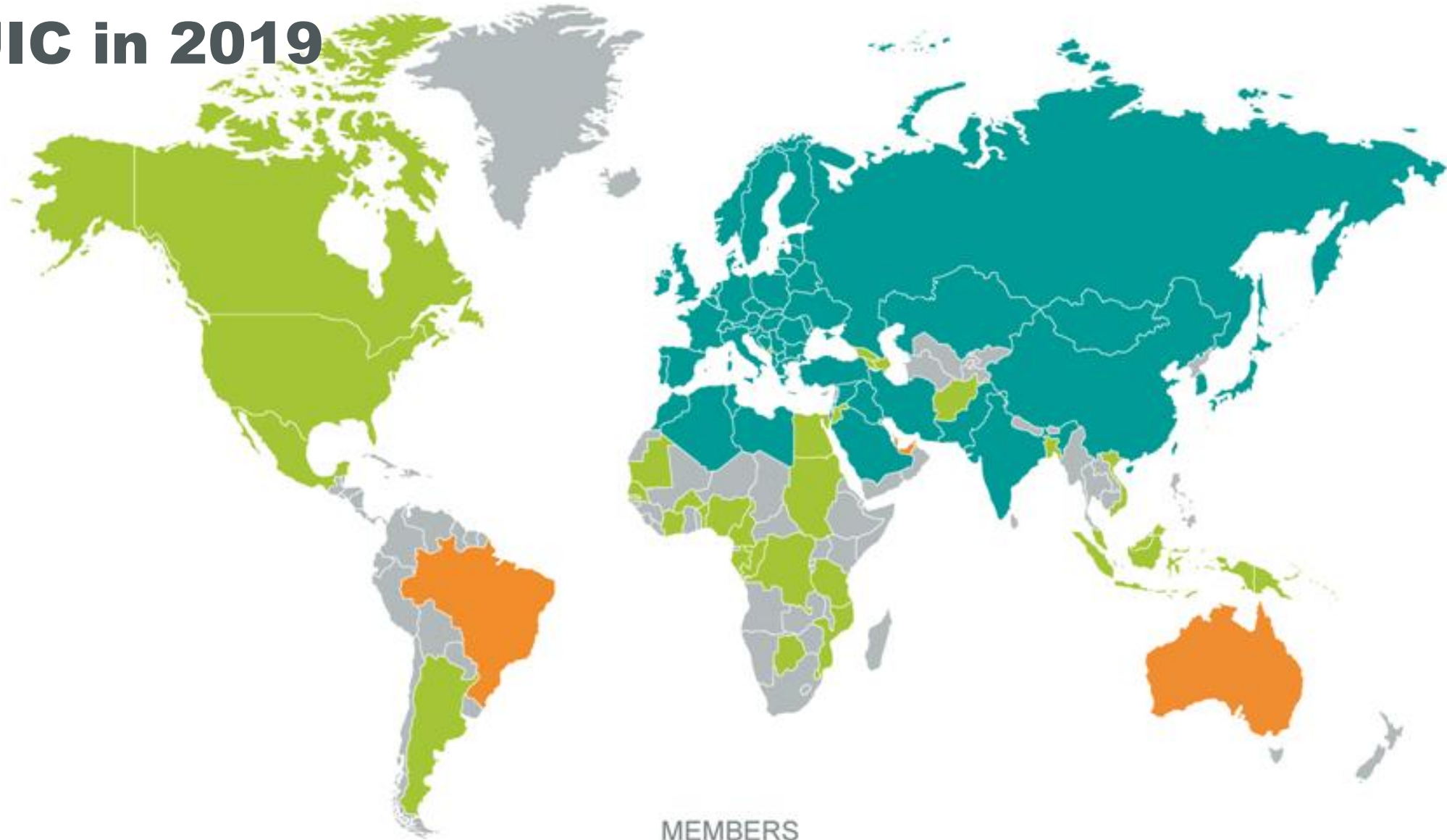
Sandra GEHENOT
Freight Director

- UIC: overview
- Strategic focus areas in the freight domain
 - Regional priorities and common priorities to different regions
 - Exchange of best practices is key
 - Zoom on interoperability /capacity optimisation – digitalisation
- Corridor concept at the heart of freight development
- Examples of initiatives

UIC, a long history at the service of member railways and international railway cooperation



