

*Seminar on Costing and Facilitation of Railway Services*

*Bangkok, 9 to 11 December 2015*

# The spirit of innovation in mapping the future of transport in Asia



# Trade and transport: a new context

## The sustainability context



- Greater affluence will amplify demand

- *by 2050 freight volumes in non-OECD countries could increase by a factor of 4 to 5 compared to 2000 levels while passenger mobility could increase by five to six-fold.*
- *world already using 50 per cent more resources than the earth can provide and by 2030 two planets will not be enough to satisfy our needs*



- Higher income = higher motorization rate

- *over the period 2007-2012, Indonesia, Thailand and China topped the chart of annualized growth in car sales*
- *if China were to have the same car density than the US, a billion vehicles would be added over the next decades*



- Rapid urbanization

- *between 2000 and 2050, developing regions could add 3.2 billion new urban residents*
- *urban areas average roughly seven times more vehicles per kilometre of road than countryside areas*



Demand for energy set to grow by one third over 2010-2035

*All the net increase in oil demand comes from transport*



*The future we want*

The Secretary General has made transport one of the six building blocks for sustainable development in his Five-Year Action Agenda for his second term



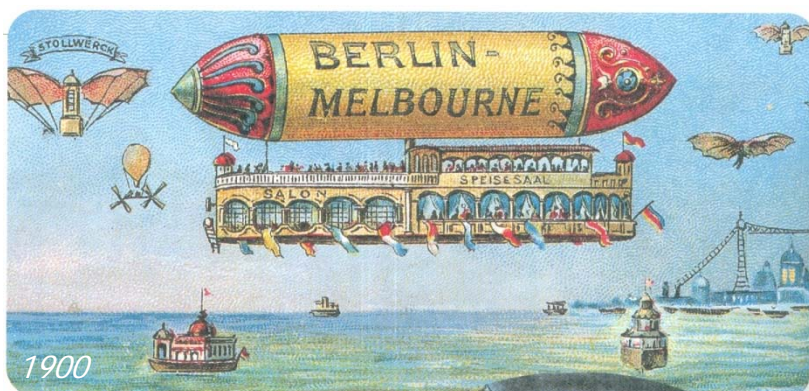
*How to address mobility requirements :*

- *for 7 billion people - soon to be 9 billion,*
- *while bringing the billions of people at the bottom of the social ladder into mainstream economic development*
- *without blowing up the environmental load ?*

# Challenges

## *Being innovative*

Transport is the essence of what makes the world economy interconnected and productive.



- as incomes rise, we tend to solve almost any other problem... while transport gets worse
- we cannot propose transport solutions unless we develop joint vision of the society we want
- mobility is sometimes perceived as a right, but defining a basic level of mobility provision is not easy
- this has more to do with politics and democracy than with technology



*"For me the metaphor of quality of life is the turtle. The turtle represents a structure of living, working and moving together. On top of that, the shell of the turtle looks like an aerial view of an urban area. If we cut the shell of the turtle, it is going to die. That is exactly what many cities in the world are doing. Separating people, separating urban functions. Living here, working there, leisure there."*

*Jaime Lerner, Architect and Urban Planner*



# Challenges

*Being innovative*



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## *Cleaning the bays in Paraná*

Base line: no budget available

Strategy: agreement with fishermen

- If the fisherman catches a fish, it belongs to him.
- If he fisherman catches garbage, the State buys the garbage.

Result: If the day was not good for fishing, the fishermen went to fish garbage. The more garbage they caught, the cleaner the bays became. The cleaner the bays were, the better for fish stock

- On infrastructure, there's always the assumption that the government has to provide public transport
- Every time we try to create a solution, we have to have a good equation of co-responsibility with the public
- The question may not be about money or skills - the question is about mentality

# Challenges

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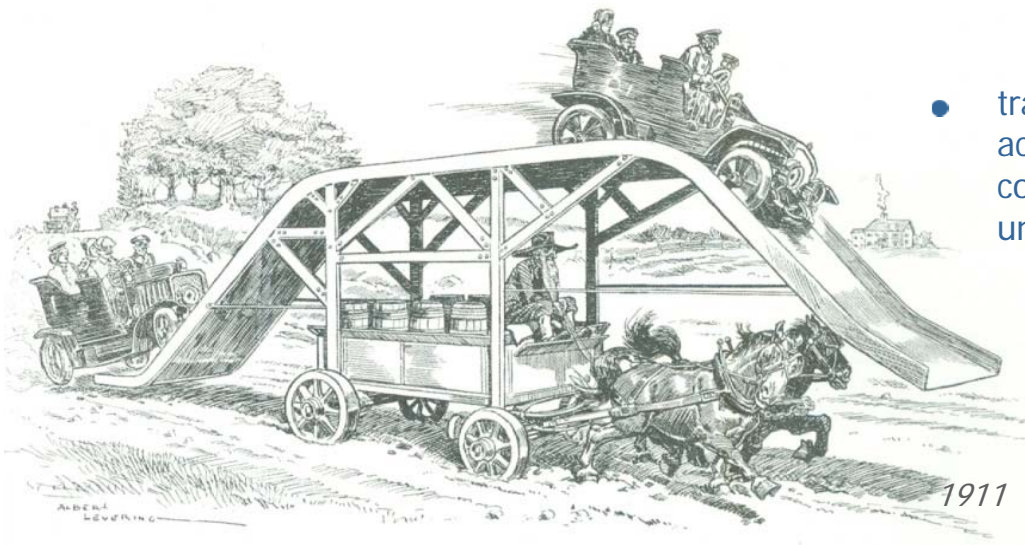
*Being innovative*

## Public sector mentality

- issues are global and call for common solutions
  - issues are also very much interlocked and need to be addressed together
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## Civil society mentality

- civil society needs to address the tension between their demand for mobility and their societal demands for environmental quality
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- transport needs research and development and public acceptability. As the challenges are getting more complicated, we need networking among and between universities, industry, civil society

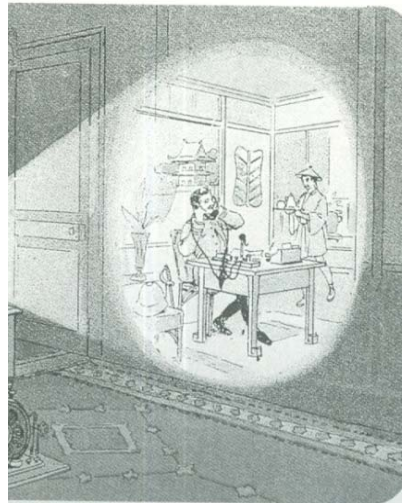
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预览已结束，完整报告链接和二维码如下：



## *Moving forward*

- high-profile – high public acceptance
- quick practical results
- move fast on implementation to avoid bureaucracy
- move fast to avoid self-doubt



*Bernard Shaw*

*Reasonable man adapts himself to the conditions that surround him... The unreasonable man adapts surrounding conditions to himself...*

*All progress depends on the unreasonable man."*