

FREIGHT RESILIENCE, RAILWAY LOGISTICS & THE NEW CHALLENGES FOR ITS REPOSITIONING



African Railway Thursdays

7th webinar

24 February 2022

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- This meeting will be recorded / **Cette réunion sera enregistrée.**

Programme

OFFICIAL OPENING (11h-11h15)

Mr Mohamed Rabie Khlie, Chairman UIC Africa, UIC Vice-Chairman

PANEL N°1 (11h15-11h45): Railway freight in the centre of global logistics challenges

Moderator: Mr Philip Van Den Bosch, UIC Freight Senior Advisor

Resilience of Rail Freight in case of Global Pandemic

Mr Philip Van Den Bosch, UIC Freight Senior Advisor

Modal shift as key lever to realise COP21 Paris goals 2050

Ms Christine Vanoppen, Chairman of the UIC Sustainability group

Q/A Session

PANEL N°2 (11h45-12h45): Railway Network experience

Moderator : Mr Saïd Chandid, UIC Africa Regional Office

Achieving Favourable Conditions for Rail Freight

Mr Alfred Pitnik, Head of Public and Cargo Affairs, ÖBB-Holding AG

Connecting to the hinterland as part of the Rail freight policy of the Port of Zeebrugge

Mr Johan Abel, Chief Officer Logistics and Sales, Port Authority Zeebrugge

ONCF Freight & Logistics

Mr Oubrahim Mohammed, ONCF Commercial Director Freight

Supply Chain Resilience by the introduction of Multimodality – Cato Ridge Dry Port

Mr Warwick Lord, CEO, Cato Ridge Consortium

Ethio-Djibouti Railways Experience

Mr Tilahun Sarka, DG EDR

Q/A Session

Webinar Break

PANEL N°3 (13h-13h30): Tools & Methodologies

Moderator: Mr Philip Van Den Bosch, UIC Freight Senior Advisor

Tools to develop freight transport and logistics in a sustainable way

Mr Lukasz Wyrowski, UNECE

Corridors as enable for international logistic development

Mr Philip Van Den Bosch, UIC Freight Senior Advisor

Q/A Session

CONCLUSIONS (13h30-13h35)

Mr Saïd Chandid, UIC Africa Regional Office

OFFICIAL OPENING



Mohamed Rabie Khlie

SPEECH FROM THE
PRESIDENT OF THE UIC AFRICA REGION
AND VICE-PRESIDENT OF THE UIC



The rail freight and the **GLOBAL** logistics

A relaunch under the sign of eco-mobility...



3,5 x
less external costs

9 x
less CO₂ emissions

6 x
less energy consumed

8 à 10%
Market share

Rail freight, beneficial for the planet: on average, and per tonne km transported, it represents, compared to the road, remarkable performance, but...

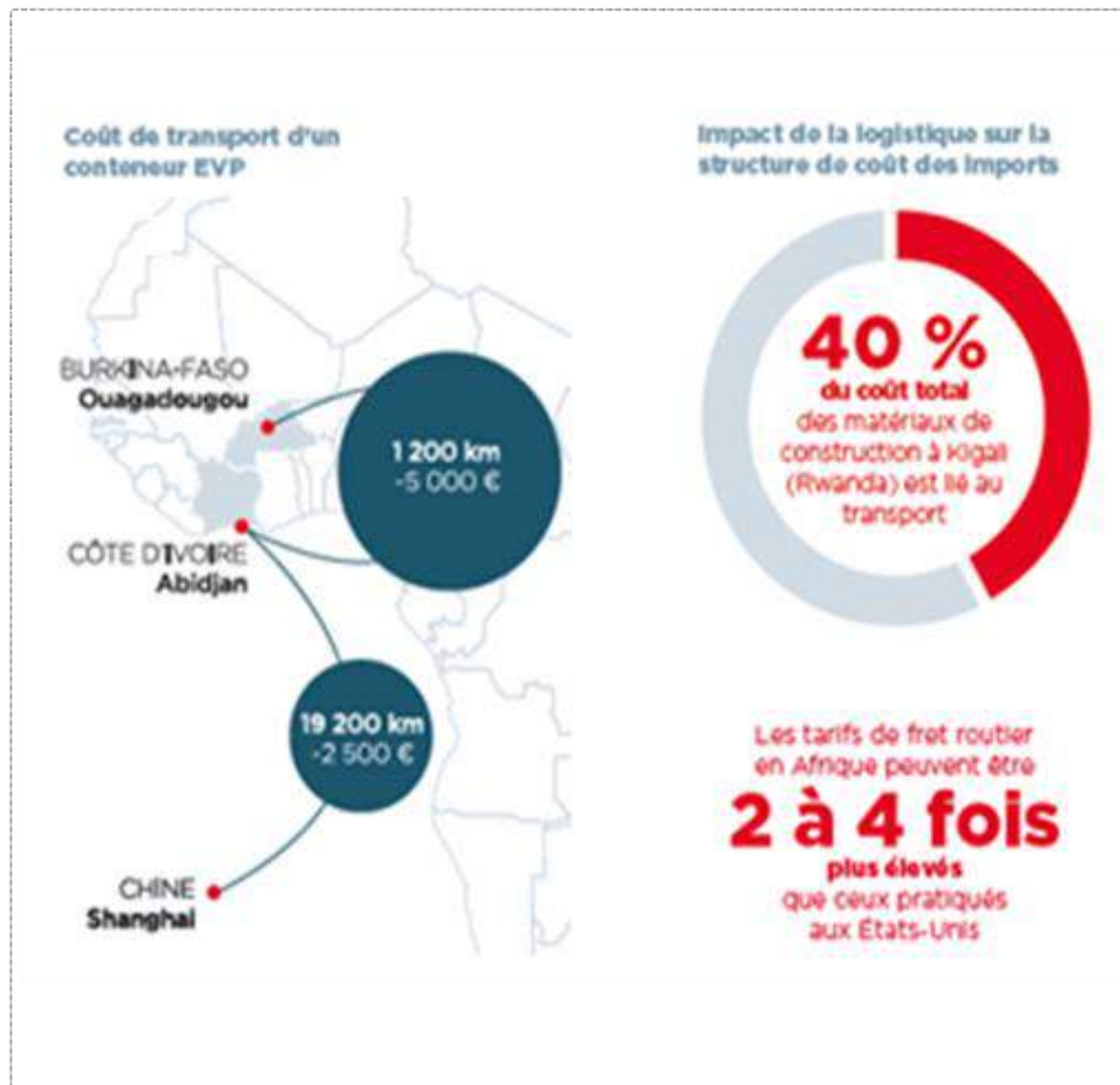
Logistics in **AFRICA**,

a sector to be boosted in the face of emerging markets...

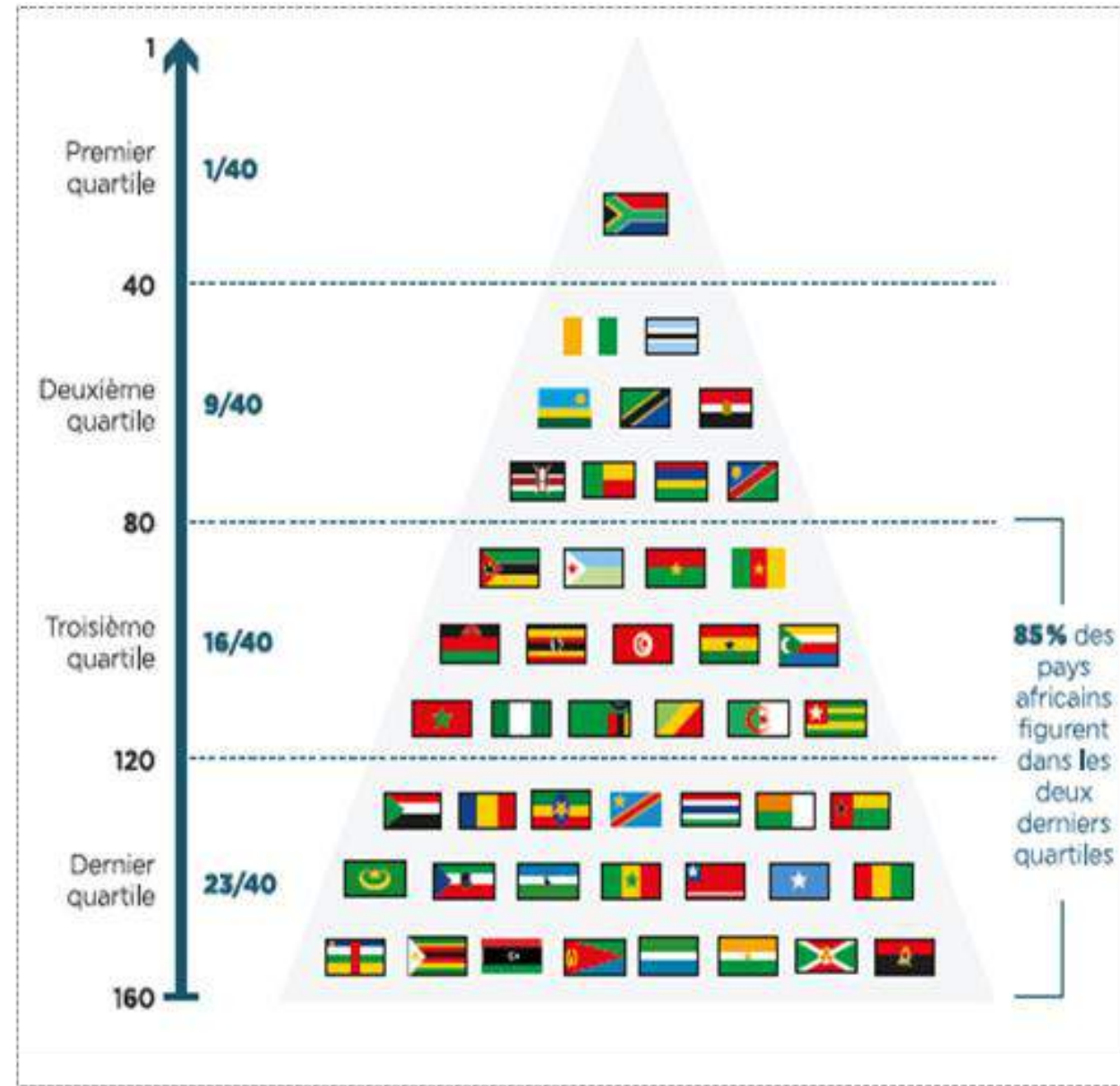
- 85% of ranked African states are in the bottom two quartiles of the Logistics Performance Index
- The equivalent of 1 to 2% of continental GDP is devoted to logistics: 42% of 2017 investments in infrastructure (\$26.6 billion/8.89 in 2001)

- Landlocked countries suffer from deficient logistics
- Major continental logistics corridors are beginning to take shape, linking coastal countries to hinterlands

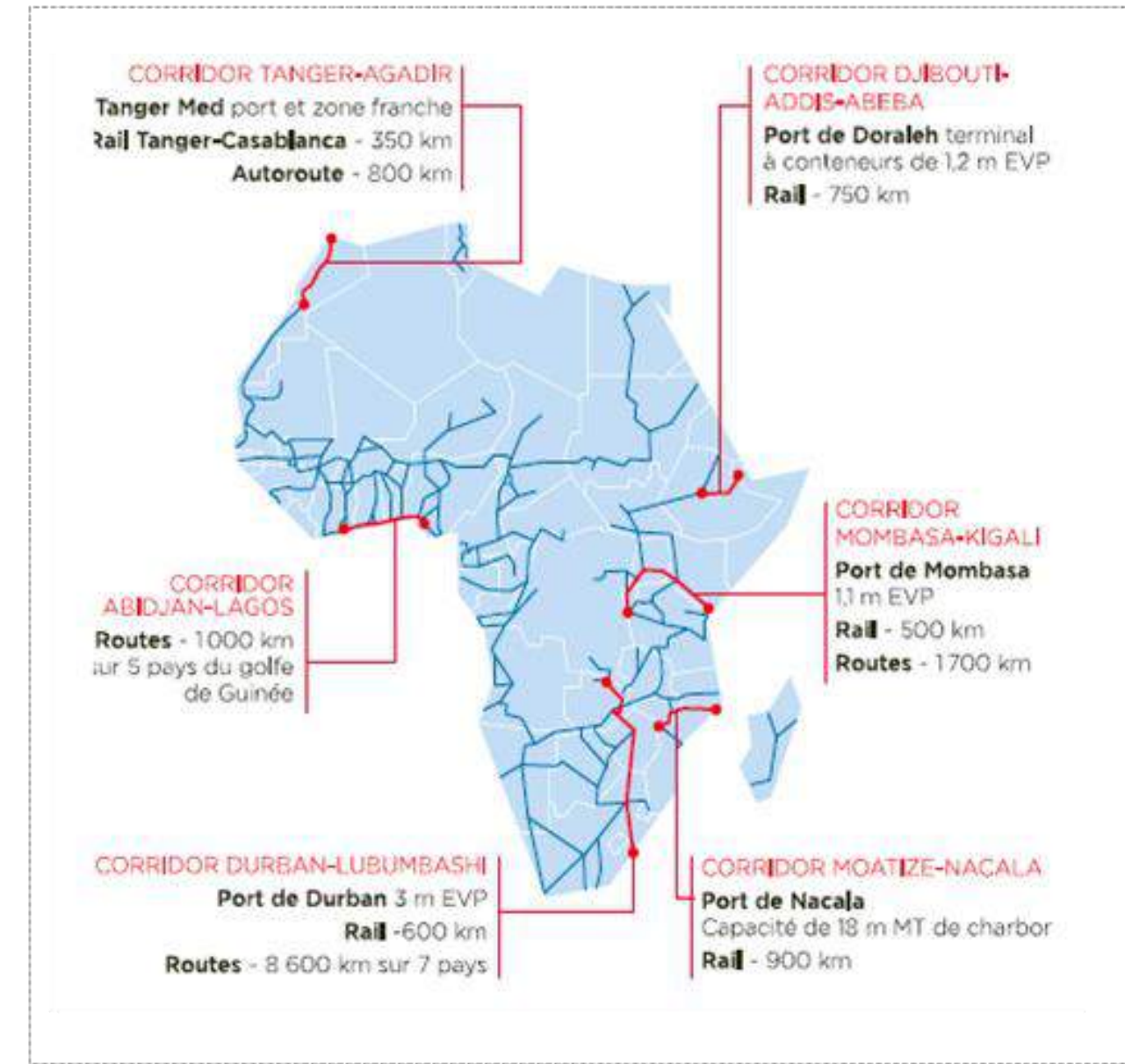
- Logistics services remain unsophisticated compared to emerging markets
- Logistics giants able to provide world-class solutions are gradually establishing themselves in Africa



Transport cost and logistics impact

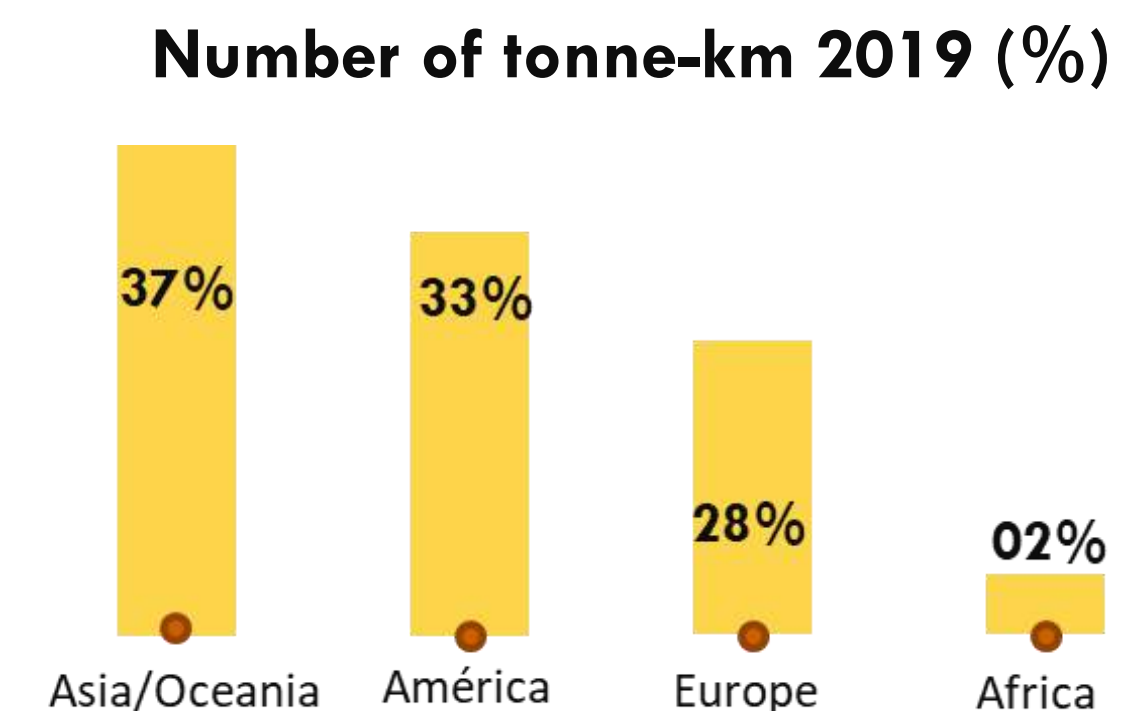


Positioning in the 2018 LPI ranking



Key logistics corridors developed

Rail freight and logistics in **AFRICA**, *brakes for its positioning...*



- Deficiency in regulatory organs
- Sector regulatory deficit
- Moderate private sector involvement
- Lack of intermodality
- Strong competition

- Leverage for resource export
- Delay in professionalization
- Absence of 'shift modal' promotion
- Low network density
- Lack of maintenance

- Mixed positioning
- Market share losses
- Performance degradation
- Low fallout for communities
- Low competitiveness and reliability

Rail freight and logistics in **AFRICA**, *revitalization is needed...*



Agenda 2063 as a new benchmark 'the Africa we want'

The continent's integration process: ZLECAF, the largest free trade

Heavy factors of change that are reshaping the future and the place of rail

The development projects decided upon: continental TGV, PIDA programme...

Development of the competitiveness of the African economy and its positioning

3,3

Africa GDP (\$ trillion)

1,2

Population Africa (billion)

30 to 40%

Value of imported products corresponds to transport

Rail freight and logistics in **MOROCCO**, *key component of the national logistics competitiveness strategy...*



Become a transport and logistics operator capable of offering global and integrated logistics solutions (Door to Door)

- **Development, construction and operation of platforms**
- **Development of sector logistics plans**
- **Massification of flows within the ports**

Rail freight and logistics,

Time to decide to combine economic logic and ecological transition...



AUTHORITIES AND STAKEHOLDERS

- Establishment of regulatory authorities
- Promoting the modal shift and complementarity
- Adoption of regulatory and tax incentives
- Creation of integrated logistics operators
- Support for modal shift in ports
- HGV traffic regulation
- Internalization of external costs

COMPANIES/ RAILWAY OPERATORS

- Pursue restructuring/modernization
- intensify efforts of quality, flexibility
- Offer integrated multimodal solutions
- Accelerate digitization: production/services
- Promote sustainable mobility
- Development of expertise (partnerships)
- Develop multimodal hubs

Courageous measures for a structured, viable, reliable and competitive logistics activity



Panel 1: Railway freight in the Centre of Global Logistics Challenges

Moderator: Philip Van Den Bosch, UIC Senior Freight Advisor



Philip Van Den Bosch
UIC

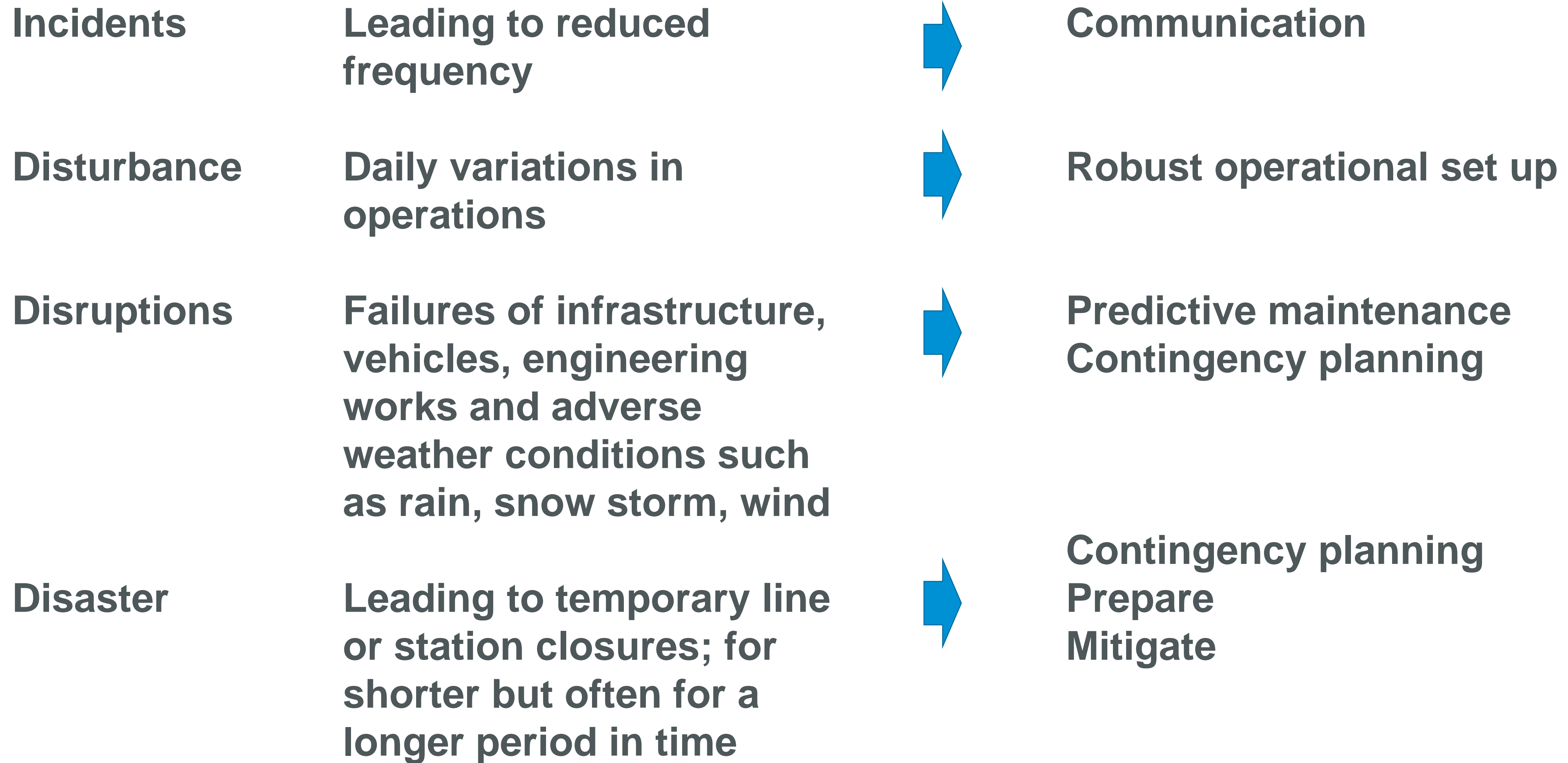


Christine Vanoppen
UIC

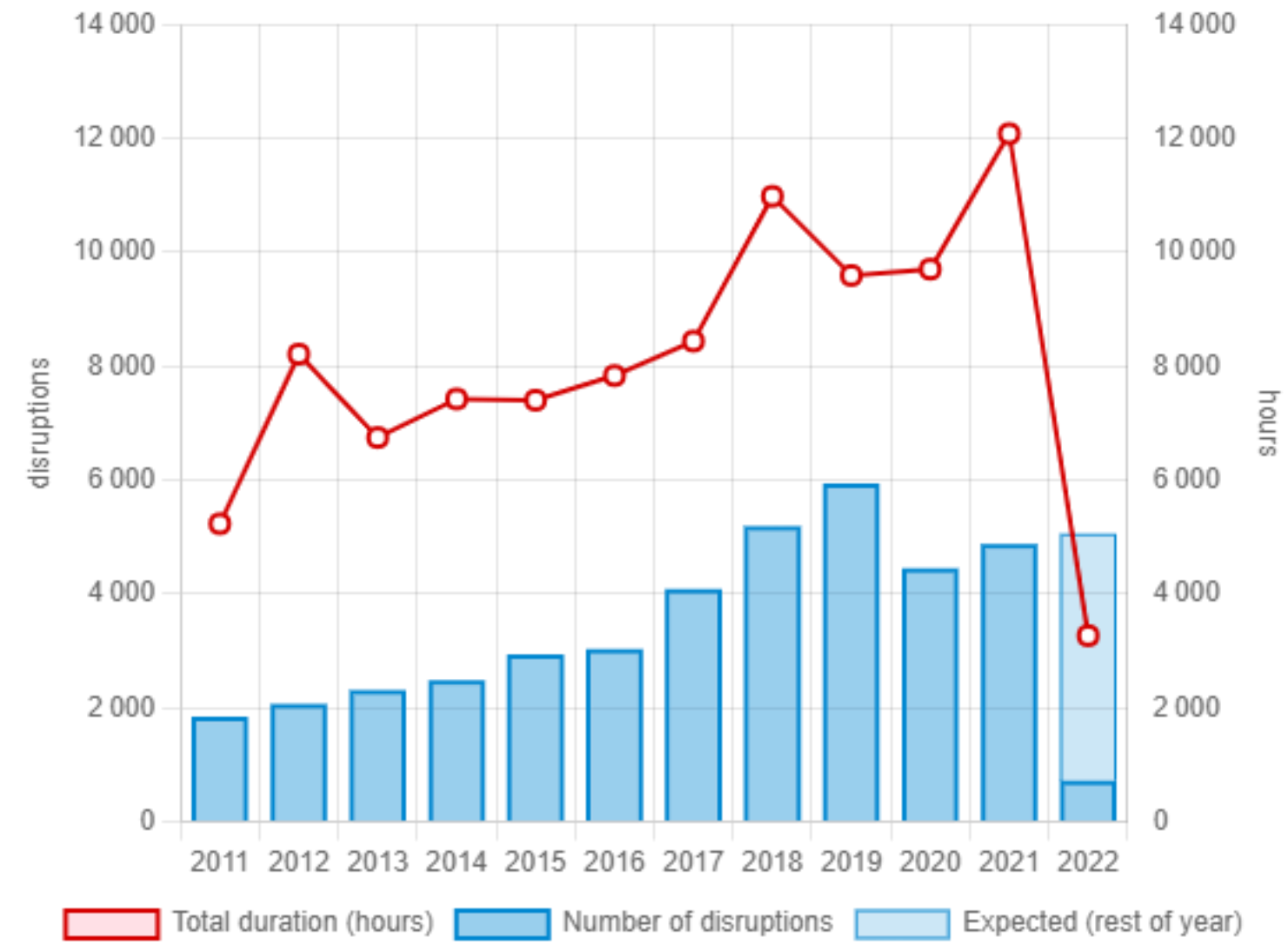
Resilience of Rail Freight in case of Global Pandemic