UIC in 2019

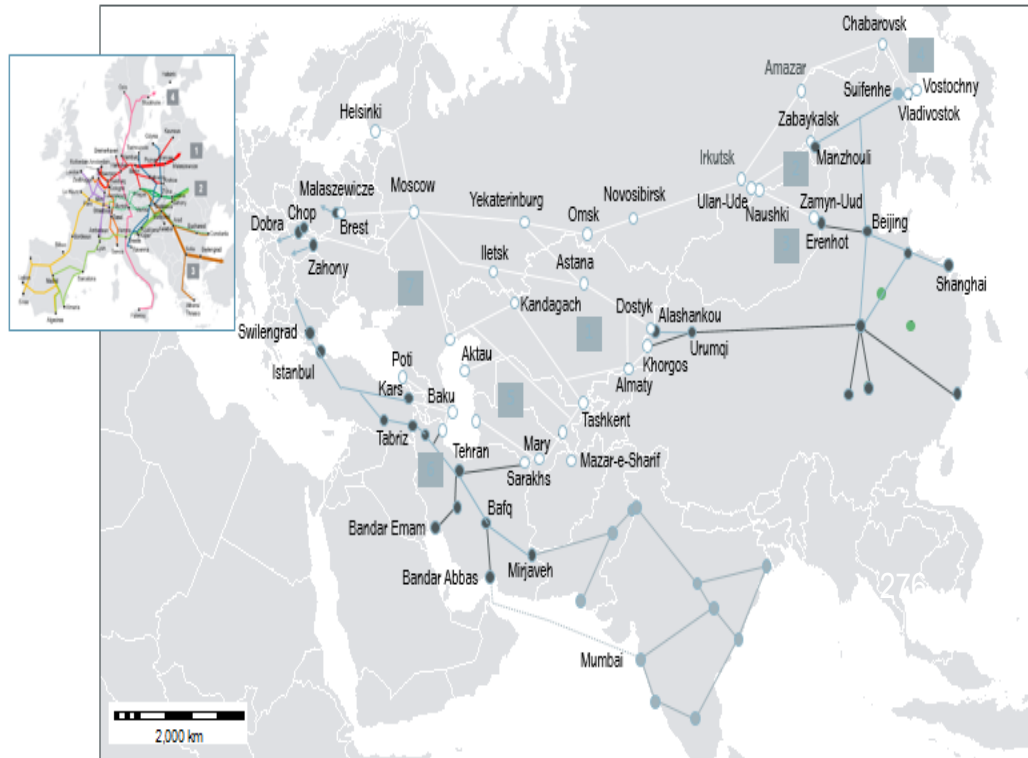


MEMBERS

- ACTIVE
- ASSOCIATE
- AFFILIATE

Plus a growing network of research bodies and universities

Asia-Middle East



1) Conical projection to minimize visual distortion of distances; numbering based on route usage for Eurasian rail freight transport

Track gauge
— 1,520 mm
— 1,435 mm
— 1,676 mm

Source: [UNESCAP](#) Roland Berger

Europe



**RAILFREIGHT
FORWARD**
EUROPEAN RAIL FREIGHT VISION 2030

30 by 2030

Rail Freight strategy to boost modal shift

Vienna, December 5th, 2016
Confidential and proprietary

<https://railfreightforward.eu/>

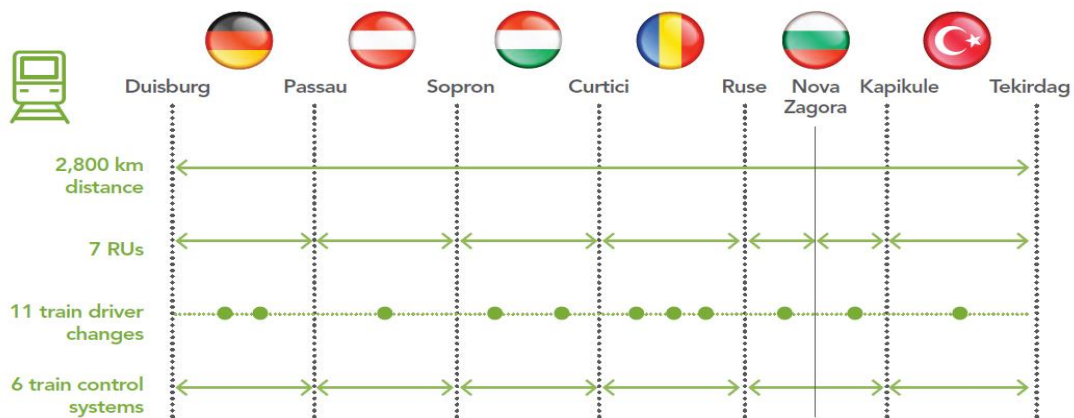
Growth and modal shift require drive through philosophy & products in line with customer demand

INTEROPERABILITY

leading to solutions driven by the Sector

Hence, RUs need to manage tremendous and costly complexity to fulfil customer demands

Complexity of rail freight vs. road operations



End-to-end, any driver, on any EU truck, under same mandatory driving times and rest periods

Harmonise operational processes & “Cross border philosophy”

examples:

- Driver language pilots based on predefined messages & digital tools
- Unified braking scheme

Simplified and safe wagon exchange processes

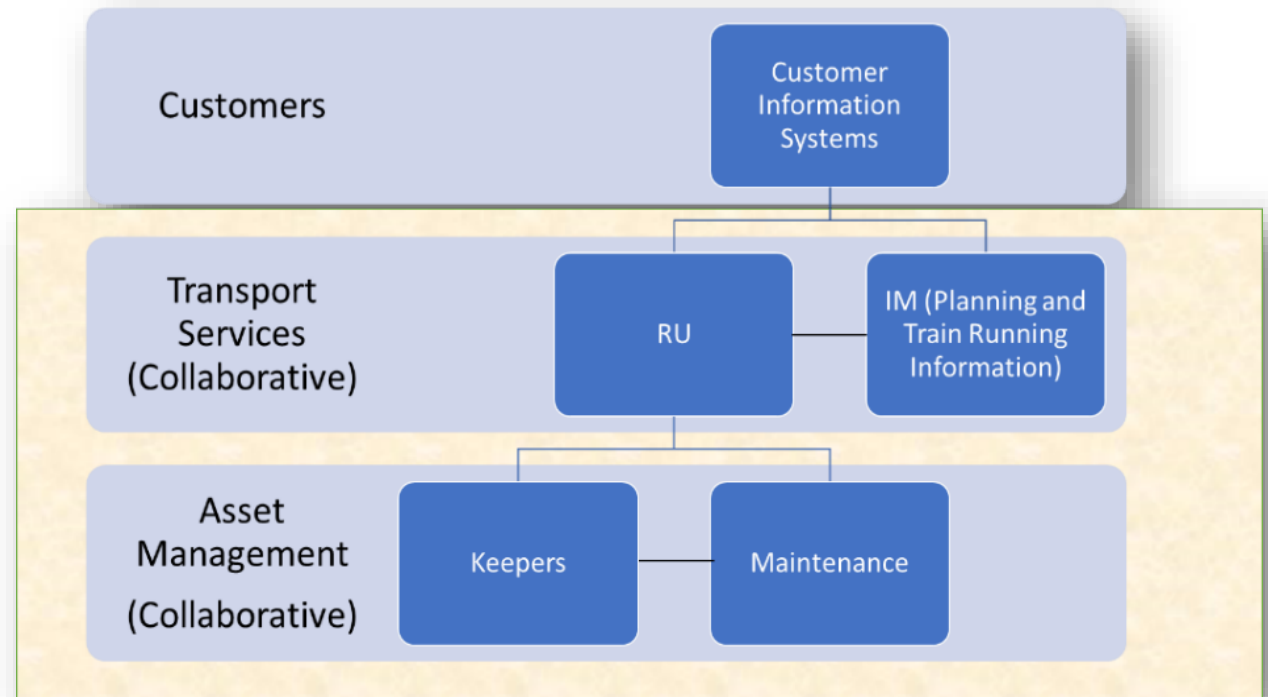
DIGITALISATION: standardisation and data exchange

