



Terminal & Railway undertaking Advisory Groups meeting

27 April 2023

Terminal advisory group presentation

Luis Núñez, Head of European Affairs of the Port of Algeciras

TAG spokesman

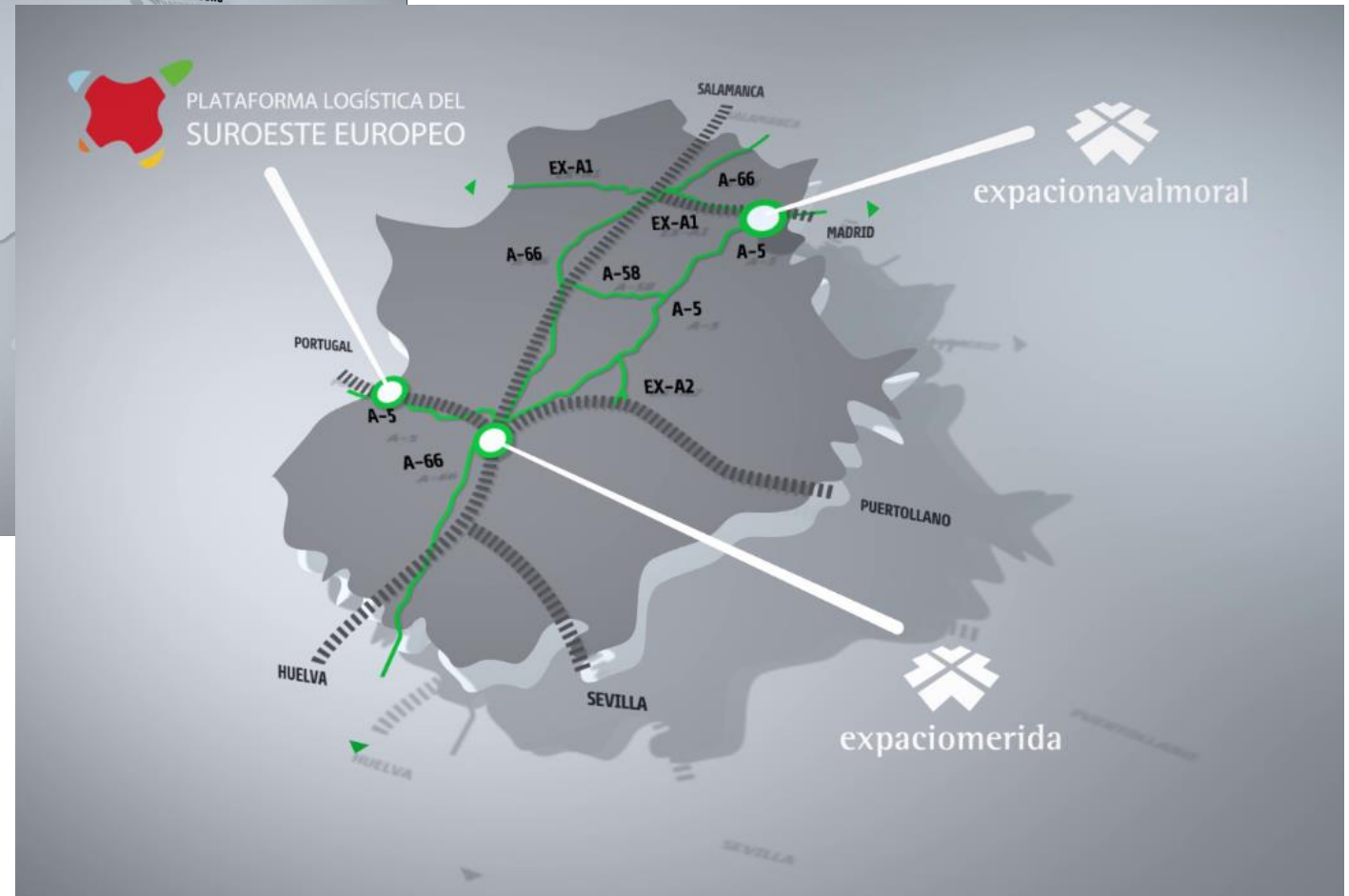
Topics for the meeting:

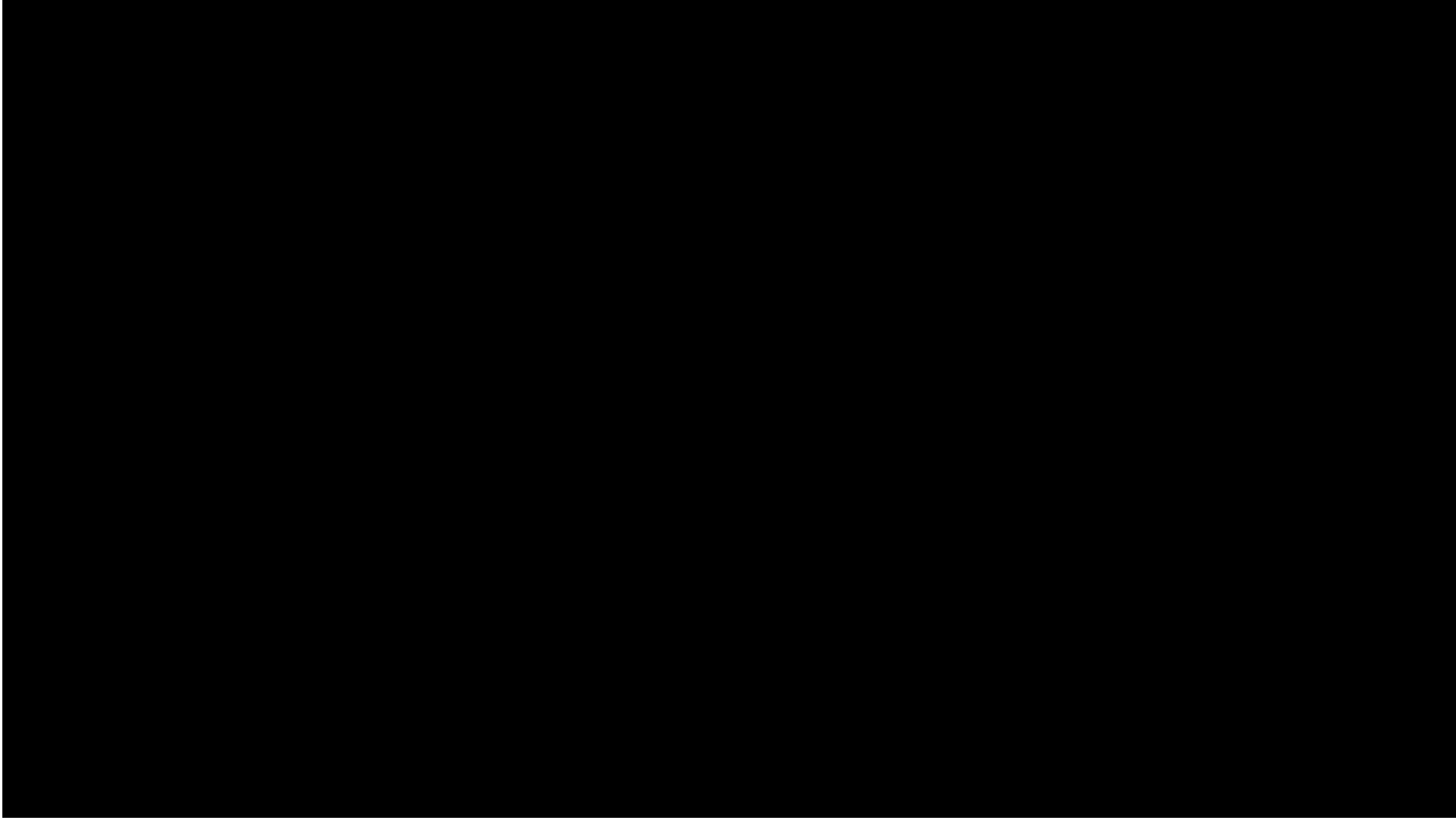
1. Update on terminals in Atlantic RFC
2. Traffic update: ports and inland terminals
3. Request and demands
4. What to expect from 2023

1. Update on terminals in Atlantic RFC

	PORTUGAL	SPAIN	FRANCE	GERMANY
8 PORTS	<p>2</p> <p>Port of Aveiro Port of Setubal</p>	<p>4</p> <p>Port Of Algeciras Port Of Huelva Port of Sevilla Port of Bilbao</p>	<p>2</p> <p>Port of Le Havre Port of Strasbourg</p>	
50 INLAND TERMINALS	<p>14 operational</p> <p>VALONGO; VILA NOVA DE GAIA; PAMPILHOSA; MANGUALDE; GUARDA; ALFARELOS; ENTRONCAMENTO; TVT; BOBADELA; CONTEPARQUE; ALB; SPC; ALCONT; POCEIRÃO.</p>	<p>13 operational</p> <p>IRÚN; PASAIA, JÚNDIZ; BILBAO; NOAIN; TERCAT; VALLADOLID; ZARAGOZA; ABROÑIGAL; VICÁLVARO; COSLADA, CÓRDOBA EL HIGERÓN, SAN ROQUE;</p> <p>3 under construction</p> <p>Badajoz, Mérida, Naval moral</p>	<p>10 Operational</p> <p>LE BOURGET; NOISY-LE-SEC; WOIPPY; HAUSBERGEN; VALENTON; SAINT-PIERRE-DES-CORPS; COGNAC; BORDEAUX – HOURCADE; BAYONNE – OUGUERRE; HENDAYE; AMBROGIO</p>	<p>10 Operational</p> <p>BECKINGEN PUHL; LUDWIGSHAFEN KTL; LUDWIGSHAFEN CONTARGO; MANHEIM CONTARGO; MANHEIM DP WORLD LOGISTICS; MANHEIM-HANDELSHAFEN DUSS; KIRKEL TERMINAL; GERMERSHEIM DP WORLD LOGISTICS; SAARBRUECKEN</p>

