



Mark-ups and market segmentation in the Italian Track Access Charging system

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Charging levels

What the NATIONAL average unit charging levels depend on?

of infrastructure management

COST km of network

> € km

TRAFFIC
DENSITY
on the network
(average load)

TRAFFIC km of network

train*km km SPECIFIC STATE FUNDING of infrastructure management

SUBSIDIES km of network

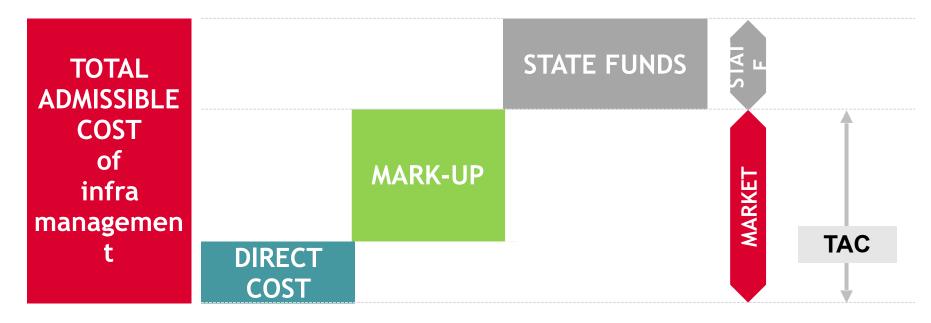
> € km

Unit Charge €/km



Regulatory frame

Direct costs, mark-up and financial equilibrium of the IM

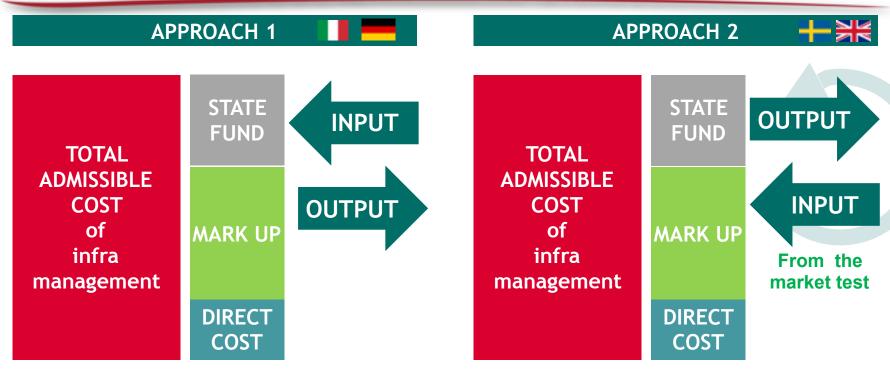


To be covered by TAC

To be covered by TAC (if the MARKET CAN BEAR)



Possible approaches in the regulation



Target of the sustainability analysis

- Determine the OPTIMAL MIX OF TARIFFS such as to minimize the modal shift towards the road
- given the TOTAL AMOUNT of cost TO BE COVERED BY BY TAC and direct costs

