

## OCCEPE CONFERENCE 2011

PTP's work to improve the Spanish public transport
The case of Train 2014 plan

Museu Picasso, 12 de març de 2011

**Ricard Riol Jurado** 



nosaltres promovem el transport públic nosotros promovemos el transporte público we promote public transport nous faisons la promotion des transports publics Wir fördern den öffentlichen Verkehrsmitteln



#### 1 Why does the PTP exist?





#### 1 Why does the PTP exist?

#### Foundational and semi-reached objectives (1993)



**Integrated fares** 2001-current days...



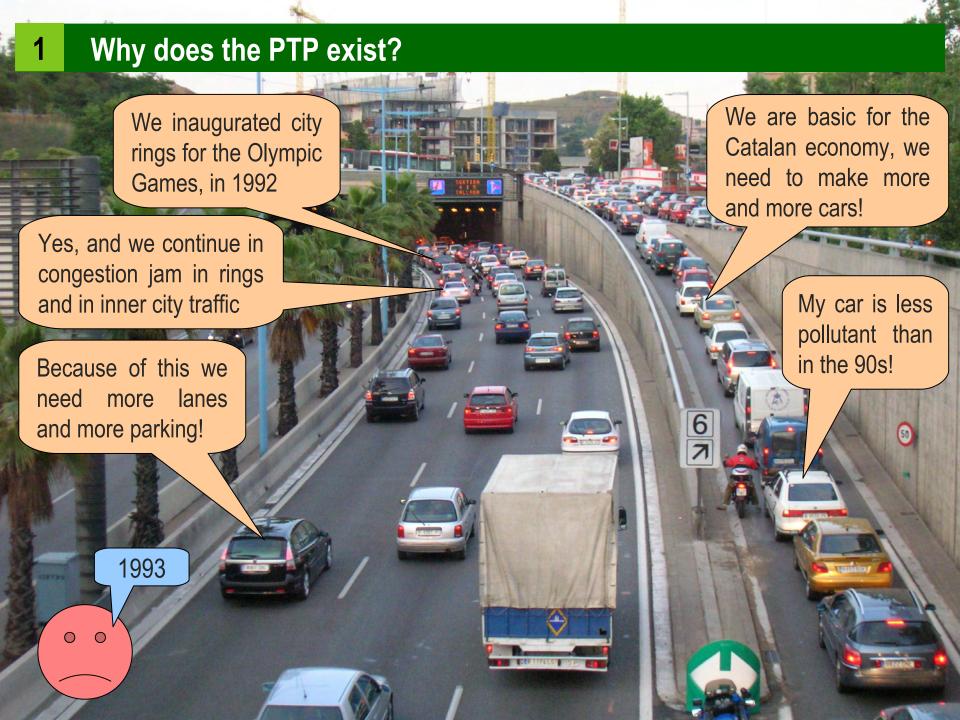
Public administration for full mobility (public and private transit) 1996-current days...



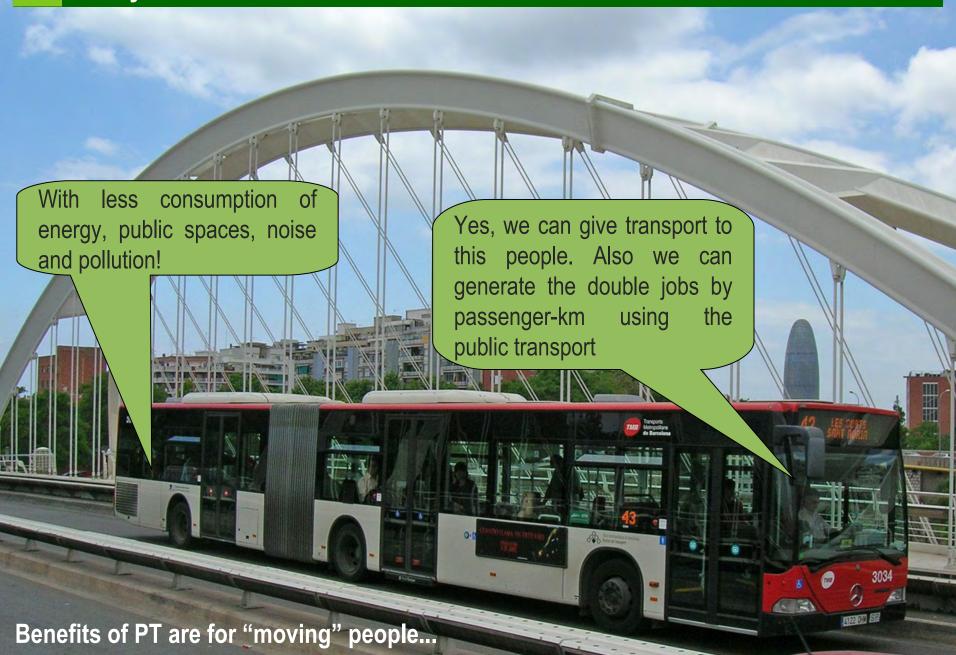
**Importation of Free car day for Catalonia**1999

#### Long term objectives

Promote sustainable mobility in a complex society (politicians included)













- Magazine
- Expositions
- School program
- Entertainment games
- Mobility races...