New Terminals in Spain. Soon in service





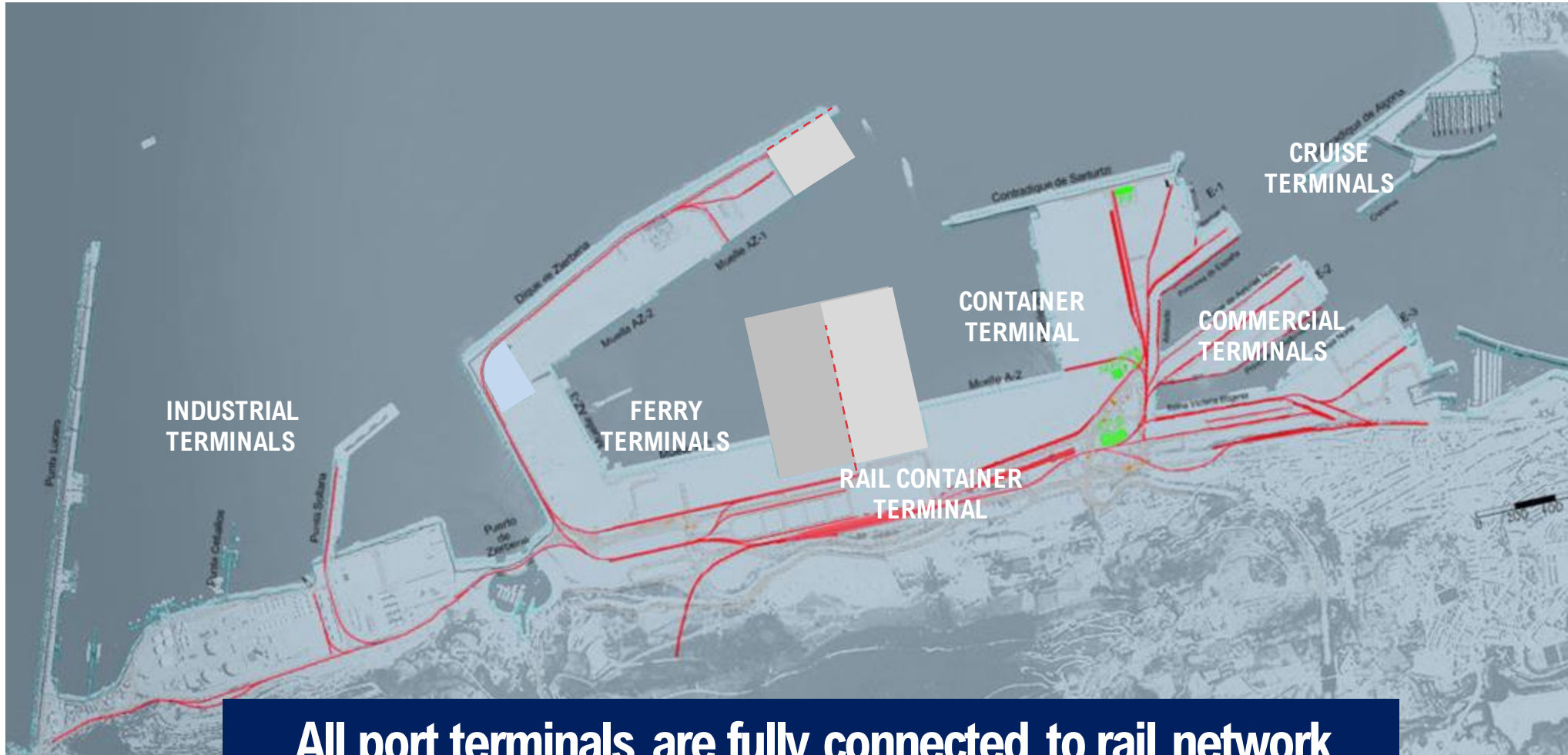
	TF PLSWE	TF EXN	TF EXM
Superficie Terminal Ferroviaria (Has)	18,5	12,5	12,5
Superficie acopio contenedores (m2)	4.500	3.000	3.000
Nº de alturas s/losa	4	4	4
Canto de losa (cm)	40	40	40
Tipología de losa	HM-30 ref fibra	HM-30 ref fibra	HM-30 ref fibra
Nº de vías recepción/expedición	2 (900-1000)	1 (680-790)	1 (580)
Nº de vías carga/descarga	2 (860-990)	1 (680-790)	1 (580)
Vía culatón de seguridad (50m)	2	2	2
Vía culatón de maniobras	1	1	1
Longitud vía culatón maniobras (m)	800	2.800	700
Longitud trenes máx. posible (m)	750	650	550
Línea de conexión de la RFIG de ADiF	LAV Plasencia-Badajoz. Frontera Portuguesa	Inicialmente en la línea Madrid-Cáceres, en el futuro en LAV Talayuela-Navalmoral	Mérida-Los Rosales (Sevilla)
Inst. Seguridad, señalización y telecom.	BAU y GSM-R integrados en LAV Plasencia-Badajoz frontera	BLAU y GSM -R integrados en bloqueo Humanes-Monfragüe	BAU y Tren-Tierra integrados en bloqueo Mérida-Zafra
Cumplimiento interoperabilidad	Si	Si	Si
Electrificación, en vías de acceso 25kV	Si (2023)	Si (2026)	No
Nº máximo contenedores/año	70.000	50.000	45.000
Nº máximo trenes/día	5Tr/750m/1500tm	4Tr/650m/1300tm	4Tr/550m/1100tm
Capacidad máx almacenamiento (contenedor 20 pies)	1.200	800	800

Port Terminals Update

- Recently joined the Atlantic RFC
 - Huelva
 - Sevilla
- Bilbao Port Update
- Strasbourg Port Update
- Setubal Port Update

In 2022, the Port of Bilbao moved 4.243 trains

Cargo Mix: 75% Container, 18% General Cargo, 7% Liquid Bulk



All port terminals are fully connected to rail network
Total length of port rail network: 40 km

The Port of Bilbao is connected to 23 Depots

27% of the container traffic is by rail



OWN MANAGEMENT (3): JUNDIZ, ARASUR AND PANCORBO

1. Update on terminals in Atlantic RFC

Survey to terminals



Requested information:

- a) Rail traffic of your terminal in 2022 in TEUs or number of boxes
- b) A list of mobile and fixed cranes in your terminal
- c) Any request or demand from an infrastructure and operational perspective that you may have for the EC authorities and/or railway infrastructure agencies.