Philip Van den Bosch – UIC Senior Freight Advisor

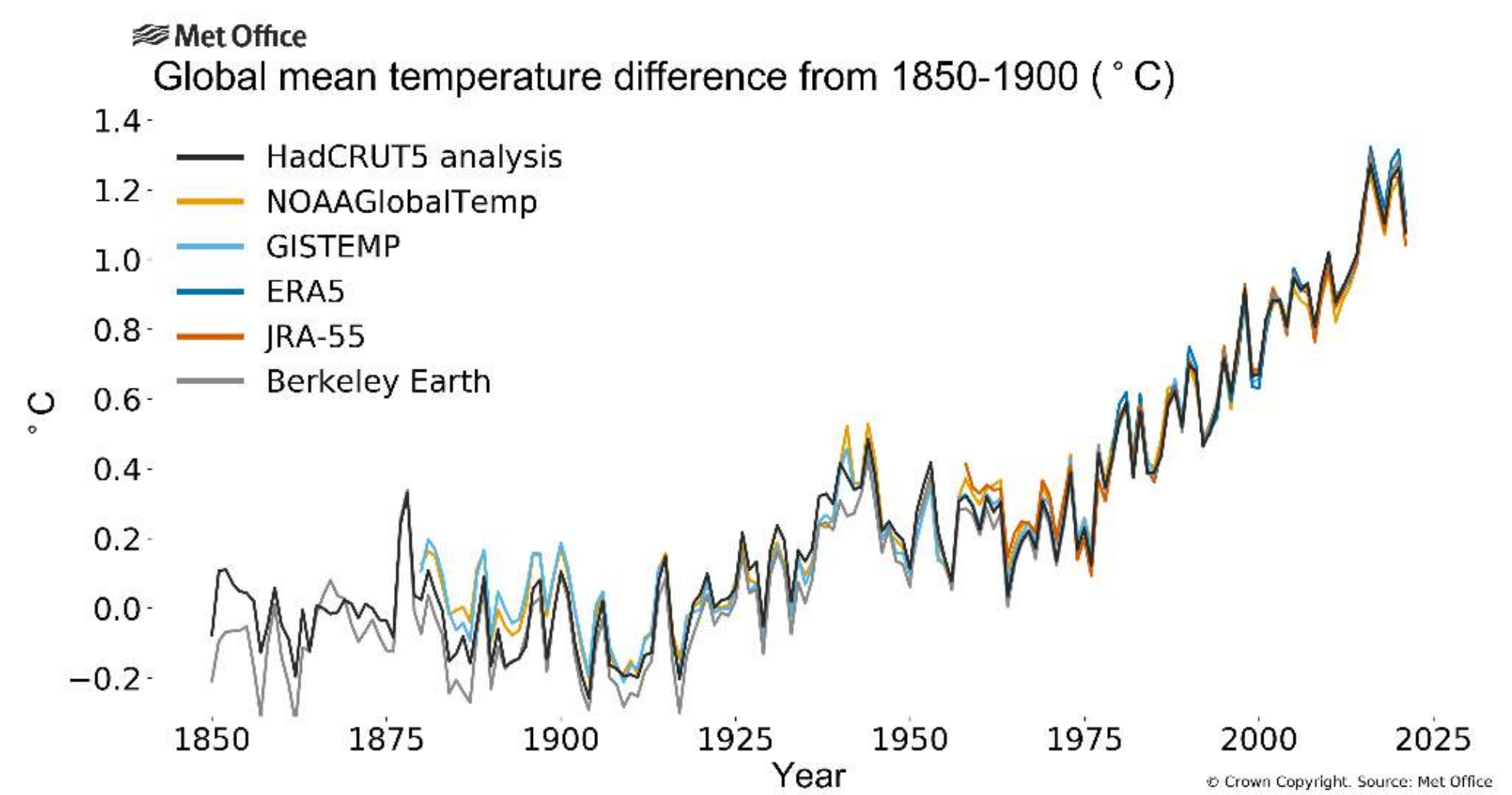
What are disruptions



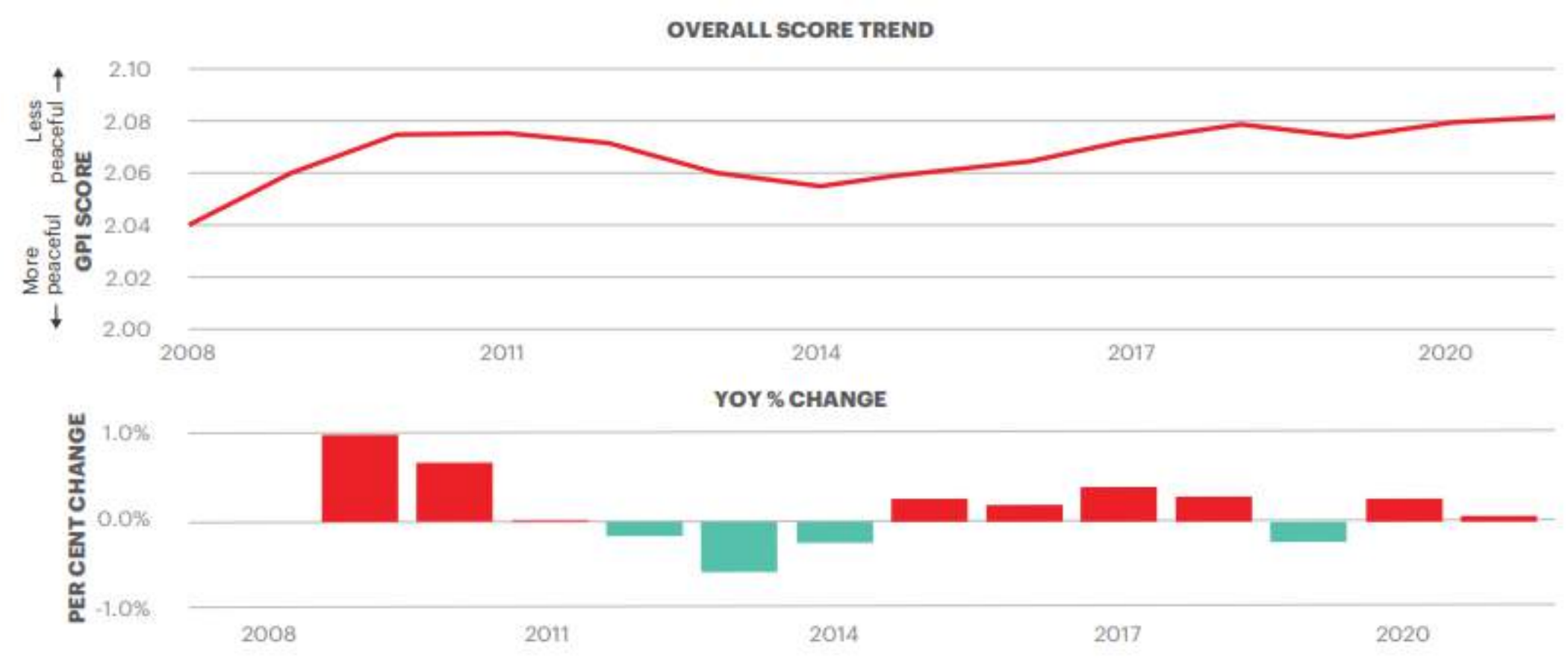
The theme of resilience is there to stay as the number of disruptions is likely to increase as well



Source: <https://www.rijdendetreinen.nl/en/statistics>



<https://public.wmo.int/en/media/press-release/state-of-climate-2021-extreme-events-and-major-impacts>



Source: IEP

What is resilience

Definition

The ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions. (UNISDR, 2009)

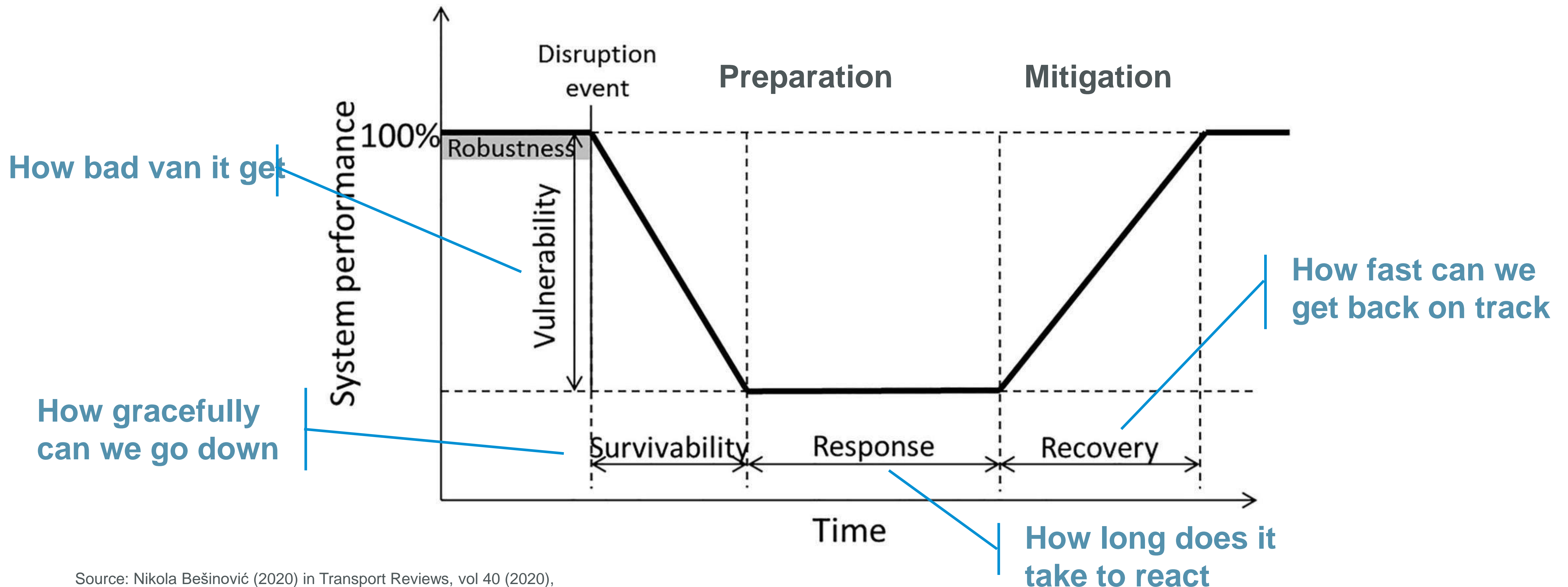
Common elements in similar definitions

- ✓ Ability to recover quickly from a disruption
- ✓ Remaining system's performance during a disruption
- ✓ Described with four properties: robustness, redundancy, resourcefulness and rapidity
- ✓ A function of system's vulnerability against potential disruption and its adaptive capacity in recovering to an acceptable level of service within a reasonable timeframe after being affected

What is resilience in a rail system

Definition

The ability of a railway system to provide effective services in normal conditions, as well as to resist, absorb, accommodate and recover quickly from disruptions or disasters



How to make the rail system more resilient

1. Quantify and measure
2. Digitize
3. Plan ahead – reduce the level of « unplanned » event
4. Streamline operational processes
5. Build a handbook for contingency management
6. Balance redundancy

References

Nikola Bešinović <http://orcid.org/0000-0003-4111-2255>

www.rijdenoptreinen.nl, accessed on 22.02.2022



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Thank you for your attention.



Modal Shift as key lever to realise COP21 Paris goals 2050

Ms. Christine Vanoppen; UIC Chairman of the sustainability group

Modal shift as a key lever to realise COP21 goals 2050



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February 24, 2022

Brussels

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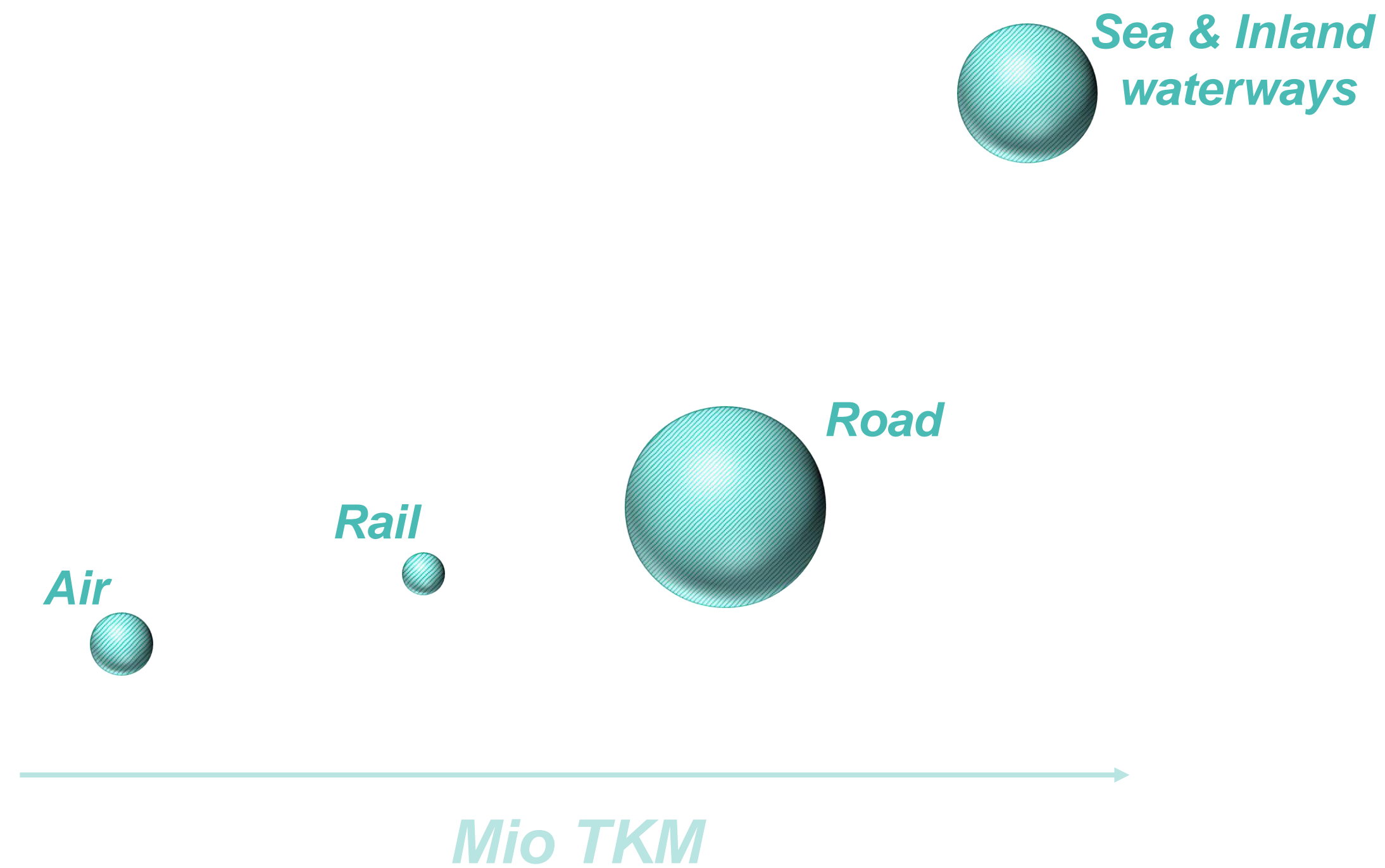
Freight Transport in Context

How do we move our freight ?

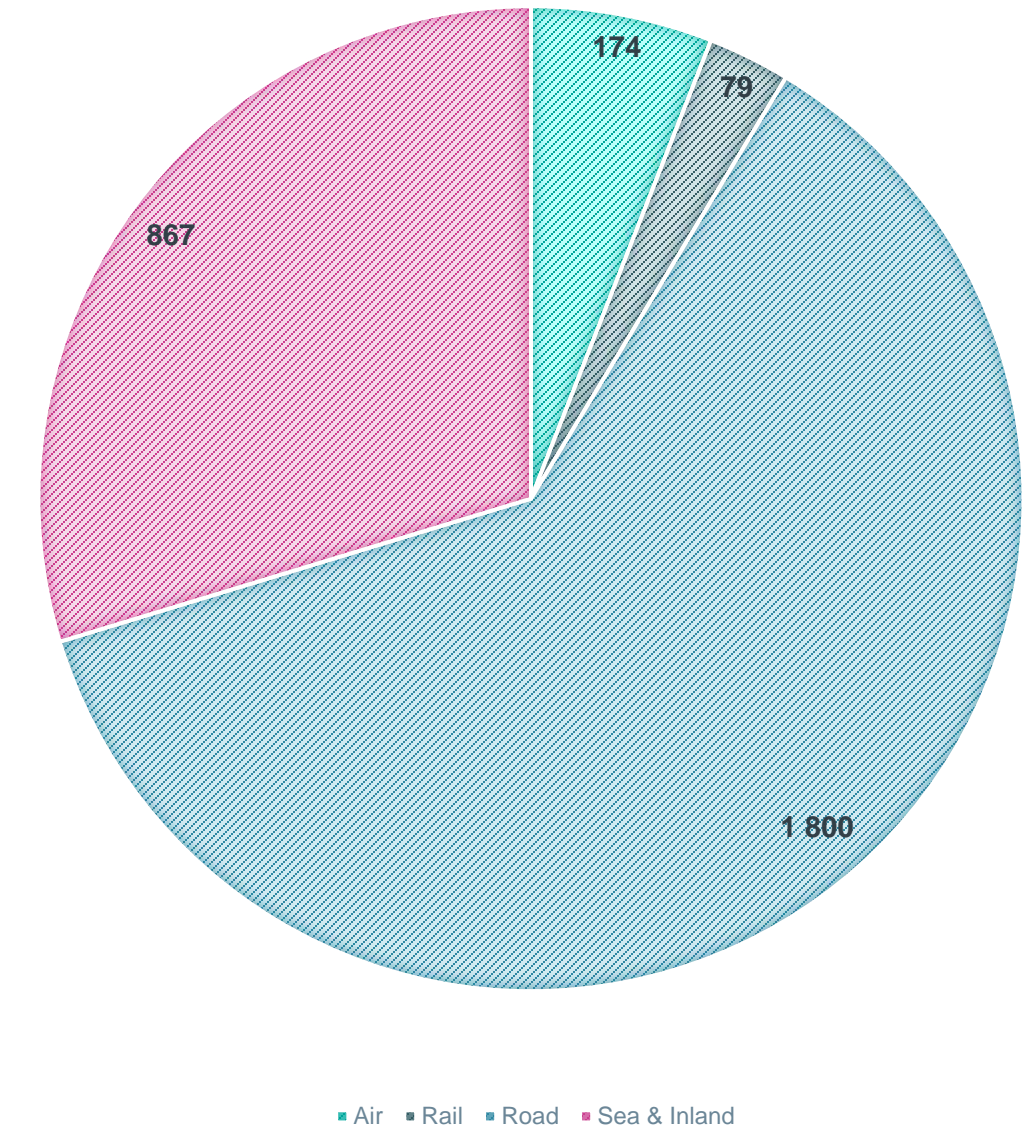
And where do the freight emissions come from ?