- Media
- Participation in public consultations
- Polítical debates
- Technical proposals...



**Our Holy Scriptures** 

Sustainable mobility

Private vehicle restriction



**Ecomobility** promotion

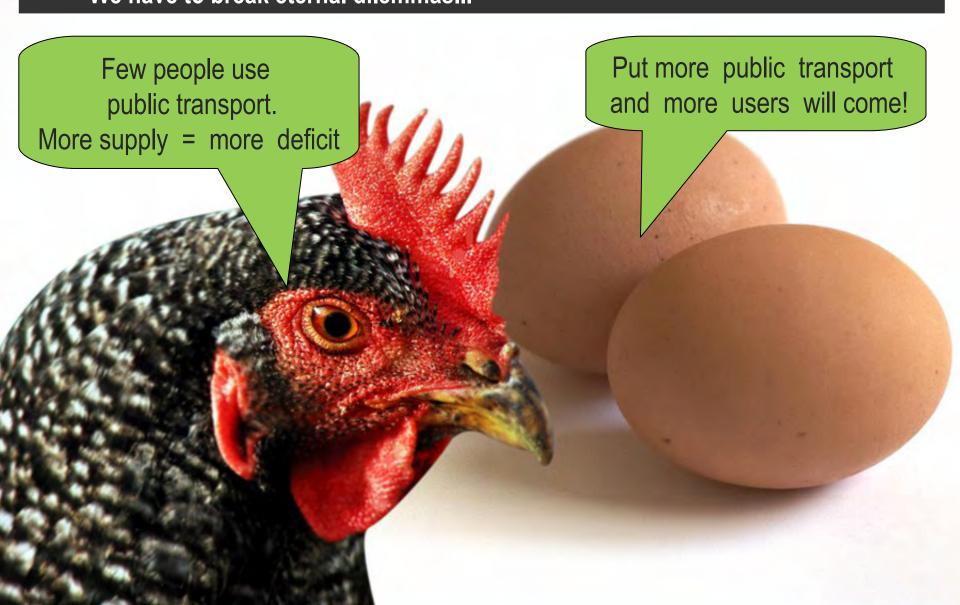
Compact and mixed urbanism





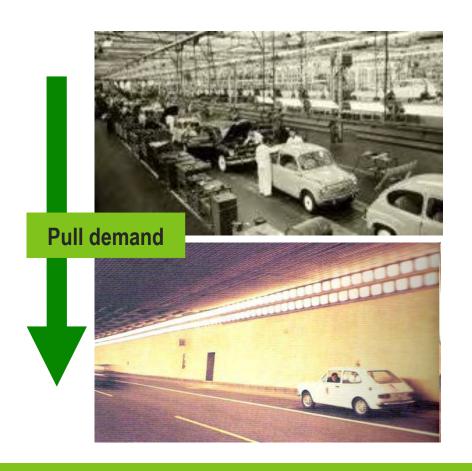


We have to break eternal dilemmas...





#### Nowadays relation between demand supply proceed from the 60s

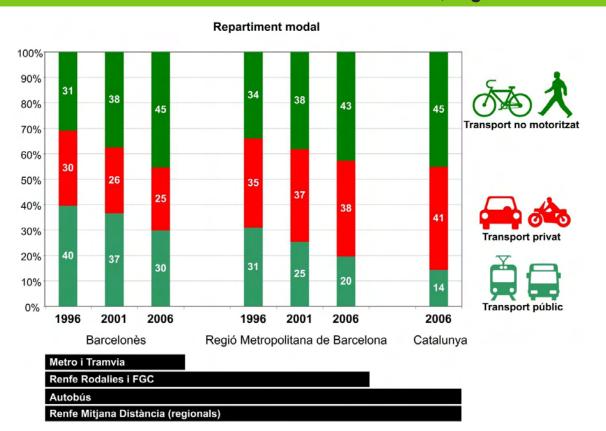




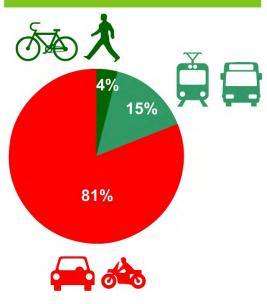




#### Person between 1981-2006 for BCN urban area, region and CAT.



#### Person\*km in 2003 for CAT

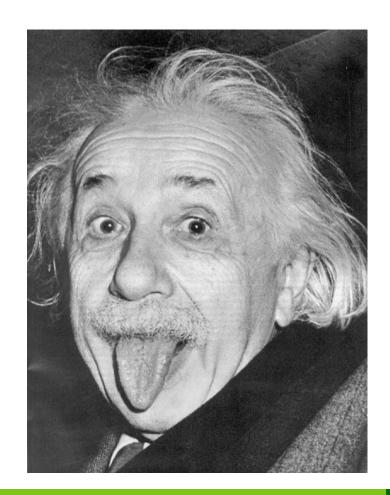




Insanity: doing the same thing over and over again and expecting different results.