15% of answers

Unifilar

ALFARELOS
12.850 Teus
20.240 units
3 reach stakers

KTL TERMINAL LUDWIGSHAFEN
342.000 units
7 Gantry cranes for 13 tracks
1 Gantry crane for dangerous goods

STRASBOURG PORT
79.330 TEUS
2 trimodal gantry crane
1 bimodal gantry crane

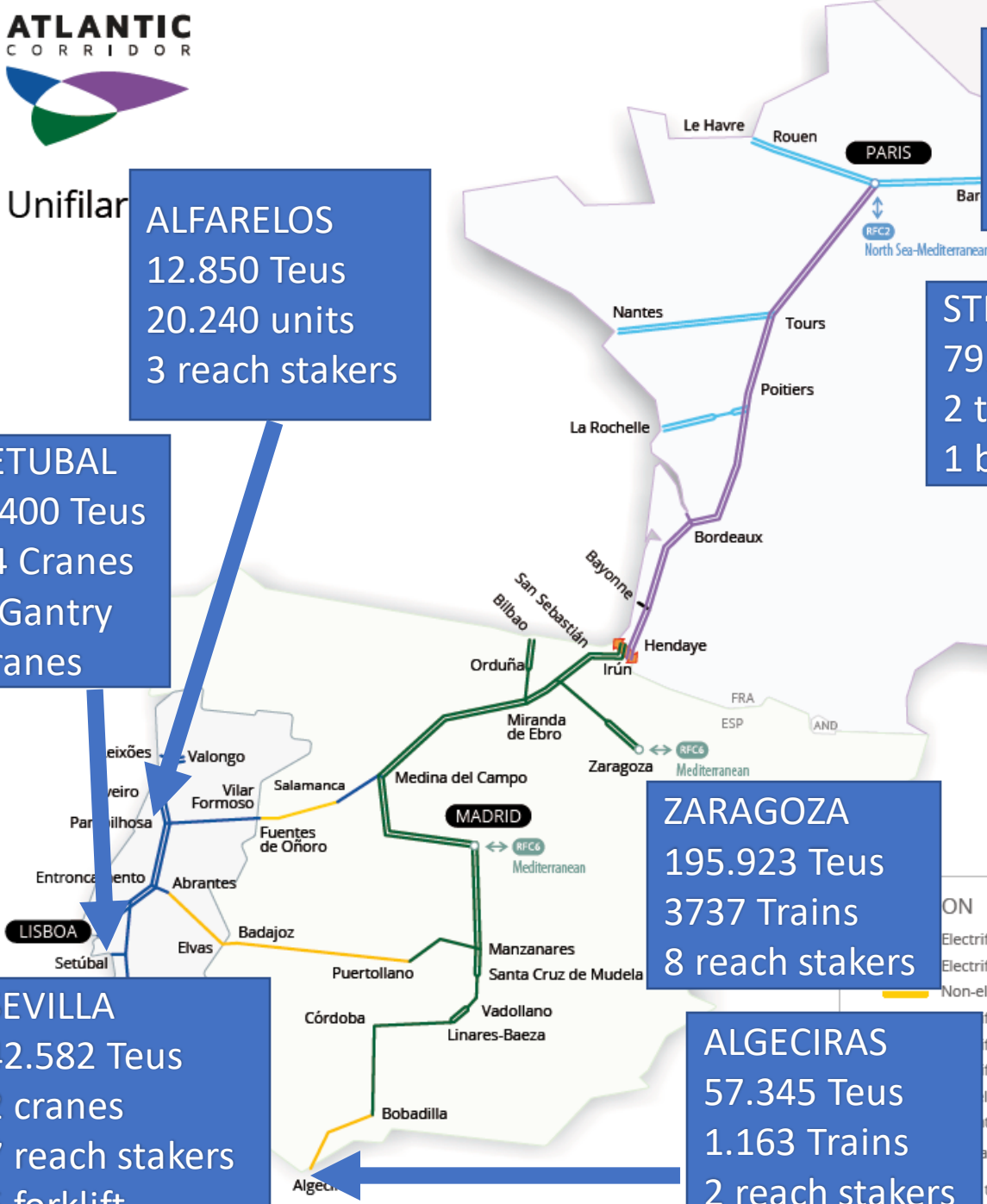
2. Traffic update: ports and inland terminals 2022