Strategic positioning

Digital road map for freight: agreement on collaborative landscape

Key topics

- Estimated Time of Arrival
- Electronic consignment note
- Train composition messaging
- Intelligent wagon/train
- Location codes
- Train ID

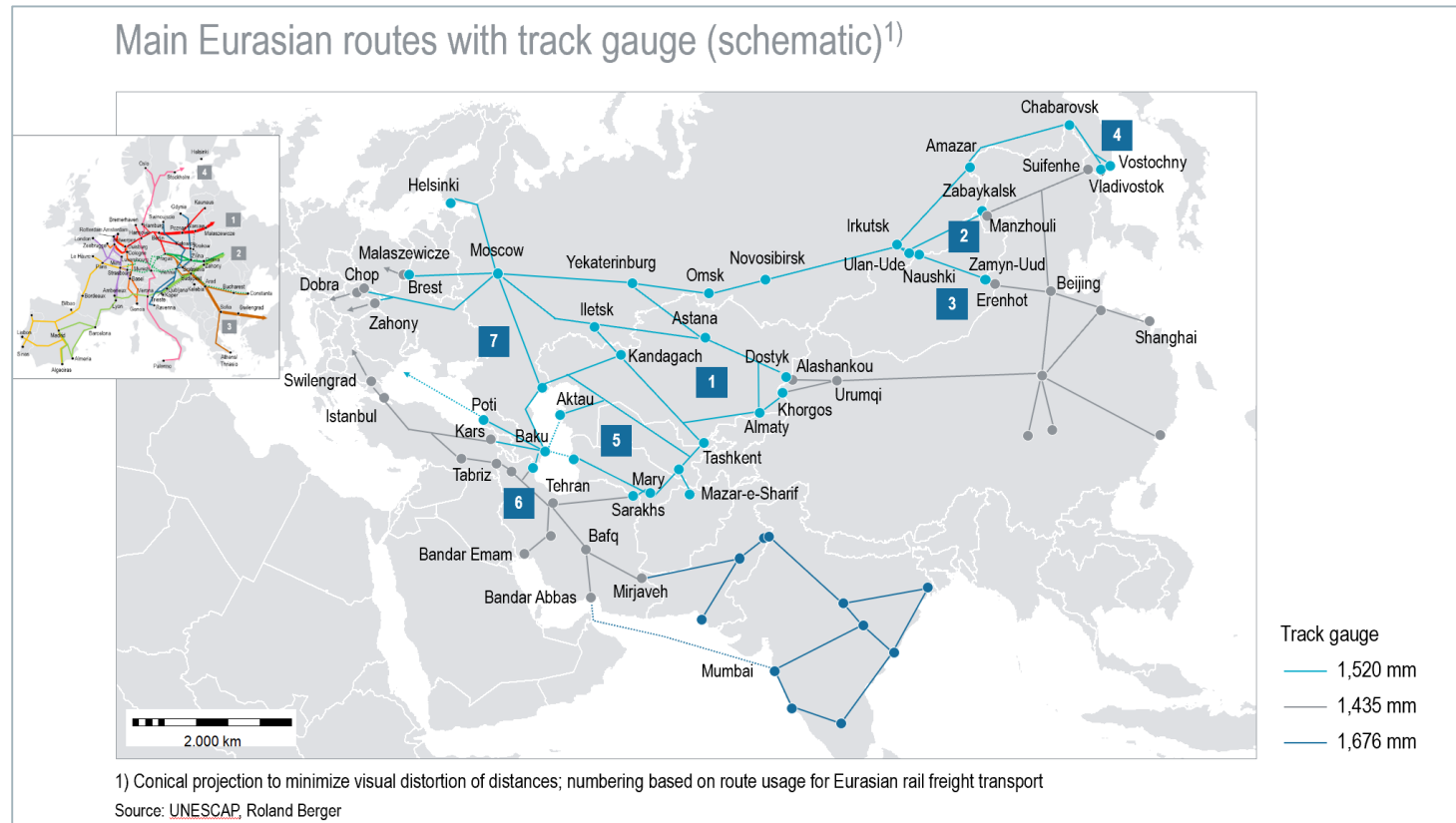


GLOBAL DIMENSION

Corridor development and process optimisation

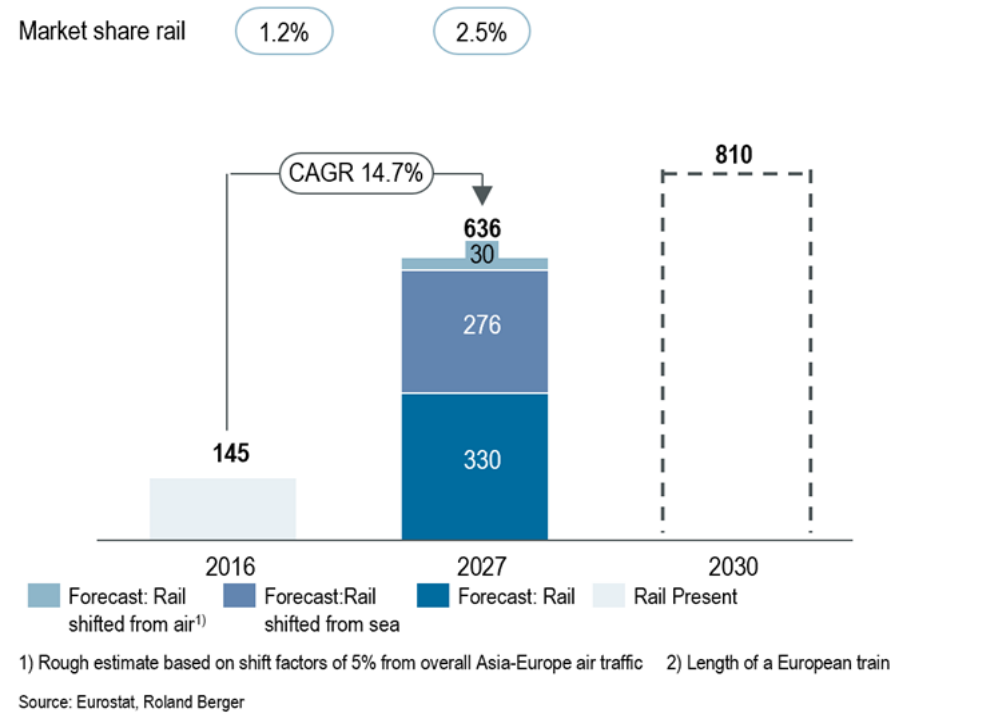
- ✓ Market Watch
- ✓ Digitalisation projects
- ✓ Operational interoperability – best practice exchange seminar

