

Session4.1, Room Karam4 Commercial / Intramodal competition



Moderator: Mr.Philippe Lorand Senior Advisor High-Speed Rail, UIC, France







Session4.1 **Commercial / Intramodal competition Speaker Lists**;

3

4

5









Mr.lñigo

Aguas Ardaiz





Mr.Sergio Barcena

Spain

Mr.Andrea Giuricin

Italy

France

Mr.Juan Montero

Spain

Mr.Javier López Ordieres

Spain



11THWORLD CONGRESS OF HIGH-SPEED RAIL

Marrakech, 7-10 MARCH 2023

Digital Railway: Effective Asset Management







A safe and affordable High-Speed Service at your fingertips









High speed / High capacity High quality fleet



3.000.000 passengers



+95% punctuality



Changed the passenger profile

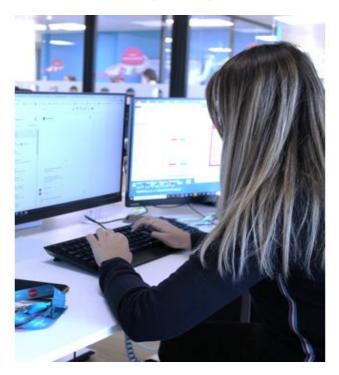


The sustainable choice!