CO2 DIRECT EMISSIONS PER FREIGHT TRANSPORT MODE

FREIGHT MODES IN MIO TKM
THE SIZE REPRESENTS CO2 EMISSIONS



CO2 IN MIO TONNES



• From <https://climate.mit.edu/explainers/freight-transportation>, consulted on February 16, 2022 based on The international transport forum - ITF Transport outlook 2019

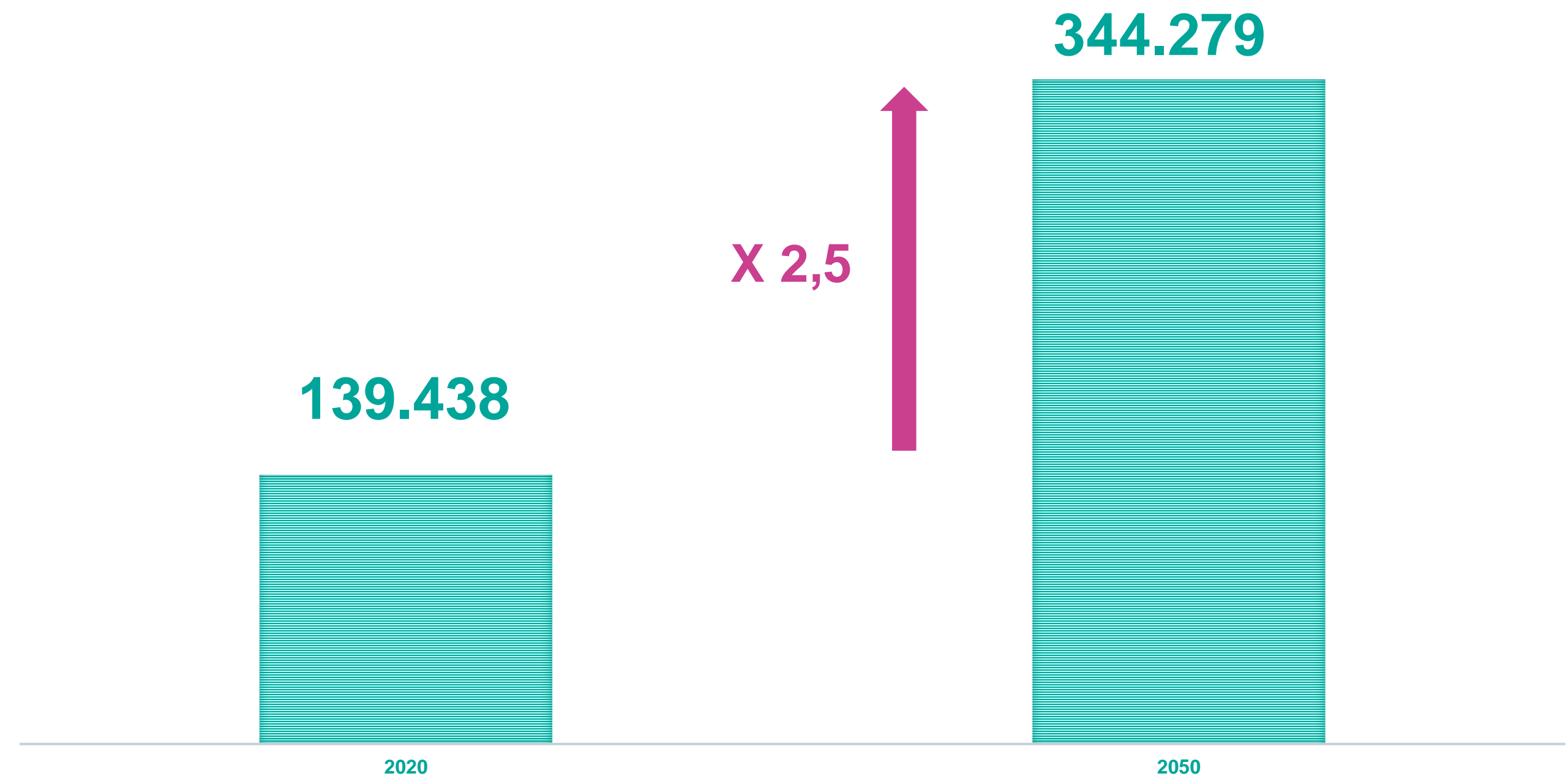
Freight transport demand evolution

Under the current policy trajectory freight transport demand will increase **2,5 - fold** by 2050

Population growth and increasing prosperity drive **increased** transport demand overall

This will **impact** CO2 emissions from freight transport when policy is not adjusted

In Billion of Ton KM



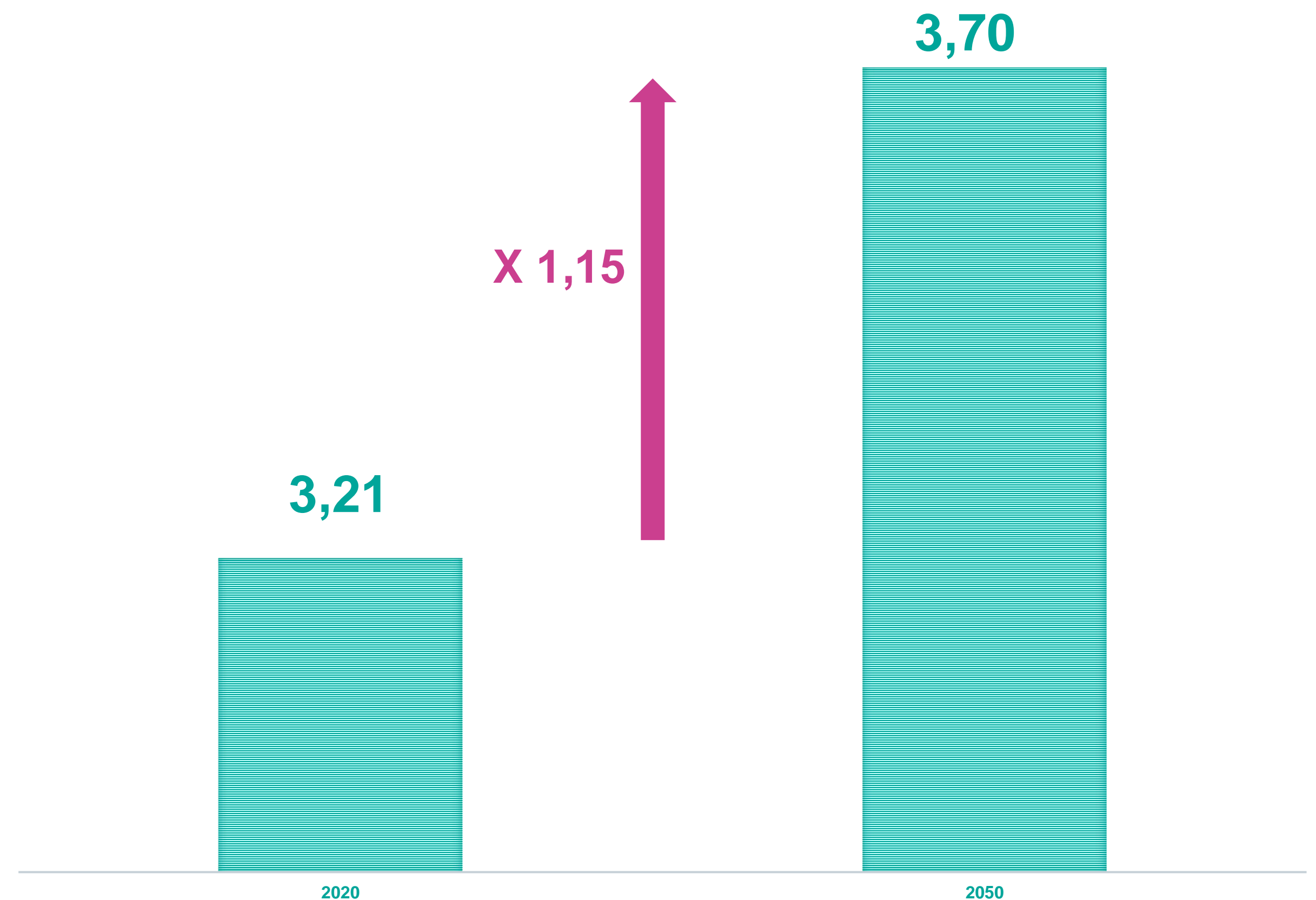
CO₂ Emissions from freight transport

Under the currently stated policies, freight transport CO₂ emissions will increase **15%** by 2050

The majority of the increase in direct CO₂ emissions is attributable to growing activity by heavy-duty vehicles, **road freight** in particular.

Increasing emissions from heavy-duty vehicles are nearly **as large in magnitude** as those from light-duty vehicles, aviation and waterborne transport combined.

Gigatonnes CO₂ direct emissions (tank-to-wheel)



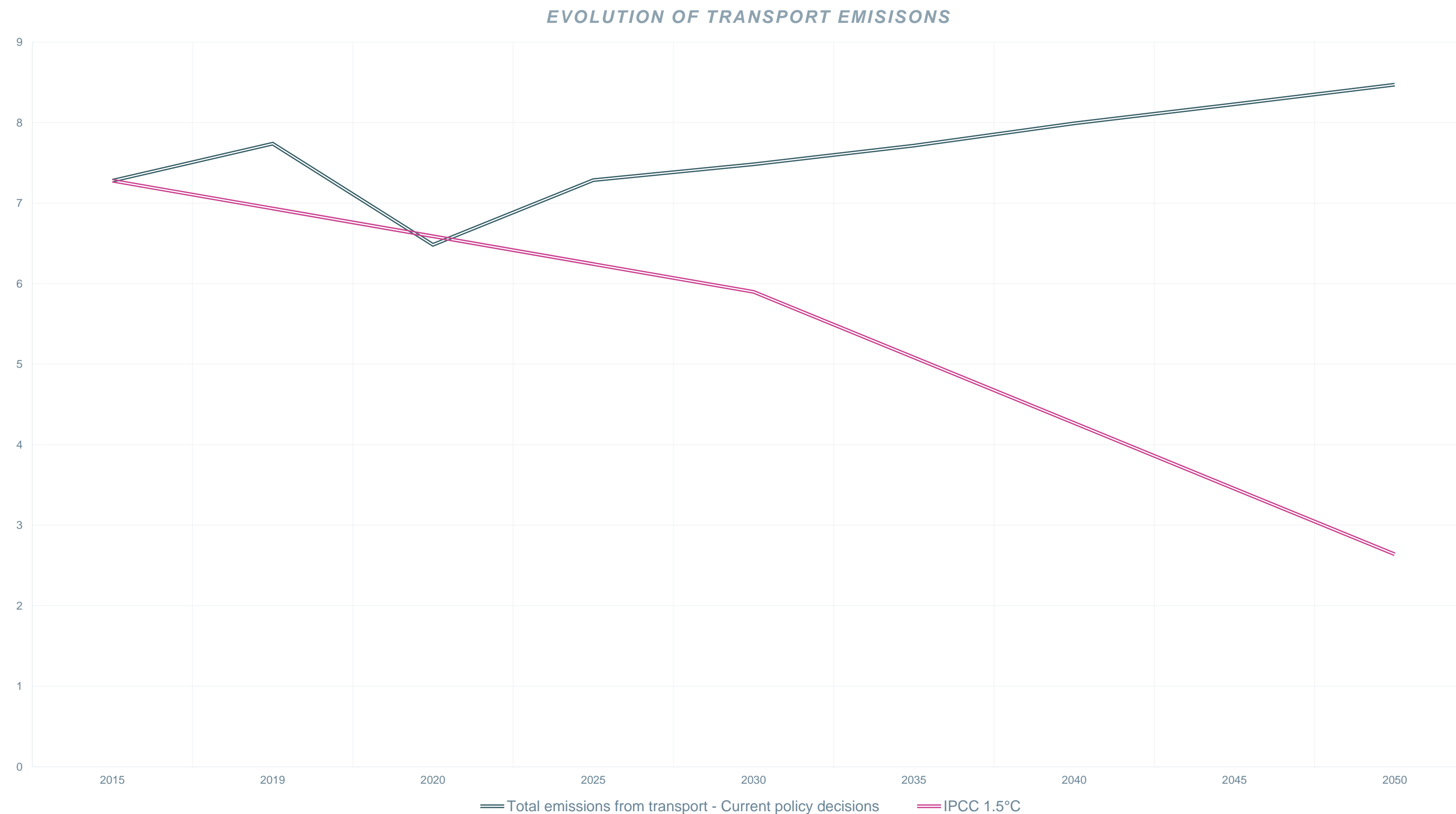
• IEA 2019, *The Future of Rail*,

• ITF Outlook 2021 – Recover scenario, this is taking into account a recovery to pre-COVID levels, established economic principles, implemented and committed policy

Transport emissions target reduction

When the objective is to reach the Paris agreement goals of global warming limited to 1,5 °

In giga-tonnes CO2 direct emissions (tank-to-wheel)



IPCC 1.5°C represents the emissions levels needed to limit warming to 1.5°C as introduced by the IPCC (2018)

/2.

What needs to be done ?

Current policy proposals

Leaves the potential of modal shift as such, undervalued

- Freight transport receives **less attention** from policy makers than it deserves, given its cross-border complexities and commercial nature.
 - *even though freight is responsible for **more than 40% of all transport CO2 emissions**.*
- Opportunities for freight decarbonisation arise from the **greater emphasis on resilient supply chains** in the aftermath of the Covid-19 pandemic.
- **Faster digitalisation and automation** can help to optimise logistics and reduce its carbon intensity.
- Stimulus packages can
 - *include investments in **alternative fuel** production, distribution and supply infrastructure.*
 - *they can also boost the availability of **multimodal solutions** and their competitiveness.*
- The **renewal of fleets** with newer, cleaner vehicles is crucial.

Modal shift requires a multi-disciplinary approach

But the main argument remains cost

The Cost Gap *

- 1 Customers require door to door services, hence extra **first & last mile** costs
- 2 Rail freight requires **consolidation** of volumes, hence extra shunting, transshipment and storage costs
- 3 Rail freight internalizes its **external cost** from CO2 emissions whereas road freight only to a limited extent

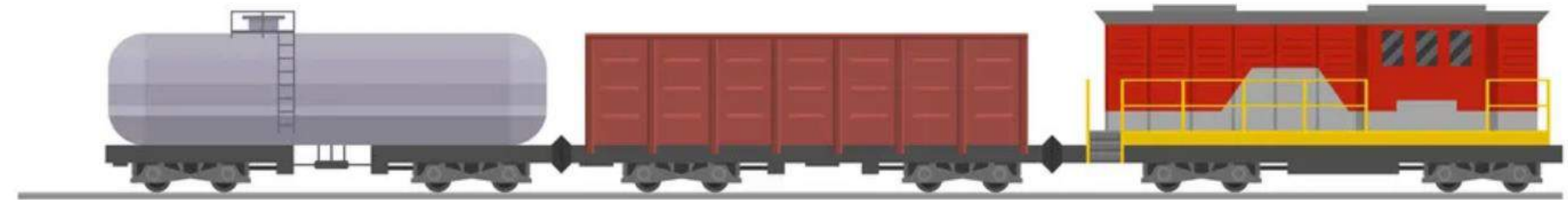
* Focus is here on road to rail modal shift

Rail freight requires consolidation

As one train represents on average 50 trucks *



X 50 =

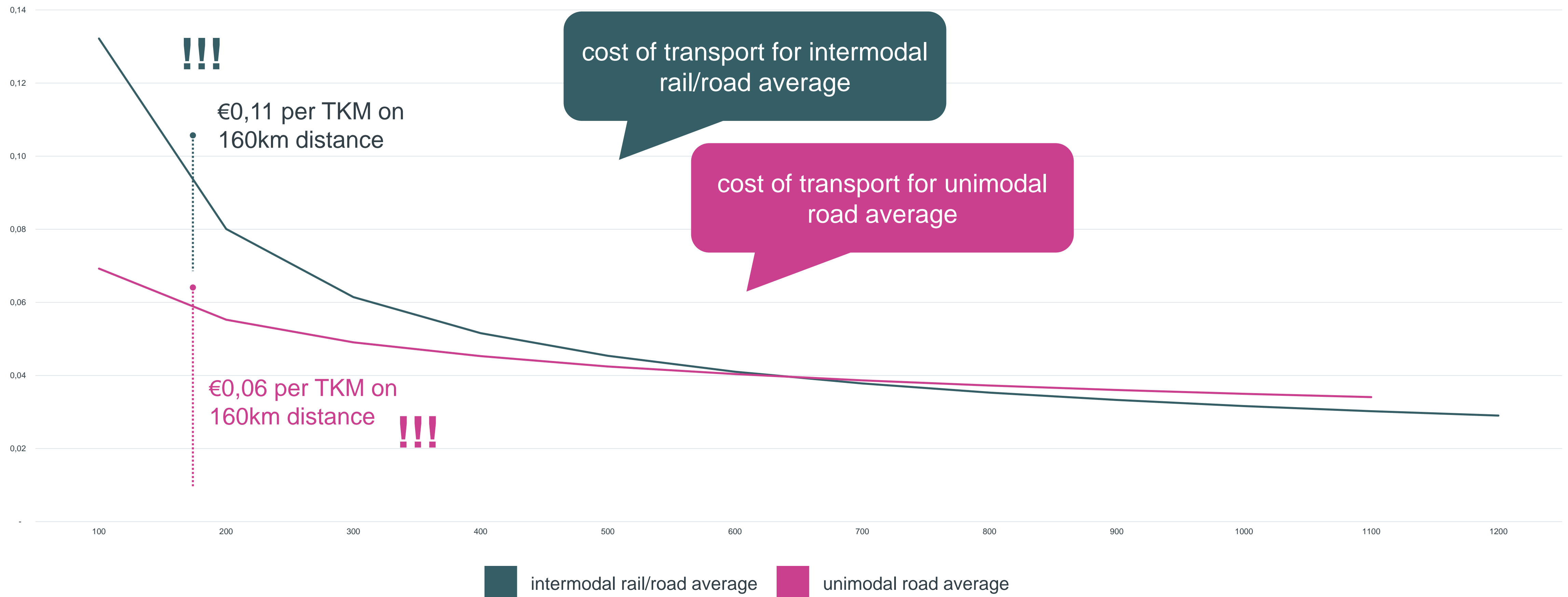


- Requiring consolidation / **massification** to get large volumes
- This involves **extra costs** for last / first miles, investment in the feeder network, shunting, transshipment
- Those can be absorbed on **long distance**, but not for distances shorter than 300-500 km.

* Measured on average for Belgium and this is highly dependent from local / national circumstances

The **cost GAP** on the short distance between multimodal and trucking in EU

cost functions by distance
in € per ton-kilometer & km

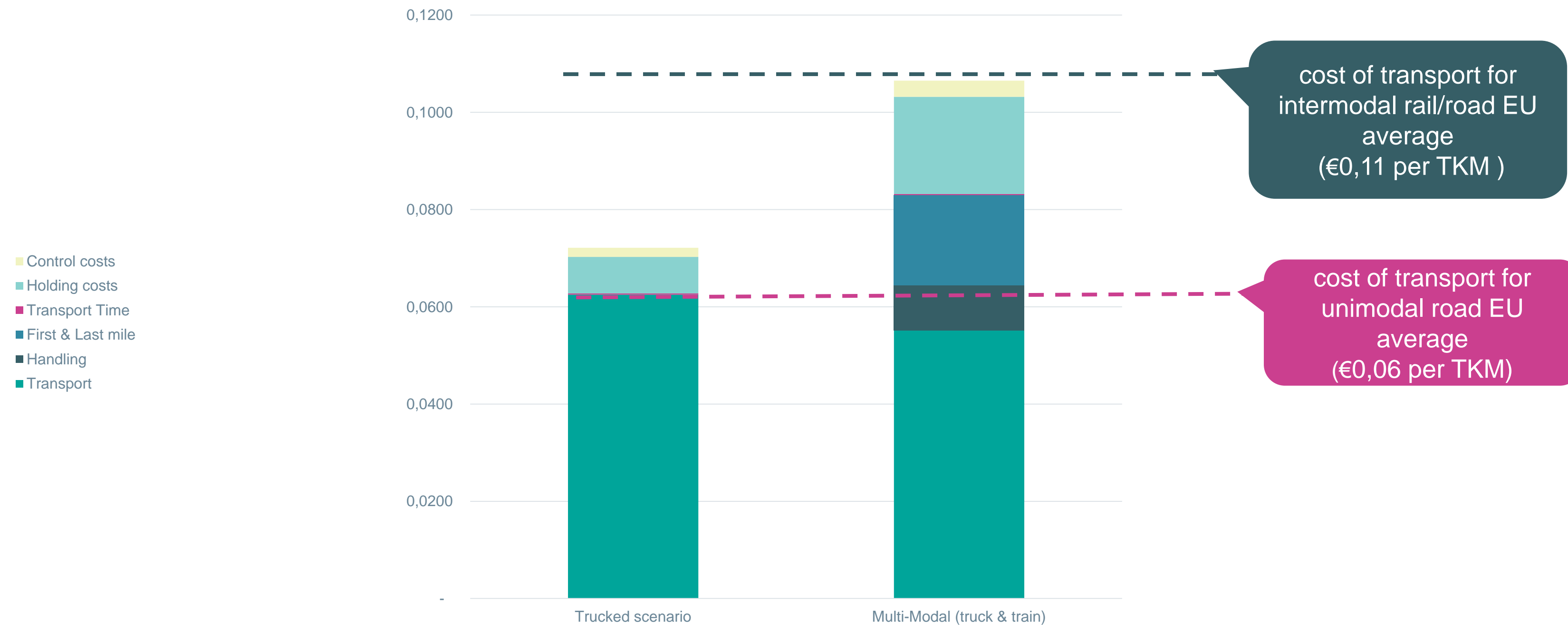


The **cost GAP** between multimodal and trucking on short distance is due to costs associated with the **consolidation** of volume

As an example: the Belgian case

Total logistics cost - In € per Ton KM

Intermodal – Average distance of 160 km



Average cost gap in Belgium smaller than in EU (probably) due to dense network of rail & roads

• Based on Vannieuwenhuysse, B., et al, (2019), Haalbaarheidsstudie maatregelenpakket voor een versnelde modal shift naar het goederenspoorvervoer, in opdracht van de Vlaamse overheid, Departement Mobiliteit en Openbare Werken, Afdeling Beleid, ir. Ilse Hoet

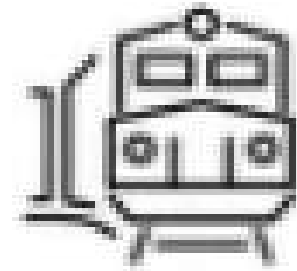
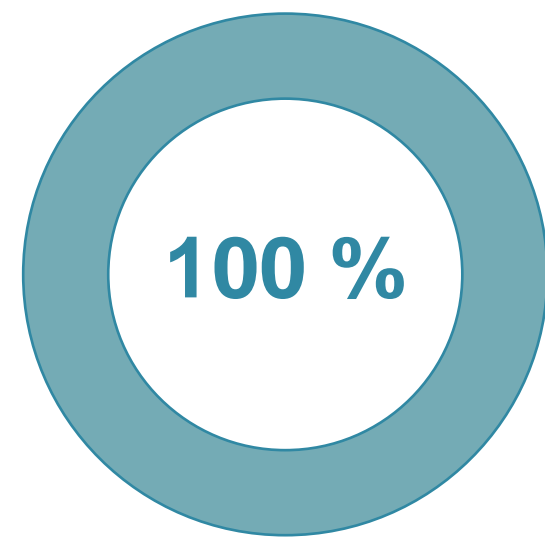
A de-facto charging of the carbon cost

An example : the European case

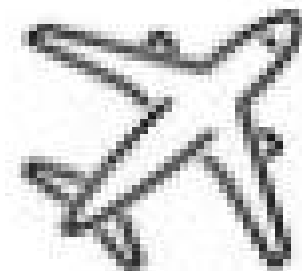
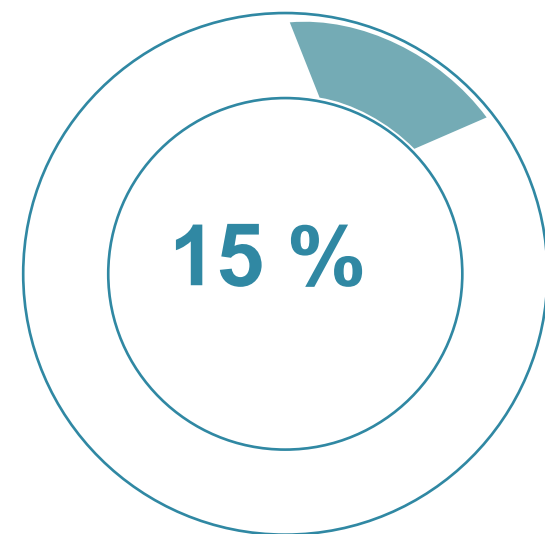
- Approximately 55% of railway lines in Europe are electrified.
- These lines carry 80% of rail transport across Europe
- EU railway companies are amongst the major users of electricity.
- According to the International Energy Agency (IEA), 40% of the electricity mix used by railways in Europe is low-carbon.
- The EU rail sector today pays over €110 million/year for its CO2 emissions generated by electric traction.
- According to the new ETS proposal, railway companies might reach a level of €370 million/year

A de facto charging of the **carbon cost**

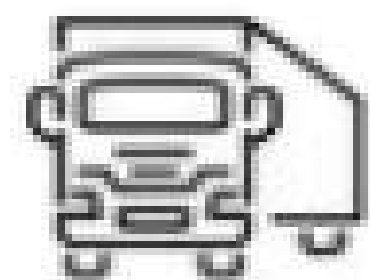
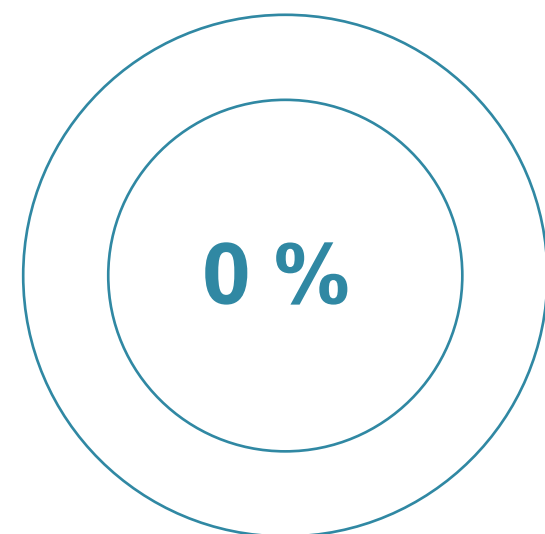
Rail's high degree of electrification, constitutes an important cost disadvantage vis à vis road freight transport – An example : the European case



Electric rail is **fully included** in the ETS



Road and aviation **are not**.