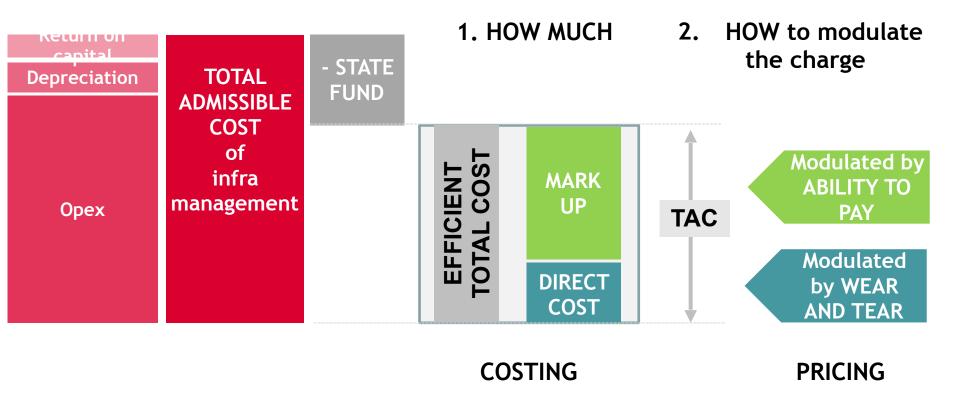
Target of the sustainability analysis

- Determine the GLOBAL AMOUNT OF MARK-UPS and OPTIMAL MIX OF TARIFFS to allow a target modal shift
- ... given the DIRECT COST