**Albert Einstein** 

CATALAN PEOPLE: Improve your railways instead more and more highways!





#### We need a lobby for public transport

#### **Automobile lobby**

3



www.racc.es

It also provides travel and home insurances and care services with the Government.

1.000.000 people associated

#### Lobby for Sustainable mobility in Catalonia

**Pedestrians** 



www.catalunyacamina.org

Ciclysts



www.bacc.info

**Road Safety** 



www.pat-apat.org

**Public Transport** 



www.transportpublic.org



#### We need a lobby for public transport

#### By historical reasons...



1970: First spanish motorway: Barcelona – Mataró Pre-OPEC crisis times...



1971: Tramways of Barcelona shut down



#### We need a lobby for public transport

#### By current reasons...

#### Seat Altea



#### Seat Altea





http://www.youtube.com/user/laptp#p/u/16/S6Nzd9TggEE





MOBILITY AND CLIMATE CHANGE EXPOSITION "Move with the planet".







nttp://www.youtube.com/user/laptp#p/u/10/Sabq40moB7s





MOBILITY RACE. 11 municipalities celebrated it in 2010. 6 editions in Barcelona. Several routes demonstrate every year that two wheels and public transport are the most efficient in city, in travel time and costs.





"The sustainables". Videogame for the schools











Child games for entertainment and learning



#### PTP proposals for improving our country



- Formula for creation of stable jobs
- Increases the capacity and the economical benefits of the city and the country
- Increases the public health and quality of your environment
- Reduces de climate change
- Improves de public space and road safety





#### **5.1** Democratization of Barcelona highways



3 lanes

- No civil works
- Increasing the safety in roads
- Reducing consumption and emissions
- Time travel for cars: Only 15 seconds more for every km
- And it could improve the public transport!



3 lanes + 1 for PT



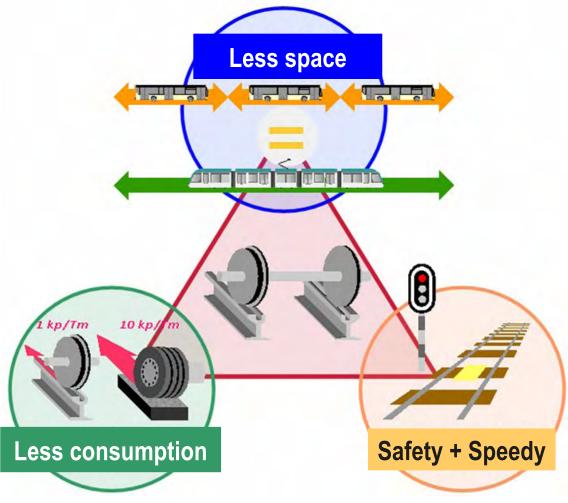
http://www.youtube.com/user/laptp#p/u/12/XHOT0HwSQXQ