Global Rail Freight Conference

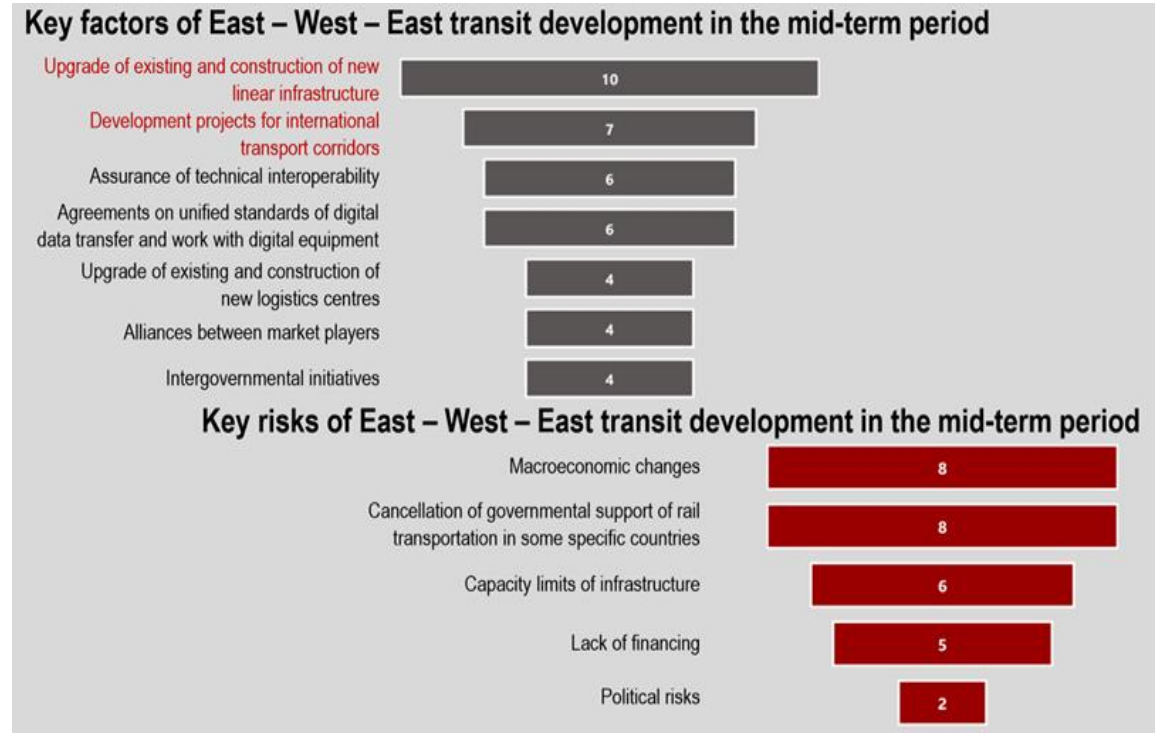


CORRIDOR APPROACH in high demand

Rail potential base case forecast ['000 TEU]



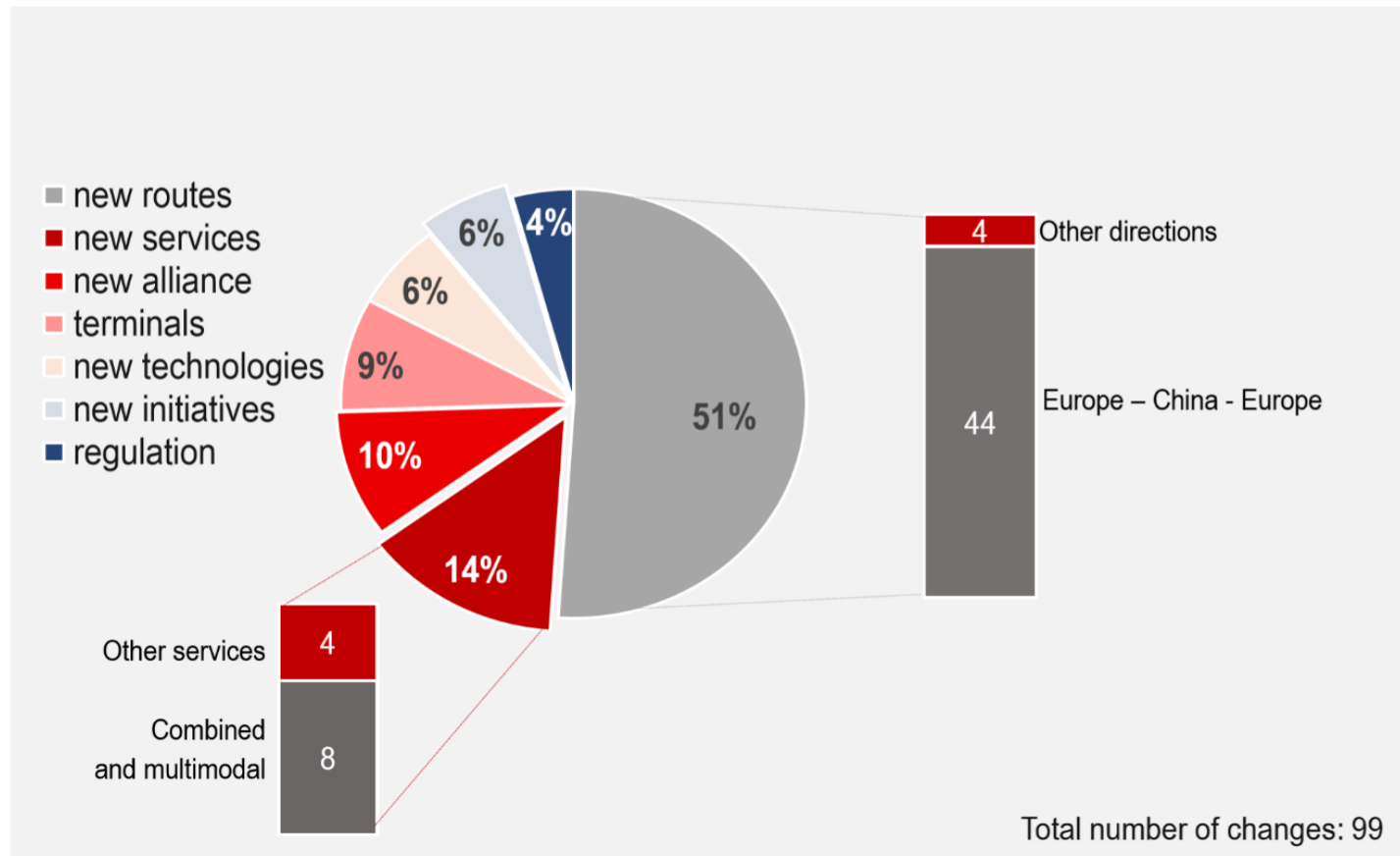
Source: Roland Berger Study for UIC, 2017