OUIGO Knowledge Organisation

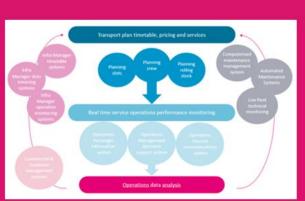








SIMPLE PROCESSES / NATIVE DIGITAL



Safer processes

Optimal efficiency

Significant savings beneficing to the final user

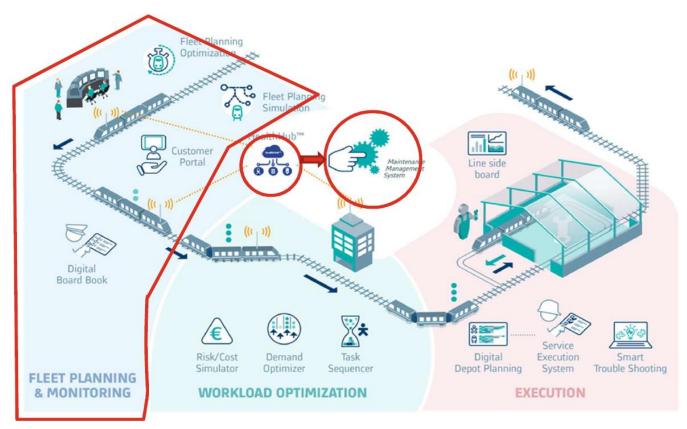






Effective partnership

Synergy between operations and maintenance







Technical data supports quality of service



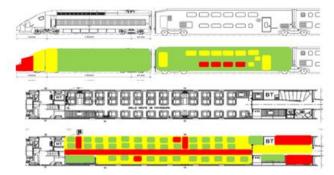




REMOTE CONDITIONS MONITORING

AUTOMATED MAINTENANCE

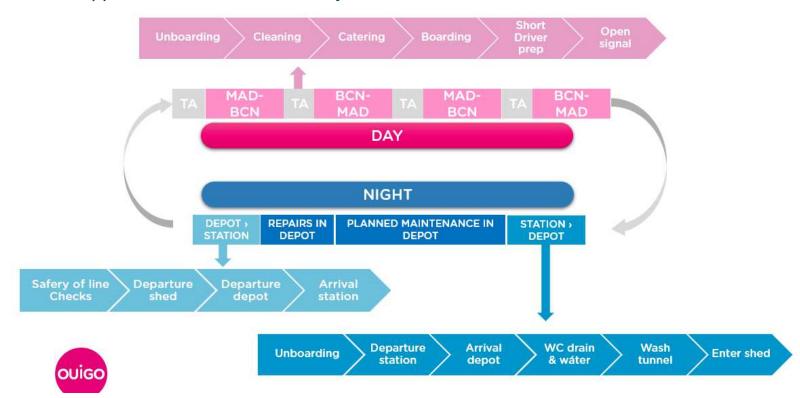








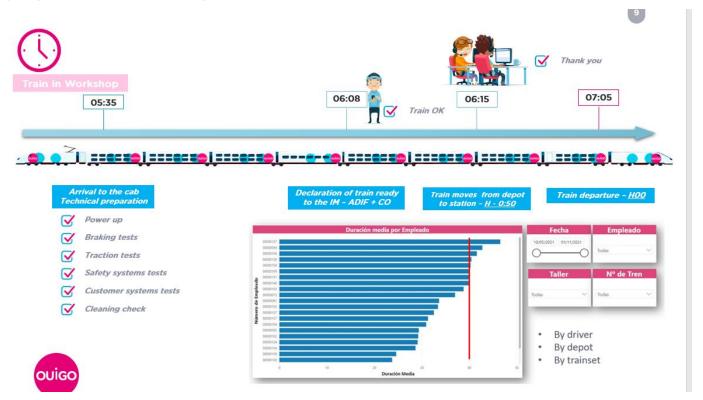
Operational data supports resources efficiency







Train preparation in the depot







Every activity

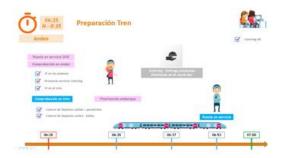
Crew briefing



Boarding process



Boarding briefing process



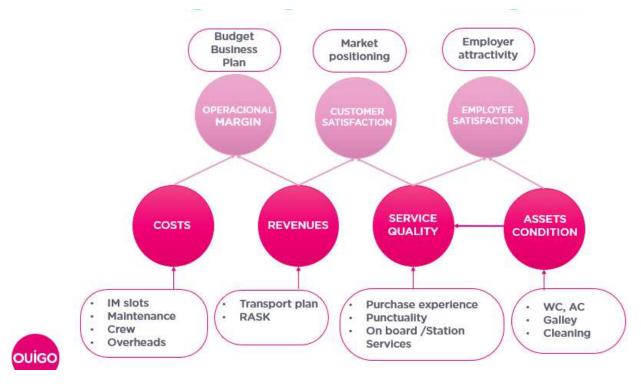
Departure process







Business Steering through Business Intelligence







KEY TAKEAWAYS

- Key business challenge is to maximize fleet safe use in revenue service
- Fleet health is a virtuous circle: availability > reliability > availability
- Operational data-based performance is driven by excellence in processes, systems, with key people and partners
- Address together key innovation challenges in the industry

THANK YOU!!!







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Marrakech, 7-10 MARCH 2023

ITALY, SOUTH KOREA, SPAIN AND FRANCE: EVIDENCE FROM HSR LIBERALIZATION

Adj.Prof. Andrea Giuricin
CESISP – at University Milan Bicocca
Senior Transport Consultant at The World Bank and United Nations
Adj. Prof. MSUC and University Southern California,
Board member – Global Business Travel Association, Italy
Frm.Visiting Professor at China Academy Railway Sciences, Beijing, China
CEO - TRA Consulting



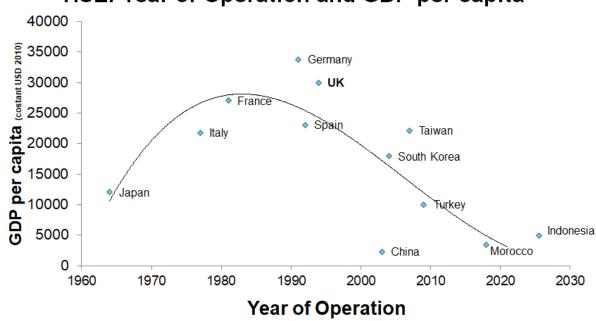
Parallel session 1 – 4.1 Commercial / Intramodal competition





