

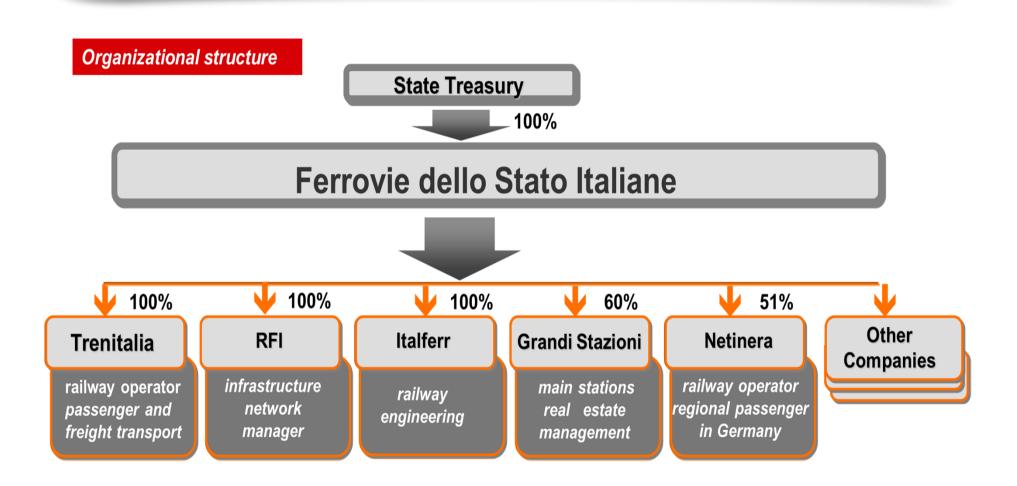
Official Global Rail Carrier



The Italian High Speed Rail system

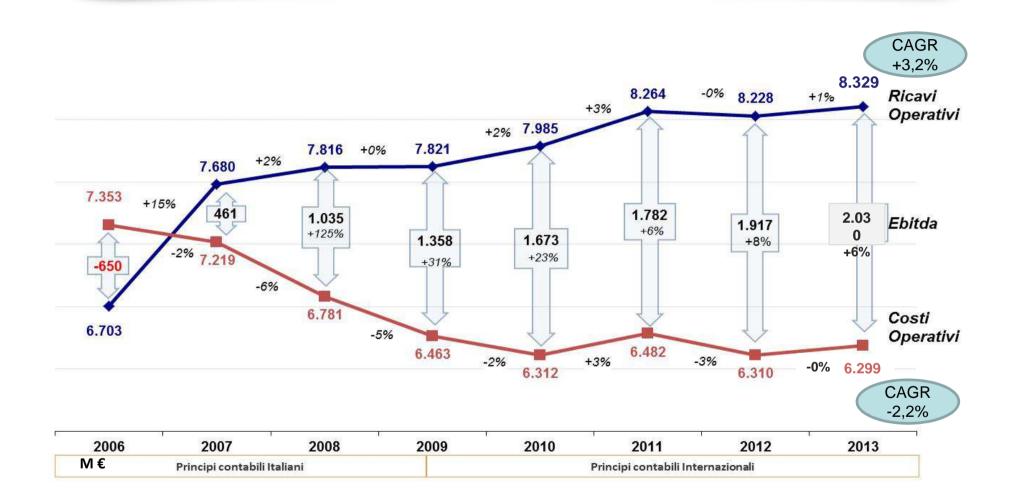
20 November 2014

Ferrovie dello Stato Italiane Group





EBITDA dynamics





The Italian regulatory framework



The EU Rail single market

Still to be achieved

		Freight	International Passenger	Domestic Passenger	Open Access on High Speed	Regional/PSO Passenger
* * * * * * * * *	Legislative Framework	Open	Open	Closed ->4RP?	Closed ->4RP?	No compulsory tendering ->4RP?
	Effective Competition	Yes	Limited (operation mainly under agreement or cooperation)	Few Countries: UK, SE, DE, IT, AT, CZ	IT	Both tenders and direct award
	Legislative Framework	Open Since 2000	Open Since 2000	Open Since 2000	Open Since2000	Both tenders and direct award
	Effective Competition	Yes Since 2001	Yes Since 2009: DB/OeBB and SNCF	Yes Limited to HS and premium markets	Yes Since 2012: NTV (SNCF 20% industrial partner)	Limited Low PSO compensations and low regulated fares

Lack of uniform regulation (interoperability, access to infrastructure)



Domestic passenger and PSO to be liberalized

Competition in the Italian market

Competition is limited to the most profitable markets

- Freight: competitors only operate on international corridors and in the northern areas of the country
- International passengers: two cases DB/OeBB and SNCF, the only cases with Thello in France of international competition.
- Domestic passengers: competition particularly on HS service (since the completion of the infrastructure between Rome and Milan). It's the only case in the world of open access HS competition.
- Cherry picking is not regulated/prevented
- Companies operating on profitable market do not have to pay any premium to public authorities to finance PSO