Source: IEC study for UIC, 2019

CORRIDOR APPROACH in high demand

CHANGES IN EURASIAN RAIL TRANSPORTATION SINCE 2016.



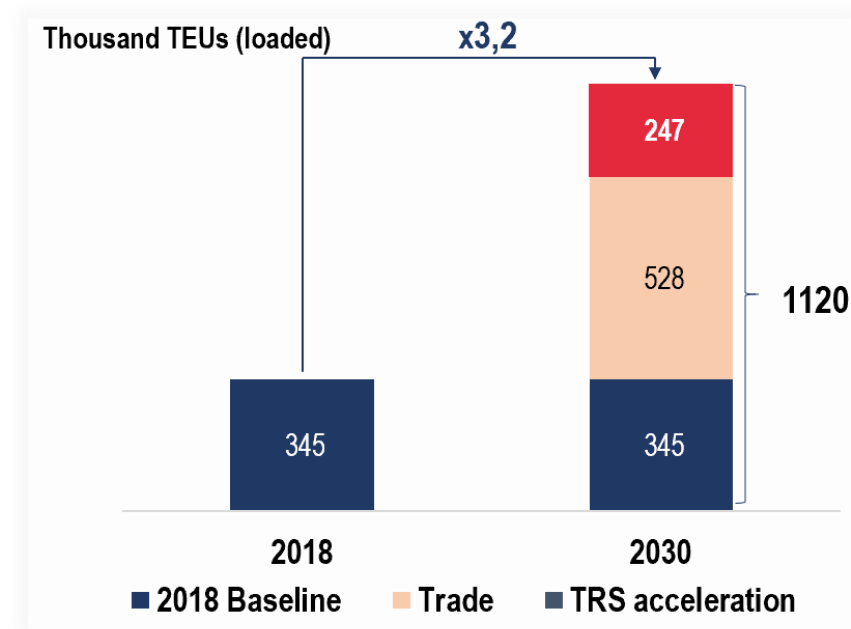
Source: IEC study for UIC_2019

MEASURE ASSESSMENT – IEC study for UIC

- ✓ Speed improvement
- ✓ Border crossing improvement
- ✓ 100% use of CIM / SMGS consignment.
- ✓ Combined scenario
- ✓ Decreasing Chinese subsidies

SPEED on TSR

- baseline economic scenario
- acceleration of railing speed for block-trains from Vladivostok to Krasnoe to 7 days (9,5% till 2024)
- inertial acceleration of railing speed in other countries considered as 1,5% per annum
- no other infrastructural changes or changes in tariffs / prices