HSR DEVELOPMENT

HSL: Year of Operation and GDP per capita



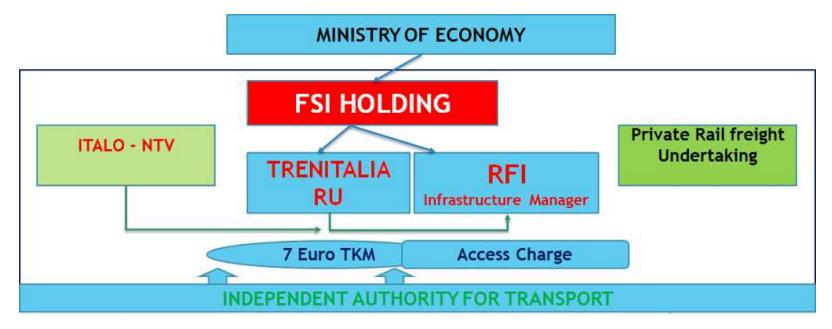
Source: UIC Data and World Bank





ITALIAN BUSINESS MODEL - HSR

There is the incumbent, a State Owned Entreprise, Ferrovie dello Stato (FSI) that control the Infrastructure Manager (RFI) and the Railway Undertaking (Trenitalia).







HSR DEVELOPMENT

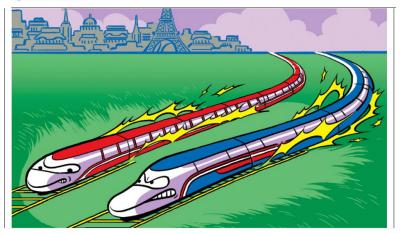
Q Search

Bloomberg Businessweek

The Discount Airline Model Is Coming for Europe's Railways

 Ryanair and EasyJet transformed low-cost continental travel. Get ready for no-frills trains.

By Carol Matlack



Get Ready to Ditch Your Business Class Flight

Europe's rail operators have ambitious plans to exploit the flight-shame phenomenon. They still need to make trains consistently convenient.

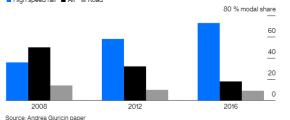
By Chris Bryant 29 ottobre 2019, 08:00 CET

Bloomberg Opinion

Look at Italy, where upstart Italo-Nuovo Trasporto Viaggiatori SpA has joined the incumbent Trenitalia SpA in offering train services. In just four years the two companies doubled their share of traffic on the Rome to Milan route at the expense of the airlines, while ticket prices fell by about 30%.

Italian Revolution

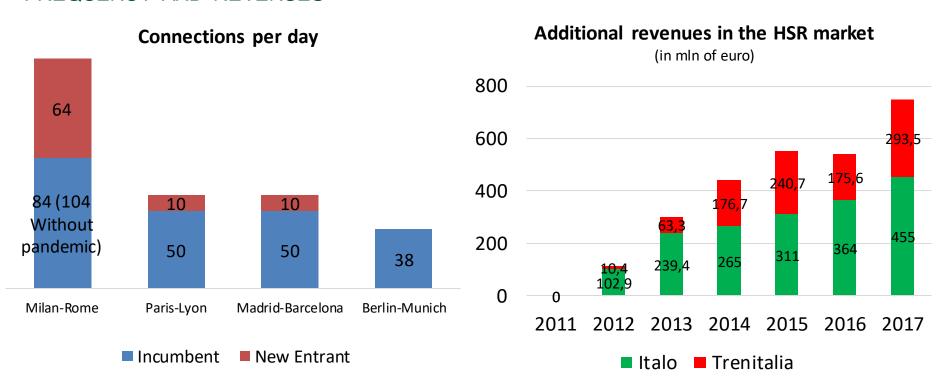
The train has become the dominant way to travel between Rome and Milan







