MOBILISING PRIVATE INVESTMENT IN SUSTAINABLE TRANSPORT INFRASTRUCTURE The case of land-based passenger transport

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Introduction: Why focus on infrastructure to address climate change?

Risk of infrastructure lock-in into carbon-intensive (and climate vulnerable) development pathways

GHG emissions projections 2010-2050



Introduction: Why focus on transport?

Transport emissions expected to double by 2050

CO2 emissions from energy and industry to 2050, baseline



1. The category "energy transformation" includes emissions from oil refineries, coal and gas liquefaction.

Source: OECD Environmental Outlook to 2050, 2012.

Challenges to support sustainable transport infrastructure

Scale-up and shift investments towards rail and urban transit systems

How?

- Avoid Shift Improve strategies
- Mainstream climate-resilient goals in transport planning



1. Lack of sustainable transport investment opportunities

RETURNS

TO THE

PRIVATE SECTOR

> Transfers, subsidies

> > Taxes

User fees

RETURNS

TO SOCIETY

Economic

development

Clean air

GHG emission

reductions

Affordable.

social inclusion

- Insufficient risk/return value proposition vs. carbon-intensive road transport
 - <u>- Return</u>: High upfront capital costs; relatively low-returns vs. road investments; non-monetized benefits not captured
 - **<u>+ Risk</u>**: Multiple stakeholders; complex projects; contractual risks; long development timelines; exposure to policy risk
- 3. Availability of long-term finance for sustainable transport infrastructure projects

What role for governments?

Create a pool of sustainable transport project opportunities
 Improve the risk-return value proposition of sustainable transport projects
 Leverage public sources of finance to mobilise the private sector



What role for governments? Elements of a Green Investment Policy Framework

5. Promote green business and consumer behaviour 1. Strategic goal setting and policy alignment

2. Enabling policies and incentives for LCR investment

3. Financial policies and instruments

4. Harness resources and build capacity for an LCR economy

Source: Corfee-Morlot et al., 2012.



Integrate co-benefits in transport planning

(Climate concerns are rarely the main drivers of transport planning)



Source: Adapted from GIZ, 2012.



Integrate land-use and transport planning

and coordinate multiple stakeholders

(e.g. horizontally between municipalities for BRTs and MRTs)



2. Enabling policies and incentives

- Open and competitive markets
- Carbon pricing strategies (important though not sufficient)
- Need other policy instruments:
- Congestion charges
 - (*e.g.* Singapore's Electronic Road Pricing; London's Congestion Charging; Stockholm)
- Parking levies
- Regulatory instruments
 (e.g. fuel economy standards; zoning policies)



3. Financial policies and instruments

Innovative financial instruments

- Public-private partnerships (PPPs) (e.g. Arlanda Express, Stockholm)
- Land value capture tools (e.g. Copenhagen Ørestad metro)



- Grants, loans and loan guarantees
 (e.g. Viability Gap Funding in India)
- Green bonds and credit enhancement

Transitional support:

- Infrastructure funds or banks (e.g. urban transport funds, India)
- Short-run subsidies (e.g. for EV charging infrastructure)



- 4. Harness resources and build capacity
- Foster innovation with R&D
 (e.g. for EV charging infrastructure)
- Training and human capacity:
 (e.g. building institutional investors' capacity; regulatory experience with PPPs)
- Building capacity for assessment, M&E and enforcement
- Climate risk and vulnerability assessment (e.g. Climate risk screening tools)
- 5. Promote green business and consumer behaviour
- Information, education and public awareness policies



- No one-size-fits-all solution
- Need to integrate tools within a coherent transport strategy and policy mix
 - > E.g. pricing instruments + public awareness campaigns
 - E.g. pricing instruments + land-use planning (to increase effectiveness; need to ensure sustainable transport alternatives are available for users to respond to price signal change)

E.g. PPPs + regulatory framework + capacity building

 Need to integrate financing strategies upfront in transport planning process

(and ensure revenues cover both capital and operating expenditures)



THANK YOU!

www.oecd.org/env/cc/financing

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