# Democratization of Barcelona highways www.carrilbusara.org

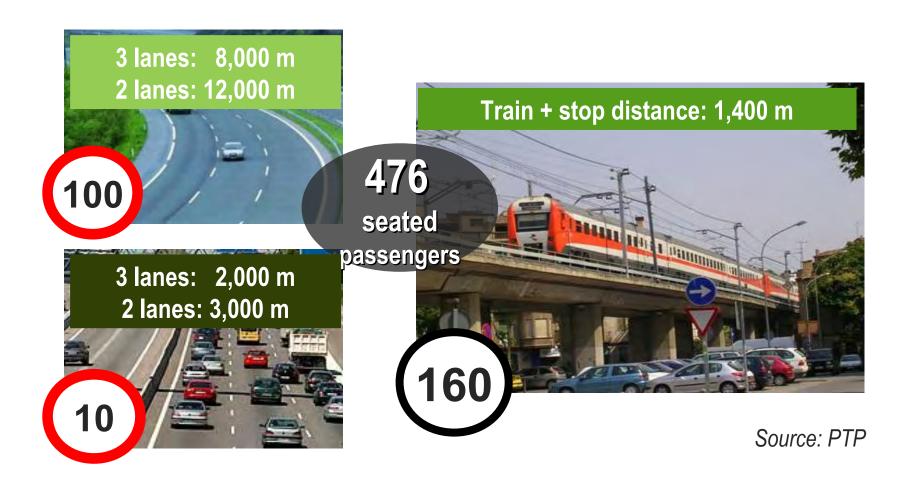








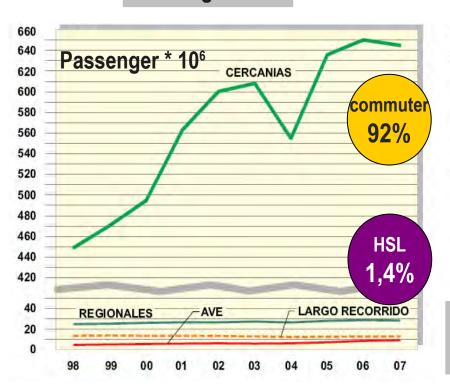




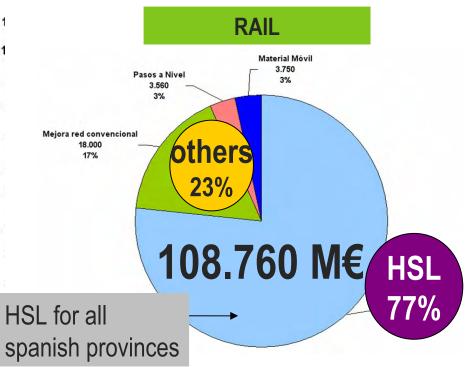


#### Passengers of Renfe. Year 2007

Passenger \* 10<sup>6</sup>



PEIT. Rail and Road Infrastructure plan for Spain. Year 2005-2020



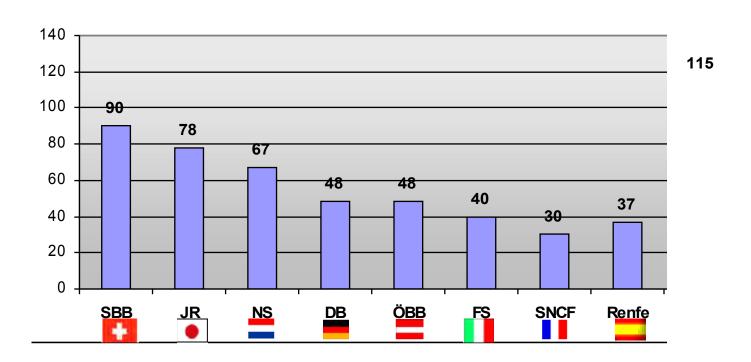


"Spain will be the country with more kilometers of highways and HSL (2.230 km)" said our Ministry of Transports. "The Spanish highways network was the someone with biggest growth in the 90's", according to Eurostat.





Trains for each km of track every day (train\*km/km network). Year 2005





The 80's in Spain. Modernization of main lines and important plans for improve commercial speed, but never executed. Instead of this, new HSL has been built, but too far from Tarragona city.

TELLON

Oh 47'
Oh 40'

VALENCIA

O' 3h 00'

VALENCIA

Source: General Plan for Railways, 1981





Barcelona Sants <> Tarragona Centre





**Travel time:** 

Catalunya Exprés: 55'-60' (now 65')

**Fare** 6,45 €



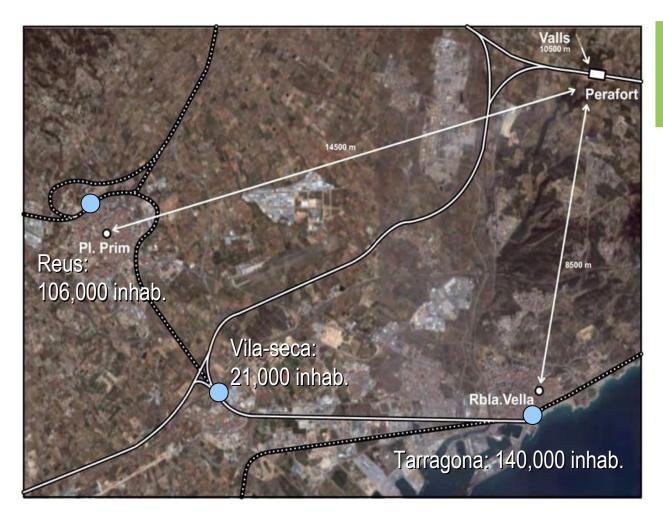
#### HSL

**Travel time:** 

Renfe Avant 36' + transfer + Bus 15'= > 60'

**Fare**: 12 + 1,30 €





### The station of HSL line for Tarragona is in the middle of the field.

It's a paradox thinking that a new line will improve the regional transport and reduce the congestion of the old line when it doesn't serve the center of cities as classic line does.