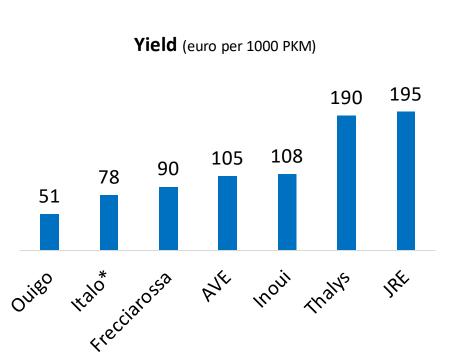
FREQUENCY AND REVENUES

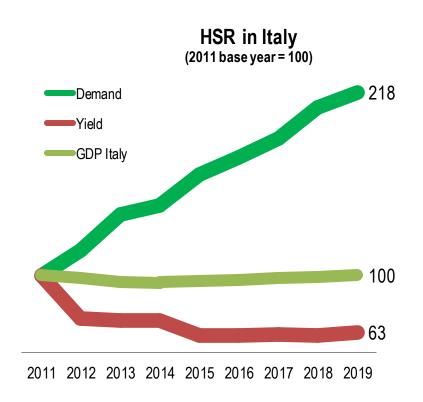






YIELD AND DEMAND

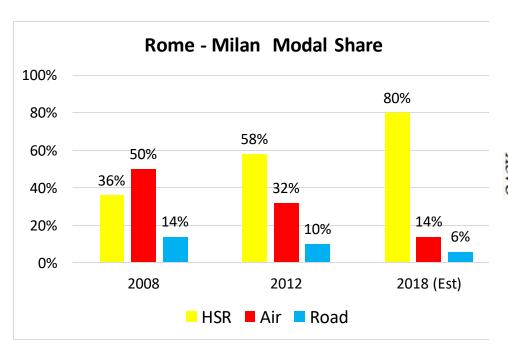


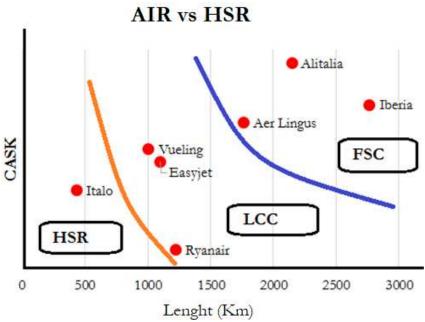






MODAL SHIFT AND COST EFFICIENCY





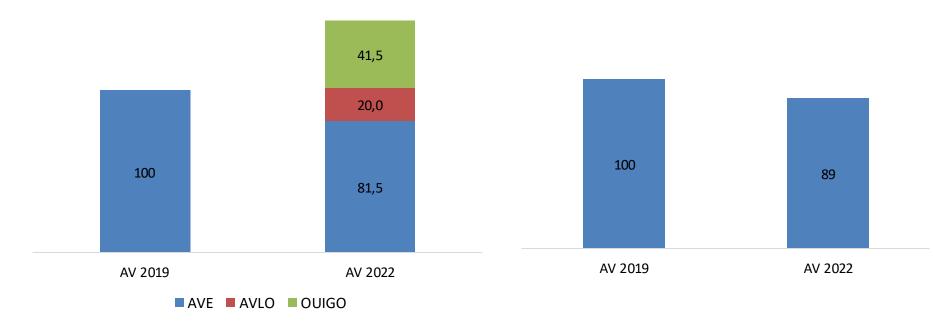




EXPERIENCE OF COMPETITION: SPAIN

HSR Madrid-Barcelona 3rd Quarter

HSR Madrid-Sevilla 3rd Quarter







COMPETITION IN SOUTH KOREA AND FRANCE



- > SRT started the operation in December 2016
- > SRT has two main lines (Seoul to Busan, Seoul to Mokpo), with an open access competition in the mayority part of the infrastructure
- ➤ Maintenance from Korail (the incumbent)
- ➤ 32 Sets of train (22 leased by Korail)
- ➤ New station in Seoul (Suseo)
- > MOU with NTV



Track Access Charge for new entrant in France



Reduction of the track access charge is a key element to increase the competition.

Asymmetric regulation for new entrants is an element to be considered (introduced in France for Trenitalia France – optional at the third year).

Trenitalia France had 1 million passengers in the first year of competition.

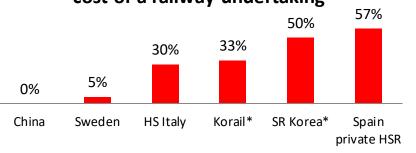
Load factor of 70%.