EVALUATION OF ABSOLUTE ABILITY TO

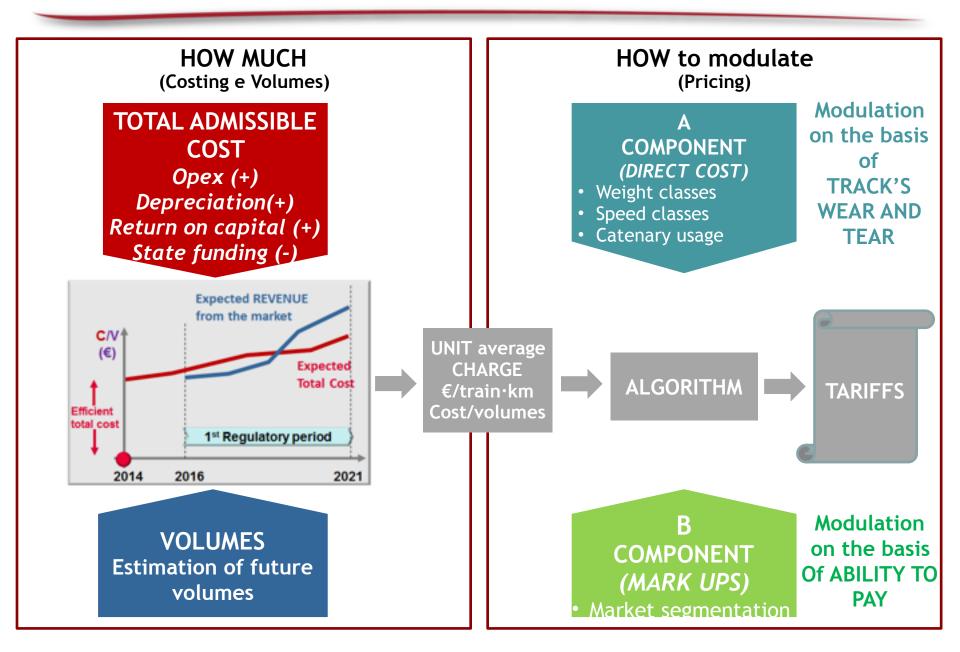
EVALUATION OF DELATIVE ADJUSTY TO

Costing and pricing in Italian Regulation

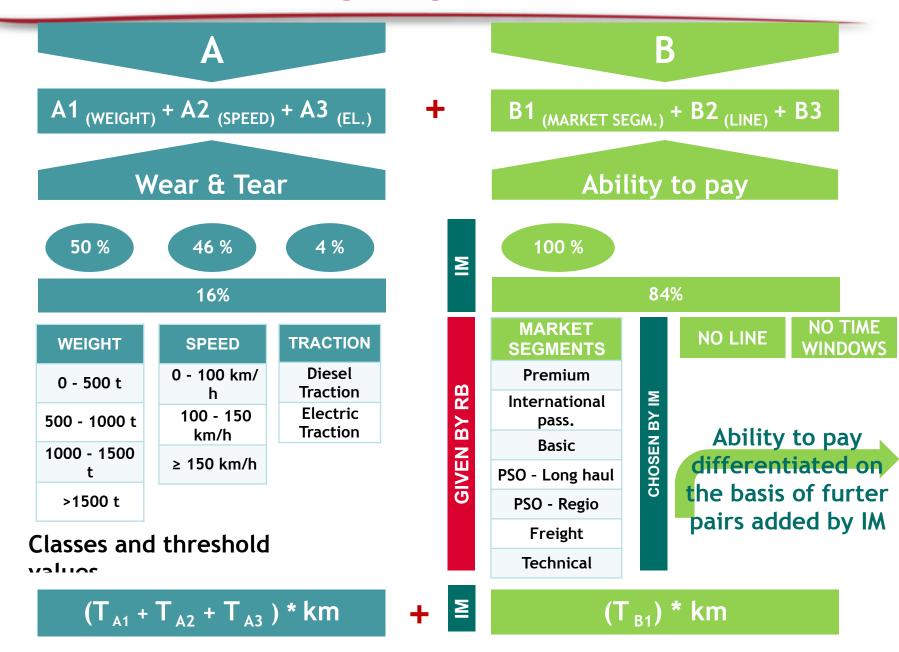




Charging system design



Track Access Charge Algorithm



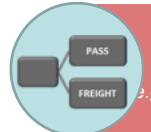
SEGMENTATION MARKET

ABILITY TO

Market Segmentation and ability to pay

REGULATORY BODY

INFRASTRUCTURE MANAGER

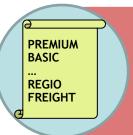


PAIRS

to be considered by IM

e.g. Passenger/Freight, Technical/ commercial...

FURTHER PAIRS added by IM

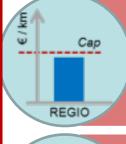


Minimum list of **MARKET SEGMENT**

8 Market segment

Complete list of MARKET SEGMENT

19 Market segment



CAPS to the average Unit charge (€/km) for some market segment

e.g. Average Unit charge for regio

CALIBRATION of coefficient set in order to respect caps and constraints fixed by RB

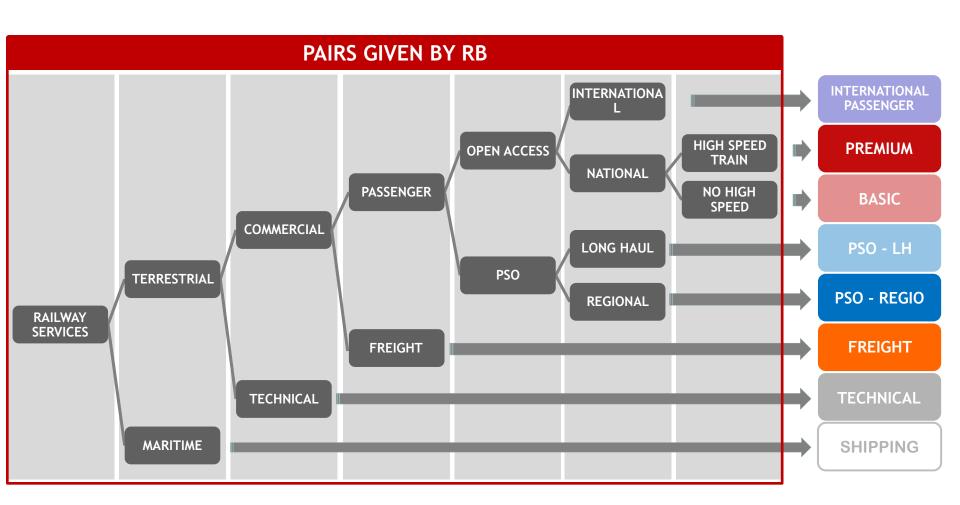


CONSTRAINTS in the calibration of coefficient in the Algorithm

Qualitative PAIRWISE COMPARISON of market pair (lack of data about elasiticty)