SETUBAL
3.400 Teus
14 Cranes
2 Gantry Cranes

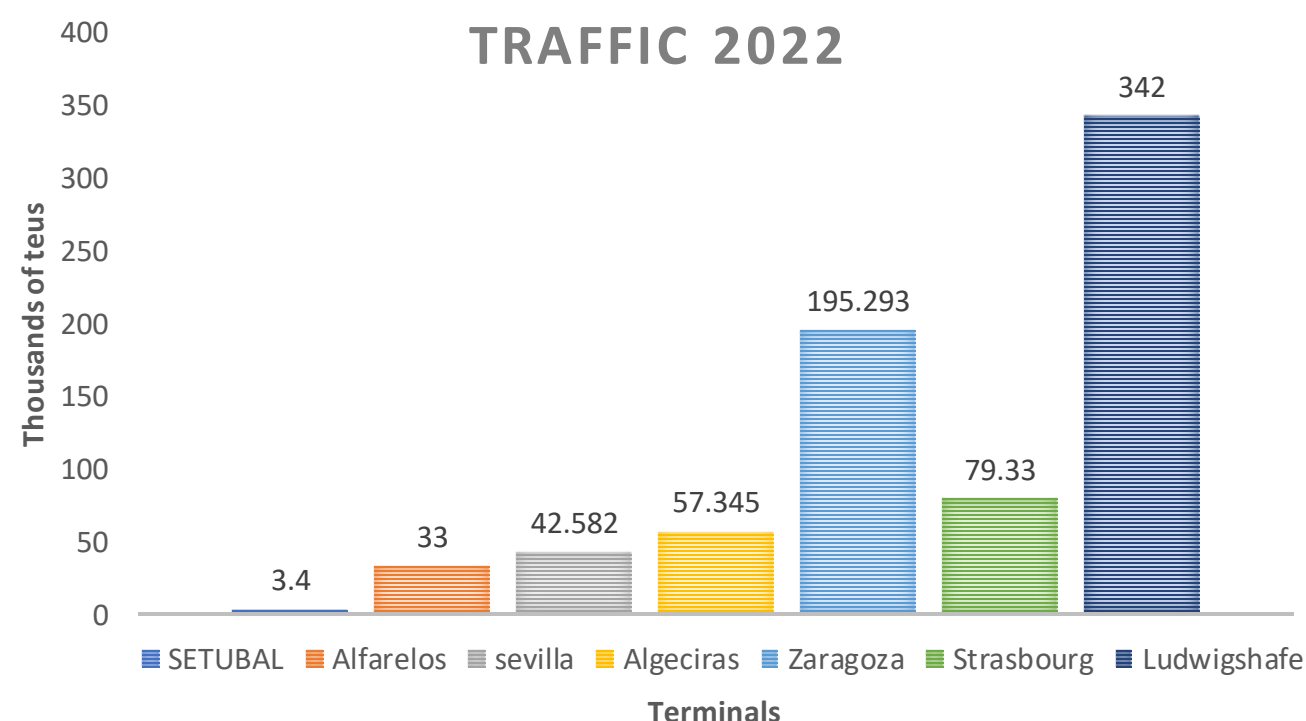
SEVILLA
42.582 Teus
2 cranes
7 reach stakers
5 forklift

ZARAGOZA
195.923 Teus
3737 Trains
8 reach stakers

ALGECIRAS
57.345 Teus
1.163 Trains
2 reach stakers



RAILWAY ATLANTIC TERMINALS TRAFFIC 2022



3. Request and demands

- Strasbourg Port

- Together with RFC Rhine Danube, they are working on facilitations for the cross border traffic with Germany which remains difficult and costly.

- Setubal Port

- IMPROVEMENT OF RAILWAY ACCESS TO THE PORT OF SETÚBAL

- Within the area of jurisdiction of APSS,SA the following interventions stand out:

- Rationalization of the layout by increasing the length of loading/unloading lines at the terminals and shipping/receiving lines;
- Electrification of several shipping/receiving bundle lines and access to loading/unloading at the public service terminals in the central area of the port of Setúbal.

- The project has a high degree of maturity and it can rapidly move on to the execution phase of the works, insofar as:

- The Technical Execution Project and the Cost-Benefit Analysis were concluded.
- The Project was exempted from the AIA-Environmental Impact Assessment procedure by the APA- Agência Portuguesa do Ambiente.
- In accordance with the protocol signed in 2021 between IP-Infraestruturas de Portugal, SA, and APSS, SA, which defines the terms of the collaboration to which they are bound within the scope of the execution of the contract “Linha do Sul - Modernização das eliminação of constraints on the rail connection to the Port of Setúbal and Praias-Sado”, the terms of reference and terms of reference were drawn up with a view to launching the contracting procedures for carrying out the work and inspection services.

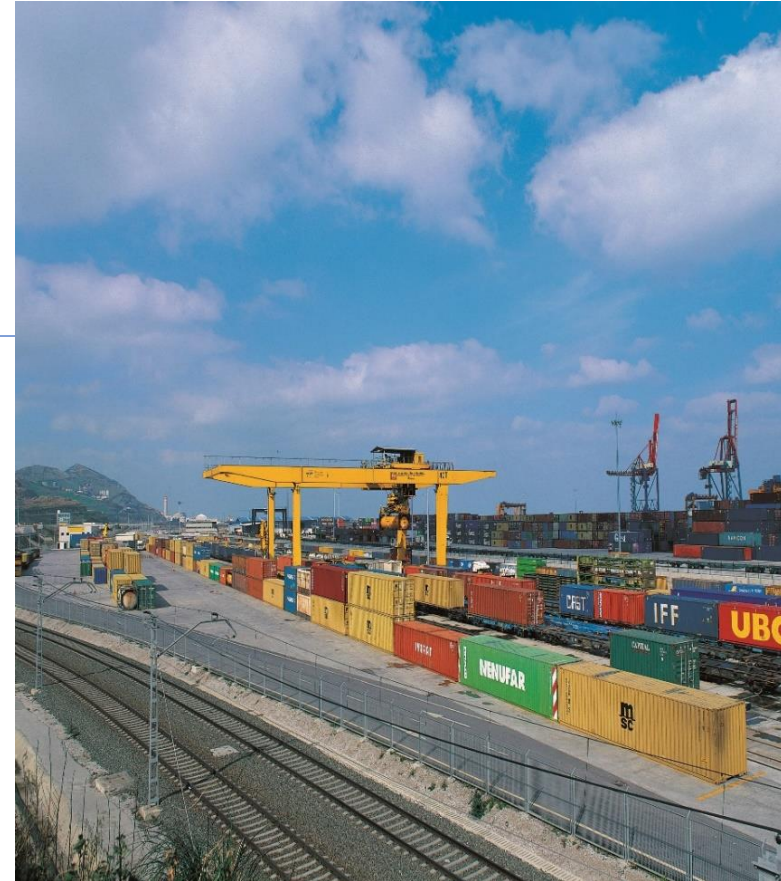
Key factors to increase the competitiveness of the train in the Port of Bilbao