The effects of competition in Italy

The FS Italiane Group has been pressed to ask for a Level Playing Field:

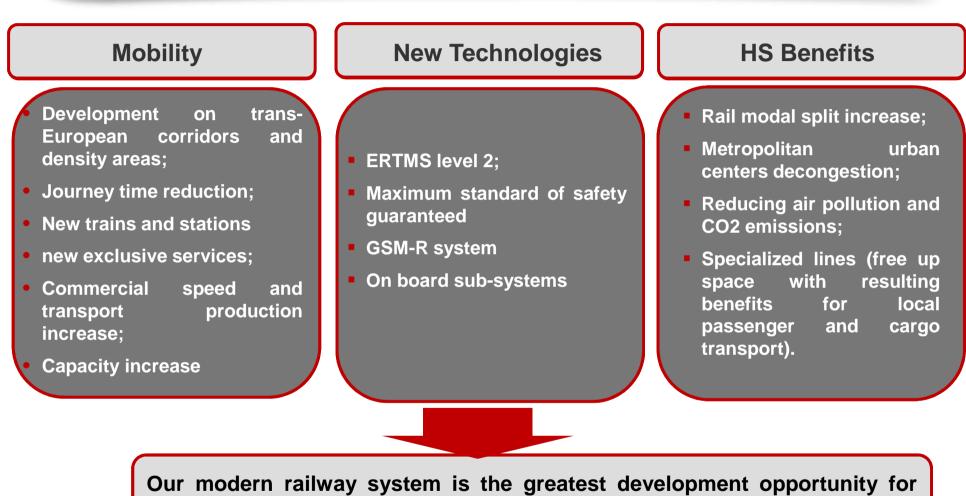
- Fair relation with Public Sector (no more under-compensations, no more delayed payments, etc)
- Same conditions vs competitors (i.e. working conditions, public procurement, etc)
- □ and to **improve its performance**:
 - New services (4 level of services, new lounges, new ticketing system, ..., new customer care)
 - Process innovation and efficiency measures (IT in Control Command CS, revenue per train*KM, revenue per pax, PSO compensation and contracts, correct asset allocation, etc)
 - Increased investments (fleet refurbishment, new fleet ETR-1000, ...)
 - Thanks to the "holding system", competition pressure transferred also to Infrastructure Manager



Italy's metro link



High Speed Rail: our success



Our modern railway system is the greatest development opportunity for Italy from 1970, increasing competition level in the international/EU market.





When a Country goes beyond the UE legislation

The effects of rail passenger liberalisation in Italy



More transport offer and demand (despite the economic crisis)



- Technological innovation
- New services

Lower prices

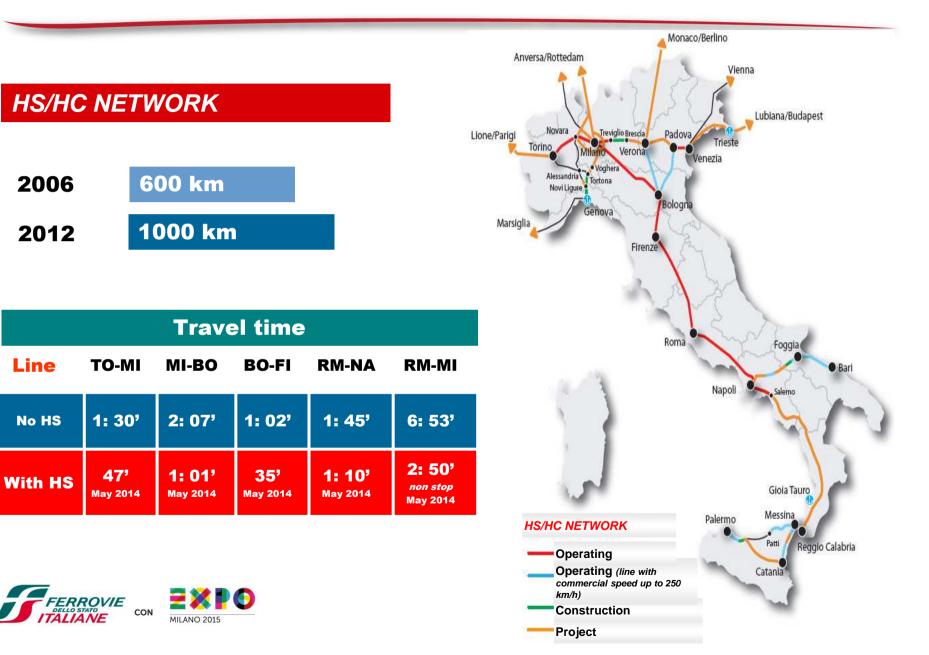


The new Frecciarossa 1000



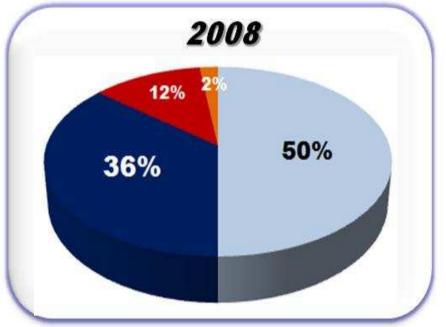
50 trains completely interoperable in 8 European Countries commercial speed: 360 km/h and maximum speed: 400 km/h acceleration at start \geq 0,7 m/ s² Low energy consumption and low environment impact Rome-Milan journey time from 2h55 to 2h20