Only 14 people / train between Camp de Tarragona-BCN.

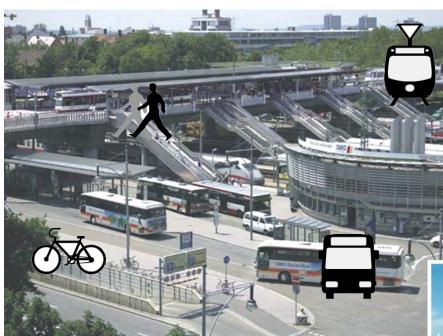
Only 5% people arrive to the station by public transport



#### **Camp de Tarragona**

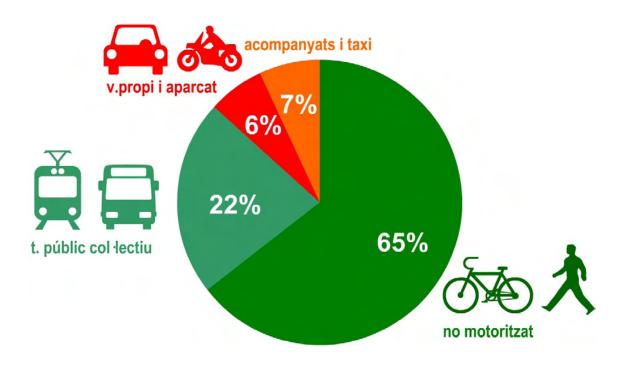


#### **Freiburg Hauptbahnhof**



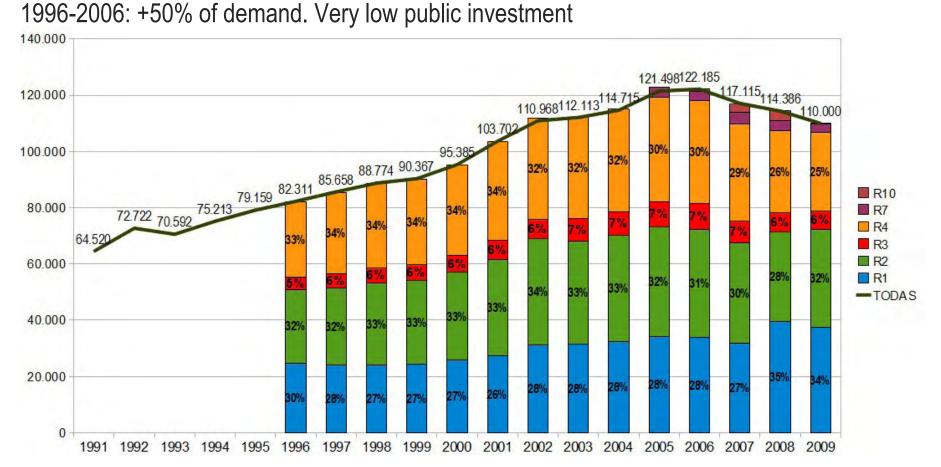


How people arrives to train stations in Barcelona commuter services?





Barcelona commuter service (Renfe)









#### 5.2 We believe in railways. Because of it, we need plan them better

While economical lobbies are only worried by the arrival date of HSL to Barcelona, society integrated by public transport users, syndicates, consumers and neighbor's associations were claiming to give more priority to conventional network.





#### 5.2 We believe in railways. Because of it, we need plan them better

We're not situated as an opposition HSL association, but we have to be exigent with public investments. Because of this, we planned in 2006 a new strategy for Catalan railways called **Pla Tren 2014**. Inspired in Swiss **Bahn 2000**, these are the main facts of the plan:

- For avoiding disappointments, infrastructure has to be subordinated to services plan, not planning first infrastructures and later.
- We can't afford pharaonic investments, like the HSL line (one time every 50 years). We must minimize inversions and maximize services. Train 2014 is a large list of interventions that improve the network immediately and they can increase its benefits when they could work simultaneously







#### 5.2 We believe in railways. Because of it, we need plan them better

- We compared travel times between highways and current trains. We have to act!
- We have to solve current problems instead of planning new HSL for the next decades. Now we have important problems of **capacity and speed** for passengers and freight.





Source: www.trenscat.cat



- We have to pay attention to most demanded services and freight transport. In Catalonia main services are commuter and regional trains.
- We have to integrate HLS with conventional lines, like a highway works in a road network, for taking the most profit of new rails. **We have to plan accessibility, not only speed.**







- We can introduce tram-trains for the expansion of railway in low-dense or semi-dense urban areas, instead of expensive tunnels.
- We propose a transparent criteria for expand the passengers network: towns with a population of 30,000 inhabitants and regional districts with 50,000 inhabitants, in most populated city. It would serve the 94% of Catalan people.