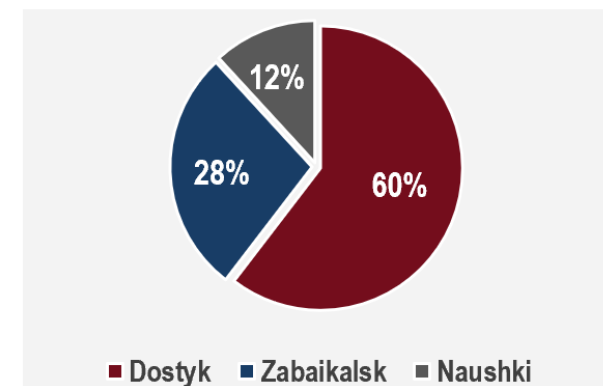


+247
thous. TEUs

changes
in flows

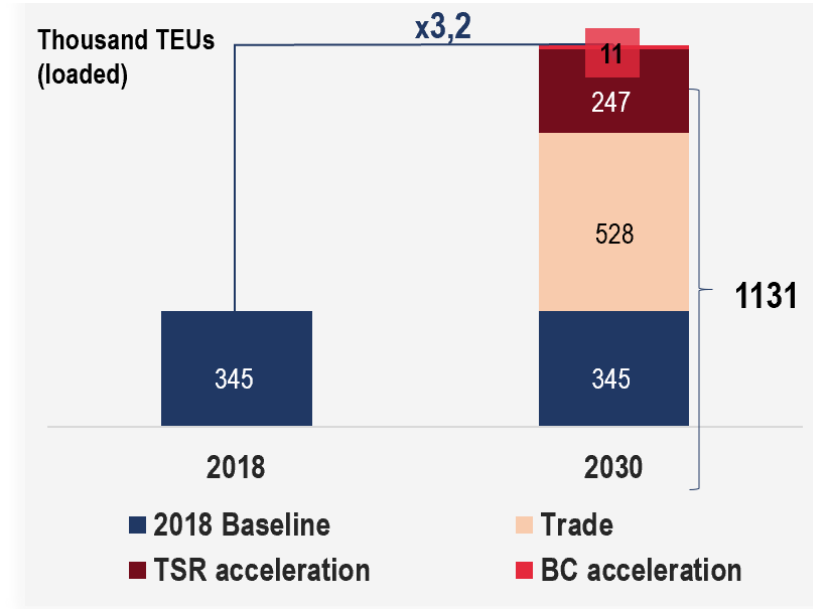
Westbound
57,9%

Eastbound
42,1%



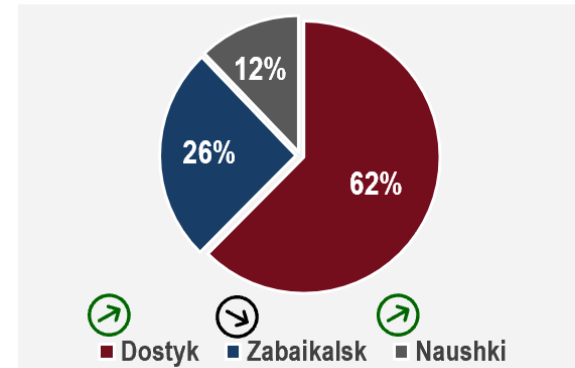
BORDER CROSSING

- baseline economic scenario
- acceleration of railing speed for block-trains from Vladivostok to Krasnoe to 7 days (9,5% till 2024)
- inertial acceleration of railing speed in other countries considered as 1,5% per annum
- acceleration of border-crossing, gauge-change and customs formalities time to 3 hrs



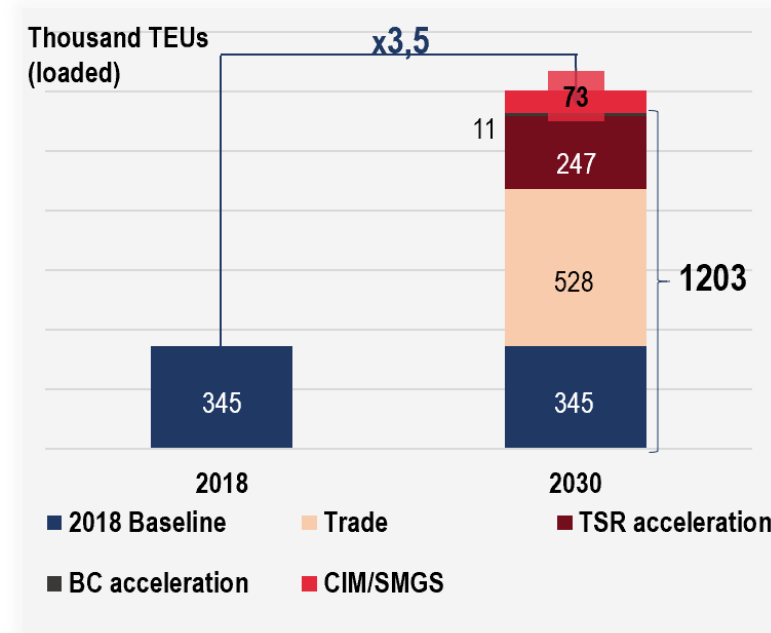
+11
thousand TEUs

changes
in flows



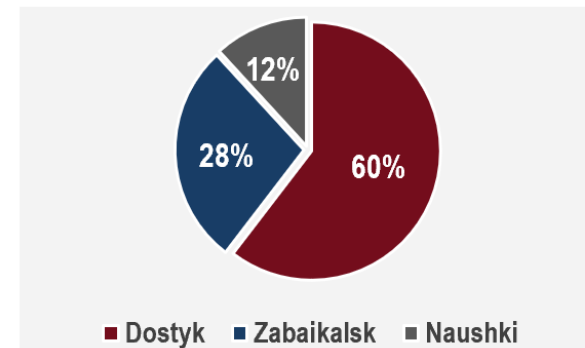
100% USE OF CIM-SMGS

- baseline economic scenario
- acceleration of railing speed for block-trains from Vladivostok to Krasnoe to 7 days (9,5% till 2024)
- inertial acceleration of railing speed in other countries considered as 1,5% per annum
- acceleration of sum border-crossing, gauge-change and customs formalities time to 3 hrs
- 100% use of CIM/SMGS, including e-consignment*



