

## Bridging the Gap between Urban Planning and Transportation

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## In this session

Introduction  
5 min



**The purposes of the session**

Presentation  
20 min + 5 min Q&A



**Singapore's Experience of the Integrated Land Use and Transport Strategies** by Dr Limin Hee, Centre for Liveable Cities, Singapore

Group discussion  
30 mins



**Reality check: challenges in governance and capacity  
Facilitating across-the-board communications in your city**



**Environmental**

# Challenges in Urban Areas

**Social**

**Economic**





Health

Safety

Accessibility

Congestion

**Transport** has become a tool to  
accelerate better and effective  
**planning** and **land use**

Affordability

Renewable energy

Local and intercity business

Technology

# From this session



# City Academy

Mind the gap!



The challenges of integration

Strategies and guiding principles in Singapore



Framework, concept, plans

Start the conversations in your city!



How to initiate across-the-board dialogue?

Presentation

20 min + 5 min Q&A



# **Singapore's Experience of the Integrated Land Use and Transport Strategies**

Dr Limin Hee, Centre for Liveable Cities, Singapore

# New Urban Living Paradigm

From Centre for Liveable Cities

1. Creating a car-lite culture through mixed use planning and good urban design
2. Creating vibrant public space to encourage interaction
3. Creating highly liveable environment through an integrated approach to planning for land use and mobility as well as transport strategies



— Reality check!



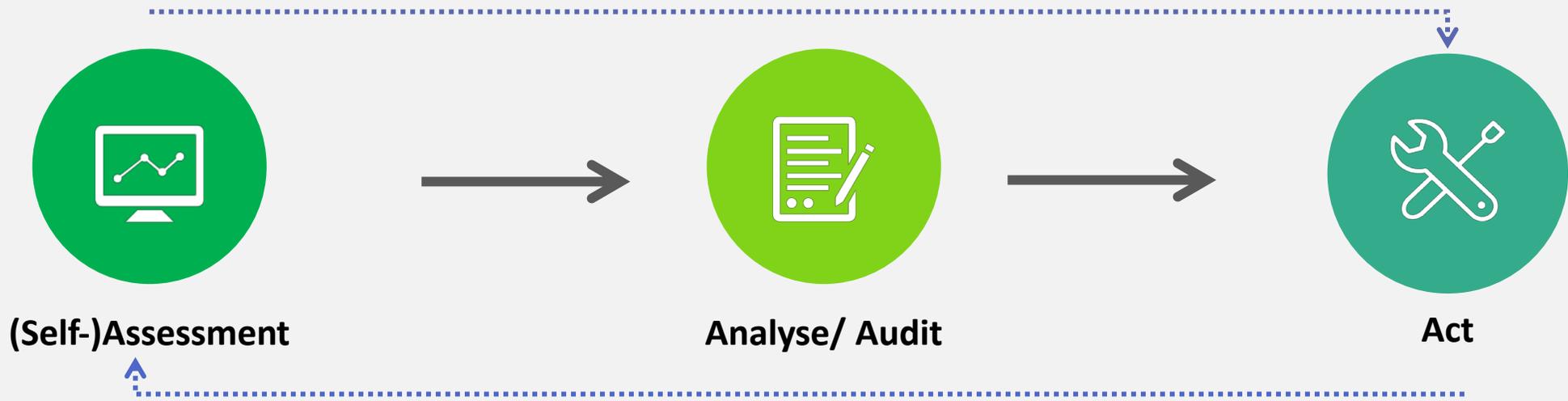
City Academy

**If You Can't Measure It, You Can't Improve It.**  
- Peter Drucker

# EcoMobility SHIFT



A total quality management scheme for cities to assess, audit and act to implement solutions and to improve mobility performance



## Enablers

- E1: Understanding users' needs and public participation
- E2: Vision, strategy and leadership
- E3: Human resources
- E4: Finance
- E5: Monitoring, evaluation, review
- E6: Preparedness for innovation and technology

## Performance

- P1: Modal split
- P2: Safety
- P3: Local air quality
- P4: Travel time
- P5: GHG emissions

## Transport system & services

- TSS 1: Walkability
- TSS 2: Cycling
- TSS 3: Public transport
- TSS 4: Accessibility
- TSS 5: Shared mobility
- TSS 6: Informal mobility
- TSS 7: Intermodal integration
- TSS 8: Ecologistics
- TSS 9: Low emission vehicles
- TSS 10: Planning of city areas
- TSS 11: Parking
- TSS 12: Low-speed/ car-free zones

23 SHIFT INDICATORS

# Reality check!

## Challenges in governance and capacity

**Enablers** refer to what and how a city does to kick off the integration. These are the foundations for a *good understanding* and holistic view of your city. *Vision, strategy and implementation* pathways to achieve a sustainable and integrated plan and system are of the greatest importance.