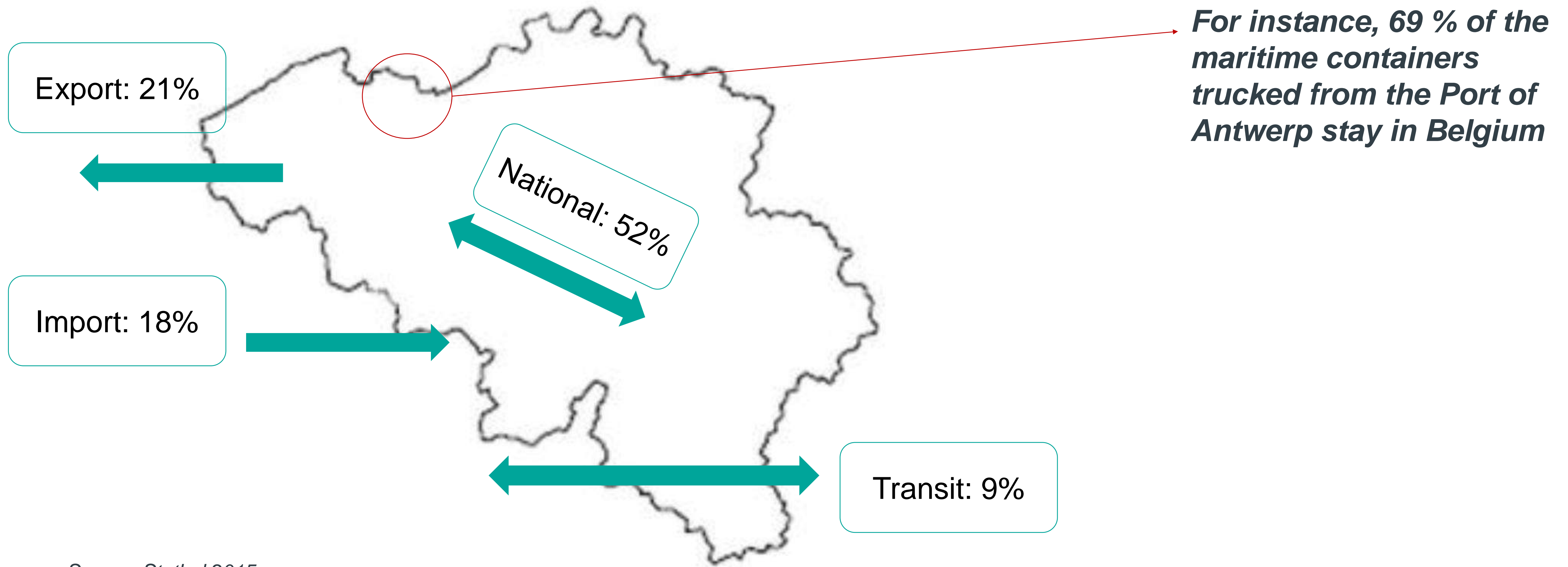


This **unequal treatment** of the carbon charges results in an important (relative) **price distortion** that will only **aggravate** in the near future with **surging carbon prices**

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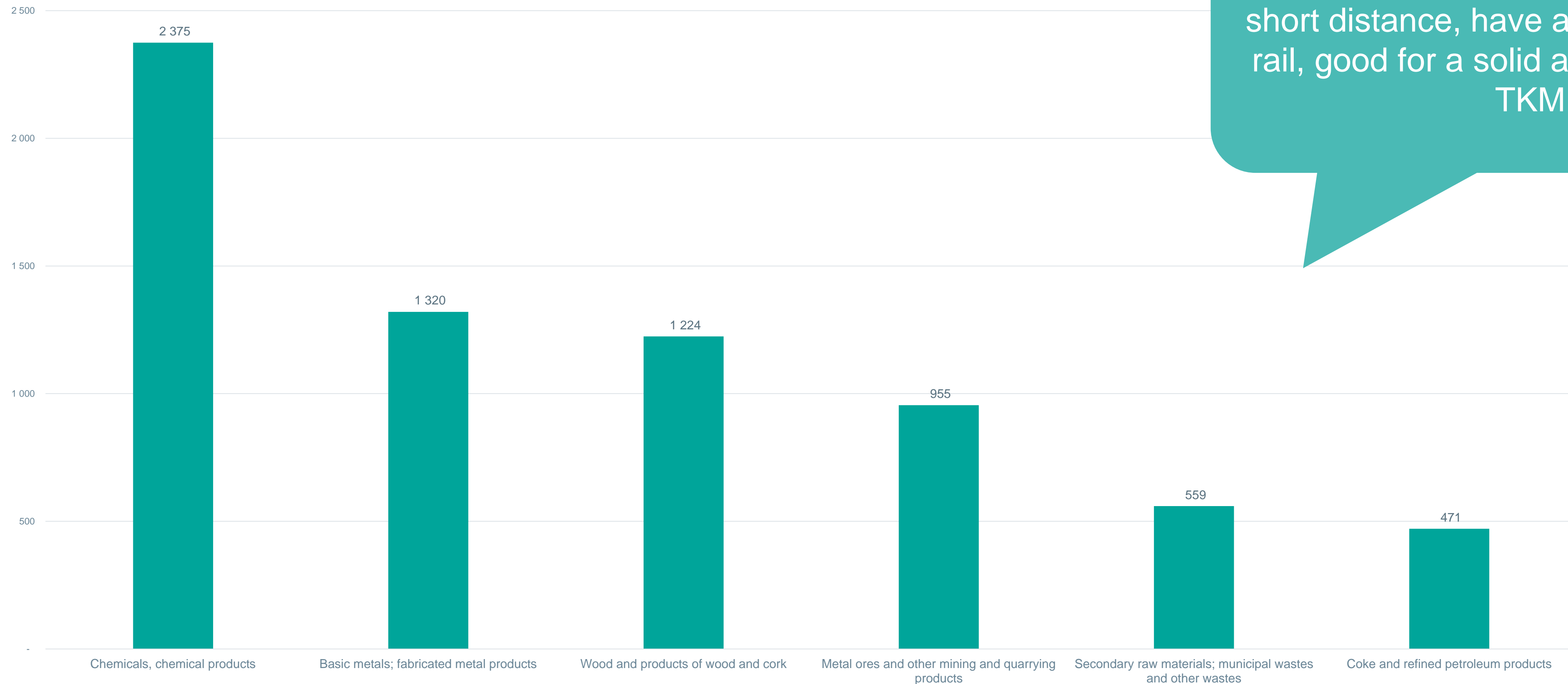
A Belgian case study

Current **road transport in Belgium** is primarily **< 300 km...**



12% of BE road transport is on short distance with **high rail affinity**

Product transported by road within the 100 - 300 KM distance category Mio Ton KM



12% of products, transported on the short distance, have a high affinity with rail, good for a solid amount of 6,9BN TKM

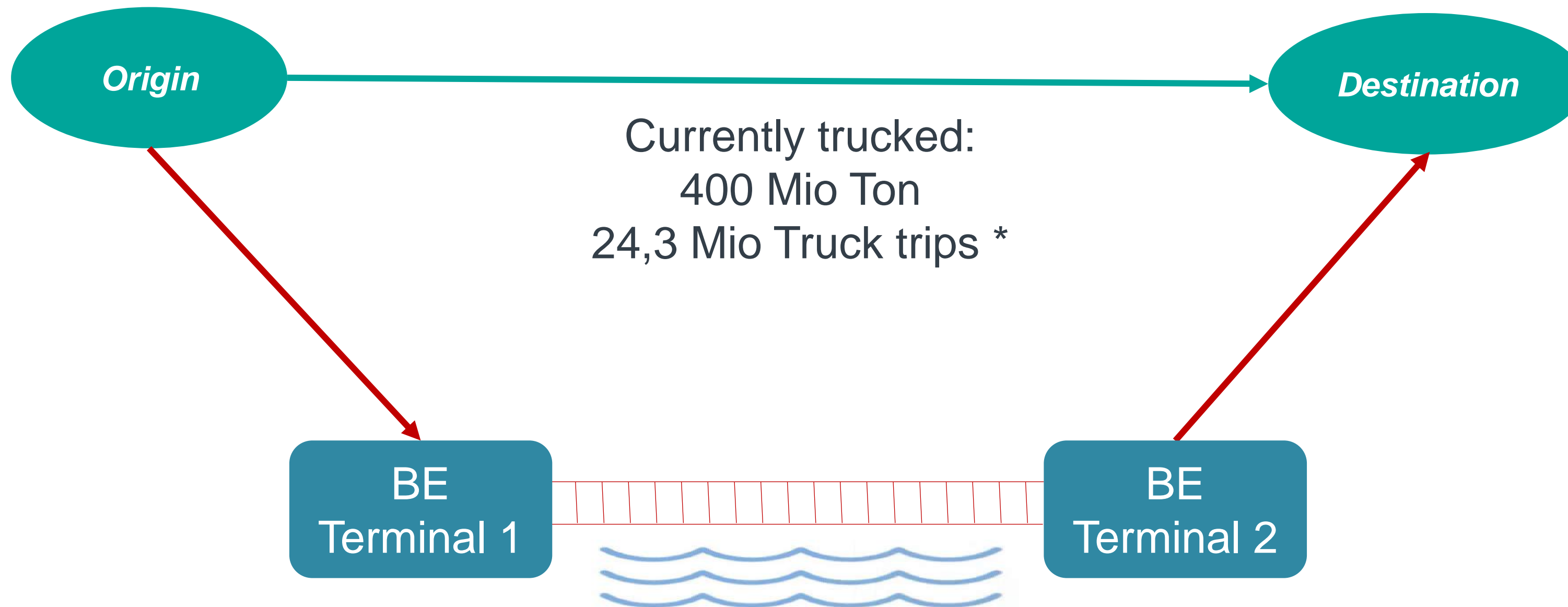
* TKM = Ton Kilometer
** by NST

The case study: concept & data analysis

First & last miles (f& l M) are trucked, the long haul is put on rail or barge

→ **Trucked scenario**

→ **Modal shifted scenario**



Methodology

- Trucked traffic data 2015 per NST & NUTS 3 (Statbel).
- Distances calculated based on the NUTS3 latitude & longitude coefficients
- Load factors per NST (TU Delft) used to derive the number of trucked trips
- Assumed degree of containerisation potential based on OakTrees' assessment of affinity with rail per NST code:

• High affinity	60 %
• Affinity	30 %
• Grouped goods (NST 18)	10 %
• Low affinity	0 %

* Excluding transipments

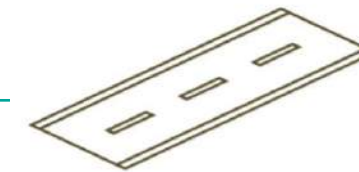
Hence 3 alternative scenario's

That involve a multi-modal cooperation

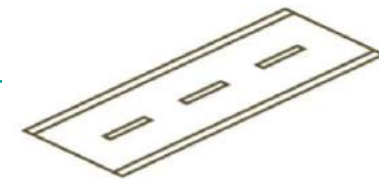
Origin

Destination

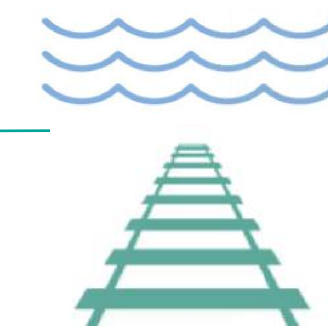
Current



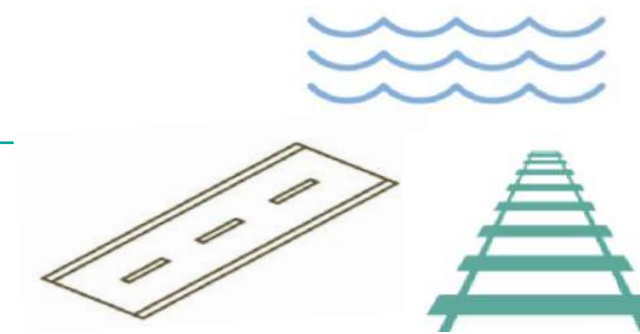
Alternative 1



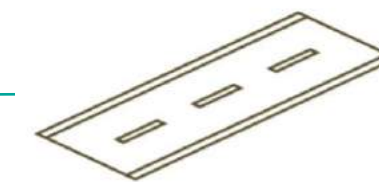
Terminal 1



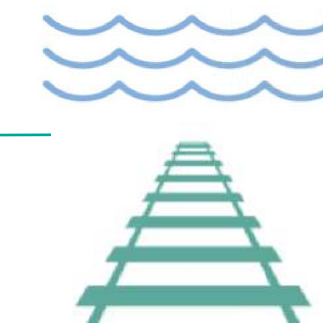
Terminal 2



Alternative 2



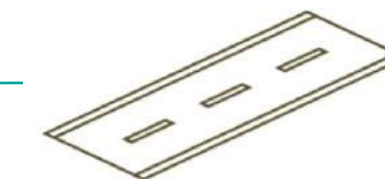
Terminal 1



Alternative 3

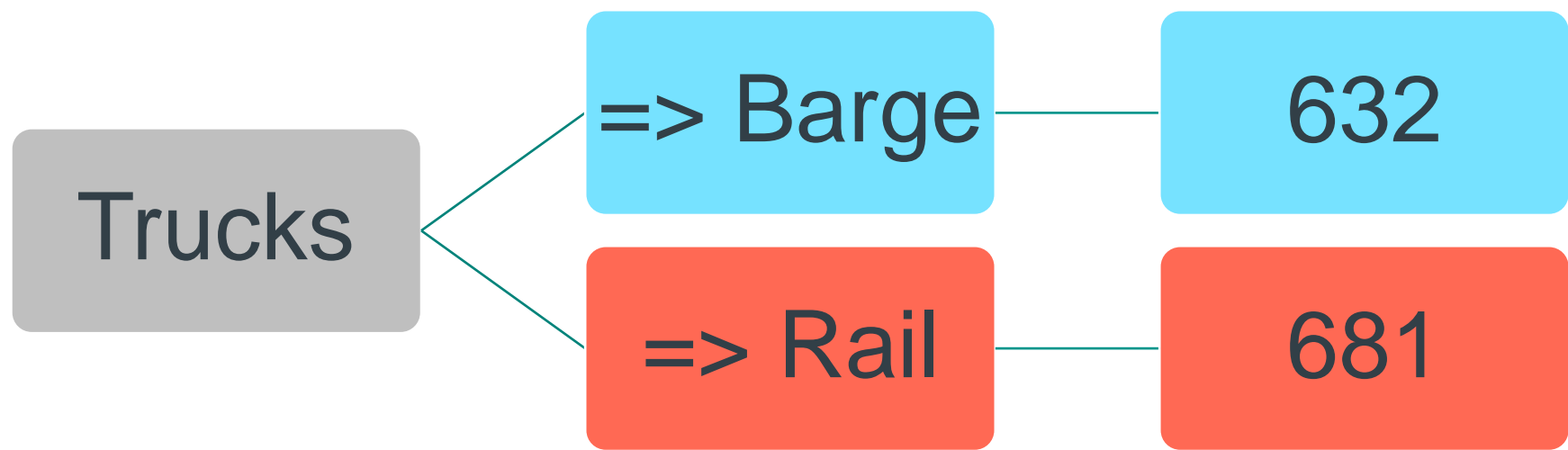
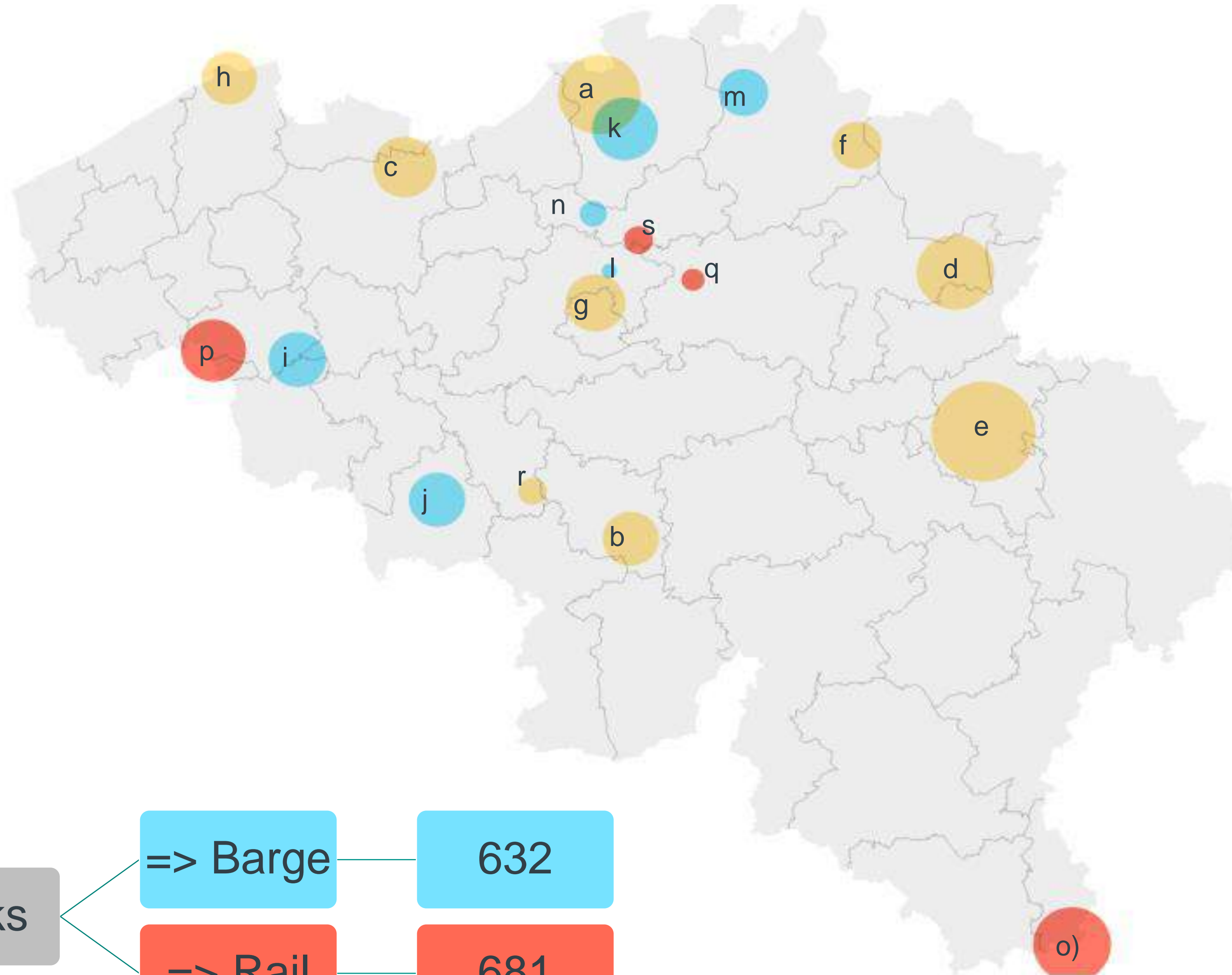


Terminal 2



The potential

In terms of truck trips modal shifted



Trimodal

a) Antwerp •Rail: 120 / 113 •Barge: 26 / 14
b) Charleroi •Rail: 29 / 39 •Barge: 16 / 37
c) Ghent •Rail: 38 / 39 •Barge: 56 / 26
d) Genk •Rail: 61 / 51 •Barge: 62 / 66
e) Liège •Rail: 107 / 103 •Barge: 34 / 197
f) Mol & Meerhout •Rail: 32 / 30 •Barge: 18 / 12
g) Brussels •Rail: 29 / 38 •Barge: 44 / 27
h) Zeebrugge •Rail: 26 / 31 •Barge: 33 / 26

Barge

i) Avelgem 67 / 64
j) Ghlin 64 / 61
k) Deurne 120 / 48
l) Grimbergen 3 / 3
m) Beerse 54 / 37
n) Willebroek 19 / 6
q) Herent 16 / 8

Rail

o) Athus 136 / 113
p) Rekkem 72 / 88
r) La Louvière 12 / 16
s) Muizen 16 / 20

The return on investment to society

We can take 1.300.000 truck trips off the road with a handling cheque of € 40 per unit put on rail or barge

**+1.919 million
TonKm shifted
per year**

**(8% of all
trucked
volumes)**

**1.000 hours of
traffic saved
per day**

**€ 160 million
external costs
saved**

Support budgets & modal shift in leading European countries

Belgium risks to miss the train in Europe

	Modal share	€ Moi per year	Bln Ton KM / Year on rail	Subvention per Bln Ton KM	
Zwitserland	35%	259	11,7	22,2	} The Heroes
Austria	32%	310	22,3	13,9	
Germany	18%	563	112,2	5,0	} Shaping up
Italy	14%	100	22,3	4,5	
France	10%	195	33,4	5,8	
Belgium	9%	17	7,3	2,4	} Lagging behind
Netherlands	6%	15	6,5	2,3	

(1) *Annual budgets for non-infrastructure support mechanisms such as: reduction of TAC, SWL and Intermodal operational support, support to operators for development of connections, excluding the temporary Corona related support – Status mid 2021*

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Beyond CO2 emissions

9x

LESS CO2
EMMISSION

8x

LESS AIR
POLLUTION

50

TRUCKS LESS
IN TRAFFIC
WITH 1 TRAIN

6x

LESS ENERGY
CONSUMPTION

85x

LESS ROAD
CASUALTIES

CONTRIBUTING TO CLIMATE, ENVIRONMENT & SAFETY GOALS

IT'S NOT AN INVESTMENT. IT'S A SAVING.



**AVOID +90.000
TRUCKS**



**AVOID +1.5
MILLION TONS
OF CO₂ / YEAR**



**AVOID +2.000
TONS OF FINE
PARTICLES**

**MORE THAN € 1.000 MILLION VALUE CREATION THROUGH
SOCIETAL COSTS **AVOIDED** & ECONOMIC VALUE **ADDED****

**THANK
YOU!**

TOGETHER, LET'S MODAL SHIFT!