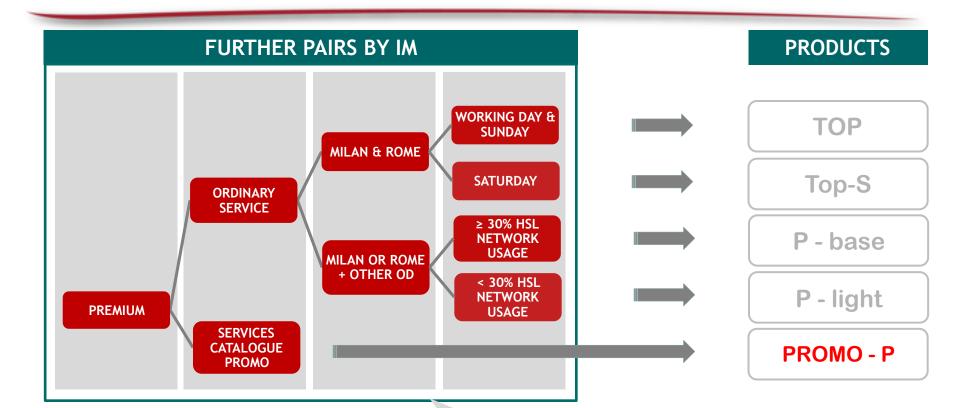
Basic pairs to be considered by IM to define a list of market segments

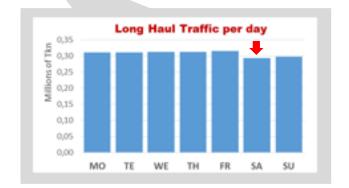
(Art. 32.1 Recast)





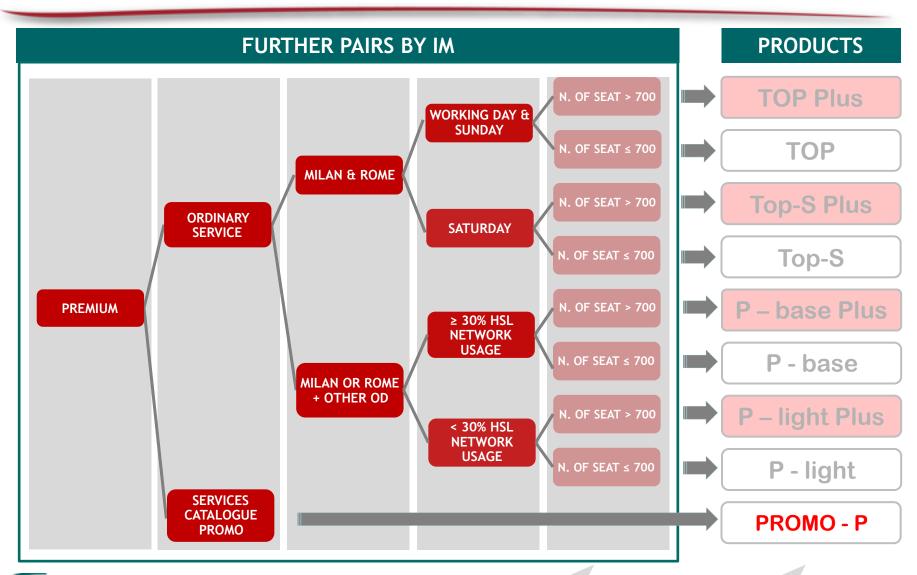
PREMIUM - Pairs chosen by IM to define a list of market segments