#### 5.2 We believe in railways. Because of it, we need plan them better

The increasing of the commercial speed of regional trains near BCN trough an innovative strategy (1):

- Planning the addition of the 3<sup>rd</sup> and 4<sup>th</sup> track in south corridor, where commuter trains are inhibiting competitive speed for direct and regional trains.
- We recover a proposal from the 80's
- We connect it with a 3<sup>rd</sup> iberian gauge tunnel in BCN.

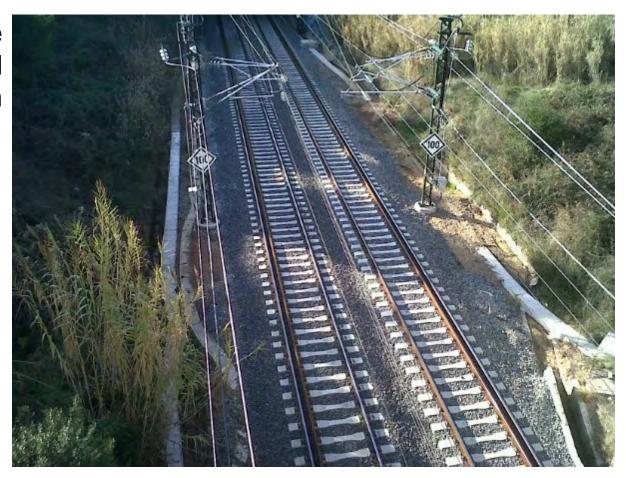




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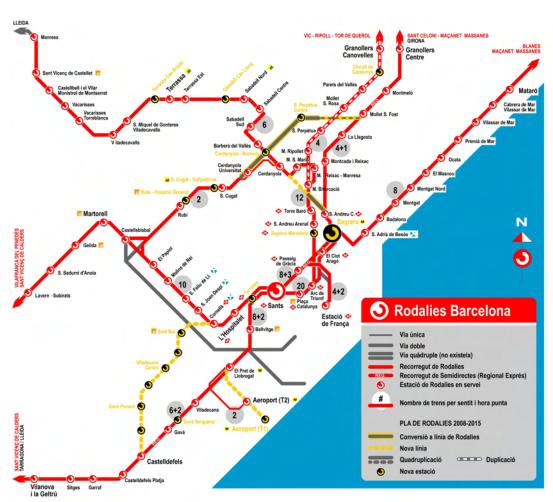
The increasing of the commercial speed of regional trains near BCN trough an innovative strategy (2):

- Using HSL between future station of La Sagrera and the surroundings of Granollers, in north corridor.
- Implementation of third rail for UIC gauge in conventional lines of Puigcerdà and Portbou (they reach France)
- Using bi-tension trains, for 25,000 Vca and 3,000 Vcc





### 5.2 We believe in railways. Because of it, we need plan them better



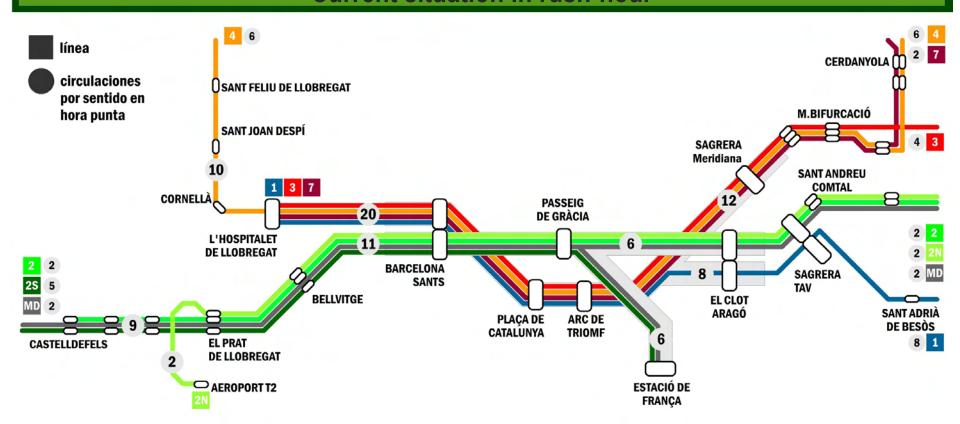


We have 20 circulations in each sense in Plaça Catalunya tunnel. Low for a metro, too much for a multiple destination trains.