+73
thousand TEUs

changes in flows

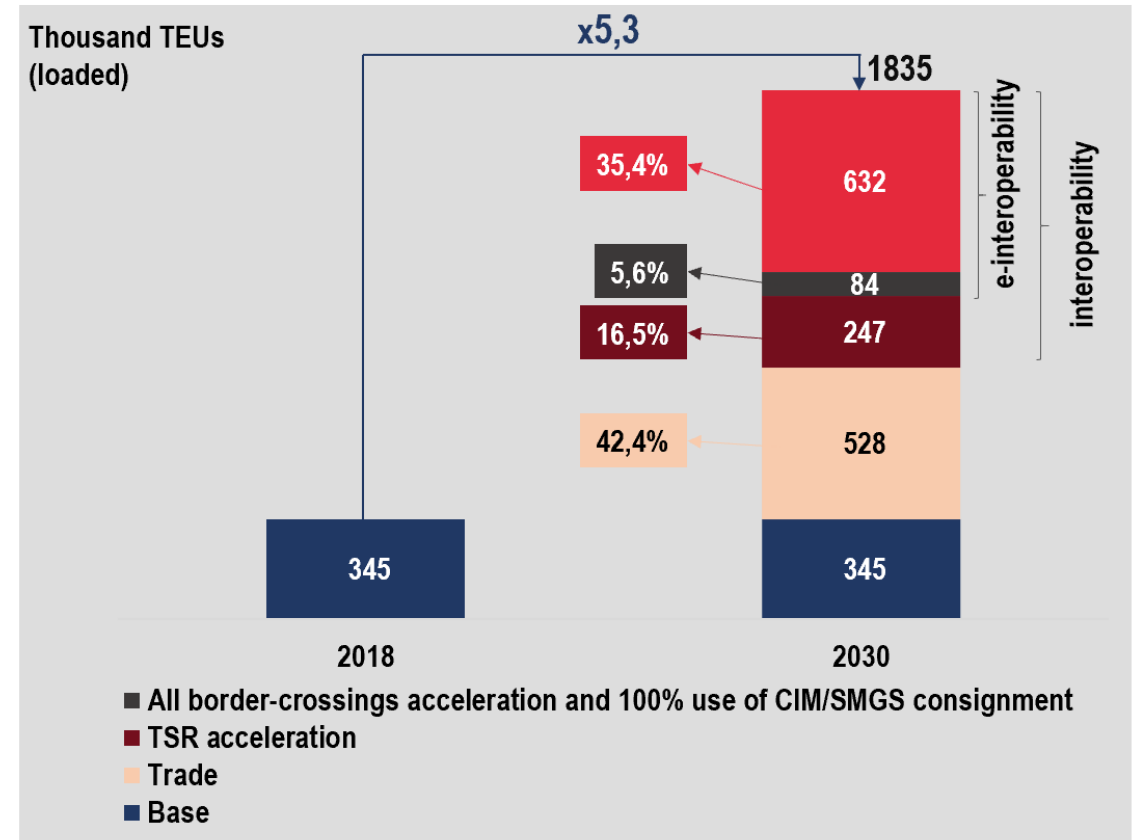


COMBINED SCENARIO

- baseline economic scenario
- acceleration of raling speed for block-trains from Vladivostok to Krasnoe to 7 days (9,5% till 2024)
- inertial acceleration of raling speed in other countries considered as 1,5% per annum
- acceleration of sum border-crossing, gauge-change and customs formalities time to 3 hrs
- 100% use of CIM/SMGS, including e-consignment*

+963
thousand TEUs

**changes
in flows**



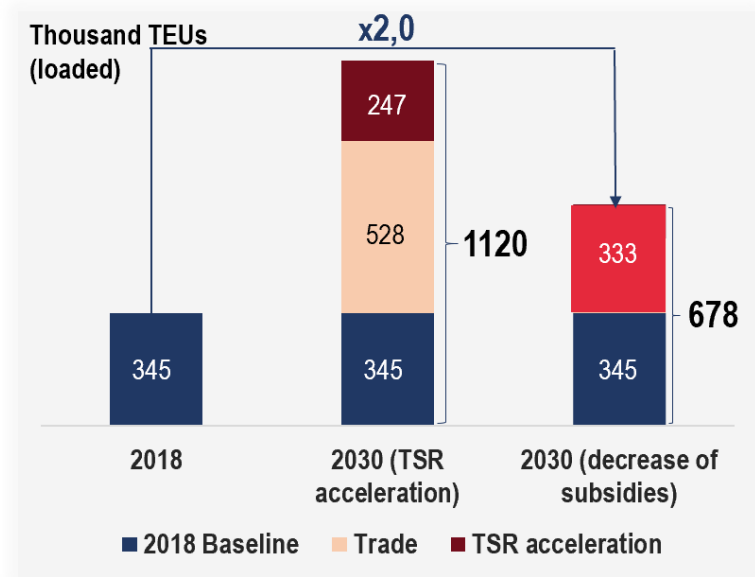
*corresponding to 3% economies according to CIT

resulting in 3% costs decrease (CIT data)

Source: IEC study for UIC, 2019

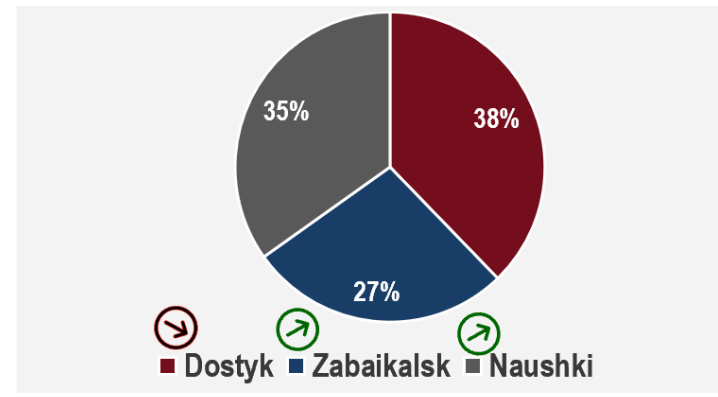
DECREASING SUBSIDIES

- baseline economic scenario
- acceleration of railing speed for block-trains from Vladivostok to Krasnoe to 7 days
- inertial acceleration of railing speed in other countries considered as 1,5% per annum
- decrease of rail subsidies in China from 50% to 20% (starting from 2020, 10% decrease per annum)