Port Capacity

- Traffic coordination and manoeuvring service: 24x7x365, universal, neutral and competitive
- Manage the rail container terminal (agreement with ADIF)
- Adapt to future physical requirements

Port Connectivity

- Close to saturate the near network, we need to increase the number of available paths (Southern Rail Line)
 - Rail motorways connected to the Iberian peninsula to offer a competitive and efficient service to our Hinterland
 - Atlantic Corridor to promote intermodality with Europe
- 
- All connections must be designed to create **rail motorways** from/to Bilbao Port, fulfilling all requirements (gauge, length, security systems...)



ALGECIRAS – ANTEQUERA RAILWAY BOTTLE NECK



TEN-T REQUIREMENTS FOR ALGECIRAS – ANTEQUERA RAILWAY LINE

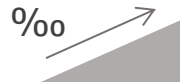
International Gauge



Single Non-Electrified Track

- The line capacity strongly depends on sidings and stations
- Only for diesel tractors

Minor Gradient



Gradients

- 23-24‰
- Limited Traction tonnage

ERTMS



No Central Traffic Control(CTC)

- Only in Ronda-Gaucín Stretch
- No night shift circulations permitted
- Capacity limited due to the need of double agent for circulations in stations.

>100 km/h



Speed limitations

- Lacks in infrastructure and superstructure
- Trenchs and flood zones (3 streches limited to 60 km/h)



Up to 550m length

Length limitation

- Basic maximum length = 500 m
- Special maximum length = 550 m

¿GEB16, GEC16?

Undefined existing gauges



ALGECIRAS - ANTEQUERA – CURRENT SITUATION



Longitud

176,2 km



Electrificación

No



Vía

Única

- Bobadilla - Ronda: Pendiente de renovar
- Ronda - Algeciras: Renovado Travesía Ancho Mixto y Carril UIC-60