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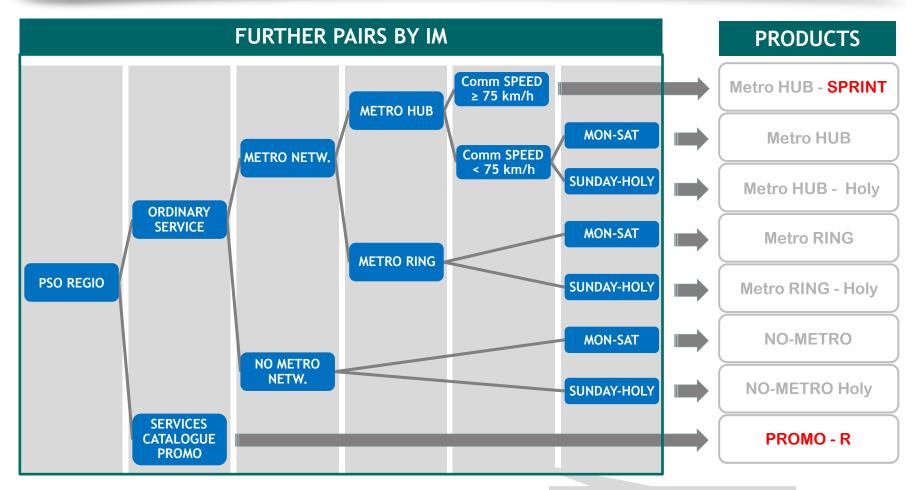




New **pairs** due to last prescription of RB (2018) regarding offered seats

Increasing of market segments due to RB's prescription

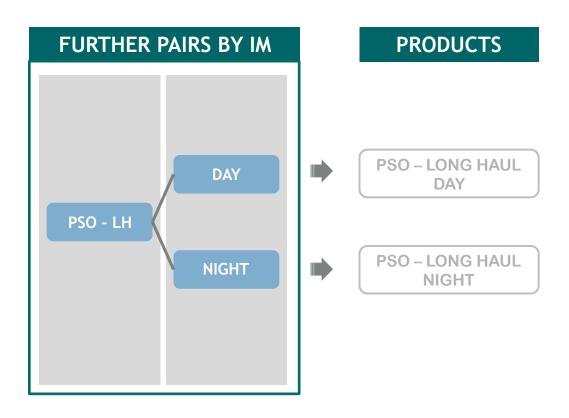
PSO - REGIO - Pairs chosen by IM to define a list of market segments





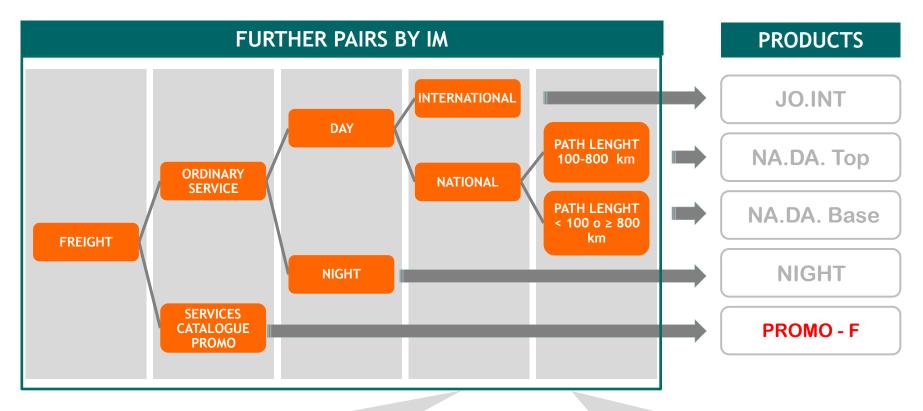


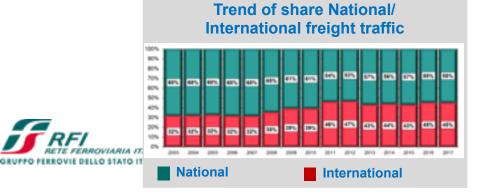
PSO - LONG HAUL - Pairs chosen by IM to define a list of market segments

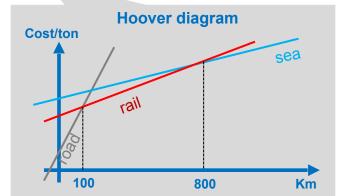




FREIGHT - Pairs chosen by IM to define a list of market segments







Promo charge

REGULATORY PRINCIPLES

IM APPLICATION

New services and new connections or noticeably underutilized lines

Freight trains using the HS line at night (new service development)