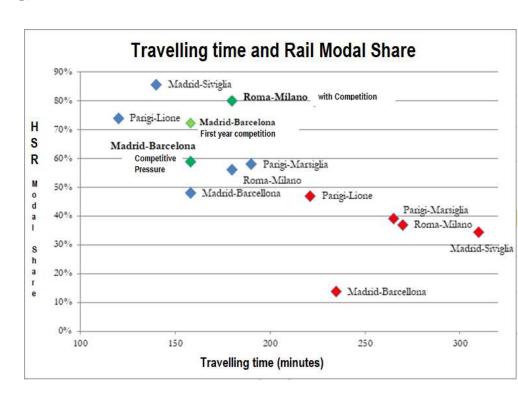
MODAL SHIFT AND TRACK ACCESS CHARGE

Access Charge cost in HSR on total cost of a railway undertaking



Reduction Access Charge (euro per train KM)

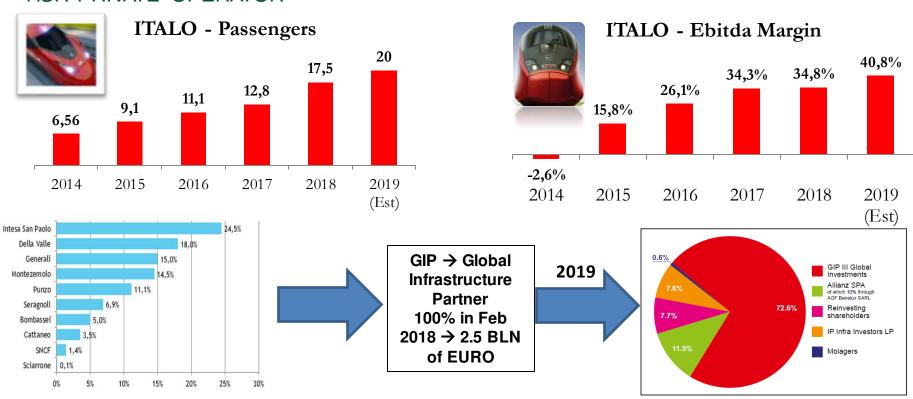








HSR PRIVATE OPERATOR



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Are independent EU regulatory bodies made out of the same material?

A comparison study between the ART (France) and CNMC (Spain)

lñigo AGUAS ARDAIZ PhD in railway transport, ENPC, France Session1-4.1 Commercial / Intramodal competition







HISTORY AND RULES OF REGULATORY BODIES IN EU

Directive 2001/14/EC, Article 30. → Directive 2012/34/EU (recast), Articles 55, 56 & 57

Independence, 3 types:

- Ministry-dependent
- Government dependent
- Parliamentary accountable

Important reasons of independent regulators:

- Credibility
- Political uncertainty
- Number of veto players

Association of all European regulators:



Independent Regulators' Group - Rail





HISTORY OF REGULATORY BODIES IN FRANCE









December 2009

October 2015

October 2019

The regulatory power is constant despite changes (caused by external reasons).

Most important functions:

- Control of infrastructure & essential facilities access charges.
- Confidentially information of IM & RU.
- Resolve all conflicts between different actors: IM, RU, security agency, transport authorities, etc.
- Control all legal texts about railway sector.
- Intervention in any kind of change of IM president.
- * Control of accounts separation of IM and incumbent RU.
- Control the international cabotage traffic.