Señalización

- Bobadilla - Ronda: Bloqueo Telefónico
- Ronda - Algeciras: BAU con CTC

TASK 1. FORECAST ACTIONS. ALGECIRAS - ALCAZAR



3



Bloqueo Automático

Bobadilla - Ronda

Explotación Trenes 750m

Algeciras - Bobadilla

Bobadilla - Córdoba

Córdoba - Santa Cruz
Mudela

Electrificación

Bobadilla - Ronda

Ronda - Algeciras

2



Last Mile Actions

1



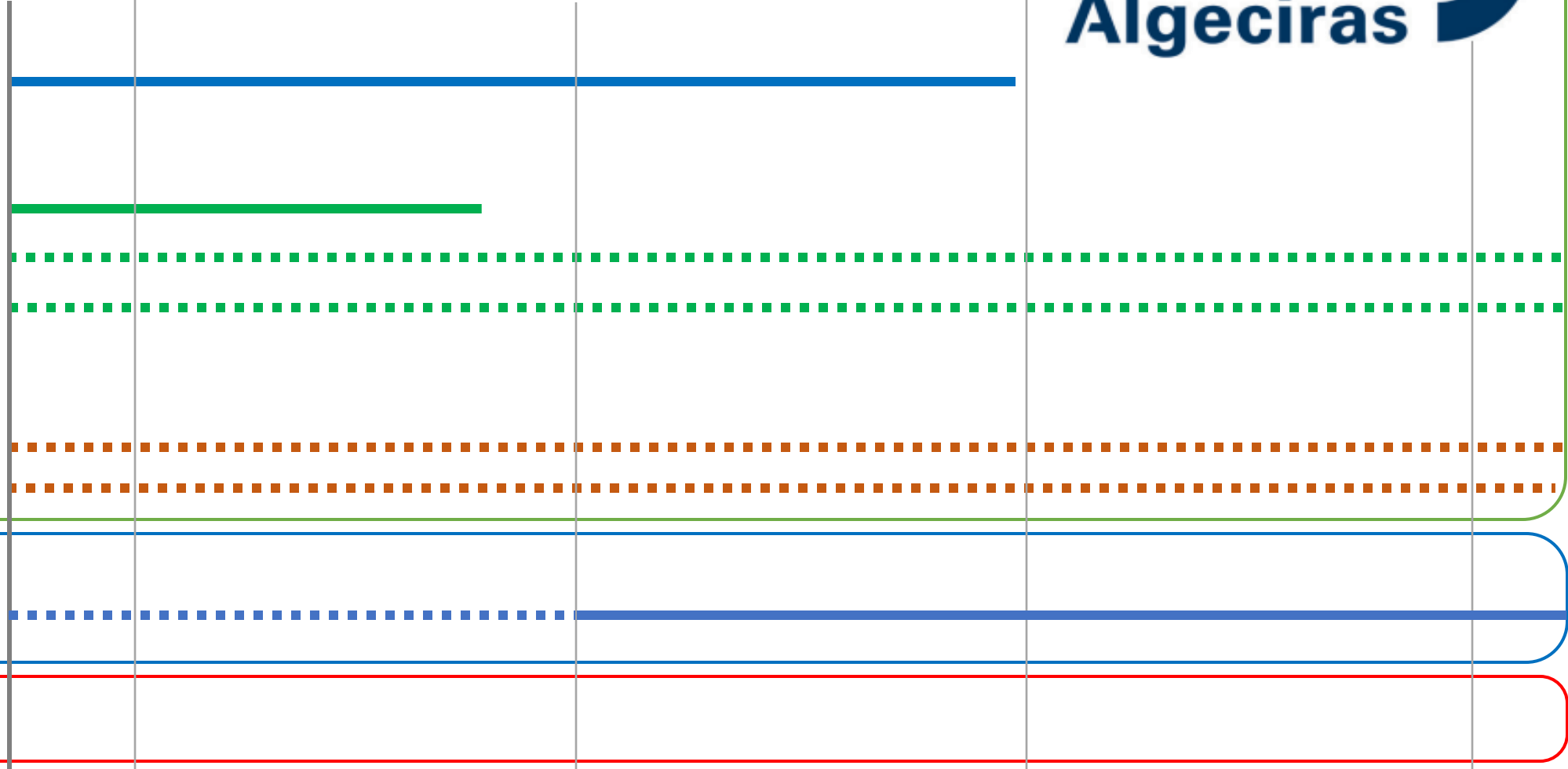
2022 2023 2024 2025 2026

..... Planning

———— Execution

Note: Estimated time projections

PROPOSAL FOR MED WG



TASK 1. FORECAST ACTIONS. ALGECIRAS - ALCAZAR

2



Last Mile Actions. Capacity Improvement

Terminal 1 Upgrade

Terminal 2 Upgrade

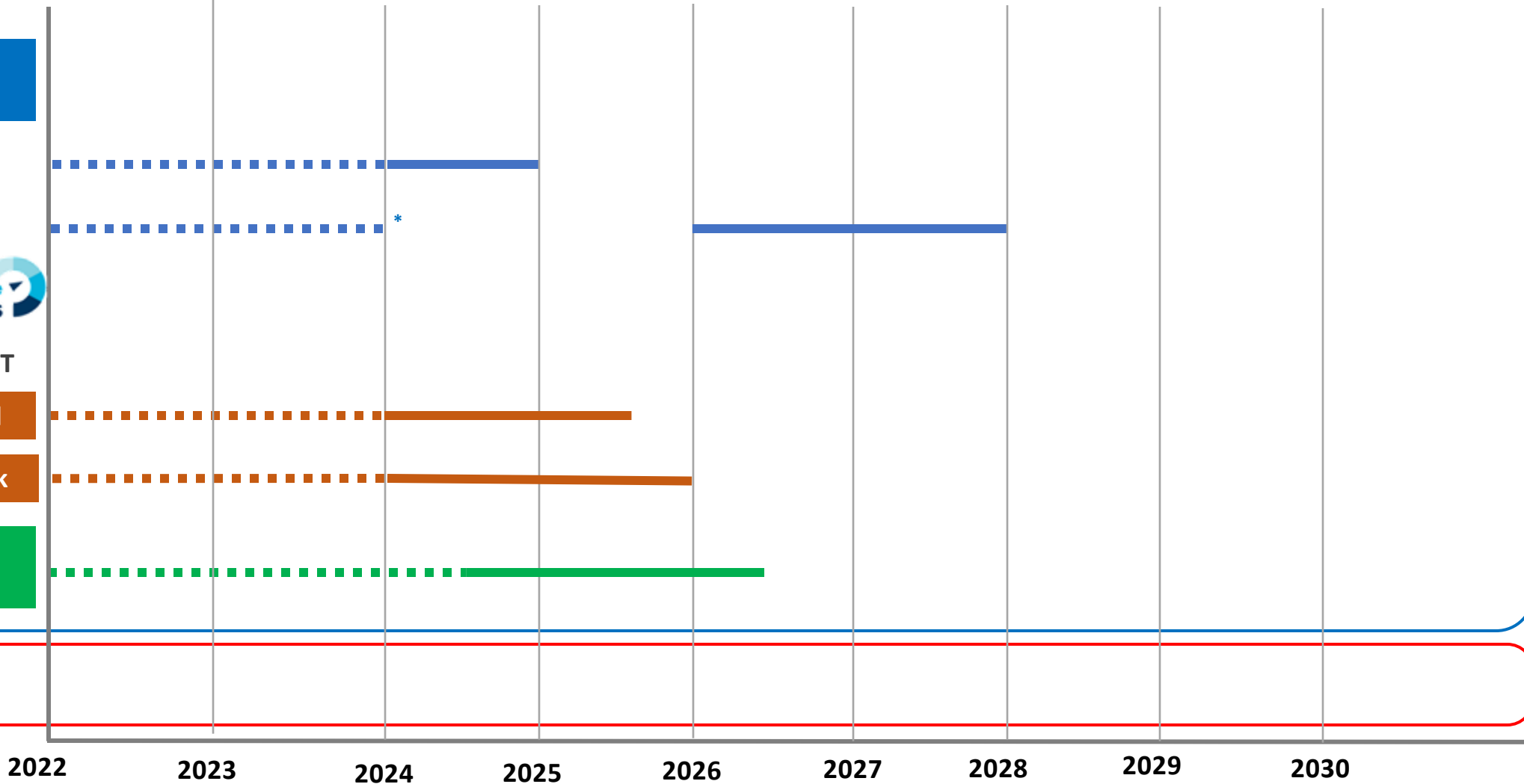


ADIF+APBA AGREEMENT

Level crossing removal