### 5.2 We believe in railways. Because of it, we need plan them better

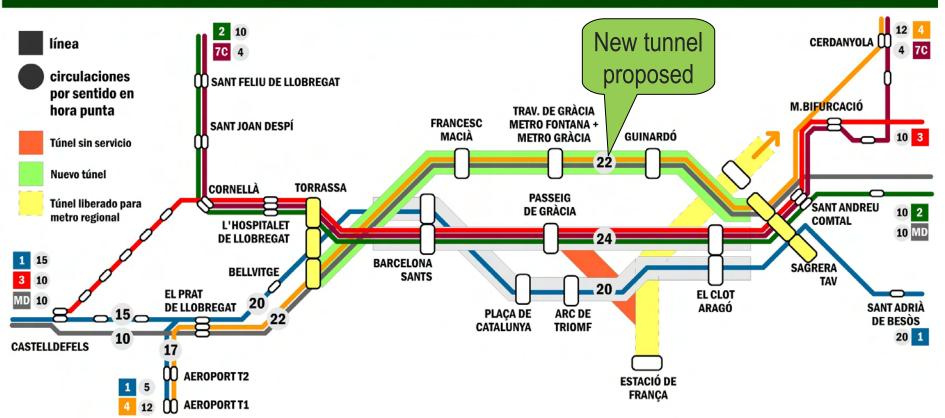
#### **Current situation in rush-hour**





#### 5.2 We believe in railways. Because of it, we need plan them better

#### Third tunnel in iberian gauge connected to current them in Torrassa and Sagrera





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#### **LOCAL AND METROPOLITAN LINES**



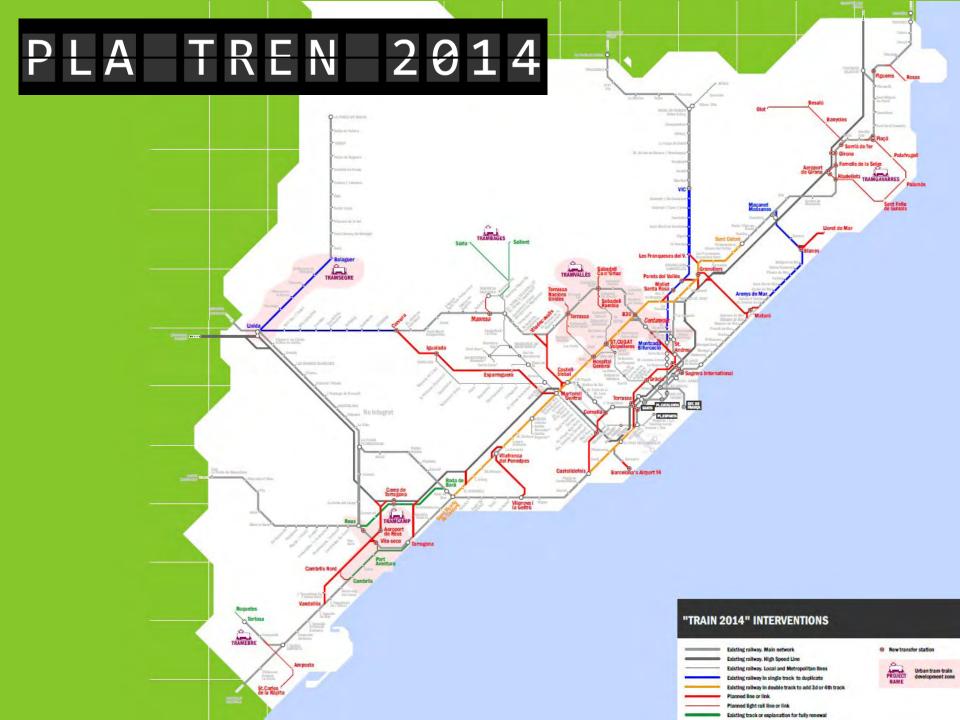
### Metropolitan services on main network Local and metropolitan services in dedicated network

#### **REGIONAL AND EXPRESS LINES**



Regional and express services on main network

Regional and express services on high speed line





#### 5.2 We believe in railways. Because of it, we need plan them better

	Duplication of tracks (km)	Addition of a third or fourth track (km)	Extension for passenger and freight (km)	Light- railway extension for passenger (km)	Conversio n (km)	TOTAL (km)
Phase 1	30,8	40,8	80,8	16,5	18,7	187,6
Phase 2	47,85	27,2	0	78,75	55,65	209,45
Phase 3	126	127	119,5	0	12	384,5
TOTAL	204,65	195	200,3	95,25	86,35	781,55

The same inversion that new HSL line linking Girona and Lleida through Manresa or current HSL line between Madrid and Barcelona (7\*109 €)!



- Majority of Catalan Parliament supports
   2014 plan in 2007, with several and different parties
- Nowadays party in Catalan Government has confirmed the support given to us when they were in opposition.
- Some changes in urban planning: 3<sup>rd</sup> and 4<sup>th</sup> tracks added, a third Iberian gauge tunnel in Barcelona, etcetera.
- Train 2014 is nominated for UITP Ptx2 awards that will be delivered in Dubai on 14<sup>th</sup> April, 2011.
- But main ideas are competence of State.
  Will they agree with Train 2014 plan?