Panel 2: Railway networks' experiences

Moderator: Mr Saïd Chandid, UIC Africa Regional Office



Alfred Pitnik
ÖBB Holding



Johan Abel
Port Authority Zeebrugge



Oubrahim Mohammed
ONCF



Warwick Lord
Cato Ridge Consortium



Tilahun Sarka
EDR

Achieving favourable conditions for rail freight transport in Austria

Alfred Pitnik

Public & Cargo Affairs ÖBB

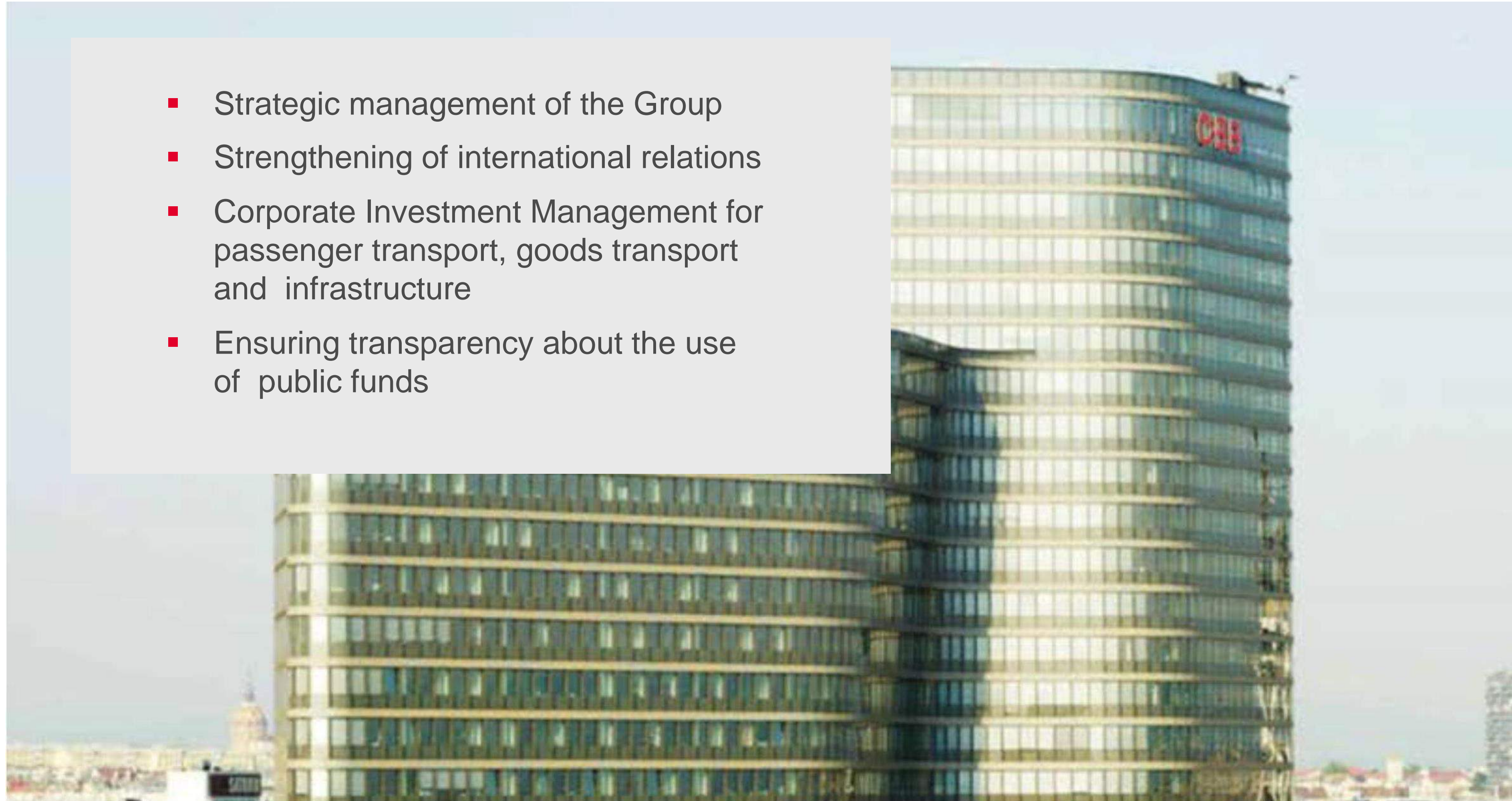
UIC Webinar: Freight Resilience, Railway Logistics & the New Challenge for its Repositioning

Vienna/Paris, February 24th 2022

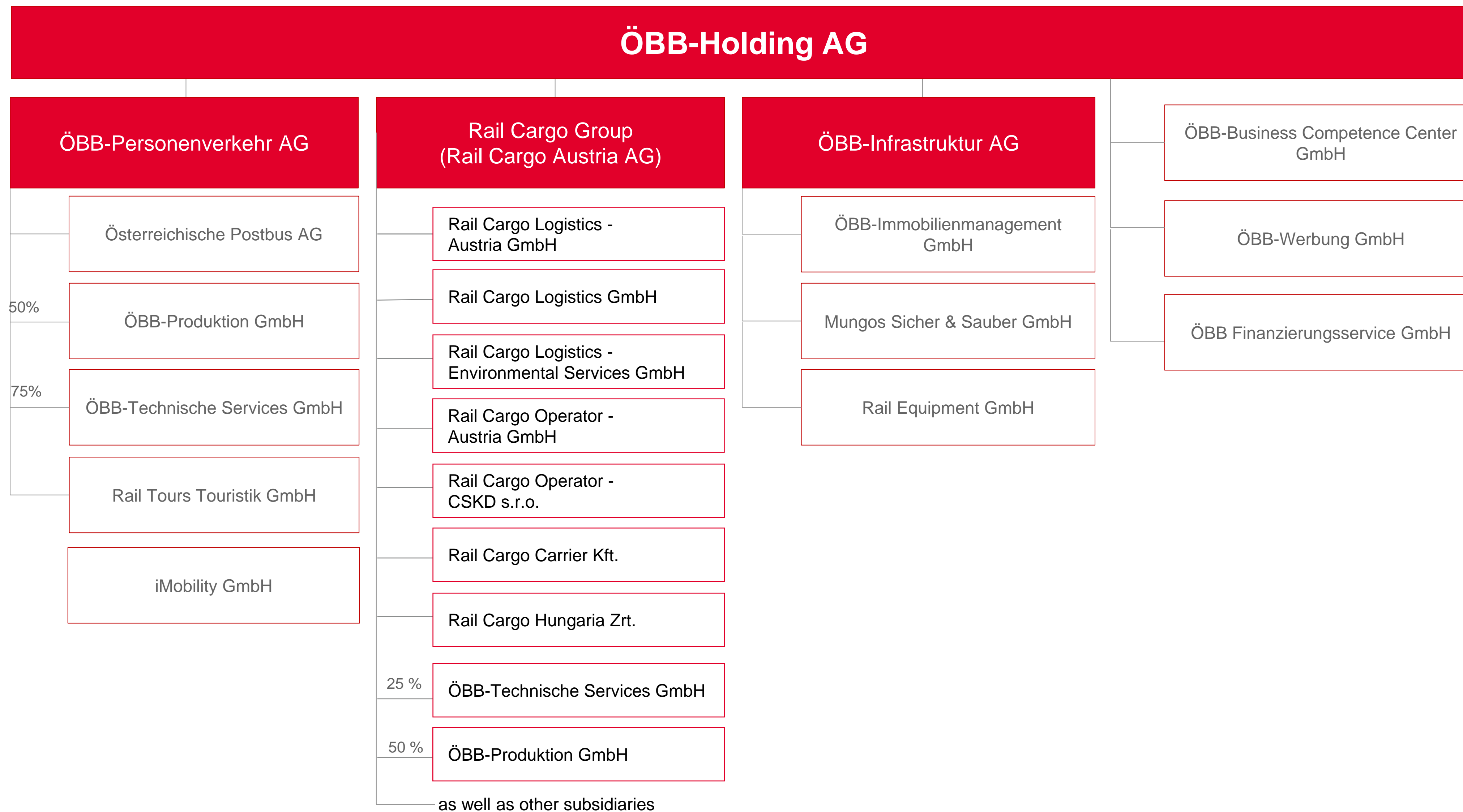


ÖBB Holding – Strategic lead company

- Strategic management of the Group
- Strengthening of international relations
- Corporate Investment Management for passenger transport, goods transport and infrastructure
- Ensuring transparency about the use of public funds



Austrian Federal Railways – ÖBB: This is us



18.2 Bn. Euro for a modern rail network

We are investing 18.2 billion euros in a modern railway network over the next six years.

The 2022-2027 framework plan is a continuation of the previous 2021-2026 framework plan. The main innovation concerns the investment in the Austrian part of the Brenner North Approach.

With the framework plan 2022-2027, essential aspects of the current government programme in the railway sector are put on track. Together with the planned expansion of services and the introduction of the climate ticket, this will make an important contribution to achieving climate neutrality.

18.2 Bn.
framework plan 2022-2027

17.5 Bn.
framework plan 2021-2026



Focal points of the new admissions in the new framework

Expansion of local
transport in the
conurbations



Further expansion of
infrastructure facilities for freight
transport



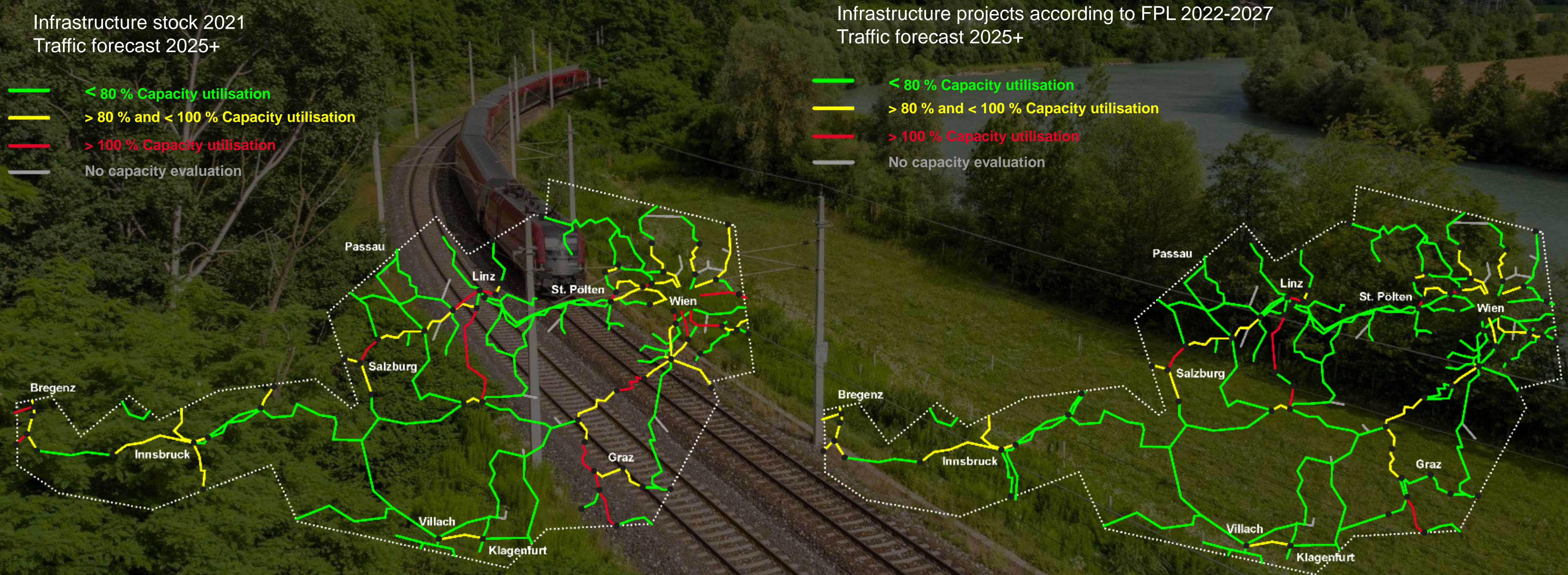
Attractiveness of regional railways
and electrification programme



Digitalisation and
Increasing efficiency



Increasing capacity on the rail network



Systems of incentives in Austria: Funding Freight

The funding is intended to support rail freight transport services in the form of

- **Single Wagon Load (SWL)**
- **Unaccompanied Combined Transport (UCT)**
- **Rollende Landstraße (RoLa – Rolling Road)**

in the form of a non-repayable grant.

An Agency of the Ministry of Transport (BMK) – the so called “Schieneninfrastruktur Dienstleistungs-Gesellschaft mbH (SCHIG)” – has been commissioned to handle the funding program for the provision of state aid for rail freight services in certain production-forms in Austria.

Annual Calls for funding are foreseen in the program and published on the websites of the Ministry of Transport (BMK) and SCHIG.

Contracts of all beneficiaries are published on the website of the ministry BMK.

Notified budget: 120 Mio EUR p.a. for all tree types of products.

Systems of incentives in Austria: Funding objects

Single wagonload (SWL)

Billing unit:

- Net tonn kilometers (ntkm)
- Traffic types: Inland, import- export - no funding for transit-traffic!
- National transport (higher funding) vs. cross-border traffic (lower funding)

Unaccompanied combined traffic (UCT)

Billing unit:

- Transported ITE depending on their size, weight, transport distance
- Traffic types : Inland, import- export & transit
- Surcharge for mountain areas (Brenner, Tauern, Pyhrn – Schober, Neumarkter Sattel and Arlberg)

Rollende Landstraße – RoLa (Rolling Road)

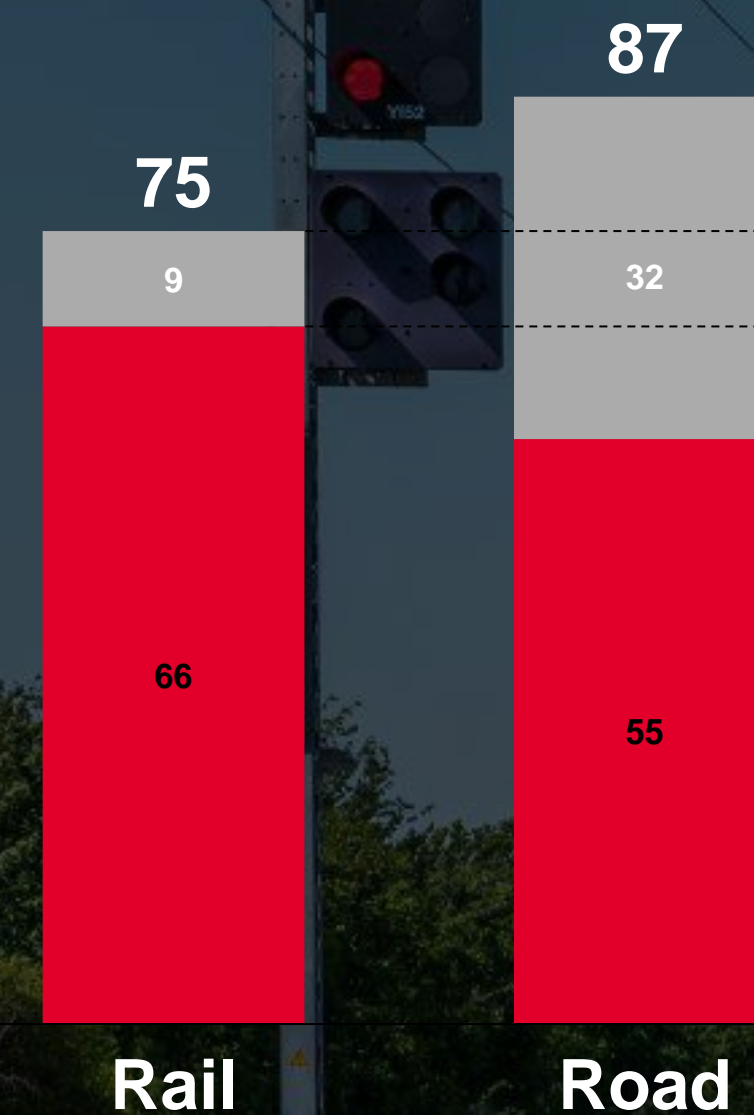
Billing unit:

- Transported truck
- Depending on the respective RoLa route
- In addition, a distinction is made on day and night transports on the Brenner-Axis

Level Playing Field: An overall economic analysis shows a clear cost advantage of rail freight transport

Modeling total economic costs of rail and road

In EUR je 1.000 ToKM,
Example SWL Import and Export ¹

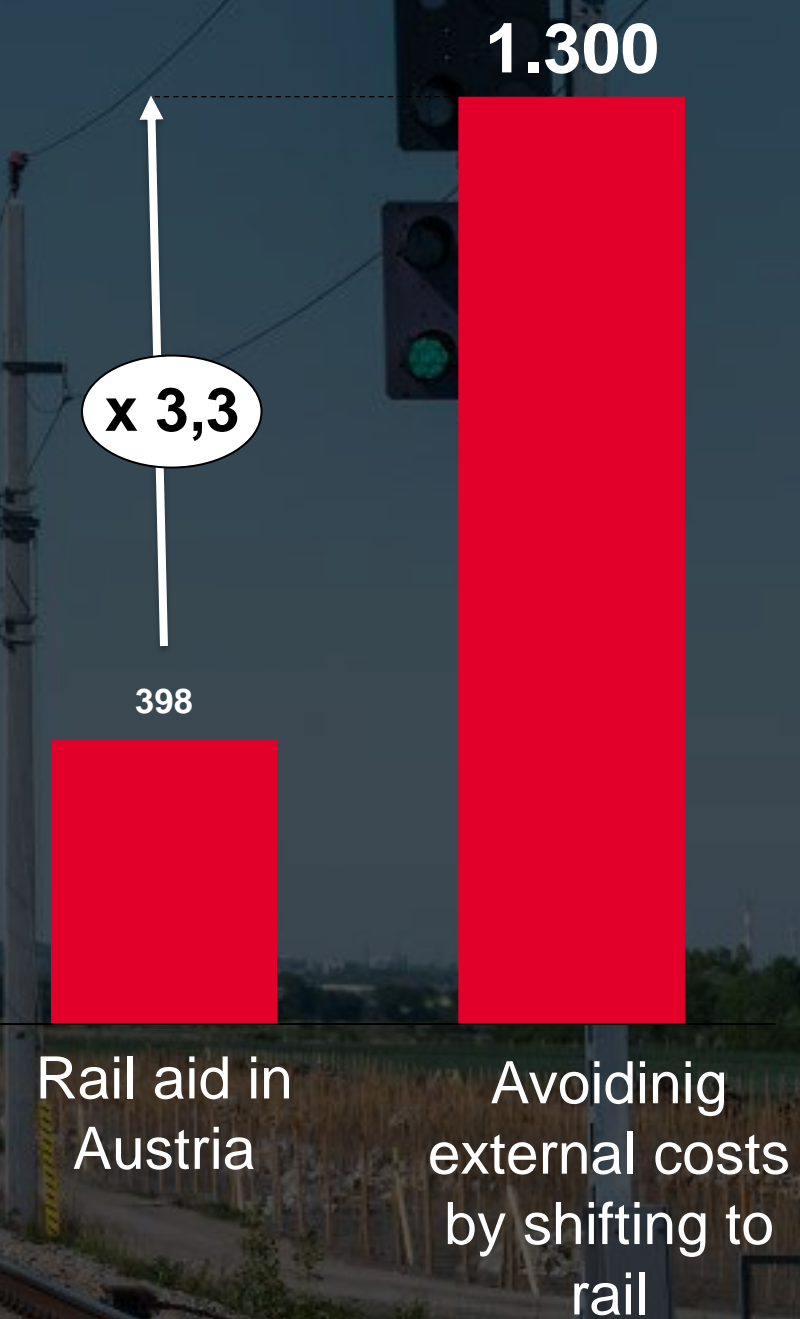


External costs
Business costs

- Approx. 16% cost advantage on the road from a business perspective
- External costs, especially climate, air, accidents
- as well as soil- and water pollution are at rail significantly lower (9 vs. 32 EUR)
- Thereby approx. 17% economic cost advantage of the rail freight transport
- External costs are an integral part of the aid calculation

Efficiency of the aid system in Austria

2013-2016 cumulated ²



SWL Single wagonload

¹ Source: Herry (2016): Final report- Calculation of eligible costs for rail freight transport, Austrian ministry of transport

² Source: Austrian filing documents for re-notification of the rail freight aid, Austrian ministry of transport

Contact information



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Connecting to the hinterland as part of
the rail freight policy of the port of
Zeebruges