Facility dedicated track

Operational backup
facility



1



2022 2023 2024 2025 2026 2027 2028 2029 2030

PROPOSAL FOR MED WG

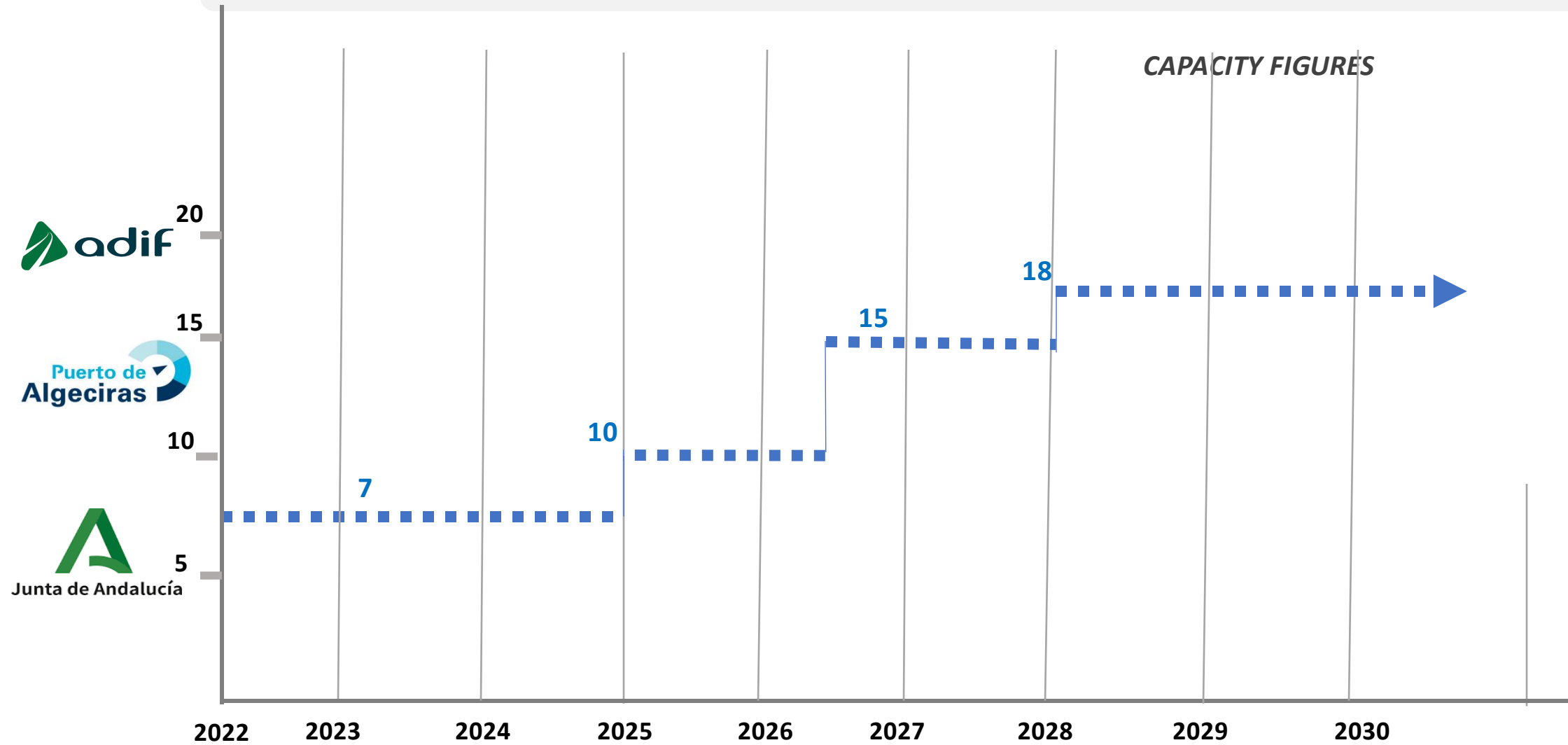
* Due to operational issues (Algeciras Port)

■ ■ ■ ■ ■ Design

———— Execution

Note: Estimated time projections

TASK 2. IDENTIFICATION OF MILESTONES AND CAPACITY INCREASE. ALGECIRAS - ALCAZAR



4. What to expect from 2023?

- New terminals and rail operators from the shipping sector
- Increase of market share from private rail operators
- New terminals in Extremadura
- Deploy of the Rolling Motorways
- New traffic expected from Green Hydrogene
- Investments from National Infrastructure Managers due to TEN-T requirements and the availability of grants.
 - Spain 16,000 millions.