HISTORY OF REGULATORY BODIES IN SPAIN







October 2013

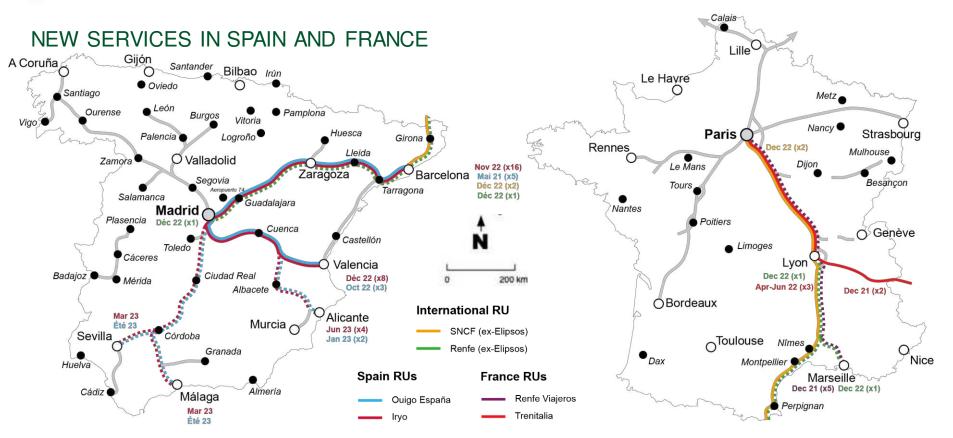
Change from a Ministry dependant organisation to an independent authority.

Most important functions:

- Control of infrastructure & essential facilities access charges.
- Confidentially information of IM & RU.
- * Resolve all conflicts between different actors: IM, RU, security agency, transports authorities, etc.
- Control of accounts separation of IM and incumbent RU.
- Authorize news traffics (economic test for PSO).











HIGH-SPEED ROUTE LENGTH FROM 2012 TO 2020

(in km per country)







DECISSIONS AND ACCORDS BY BOTHS RB

	2022	2021	2020	2019
ART	26	26	29	47
CNMC	11	12	15	20





TO SUM UP

- Railway market needs independent regulators for a good development in a open scenario.
- Spanish and French regulator bodies are independent and try to use its legal power.
- In both cases, actions of the RB have started a dynamic of change even if they have maybe not the same power strenght.

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THANK YOU

Iñigo AGUAS ARDAIZ inigo.aguas-ardaiz@enpc.fr PhD in railway transport, ENPC, France



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COMPETITION IN HIGH-SPEED SERVICES IN SPAIN: Active Infrastructure Management for a competitive market

Juan Montero, UNED & FSR Rodolfo Ramos, Alfonso X & ICCA Session1-4.1 Commercial / Intramodal competition







SPAIN HAS IMPLEMENTED A UNIQUE LIBERALIZATION MODEL

- Competition IN the market: three competitors in most part of the highspeed network.
- ❖ Active infrastructure management to optimise capacity in tracks, stations... (services +60%).
- Competitive allocation of track capacity in 3 Framework contracts, as more candidates (six) than capacity (congestion).
- Competition started in May 2021: first results.





The High-Speed Network in Spain



Source: Geotren





CHALLENGES

The largest network in Europe, and 2nd in the world in terms of kilometers, but low usage intensity:

Kilometers of high-speed lines and usage intensity (2019)

Country	HSL (km)	Passenger-kms (millions)	Million passengers/km per HSL km
Japan	3,041	99,300	32,6
Italy*	921	21,100	22.9
Germany	1,571	33,200	21.1
France	2,735	56,700	20.7
China	38,283	774,700	20.2
Spain	3,487	16,100	4.6

Source: UIC 2021

And still, congestion in main passenger stations in Madrid (Atocha), and Barcelona (Sants). Alternative stations in construction (Chamartin & Sagrera).





REFORM TO INCREASE PASSENGERS

- *Active infrastructure management: ADFI AV leads the reform.
- *ADIF AV optimised the time-table in three main corridors (MAD-BCN, EAST and SOUTH):
 - ❖ ADIF defined services: stations, indicative time for departure, speed, waiting time in destination.
 - ❖ 60% more daily services than before.
- ❖ADIF AV distributed track capacity into three asymmetric packages, including capacity in all three corridors, in the form of Framework Agreements for 10 years:
 - Package A: 70% of capacity (incumbent model).
 - Package B: 30% of capacity (head-on competitor).
 - ❖ Package C: 10% of capacity (low-cost model).