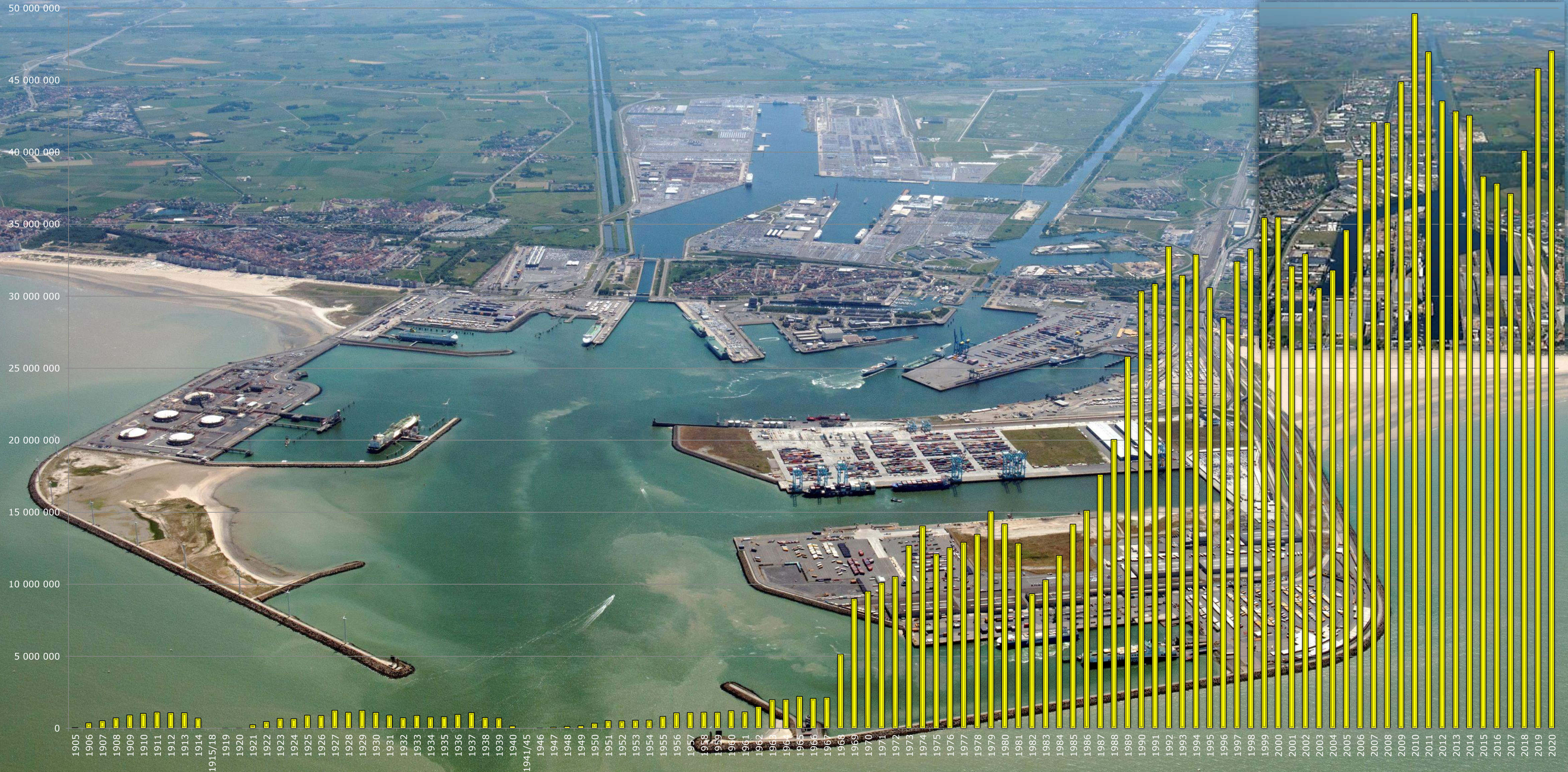
Johan Abel

Chief Officer Sales & Logistics

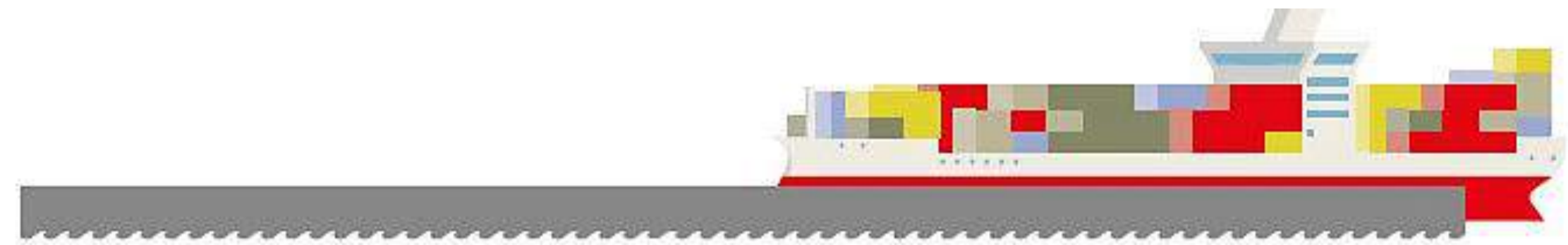
24 February 2022

Global evolution of traffic

49,2 MILLIONS DE TONNES/2021



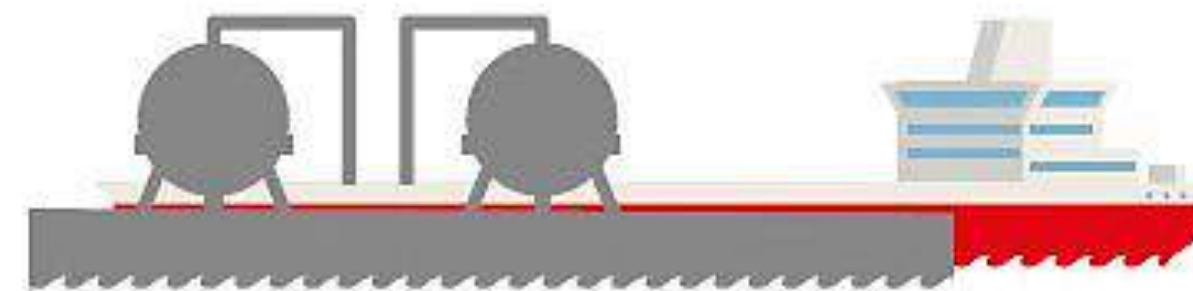
49,2 MILLIONS DE TONNES/2021



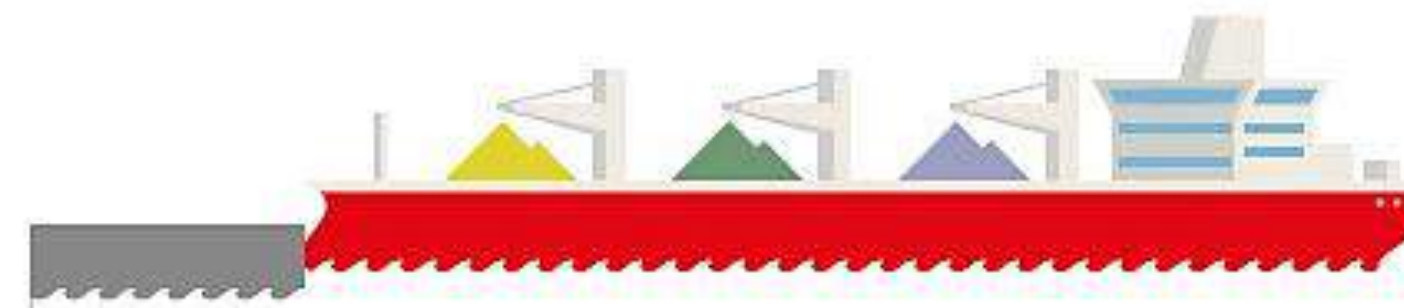
42% CONTAINERS



30% RORO



23% LIQUID BULK



3% DRY BULK



1% BREAK BULK

Containers

+15,1%



20,6 MIL. TON | 2,2 MIL. TEU



RORO

+5,1%

 **14,9 MIL. TON**

 **2,2 MIL. NEW CARS**



MODAL SPLIT

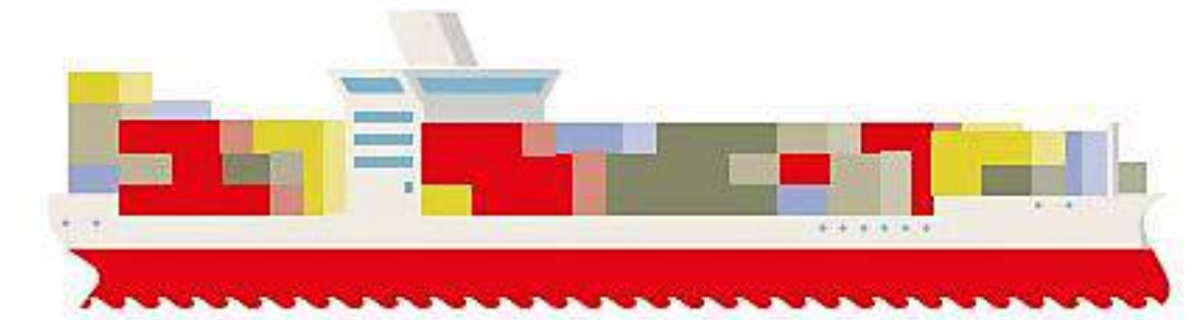
38 % ROAD



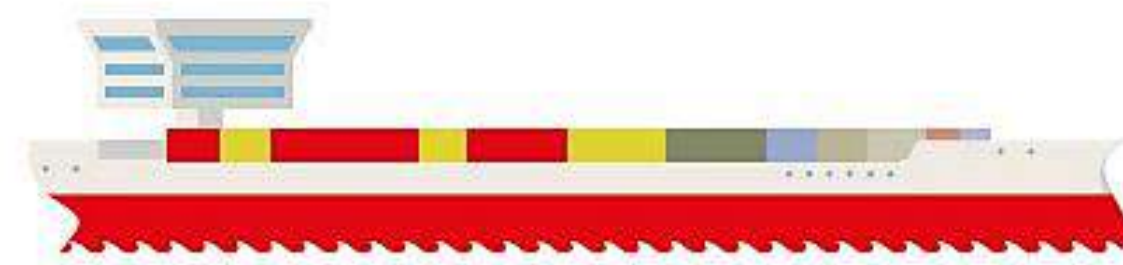
12,7 % RAIL



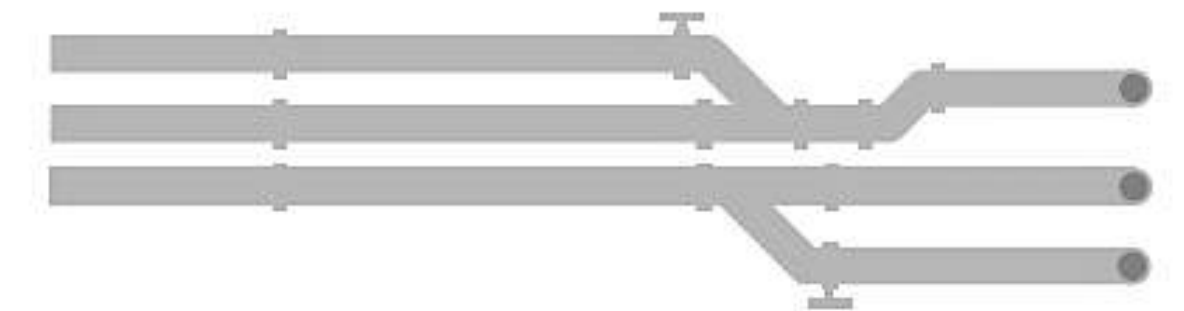
36,9 % SHORT SEA TRANSHIPMENT



5,2 % INLAND WATERWAYS



7,1 % PIPELINE



LAND CONNECTIVITY : Rail



Railway access to all terminals



Railway intermodal connections

CSP Zeebrugge Terminal

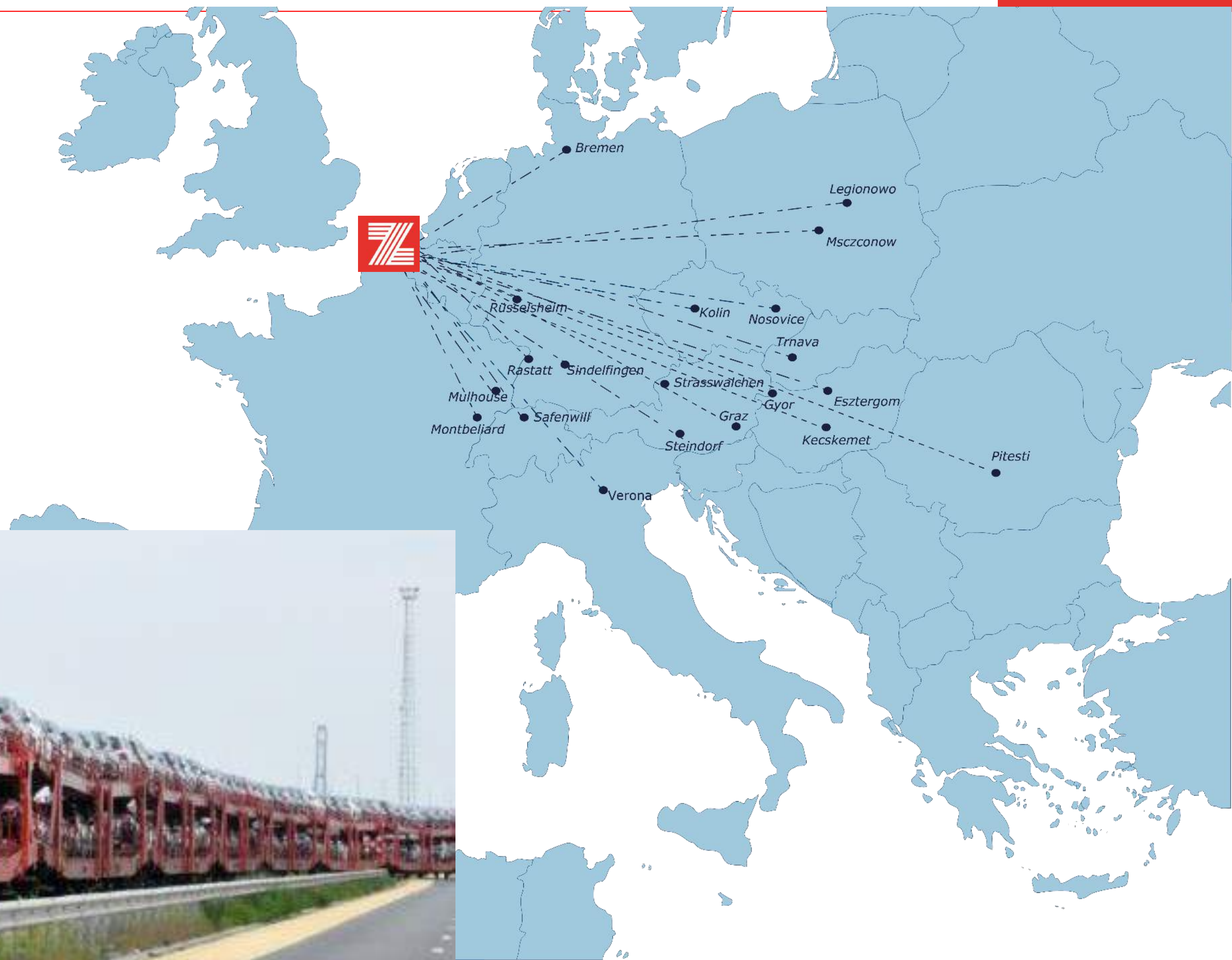
P&O Ferries

C.RO Terminal

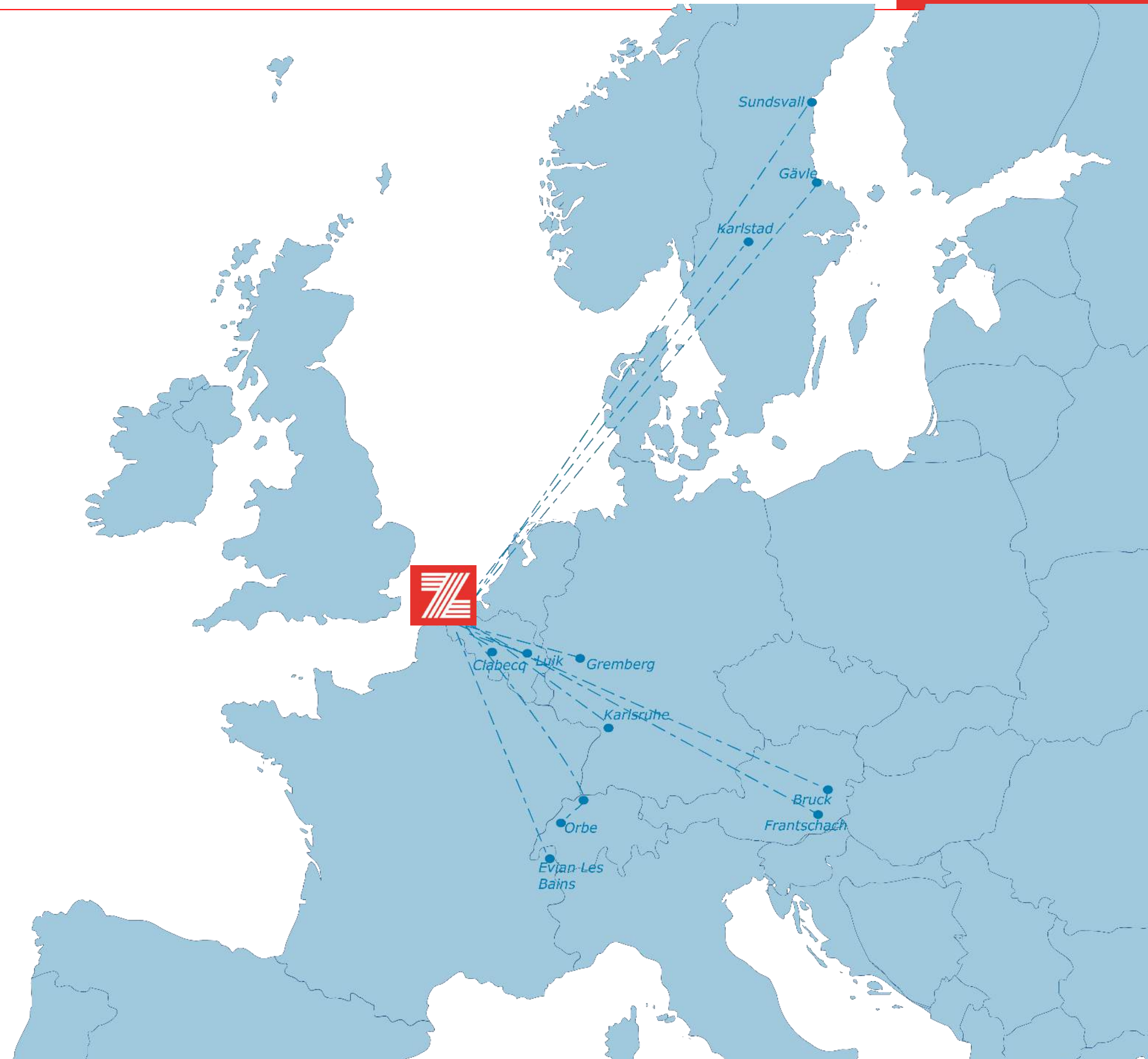


Rail Connections to several terminals

Railway connections for new cars



Connexions ferroviaires conventionnelles



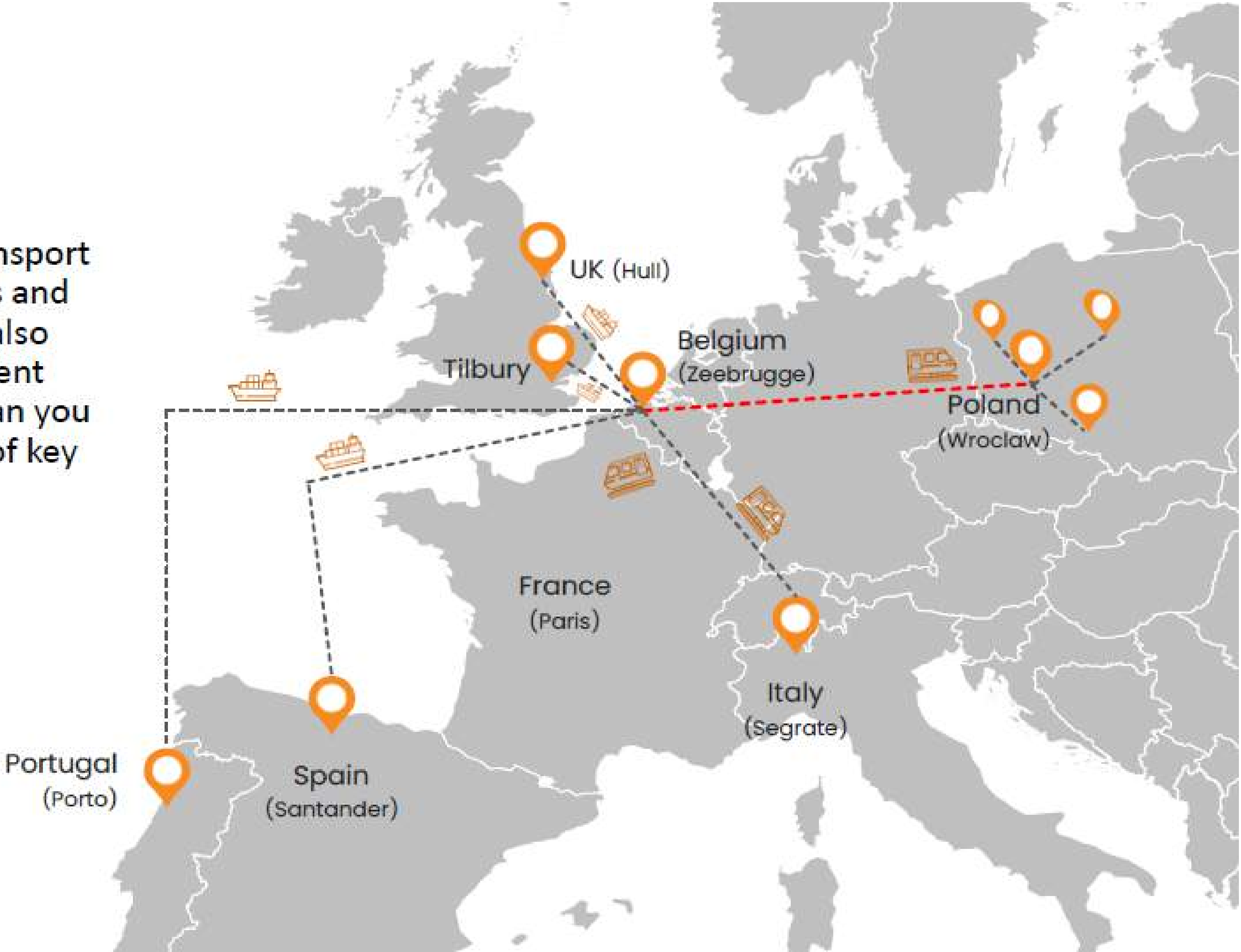
Infrastructural investments



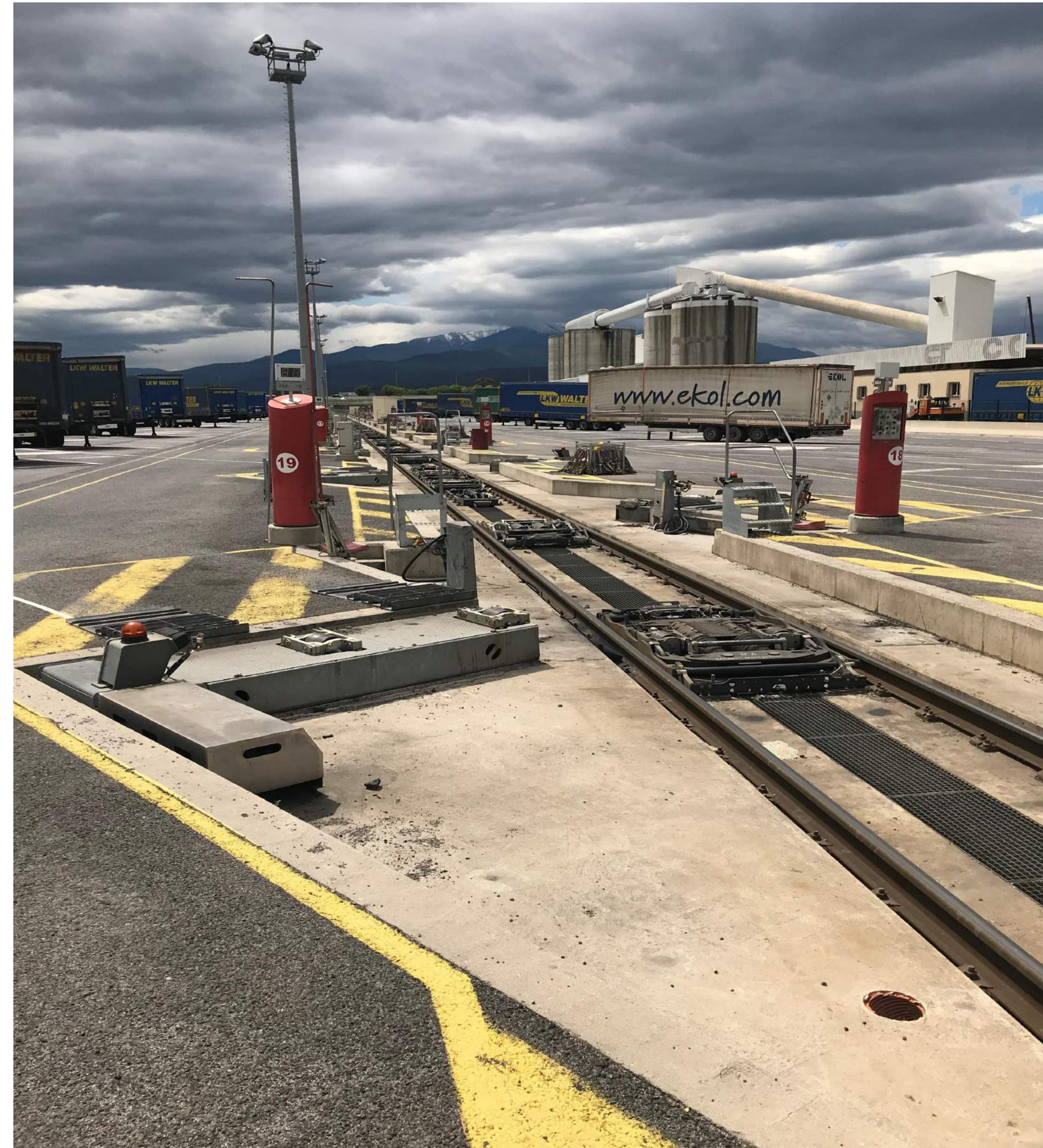
Facilitate and support new railway initiatives

INTERMODAL MAP

Whether it's road, sea or air, our multimodal transport solutions work to minimise emissions, cut costs and improve efficiency for your supply chain. We also minimise dependence on third parties. Frequent departures from our company-owned trains mean you don't need to worry about space on a number of key routes.