"If you plan for cars and traffic, you get cars and traffic. If you plan for people and places, you get people and places".

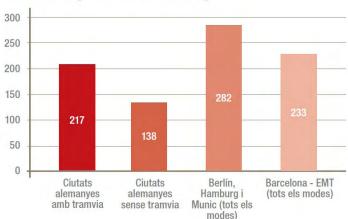
Fred Kent. Nova York







#### Nombre de viatgers en TP / habitants i any



BCN urban area: 233 pax/hab

Berlin-Hamburg-Munic: 282 pax/hab

German city with tram: 217 pax/hab

German city only bus: 138 pax/hab

Spanish cities: 68 pax/hab.

Sabadell: 66 pax/hab.

Terrassa: 55 pax/hab.

Freiburg: 342 pax/hab.

Ciutats amb tramvia, a més del bus

Ciutat	Habitants	Passat/any	Viatges/hab. any
Bielefeld	324.000	41.000.000	127
Mannheim	310.000	68.000.000	219
Karlsruhe	289.000	109.000.000	377
Augsburg	263.000	54.000.000	205
Braunschweig	246.000	37.000.000	150
Chemnitz	245.000	42.000.000	171
Krefeld	236.000	41.000.000	0 174
Friburg	219.000	70.000.000	320
Efurt	203.000	36.000.000	177
Mainz	198.000	46.000.000	232
Kassel	194.000	40.000.000	206
Potsdam	151.000	27.000.000	0 179
Heidelberg	145.000	40.000.000	276
Darmstadt	142.000	31.000.000	218
Würzburg	135.000	35.000.000	259
Heilbronn	121.000	20.000.000	165
Ulm	121.000	30.000.000	248
Jena	103.000	21.000.000	204
Mitjana	202.500		217

Variació mitjana de passatgers en ciutats amb tramvia i sense tramvia: 57%

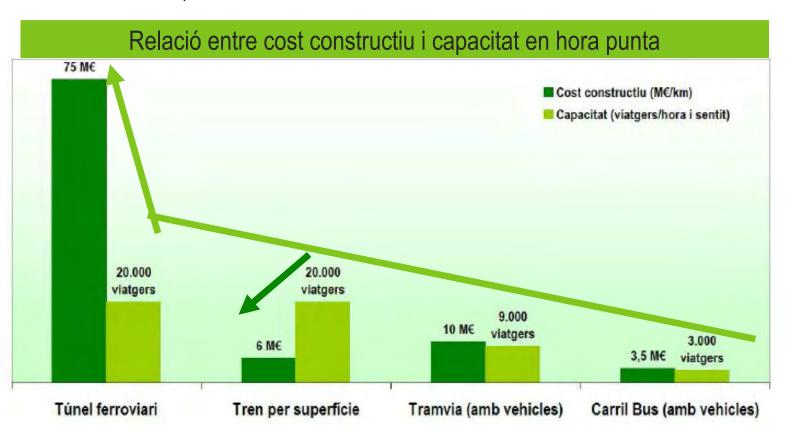
Dades de 2008 i 2009

Ciutats sense tramvia, només bus

Ciutat	Habitants	Passat/any	Viatges/hab. any
Münster	272.000	33.000.000	121
Wiesbaden	275.000	47.000.000	171
Mönchengladbach	260.000		
Mönchengladbach (Area metropolitana)	310.000	48.000.000	155
Aachen	260.000		
Aachen (Area metropolitana)	570.000	62.000.000	109
Kiel	236.000	33.000.000	140
Lübek	211.000	27.000.000	128
Hagen	194.000	38.000.000	196
Hamm	183.000	13.000.000	71
Osnabrück	163.000	36.000.000	221
Solingen	162.000	24.000.000	148
Oldenburg	160.000	16.000.000	100
Regensburg	132.000		
Regensburg (Area metropolitana)	280.000	33.000.000	118
Ingolstadt	123.000	12.000.000	98
Göttingen	121.000	18.000.000	149
Reutlingen	113.000	15.000.000	133
Elangen	104.000	14.000.000	135
Trier	104.000	16.000.000	154
Mitjana	210.647		138



We can't afford the demand of public transport only with metro (the dream of some architects in Barcelona)





TRAMWAY AND RETBUS. The case of Barcelona.

**Diagonal per a tothom** (Diagonal for everybody): more than 10 associations joined for a sustainable change in main avenue of Barcelona. Activism, demonstration and a Congress.











02-05-2010



TRAMWAY AND RETBUS. The case of Barcelona.

**Diagonal per a tothom** won ACCIÓ 21 contest in 2010, in the context of Agenda 21 of Barcelona.







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