COMPETITIVE ALLOCATION OF CAPACITY

- Six railway undertakings filed capacity requests for Framework Agreements.
- No capacity available for all 6, so competitive process triggered.
- * Allocation criterion: most intensive use of the infrastructure:

	No. of paths requested	% of the total no. of available paths in the package
PACKAGE A		
Renfe	632,305	86%
Globalvia	43,088	6%
PACKAGE B		
Ilsa-Trenitalia (Iryo)	245,513	70%
Eco Rail	228,451	65%
SNCF (Ouigo)	189,978	54%
Motion Rail (Talgo)	150,595	43%
Globalvia	43,088	12%
PACKAGE C		
SNCF (Ouigo)	109,590	100%
Eco Rail	98,100	89%
Motion Rail (Talgo)	94,495	86%





COMPETITION ALREADY STARTED...

- Three competitors already in operation:
 - *Renfe launched low-cost Brand (AVLO).
 - ❖Ouigo SNCF) started operations in MAD-BCN in May 2021 and MAD-VLC in Oct 22.
 - ❖Iryo (ILSA-Trainitalia) started operations (MAD to BCN & VLC) in late 2022.
- Ouigo & Iryo have not fully deployed their operations (COVID).
- They all use rolling stock owned by them or shareholders (no ROSCO).
- No disputes around service facilities or drivers.

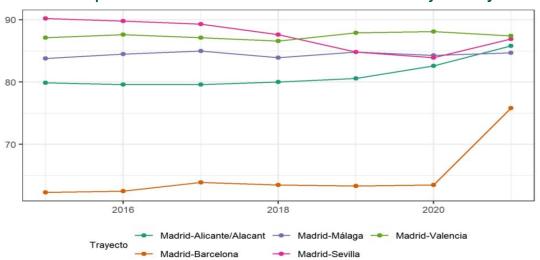




IMPACT 1: RAIL GROWTHS AGAINST AVIATION

* Sharp increase in intermodal share as newcomers enter the MAD-BCN route.

Train/plane intermodal share of main rail journeys.



Source CNMC (2022), Informe Anual del Sector ferroviario 2021, p. 60.

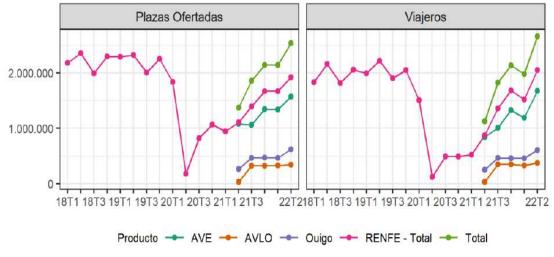




IMPACT 2: INCREASE IN PASSENGERS

* COVID recovery faster in routes with competition

Quarterly interannual evolution 18Q1 to 22Q2 Madrid-Barcelona corridor.



Source CNMC (2022), Informe Trimestral 2022 3T.

* Newcomers rapidly grow in passengers & market share Ouigo 29% in MAD-BCN.





IMPACT 3: PRICES

- Early to make full analysis.
- * Aggressive yield management by all competitors, also incumbent.

* Reference: 43% reduction in MAD-BCN prices in late 2022 (Trainline).

❖While prices increase 14% in routes with no competition.





WIN-WIN SITUATION?

- High-Speed passengers win more services (55% increase), and lower prices (40% reduction).
- ❖ADIF AV wins higher revenue in track access charges (€2 Billion over 10 years).
- Newcomers win access to market, but profitability a challenge in low density routes.
- Incumbent wins or loses?:
 - Increases overall number of passengers? Not clear.
 - Increase overall revenue: probably not.
 - ❖ Difficulty to cross-subsidize other public services.

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THANK YOU

UIC/Florence School of Regulation (2022). *UIC study on the regulatory framework*, October 2022.