Innovation and follow up of market evolutions



Innovation and follow up of market evolutions



Planning of intermodal chains – online tool

Connections **Routeplanner** **Terminals**

Deepsea
Inland shipping
Rail
Shortsea

Connections **Routeplanner** **Terminals**

From: Zeebrugge × To: [Empty]

Transport time (days)	Frequency (weekly)	From	To	Via	Operator	Operator (via)	Transport mode
1	5	Zeebrugge	Bettembourg	Direct	CFL Multimodal		Rail
1	1	Zeebrugge	Esbjerg	Direct	CLdN		Sea
1	2	Zeebrugge	Göteborg	Direct	CLdN		Sea
1	7	Zeebrugge	North Killingholme	Direct	CLdN		Sea
1	17	Zeebrugge	Purfleet	Direct	CLdN		Sea
1	1	Zeebrugge	Rotterdam	Direct	CMA-CGM		Sea
1	1	Zeebrugge	Rotterdam	Direct	Containerships Rotterdam BV		Sea
1	3	Zeebrugge	Dourges	Direct	Danser		Inland shipping
1	3	Zeebrugge	Halluin	Direct	Danser		Inland shipping
1	3	Zeebrugge	Kortrijk	Direct	Danser		Inland shipping
1	3	Zeebrugge	Lille	Direct	Danser		Inland shipping
1	3	Zeebrugge	Göteborg	Direct	DFDS Ferries		Sea
1	2	Zeebrugge	Sete	Direct	Ekol		Rail
1	1	Zeebrugge	Tilbury	Direct	Finnlines		Sea
1	3	Zeebrugge	Dourges	Direct	Greenmodal-Novatrans		Rail
1	4	Zeebrugge	Domodossola	Direct	HUPAC		Rail
1	5	Zeebrugge	Ludwigshafen	Direct	HUPAC		Rail

Transport time (days): 1 | 56 | Frequency (weekly): 1 | 17

Connection: Alles selecteren | Direct | Indirect





World port reconciling people, climate and economy



One port
Two sites

Stronger position **global supply chain**
Sustainable growth & **interconnectivity**
Pioneering in **energy transition**

portofzeebrugge.be

Merci pour votre attention





Fret et logistique ONCF , une résilience et une stratégie de repositionnement prometteuse

Mohammed OUBRAHIM
Directeur Commercial Marchandises

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2. Panorama des activités Fret et Logistique
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 1. Projections à l'horizon 2025 et 2030,
 2. Synthèse



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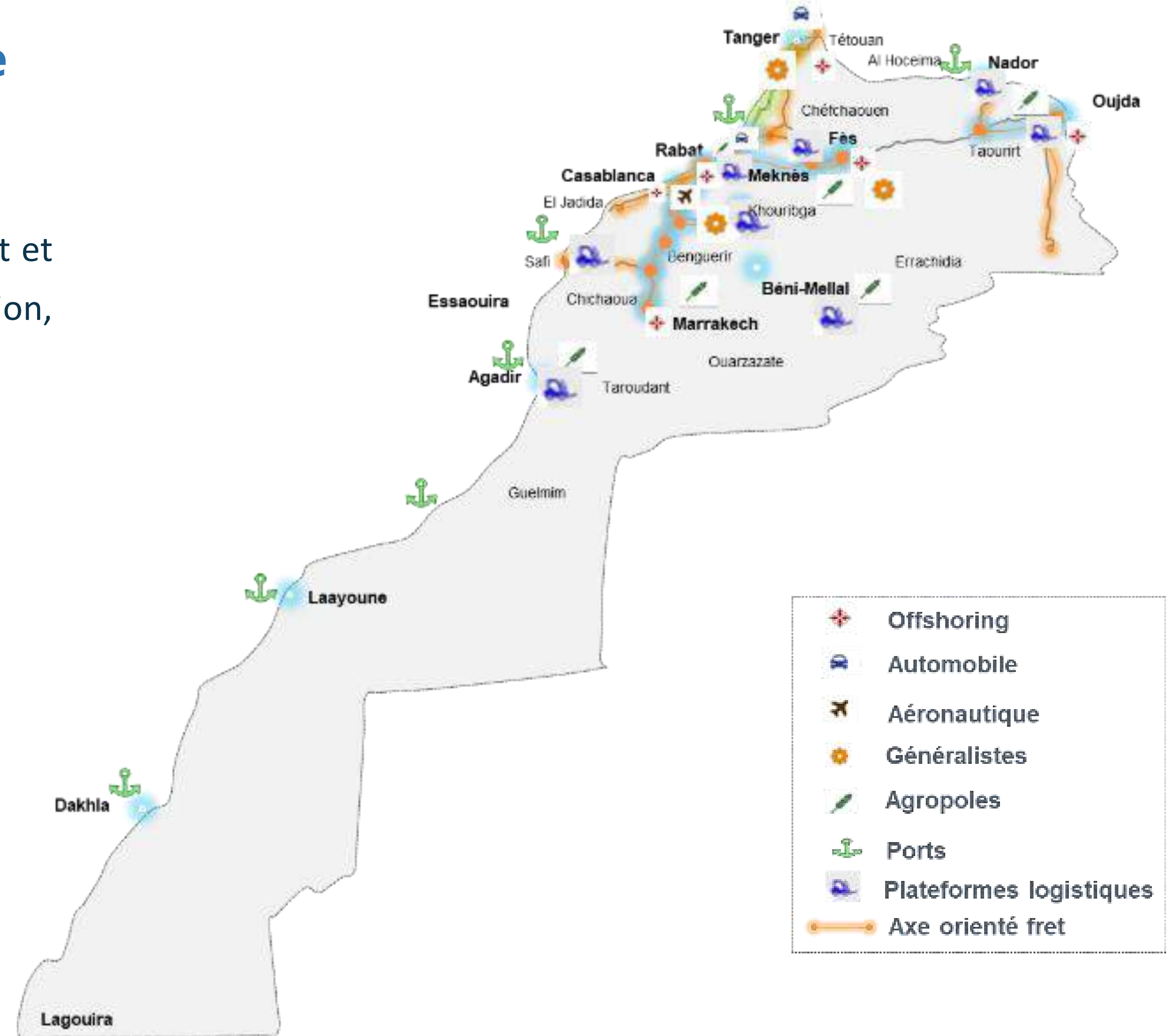
1.1 Besoins et services Fret et Logistique



Un besoin important pour le transport fret et logistique au niveau des sites de production, de stockage et de distribution



Une nécessité d'accompagnement fiable du déploiement des stratégies sectorielles : pôles portuaires, plateformes logistiques, sites industriels et miniers...



1.2 Environnement

RÉGLEMENTATION

Ferroviaire réglementé avec
contrôle rigoureux

DEMANDE

Transport globalement en
croissance et besoin en solutions
logistiques intégrées

**OFFRE DE TRANSPORT**

Mode routier en croissance suite
développement infrastructure :
routes (+3%/an) et camions (+5%/an)

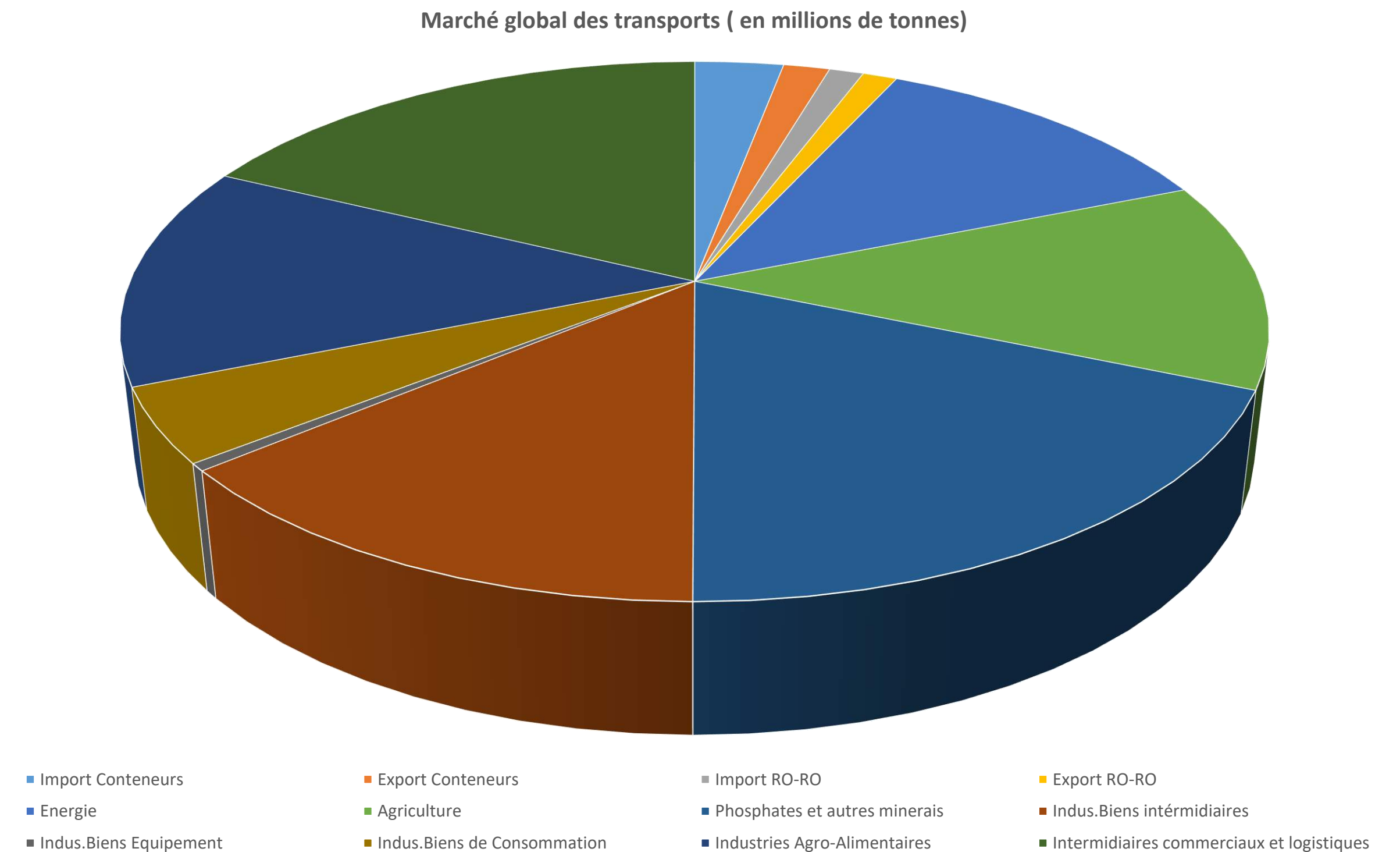
CHANGEMENTS STRUCTURELS

Délocalisations des industries,
nouveaux modes (pipe, feeder) et
substitutions brutales



1.3 Consistance du marché de transport de marchandises au Maroc(Mt)

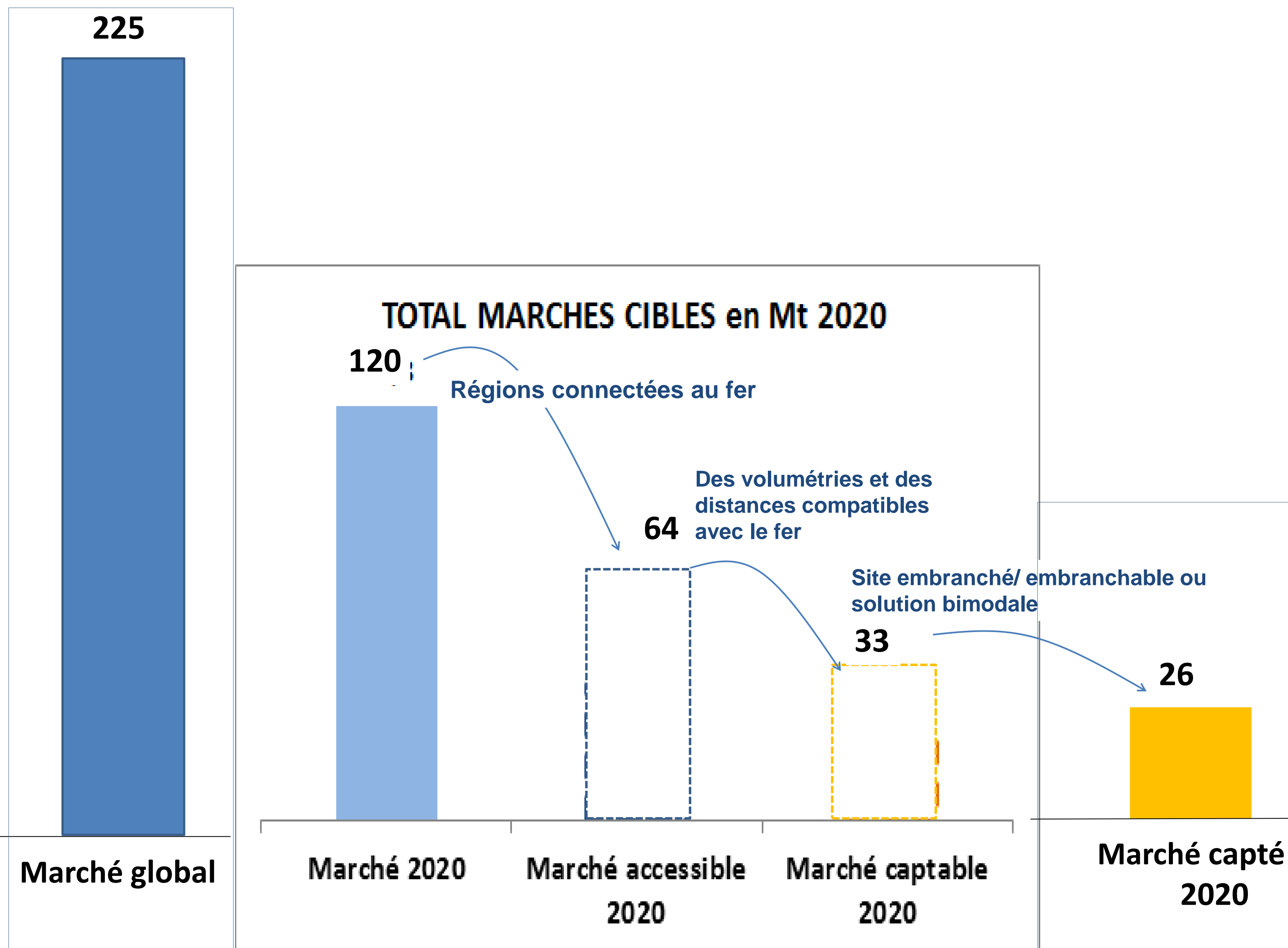
Import Conteneurs	6,7
Export Conteneurs	3,5
Import RO-RO	2,6
Export RO-RO	2,6
Energie	27
Agriculture	28
Phosphates et autres minerais	42
Indus.Biens intermédiaires	31,2
Indus.Biens Equipement	1
Indus.Biens de Consommation	10
Industries Agro-Alimentaires	30
Intermédiaires commerciaux et logistiques	40
Total	224,6



1

Marché et positionnement

1.3 Consistance du marché de transport de marchandises au Maroc(Mt)



Par rapport au marché global

12 %

Par rapport au marché accessible

40 %

79 % du captable a été capté en 2020

Marché (MT)	2020	2025
Marché Captable	33	41
Marché à capter	26	37
Part (%)	79%	90%

Objectif étant de gagner 10 points sur 5 ans

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2.1 Indicateurs transport



26

Tonnage
annuel (10⁶)Tonnage
journalier
80000

70

Nbre Train
par jourPart de
marché
12%

86%

Trafic en
conventionnementIndicateurs
logistiques

20

Grands comptes

80 000

Conteneurs traités
par an

100%

Occupation des cellules
des entrepôts200 000 m³de marchandises
traitées par an en
entrepôts

3 millions

Colis traités par an
dans le hub
messagerie

2.2 Couverture de la Supply Chain

DOMAINES D'ACTIVITÉ

01

TRANSPORT
FERROVIAIRE

02

EXPLOITATION
PORTS SECS

03

GESTION
D'ENTREPÔTS

04

DISTRIBUTION
(LAST MILE)

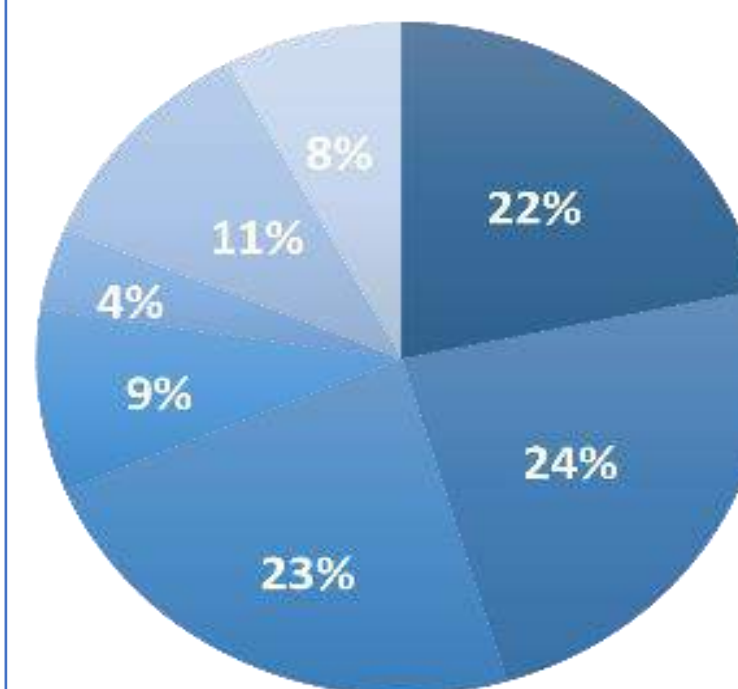
2.3 Deux principales activités

Phosphates



OCP (8 sites CLIENTS)
Train de 4000T/750m

Fret (hors phosphates)



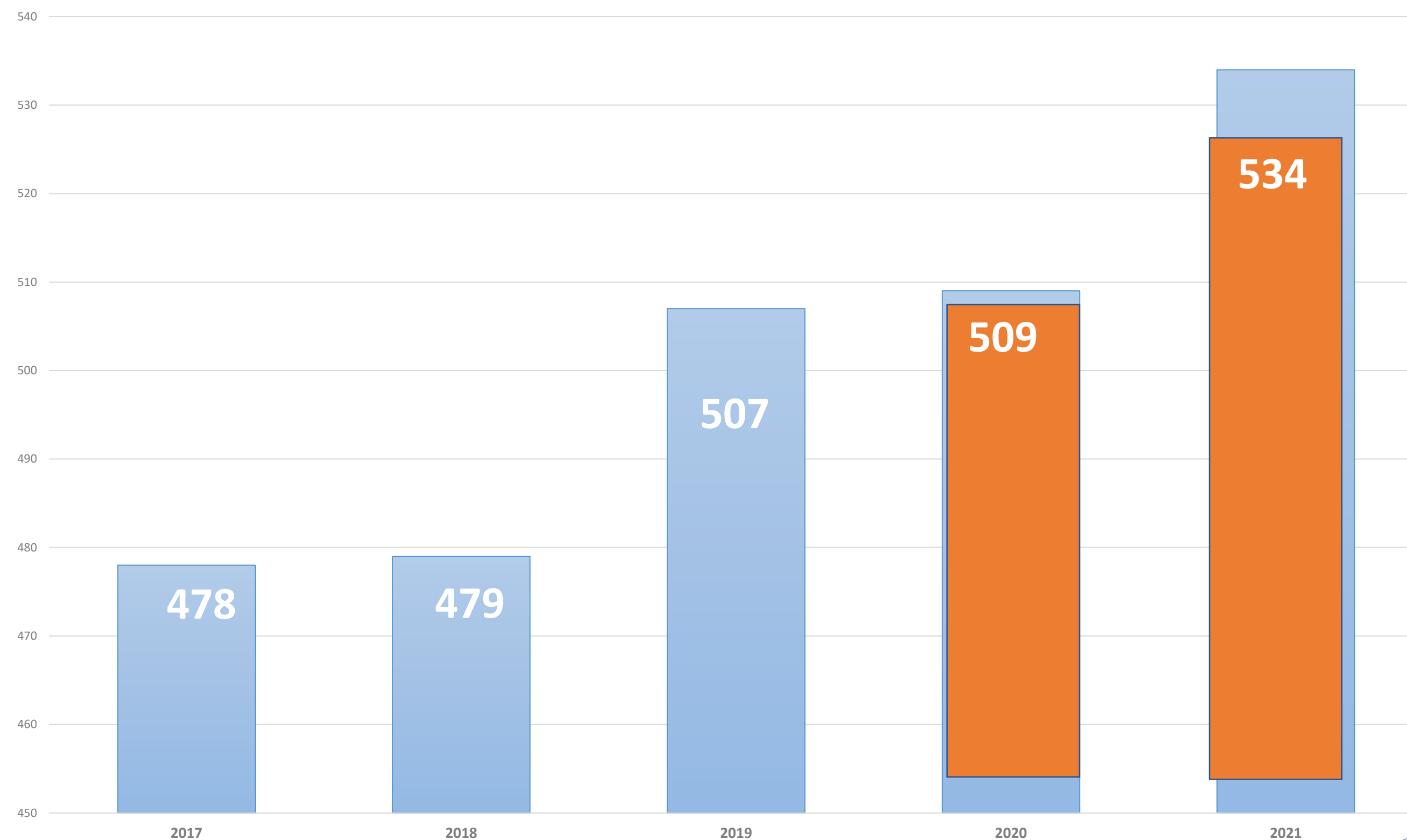
- Chimie
- Energie
- Mat.Construction
- Agriculture
- Conteneurs
- Automobile
- logistique

115 Clients/Opérateurs



2.4 Trafic Fret et logistique (hors phosphate) : Forte résilience , évolution positive malgré la crise

Trafic du Fret ferroviaire , hors phosphates (Millions de DH)



Résilience du fret ferroviaire aux impacts de la pandémie

- ☐ La logistique ferroviaire au service des chaînes d'approvisionnement et de distribution des produits de première nécessité ,
- ☐ Arrêt/Ralenti de certains flux de marchandises compensés par d'autres de première nécessité (céréales , agro-alimentaire, ...etc.)