In doing so, understanding the current system and needs of the various stakeholders are needed. Sufficient *human and financial resources* are critical factors for implementation. Local governments need to also be prepared for *the innovation and technology* to guide the development trajectory.

### Enablers

Understanding  
users' needs &  
public  
participation

Vision,  
strategy &  
leadership

Human  
resources

Finance

Monitoring,  
evaluation,  
review

Preparedness  
for innovation  
& technology

# Enablers



Understanding users' needs & public participation

The degree to which the city investigates the current and future needs of all city users, collection of relevant baseline data of the city, and the public participation process.

Finance

Proportion of the city's transport and planning budget spent on facilitating the integration versus on motor traffic and other urban developments.

Vision, strategy & leadership

The level of political and managerial vision and support for planning strategy, and how far the senior staff and politicians lead the policy.

Monitoring, evaluation, review

The degree to which monitoring, evaluation and review are an integral part of the city's processes for checking what it has done and improving on it.

Human resources

The level of staff and resources available to implement plans and how collaboration between city departments take place.

Preparedness for innovation & technology

The degree to which the city is prepared in terms of strategy, policy or legislation for the entry of new technology, governance and business models for future development.

## Across the board

- This assessment reflects the fact that both urban and transport planning covers a wider scope than just the staff directly responsible for various functions involved in the city, even from the private service providers.
- **Score from 1-5 in each indicator of the ENABLERS**
- **Assess the gap and opportunities within your city**
- **List the indicators in order of priority**

## Enablers

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public  
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Human  
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Finance

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# Enablers (E1, E2)



E1	1	2	3	4	5
<b>Understanding users' needs &amp; public participation</b>	Limited understanding of the residents' current and future needs. Data collection is only ad-hoc. Public consultation conducted is limited and not representative	The city solely relies on external sources to understand their users' needs. Data collection and public consultation are almost none	Fair understanding with data collection and public consultation conducted occasionally to understand the needs	Good understanding of the needs with systematic data and survey methods; conducts public consultation. However, the city does not implement it that well	Broad consultation on all aspects of planning, before each project, program, policy and law is implemented; city collects data or view through a wide variety of stakeholders to understand the needs
E2	1	2	3	4	5
<b>Vision, strategy &amp; leadership</b>	No clear policy and no planning available	Limited policy with limited political support for transport and planning	Some political support for transport and planning Policy	Transport and planning policy has been in existence for some time and is supported politically	Availability of a strategic transport and planning as the cornerstone for the city's related policy and a strong political support for it

# Enablers (E3, E4)



E3	1	2	3	4	5
<b>Human resources</b>	No specific human resources	Short term limited human resources	Stable long-term human resources	As left, with collaboration between departments	As left; increasing resources; staff encouraged to train and innovate

E4	1	2	3	4	5
<b>Finance</b>	<10%	10 - 24%	25 - 49%	50 - 75%	>75%

# Enablers (E5, E6)



E5	1	2	3	4	5
<b>Monitoring, evaluation, review</b>	Monitoring, evaluation, and review is ad-hoc or not at all	Limited in the types of data collected; occasional ME&R related to a few draft indicators; external data for analysis is not used	Established indicators used to structure ME&R	As left, in place for some time, appraisal is also used	As left; data gathered is of very high quality, clear link from ME&R to updates on action plan. External, good quality data sources are also considered and well-used

E6	1	2	3	4	5
<b>Preparedness for innovation &amp; technology</b>	None of existing engagement encourages the preparedness	Innovative solution and technology enter the market without the city's support or engagement	The city is open to innovation and technology but does not provide substantial support	The city is open to innovation and technology, and provides some support and/or incentives	Innovation and solutions thrive in the city due to the city's proactiveness i.e. engagement with companies, providing support to start-ups, or policy-making and creating regulations

# Enablers



## Understanding users' needs & public participation

The degree to which the city investigates the current and future needs of all city users, collection of relevant baseline data of the city, and the public participation process.

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## Human resources

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## Finance

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**What do we as cities aim at** through the integration of transport strategies and urban development?

- Enable planners, officers and officials
- Engage with stakeholders, including local residents and communities
- Leadership



EcoMobility

An ICLEI - Local Governments for Sustainability Initiative



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