





Using Tolling to Improve Mobility in Large Urban Areas André Broto, Director of Foresight and Strategy, Vinci Autoroutes, France



VINCI Autoroutes, Europe's leading Motorway Operator



- 4,368 km of Motorways in operation
- 2,260,000 transactions per Day
- 4,755 million euro turnover
- 3,390 million euro EBITDA
- 16,807 million euro debt





VINCI Autoroutes - International Operations



1995 : SR91 Express Lanes, 2005 : MnPASS A pioneer in Free-Flow Tolling (COFIROUTE USA)

2005 : TOLL COLLECT The first Satellite-based Lorry Tolling System





2009 : DUPLEX tunnel in Paris A 10 km double deck tunnel dedicated to light vehicles







What are our problems ? (French case)



Our problem is not :

- Casual long distance trips (more than 100 km)
- Every day short trips (0 to 5 km)
- Intercity toll roads (French case)

Our problem is :

Every day compulsory and long trips (10 to 50 km : commuting trips)

➢ Periurban free roads





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As an example : the commuting area of Paris (12 000 km² and 11 million of inhabitants)



Paris

- 86 km²
- Pop : 2 million
- Inner suburbs
 - 660 km²
 - Pop : 4 million
- Outer suburbs and towns
 - 11 000 km²
 - Pop : 5 million
- Toll motorways in red color
- "Free" motorways in green





IBTTA



Our problem in summary



• The user point of view :

- Every day compulsory and long trips (commuting trips)
- To provide an offer of mobility for commuting trips at an affordable cost in relation with the income of the household (social acceptance)

• The authorities point of view (financial and environmental costs) :

- To provide an offer of mobility and to maintain the infrastructure at a sustainable cost for the community
- The question to us is
 - "how can toll roads contribute to this objective ?"





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Focus on people perspective, not on vehicle perspective : The Madrid case



From working in a silo to working with other transportation authorities

Planning coordination between road and rail networks



From monomodal to multimodal perspective

Interchange Bus Station in Madrid







From building new infrastructure to improving the use of existing infrastructures (motorways and MRT)



Bus on motorways





Intermodal interchanges

HOV / HOT (where needed)

Mass rapid transit





What about Toll ?

How to finance the mobility needs in the periurban areas ?

- Public funding ?
- HGV Tolling ?
- Cordon Tolling systems ?
- Through intercity existing concessions ?
 - As an example : In the city of Toulon an existing "free" urban motorway is incorporated free of toll in ESCOTA concession
 - The 600 million investment and operation costs will be financed by the concession