Despite the discount, the IM's economic and financial balance must be guaranteed

Promo charge is composed only of direct costs (no mark-ups)

Principles of fairness and nondiscrimination IM prepares a catalog of tracks that shows to the market 9 months before the start of the TT

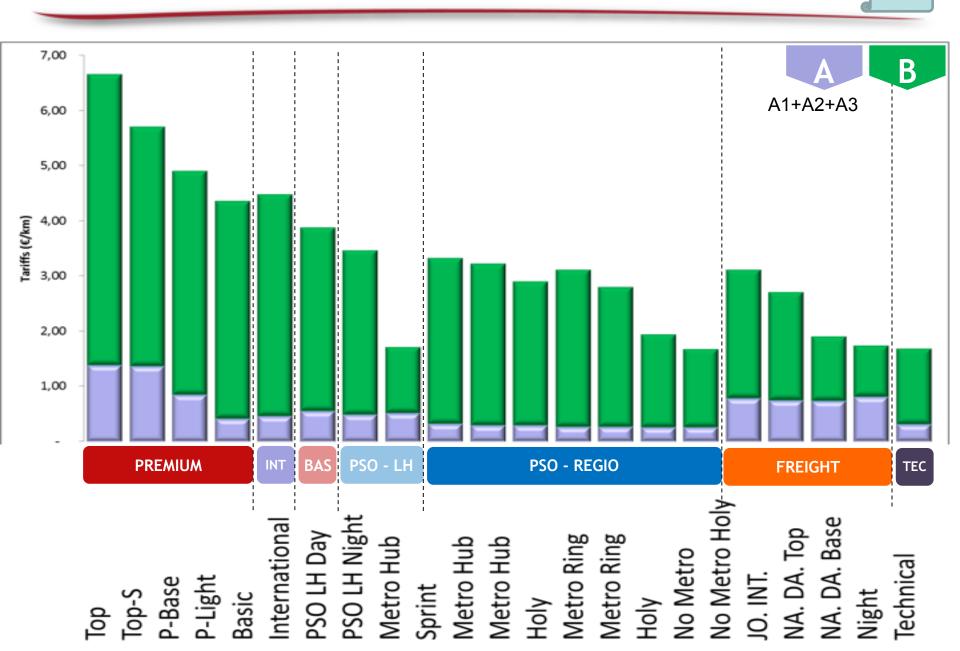
Temporary measures

For each type of service identified, the tariff has a duration of 2-3 years depending on the service / track identified



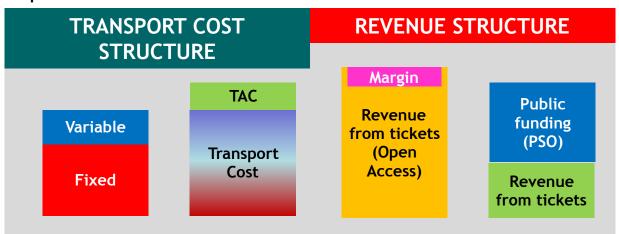
Tariffs 2018



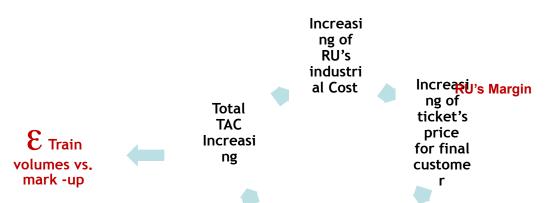


Sustainability analysis: approaches

Input data to be known



TAC/total cost



Within which thresholds of mark-up does the system converge?



Decreas

£2 ing of

Variable/fix

F3 volumes

demand vs .Frequency





Thank you for your attention!

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