

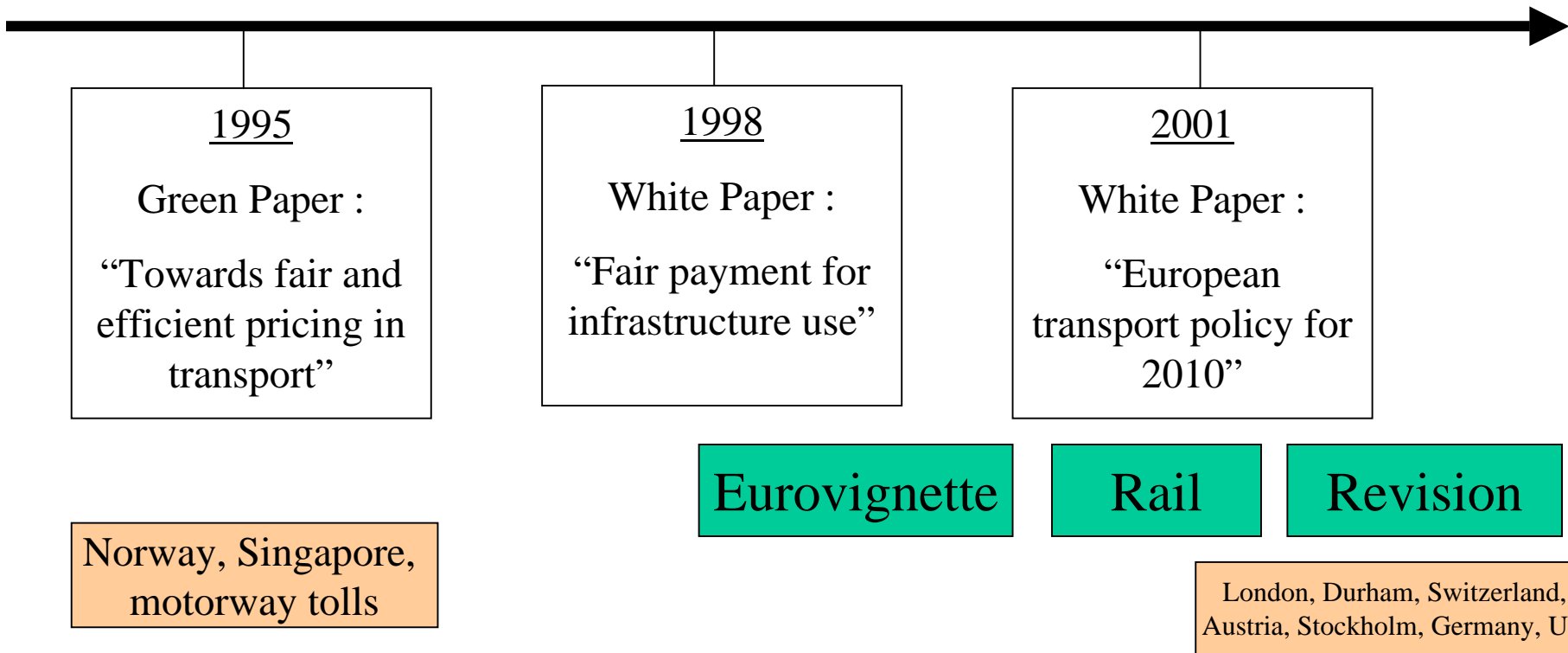


# External costs - Transport applications for the EU

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# Major milestones in the policy process



**4<sup>th</sup> and 5<sup>th</sup> Framework transport research programmes**



# Principles of the EC transport infrastructure charging policy

- Objectives
  - To ensure more efficient and incentive-led infrastructure use;
  - Provision of new financial resources;
  - Non discriminatory.
- Based on “user-pays” and “polluter-pays” principles;
- External costs to be internalised:
  - infrastructure, congestion, accidents, environment, climate change;
  - Impact pathway methodology endorsed (HLG report)

➤ **Research & policy integration**

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## Research on infrastructure charging

- 4<sup>th</sup> & 5<sup>th</sup> Framework transport research programmes (FP)
- 6<sup>th</sup> FP about to start
- App. 25 projects or 25 M€
  - From theory and cost derivation to implementation and demonstrations
  - From case studies to generalisation “rules”



## Research projects on external costs

- Basis Impact pathway approach from the ExternE programme
- FP4:
  - **TRENEN** – congestion costs up to 90% of external costs in urban areas
  - **QUITS** – costs vary from place to place
  - **PETS** – costs of environmental damage practically covered by road taxation



## Research projects on external costs – FP5

- **UNITE** – 30+ case studies
  - Lorry in Berlin at day 20c, night 40 c/km
  - Vessel in Baltic sea 18€/km
  - Plain from Berlin to London 400€per flight
- **RECORDIT** – comparison of road/intermodal
  - External costs app. 15 c/km on average
  - Variation between 5 – 60 c/km
  - Environmental costs
    - Air pollution: Göteborg 1.7c – A'dam 8.8 c/km
    - Noise: Kroatia 0.3c – Paris 22 c/km
    - Global warming: flat land 3.3c - mountainous 5.5 c/km



## Conclusions

- Range of costs well known for road – generalisation rules feasible (FP6)
- For other modes information scarce and more (basic) research needed (FP6)
- Research input used to differentiate (HGV) charges in first phase; to set the levels later



## More information

- [europa.eu.int/comm/transport/extra/home](http://europa.eu.int/comm/transport/extra/home)
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