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Une stratégie de développement en cours d'implémentation

Vision

Devenir un opérateur de transport et de la logistique capable d'offrir des solutions logistiques globales et intégrées (Door to Door)

4 leviers

L1

Aménagement,
construction et
exploitation des
plateformes
Logistiques

L2

Développement
des plans
logistiques
sectoriels

L3

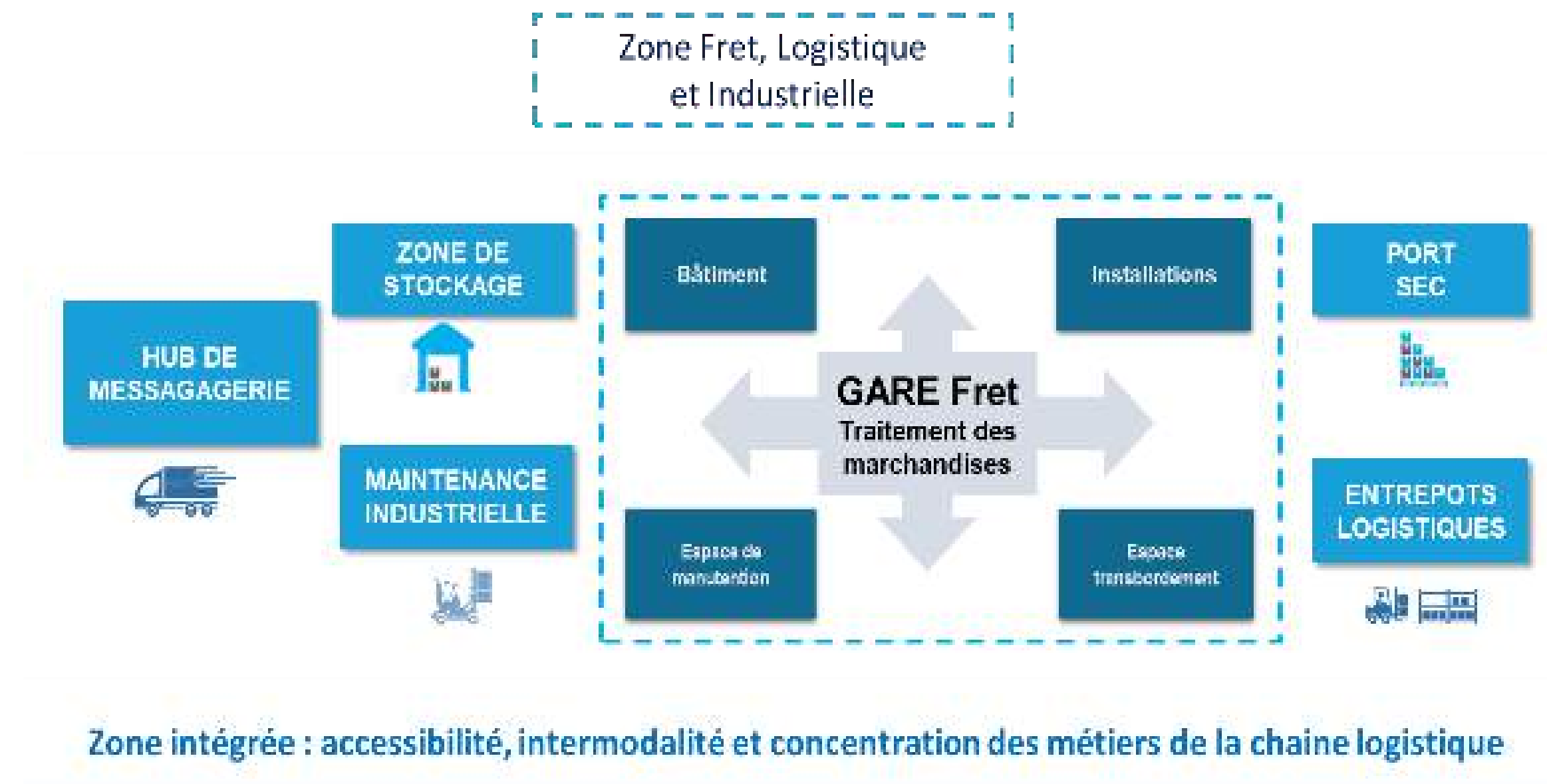
Massification
des
flux de et vers
les ports

L4

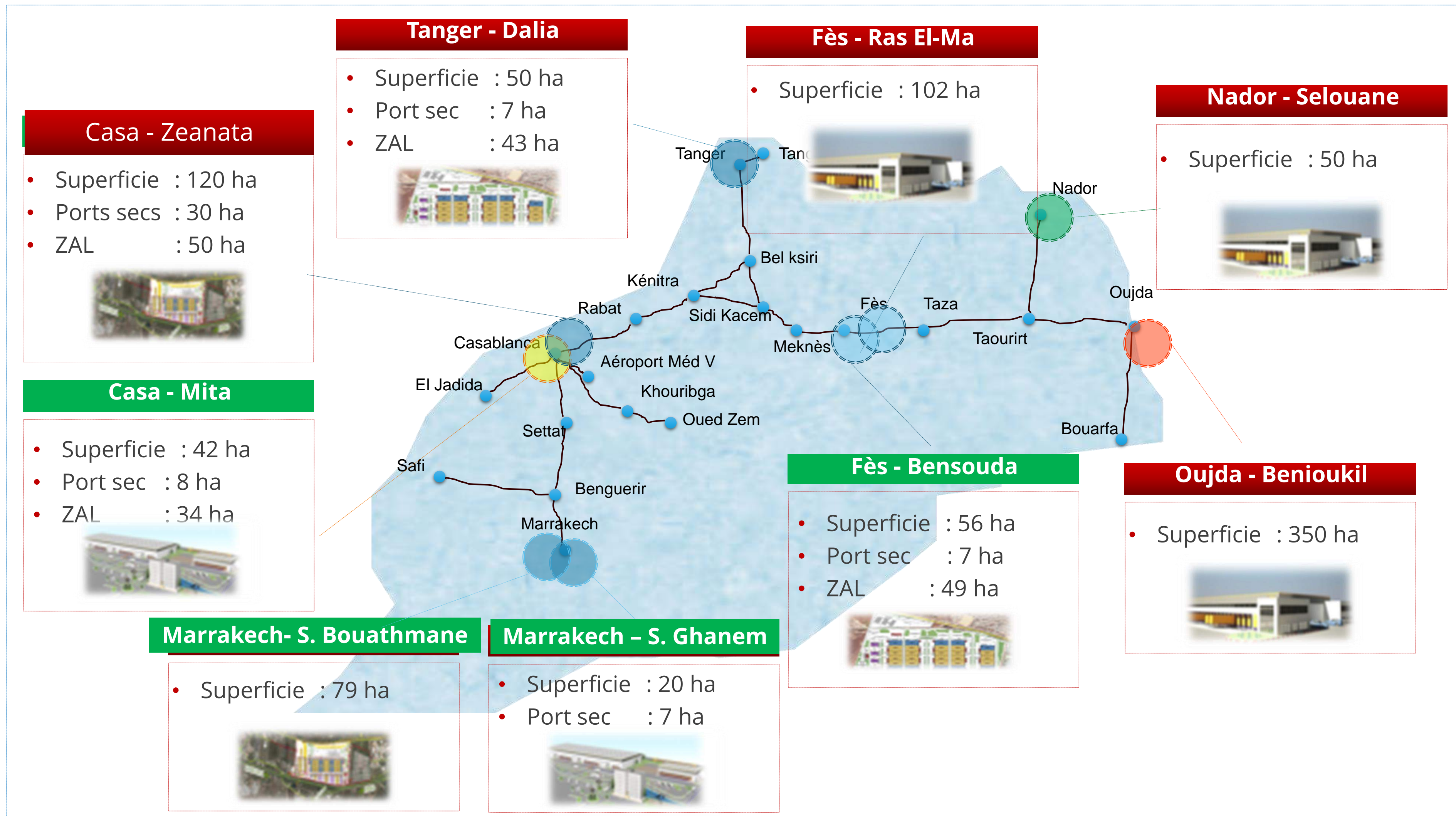
Partenariats et
Constitution
d'Opérateur
Global

Levier 1: Stratégie de développement des plateformes logistiques

- Délocaliser les activités Fret et Logistique à l'extérieur du périmètre urbain et à proximité des zones industrielles
- Mettre à niveau ces activités et leur structuration
- Se doter d'un potentiel de développement des activités du transport et de la logistique



Levier 1: un réseau de plateformes logistiques



9 SITES

450 HECTARES

En exploitation

En projet

3 Stratégie de développement du FRET-ONCF

Levier 1: un réseau de plateformes logistiques /Quelques réalisations

Casa MITA



Port Sec



Marrakech



Entrepôts logistiques



Centre d'affaires



Fès



Hubs de messagerie



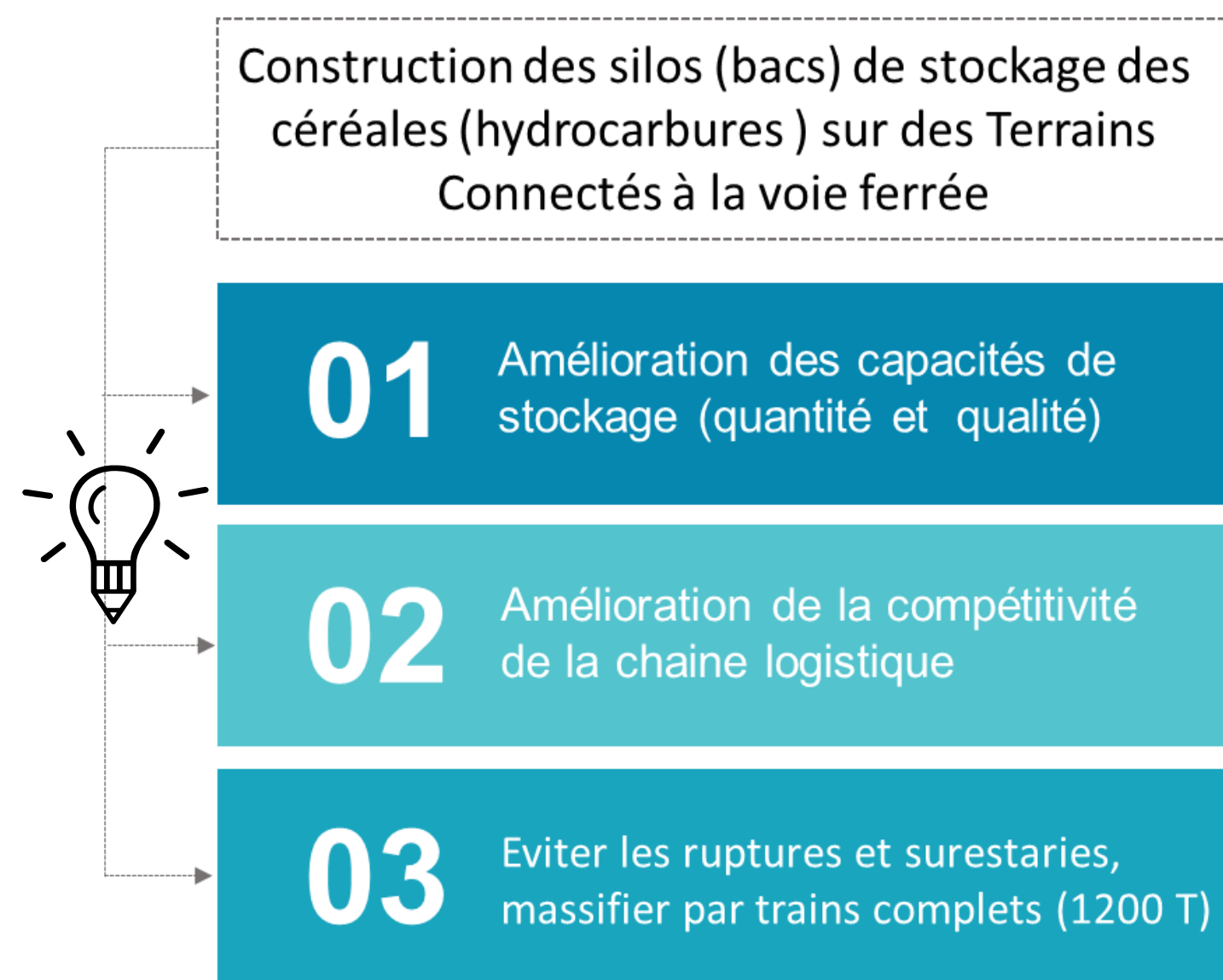
Faisceau voies à Zenâta



Levier 2: Développement des plans logistiques sectoriels

Levier 2: Développement des plans logistiques sectoriels/Réalisations

➤ Plans Logistiques Céréaliers et Hydrocarbures



Plan Logistique Céréaliers

- ✓ Silos réalisés : 10
 - Capacité : 400KT
 - Lieu : Fès, Meknès, Casa, Berrechid & Marrakech ,Sidi Slimane et Taza
- ✓ Silos en projets : 4
 - Capacité : 250 KT
 - Lieu : Casa, Marrakech & Oriental
- ✓ Transport
 - Actuel : 500 000 T/an
 - A terme : 1 Million T/an

Plan Logistique hydrocarbures

- ✓ Terminaux réalisés : 4
 - Lieu : Tanger Med, Jorf Lasfer, Marrakech et Meknès
- ✓ Terminaux en projets : 2
 - Lieu : Fès et NAdor
- ✓ Transport
 - Actuel : 600 000 T/an
 - A terme : 1 million T/an

Levier 2: Développement des plans logistiques sectoriels/Réalisations

➤ Plan Logistique Conteneurs



Trois Terminaux à
conteneurs construits et
en exploitation :
Casablanca (MITA) : 8 ha
Fès : 4ha
Marrakech : 4ha



Transport et traitement
des conteneurs sous
douane (port sec):
stockage, manutention,
pesage, dédouanement,
contrôle, visite...



Cadence : 2 train/j et par
sens (5 à terme)
Capacité : 66 à 70 EVP par
train
Transport : 40000 EVP par
an et 150000 à terme

Levier 2: Développement des plans logistiques sectoriels/Réalisations

➤ Plan Logistique Automobiles



Le rail , maillon essentiel dans la chaîne logistique de Renault (Melloussa) et PSA (Kenitra) dans le cadre de la stratégie d'accélération industrielle

PERFORMANCES

- **360 000** Voitures transportées (2019)
- **1 500** à **1800** voitures par jour
- **240** à **280** voitures par train
- **12** à **16** trains par jour
- **Potentiel** : 620 000 voitures, dont 160 000 de Kenitra et 100 000 voitures de Casa.

RETOMBÉES

- **45 000** camions évités
- **250** camions évités par jour ,
- Réduction substantielle des GES

3 Stratégie de développement du FRET-ONCF

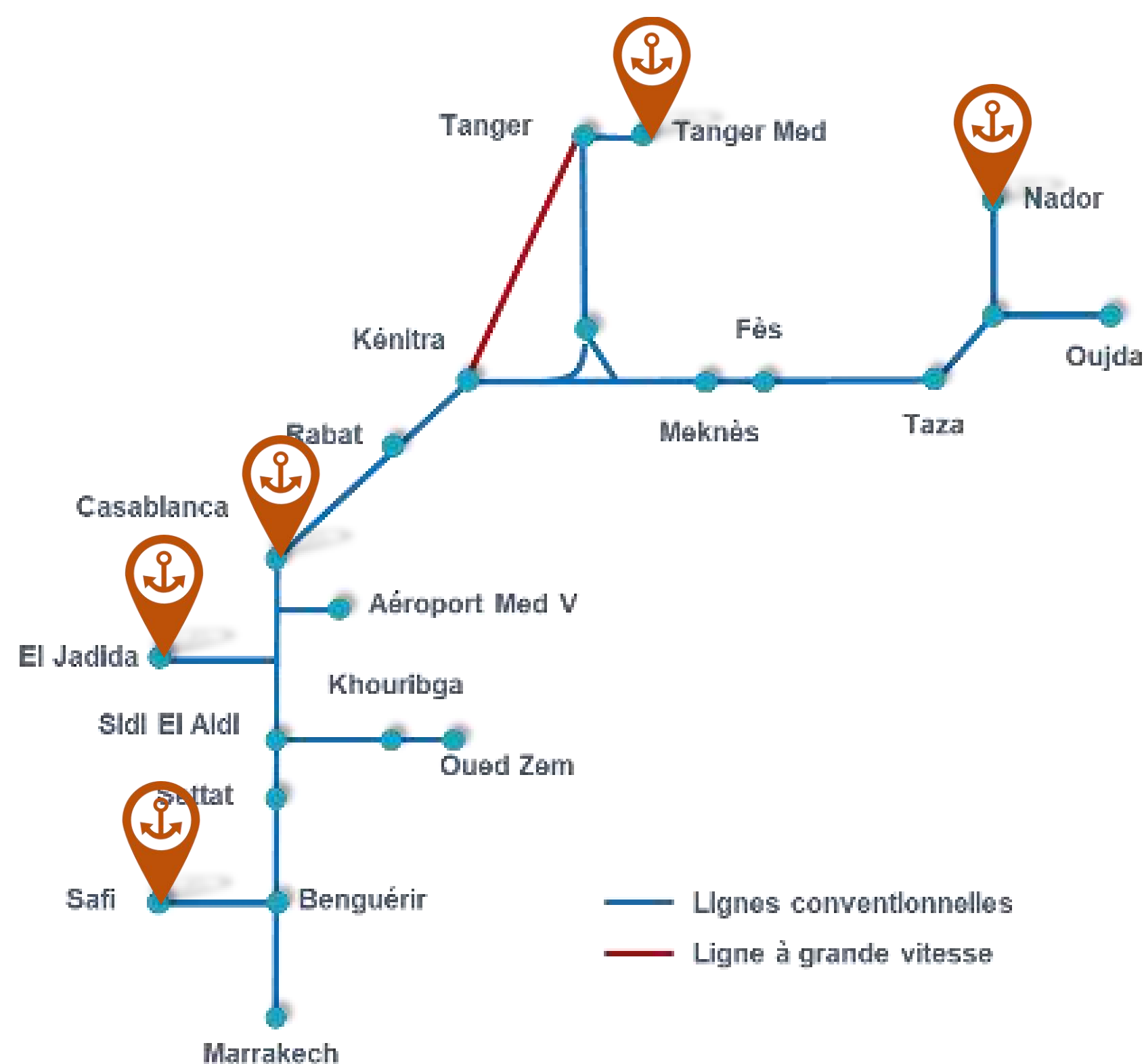
Levier 3: Massification et Optimisation des flux de et vers les ports

60 %
Du trafic Fret est réalisée avec les ports

14,6
MT de marchandises Échangées avec les ports

17%
Part du rail

30 %
Part " Objectif" à l'horizon 2030



- Développement installations ferroviaires aux ports
- Amélioration des interfaces avec les opérateurs
- Amélioration de la connexion de l'hinterland des ports
- Intégration du rail dans la Supply Chain des clients

Ports	Trafic portuaire, (KT)	Trafic Rail	Part actuelle du rail	Part 2030 du rail
Casablanca	30 300	8 700	28%	35 %
Nador	3 300	687	21%	30%
El Jorf Lasfer	35 600	410	1%	5%
Safi	5 900	4 210	71%	85%
Tanger Med	11 100	578	5%	25%
Total	86 200	14 585	17 %	30 %

3 Stratégie de développement du FRET-ONCF

Levier 4: Partenariats et Constitution d'Opérateur Global

➤ Partenariats



➤ Opérateur Global et Intégré ,futur champion national logistique

Le ferroviaire peut constituer l'**épine dorsale** des chaînes logistiques globales et de la mobilité durable , le relais à travers des plateformes de stockage et le transport routier de la livraison terminale

L'ONCF , en mesure de mener des grands projets d'investissement et de développer des partenariats avec les opérateurs de la chaîne logistique et de réaliser la croissance externe . L'objectif étant d'assurer une prestation logistique globale multimodale et intégrée avec une ambition régionale pour l'Afrique et la Méditerranée.

Concrétisation de cette ambition d'OGI repose sur les actions suivantes

Accroissement soutenu du trafic ferroviaire par la concrétisation de projets de développement et de partenariats logistiques et industriels;

Renforcement du rôle de la filiale SLTR CARRE , en matière de transport routier , dans les chaînes logistiques de distribution et d'approvisionnement des clients.

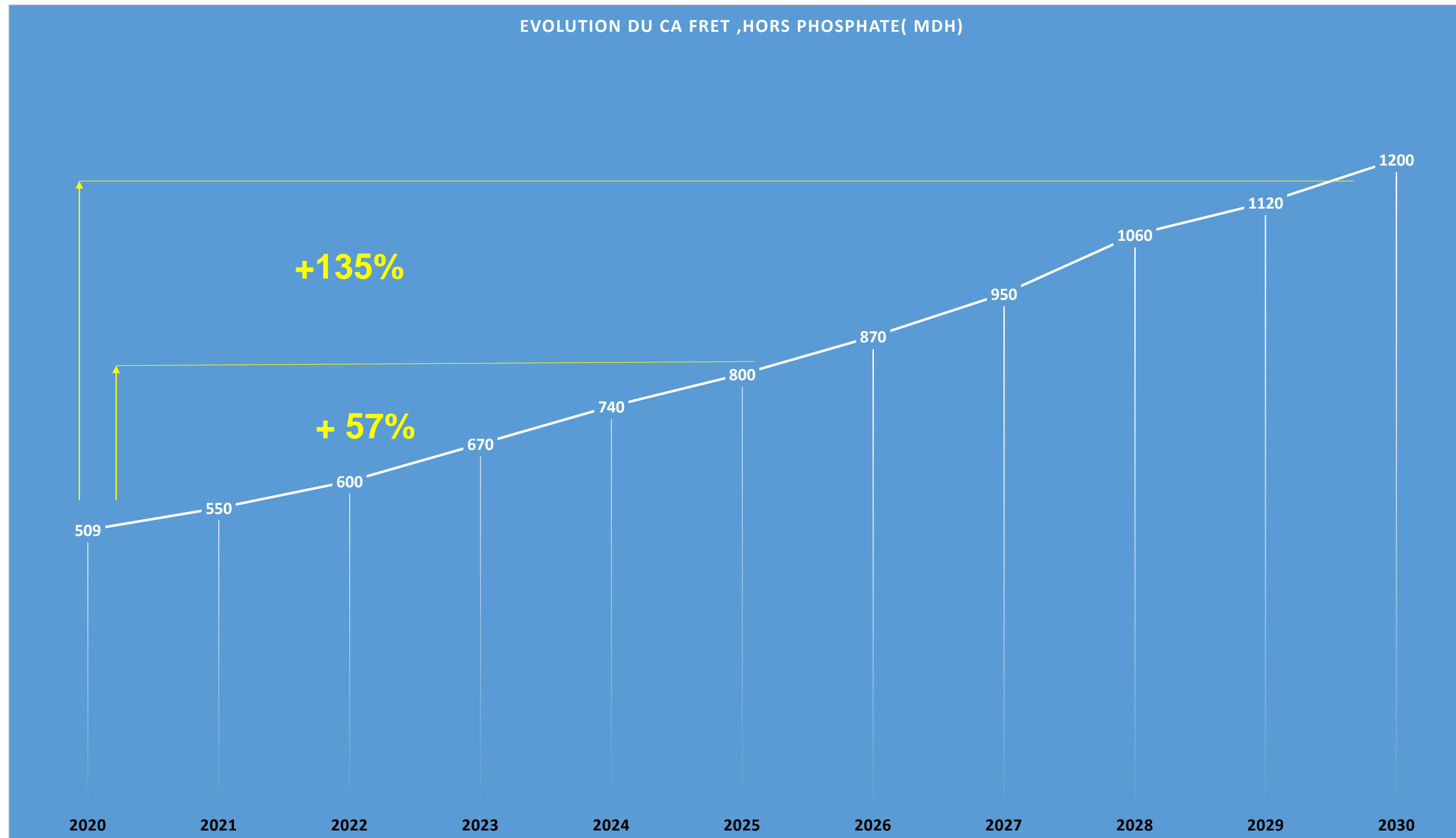
Promotion de la réalisation de plateformes logistiques et d'entrepôts logistiques sur des terrains ONCF destinés à cet effet.

Acquisition d'opérateurs de transport et logistique , intervenant dans les grandes chaînes logistiques nationales et internationales

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- Forte croissance , portée par des projets fret et des partenariats stratégiques (JV, OGI,...)



Meilleur positionnement sur le marché du transport et de la logistique

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❑ Quelques leviers de développement

Poursuite du renforcement de la position du FRET-ONCF par :

- a. la consolidation des résultats d'ores et déjà atteints ,
- b. le développement de nouveaux relais de croissance,

L'objectif étant d'offrir aux opérateurs économiques des solutions logistiques globales, efficaces et efficaces sur les plans économique et écologique.



LEVIERS DE CROISSANCE POUR LE DEVELOPPEMENT DU FRET ET LOGISTIQUE

- (i) Modernisation de l'outil de production pour améliorer sa compétitivité.
- (ii) Accroissement des volumes transportés des secteurs profitables et à fort potentiel
- (iii) Alignement du transport ferroviaire sur la stratégie portuaire nationale à l'horizon 2030
- (iv) Amélioration de la part du rail dans le marché du transport des conteneurs .
- (v) Création de partenariats avec des opérateurs spécialisés en vue d'offrir un service global multimodal.
- (vi) Mise en place d'un service de ferroutage de et vers certains ports.
- (vii) Renforcement de la dématérialisation des échanges de données avec les clients et partenaires
- (viii) Poursuite de la réalisation du programme des plateformes logistiques.
- (ix) Positionner l'ONCF en tant qu'opérateur logistique global intégrant l'ensemble de la chaîne de valeurs

MERCI
DE VOTRE ATTENTION