-442
thousand TEUs

**changes
in flows**



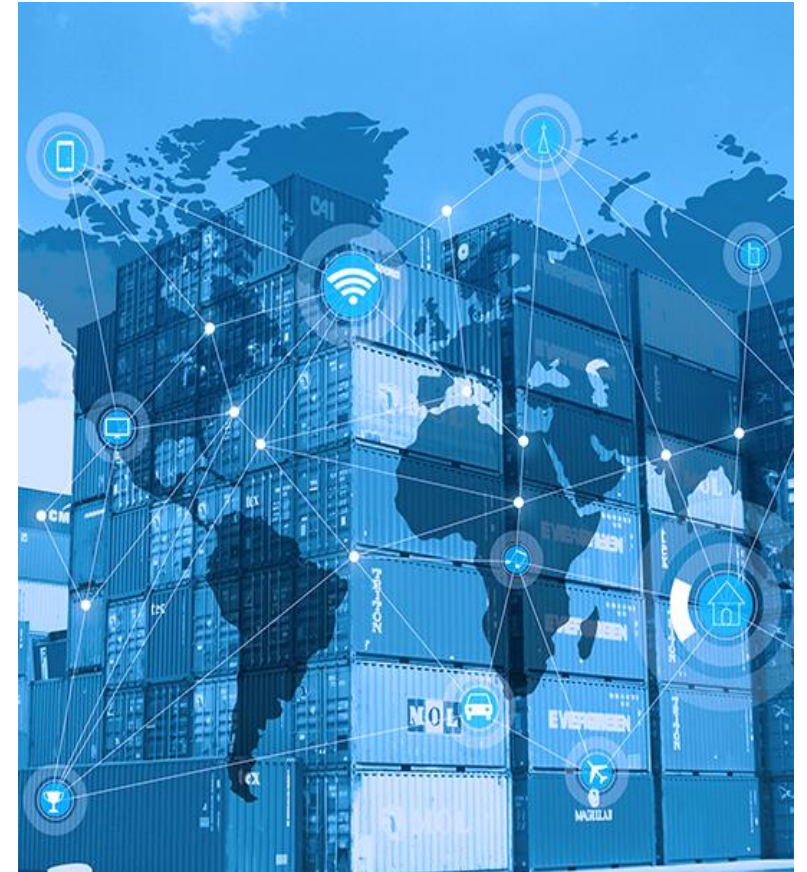
Source: IEC study for UIC, 2019

CORRIDOR APPROACH: digitalisation initiatives

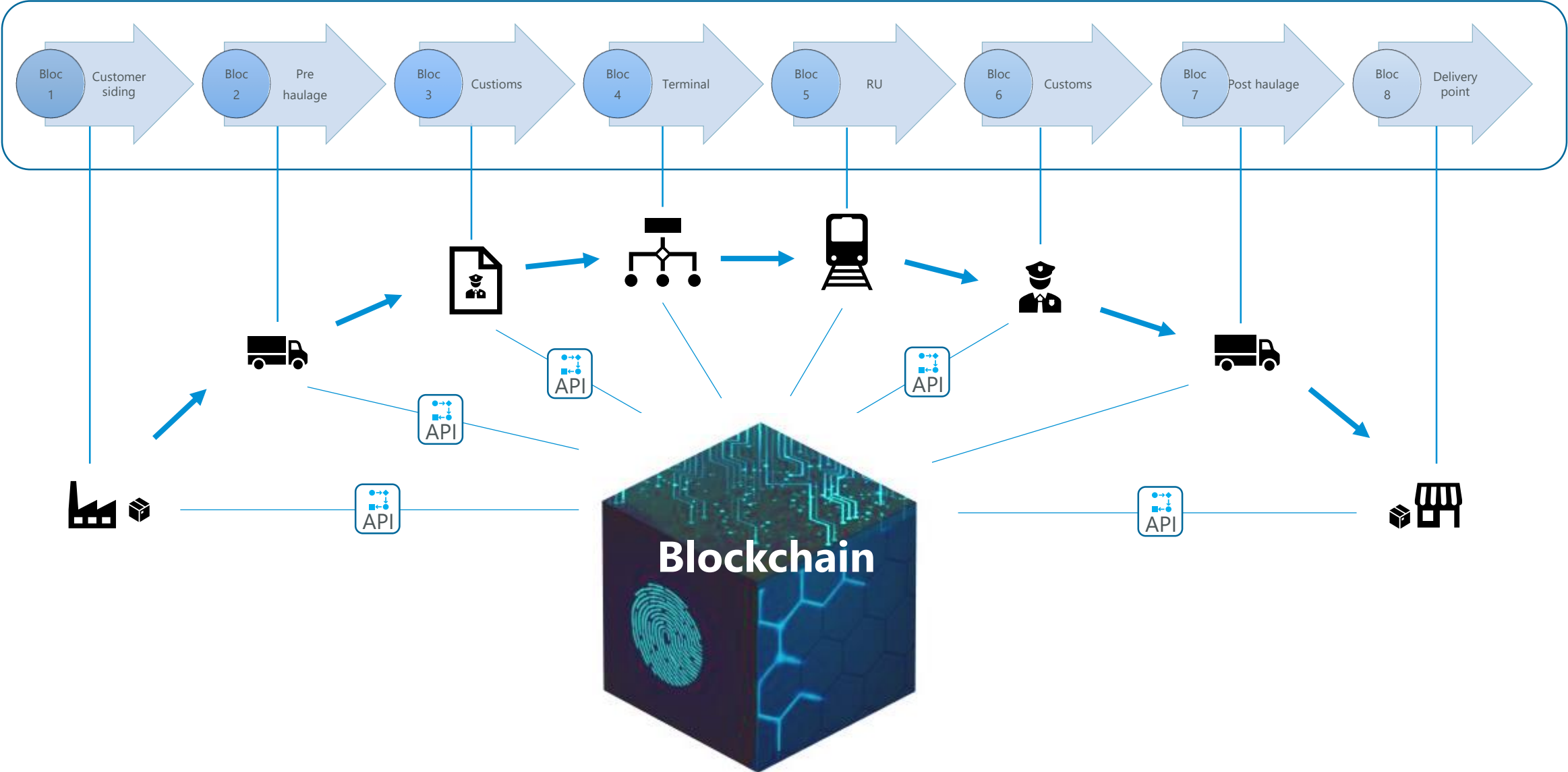
ESI project (electronic seal interoperability)

Inception through UIC – CCTT stakeholder workshop :

- « From Electronic Seals to Smart Containers for reliable door-to-door solutions »
- April 2019
- Over 50 stakeholders
 - From the entire transport chain
 - From manufacturing industry
- Led to joint concrete action plan



CORRIDOR APPROACH: digitalisation initiatives



CORRIDOR APPROACH: digitalisation initiatives

INTERTRAN project

- initiated by Russian Railways in October 2018 in the framework of the UIC Asia-Pacific Regional Assembly
- In collaboration with other UIC members of the region
- With the support of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)
- The project aim: develop multimodal transportation & increase the competitiveness of rail transport especially thanks to IT technologies



« Cutting edge technology for a new generation of freight mobility »



2-4 June 2020
RIGA, LATVIA





INTERNATIONAL UNION
OF RAILWAYS

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www.uic.org



#UICrail

Thank you for your kind attention.