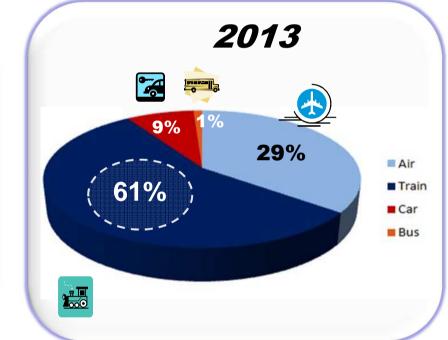
The High Speed / High Capacity system



HS Services The modal split revolution

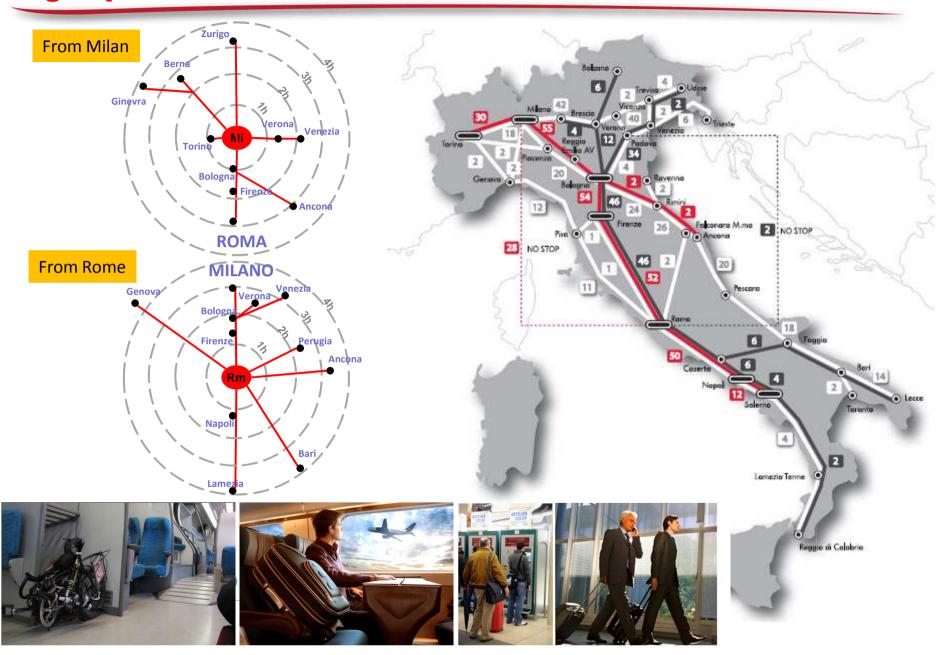
Modal split Milan – Rome





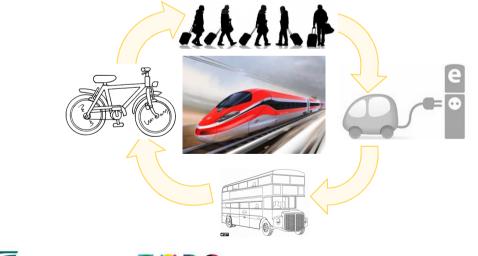


Italy's metro link High speed line and connections



Effects of a high speed network

- Since 2009, the high speed rail network has established a new standard of people mobility with a lot of implications on the society
- Cities become like quarters of a single, large metropolitan area
- □ The network polarizes about **65%** of business and mobility demand in the country
- Most of travellers (61%) choose train to go to/from Rome and Milan because they are more comfortable, more accessible and faster



Train is more inter-connectable more sustainable more direct than every other mode of transport





Technologies and innovation



The new Frecciarossa 1000 train

•ETR 1000 made by AnsaldoBreda and Bombardier

length: 202 m 8 coaches seats: 469 + two spaces for PRM can carry up to 600 passengers







• Technological innovation commercial speed: 360 km/h running on high speed network

maximum speed: 400 km/h acceleration at start \geq 0,7 m/ s²

•Interoperability

completely interoperable (multi-system trainset to operate in Austria, Belgium, France, Germany, the Netherlands, Spain and Switzerland)

The new Frecciarossa 1000

Frecciarossa 1000 will begin operation in 2015

Roma – Milano journey time: 2h50 - 2h20

ETR 1000 25/10/11 - Livello EXECUTIVE - COM



Sustainability low energy consumption low environmental noise impact < 91 (dB[A])







Comfort and quality High standard level in interior design and equipment Wi-fi connection, web new technologies and multimedial on board