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LIBERALIZATION: ADIF IN THE PROCESS OF LIBERALIZATION OF PASSENGER SERVICES

Javier López Ordieres High Speed Railway Traffic Manager. ADIF. Spain Session1-4.1 Commercial / Intramodal competition







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ntroduction to Spanish High Speed Railway Traffic

Liberalization model

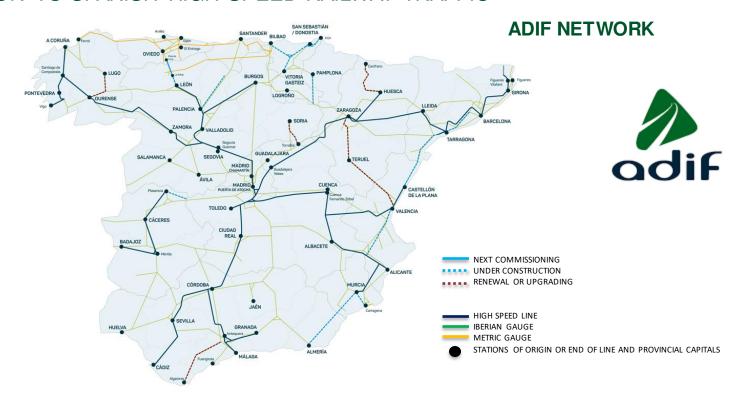
Capacity and Traffic criteria

Traffic evolution





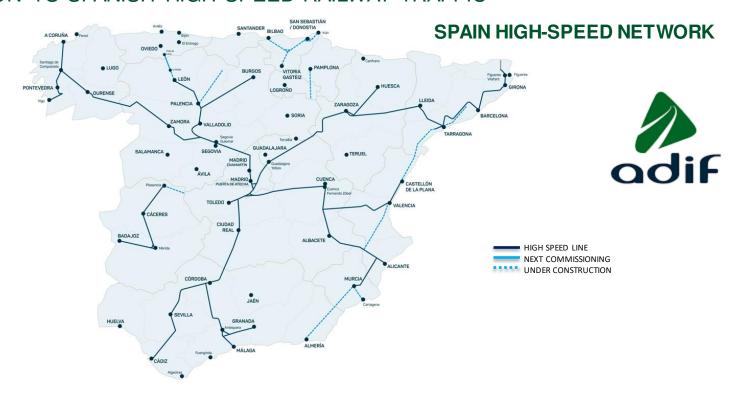
INTRODUCTION TO SPANISH HIGH SPEED RAILWAY TRAFFIC







INTRODUCTION TO SPANISH HIGH SPEED RAILWAY TRAFFIC









Application for framework capacity



Allocation and signing framework agreements (5 - 15 years)

every

Service schedule request

Coordination of service timetable





LIBERALIZATION MODEL - PACKAGES

TRANSPARENCY CAPACITY FRAMEWORK OFFERED DIRECTION AND DAY

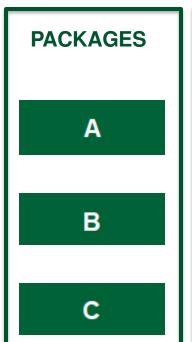
Packages	Madrid-Barcelona	Madrid-East	Madrid-South	TOTAL
Α	32	32	40	104
В	16	16	16	48
С	5	5	5	15
TOTAL OFFER	53	53	61	167
2019	34	32	34	100
Increase % Offered/2019	50%	65%	75%	65%





LIBERALIZATION MODEL - PACKAGES

ALLOCATEDS FRAMEWORK CAPACITY













CRITERIA

CAPACITY



- Fulfil all requests for train paths
- When not possible: alternative proposal
- When not possible: prioritisation criteria
- Capacity allocation: line and congested stations



TRAFFIC



- Change of operating mode at stations
- Change of Madrid Atocha and Chamartín head stations
- Expansion of stations and workshops







TRAFFIC EVOLUTION: INCREASE ON MADRID - BARCELONA HSL





Madrid – Barcelona – Figueras HSL				
Years	Trains			
2019	26.968			
2022	39.118			
Increase (%)	+ 45 %			







TRAFFIC EVOLUTION: INCREASE ON MADRID - EAST CORRIDOR



Madrid – Valencia Madrid – Alicante			
Date	Trains		
December 2019	1.414		
December 2022	2.276		
Increase (%)	+ 60,96 %		









TRAFFIC EVOLUTION: ESTIMATION ON MADRID - SOUTH CORRIDOR



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THANK YOU



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