

High Speed Rail in evolution

For which customers ?

For which environment,

which regional development ?

High Speed Rail in evolution

The Traveller

High speed *Trains*

vs. high speed *Journeys*

- as few changes as possible
- Good connections with classical trains
- Good connections with urban transport
- Availability near the final collective transport station of parkings

High Speed Rail in evolution

The Traveller

During transportation

vs. also before and after

BEFORE

- Need for global, complete, easy information
- Through ticketing
- Easy access to tickets

AFTER

- In case of not achieved or not satisfying transport

High Speed Rail in evolution

The Traveller

Maximum speed

vs. balance with cost and comfort

- The changing horizon of Energy
- The changing horizon of the population

High Speed Rail in evolution

Environment

CARING FOR POLLUTION AND NOISE

- Role of research
- Limiting factor of speed

CARING FOR LANDSCAPES AND SPECIES

- New lines vs.improving classical ones
- Voyagers and freight on the same HS Line

High Speed rail in evolution

Regional development

- Positioning of the stations
- Commuters
- Radial vs. Transversal links