

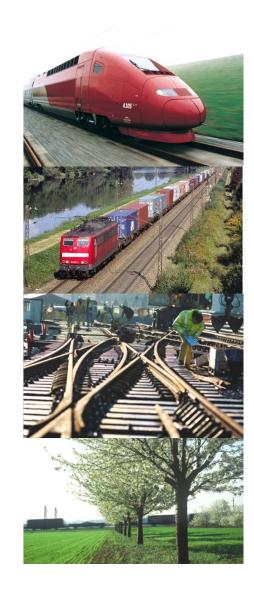
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# Public Private Partnerships A Rail Sector Perspective

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### Strategic considerations



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#### Strategic imperatives:

Need to move away from oil and to decarbonise transport

Rail to capture higher modal shares, notably on longer distances

Public transport and electric road vehicles in cities



### Strategic obstacles:

Constrained state budgets

Fiscal austerity threatens growth

Lock-in: no infrastructure = no shift to low-oil, low-carbon transport

Europe a sitting duck for the next oil shock

Europe needs to give a <u>higher</u> priority for infrastructure investments

For the short-run: infrastructure investments have higher multiplier effects as compared to public sector wages and transfers  $\rightarrow$  get us back to growth

For the long-run: the energy and transport transition will not happen otherwise

### User financing in rail is the rule, not the exception



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- Contrary to the road sector, infrastructure user charges are <u>systematic</u> in the rail sector: <u>track access charges</u>
- Track access charges are regulated under EU law (2001/14/EC) so as to be:
  - Non-discriminatory
  - □ Related to wear-and-tear → distance-based and tonnage-based
  - ☐ Base level is the "cost directly incurred" (~ short-run marginal cost)
  - May be differentiated by market segment, where the charge is topped up with mark-ups "that the market can bear"
  - May include a scarcity / congestion charge
  - ☐ May be used for additional price signals (e.g. noise, ETCS)
  - □ Recast of the 1RP → partial clarification of charging principles implementation work with Commission & national experts important

### New investments



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■ Existing rail legislation (2001/14/EC, Art 8, par 2) allows for higher user charges:

"For specific <u>investment projects</u> (...) the infrastructure manager may set (...) higher charges on the basis of the <u>long-term costs</u> of such projects *if they increase efficiency and/or cost-effectiveness and could not otherwise be or have been undertaken."* 

- But user charges should also be low: competitiveness of rail services against road (especially where road user charging isn't in place), against aviation
- Most rail projects require a high percentage of direct funding from national and/or EU grants ("blending")
  - → Justified by positive socio-economic benefits (positive externalities)
- Long payback periods and long life-times. Typically 40-60 years

# Private financing of public infrastructure - general arguments



- Justified if more cost-effective and/or faster/better delivery at same cost
  - Applied in many countries (public-private comparator, VfM analysis)
- The efficiency gain must be the scope for reduced public spending
  - It is never known with certainty (it is a counter-factual analysis)
  - It is typically expected to be positive (if not very large)
  - It may be outweighed by higher contracting and financing costs
- In practice: political pressure from the top is the first driver
  - Those who can afford it do something else (e.g. Sweden)
  - Always a risk of fitting the analysis around the desired result
  - A rational 2<sup>nd</sup> best choice when under a tight fiscal constraint

# Selected European rail PPPs Source: Hansen (2010) (amended - needs update)



Project	•	Contract duration	Route length	САРЕХ	Public co-funding (grants)	Type of PPP	Loan guarantees
Stockholm-Arlanda					_		
Airport	1993-1999	41	39	SEK 4.1 bn	SEK 2.4 bn	ВОТ	
HS1 Channel Tunnel rail link	1996-2003 (2007)	90	109	GBP 5.8 bn	GBP 2.01 bn	DBFM	
Oresund road-rail link	1991-2000	25-30	38	EUR 2.0 bn	NA	DBFM	Yes 100%
HSL-Zuid	2000-2007	25					
Perpignan-Figueras HS	2005-2009	50	45	EUR 1.1 bn			
Diabolo rail link Brussels	2007-2012	35	3	EUR 0.54 bn	EUR 0.25 bn	DBF	
Liefkenshoek rail link Antwerp	2008-2013	38	16	EUR 0.84 bn	EUR 0.05 bn / year	DBFM	
Tours-Bordeaux HS (HSL SEA)	2010-2016	50	340	EUR 7.8 bn	EUR 4.0 bn	вот	State and EIB/LGTT
GSM-R France	2009-2015	15	14000	EUR 1.5 bn	EUR 0.16 bn	DBFM	
Lisbon-Madrid HS	2009-2013	40	165	EUR 7.8 bn	NA	DBFM	
Nimes-Montpellier HS	2011-2016	25	80	EUR 1.8 bn	NA	DBFM	State, EIB, RFF
Bretagne-Pays de la Loire HS	2011-?	25	182	EUR 3.4 bn	NA	DBFM	

### Main characteristics of European rail PPPs



- Rail PPPs primarily for
  - High-speed (incl extension/bypass projects, lower risk than fully new line)
  - Airport and sea-port links
  - Rail telecommunication projects (GSM-R in France)
- For high-speed, in favourable cases, state co-funding around 40%-60% of investment costs
- Small wave of projects to be completed 2013-2016 to watch closely
- Most rail PPPs are of the DBFM type, Design-Build-Finance-Maintain
  - This means usually an availability payment model. Traffic risk borne by the state; the IM obtains the revenue from the track access charges
  - Remuneration based on making the capacity available, plus other selected quality goals
- A minority are Build-Operate-Transfer (BOT) ("concession")
  - Traffic risk borne by the private partner who obtains the revenue from track access charges plus (possibly) some quality goals, including availability
  - Experience: Tours-Bordeaux (HSL SEA) and Stockholm-Arlanda

### Conclusions



- Rail PPP still unfolding less experience than e.g. motorways but wave ending around 2015-2016 should hold useful lessons
- Speed and timeliness of project completion often favourable (perhaps the clearest concrete advantage of PPPs?)
- But PPPs not systematically cheaper than other forms of procurement depends on fiscal and macroeconomic conditions in each country
  - E.g. Denmark: preference for state guarantee model
  - E.g. Sweden: preference for public debt financing (low-rate Riksbank loans)
- Convergence between road and rail is the key
  - Generalise distance-based charging for all main roads
  - Align charging principles and charging rules SRMC and externalities
  - Set-up a "road infrastructure manager" the trend in Germany?
  - PPPs whether rail or road where VFM analysis is favourable
  - PPPs free up resources for traditional procurement → most rail projects

# Thank you for your attention!



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