



FUTURE CITIES: How do we make the right choices?

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Warning: Future Uncertainties

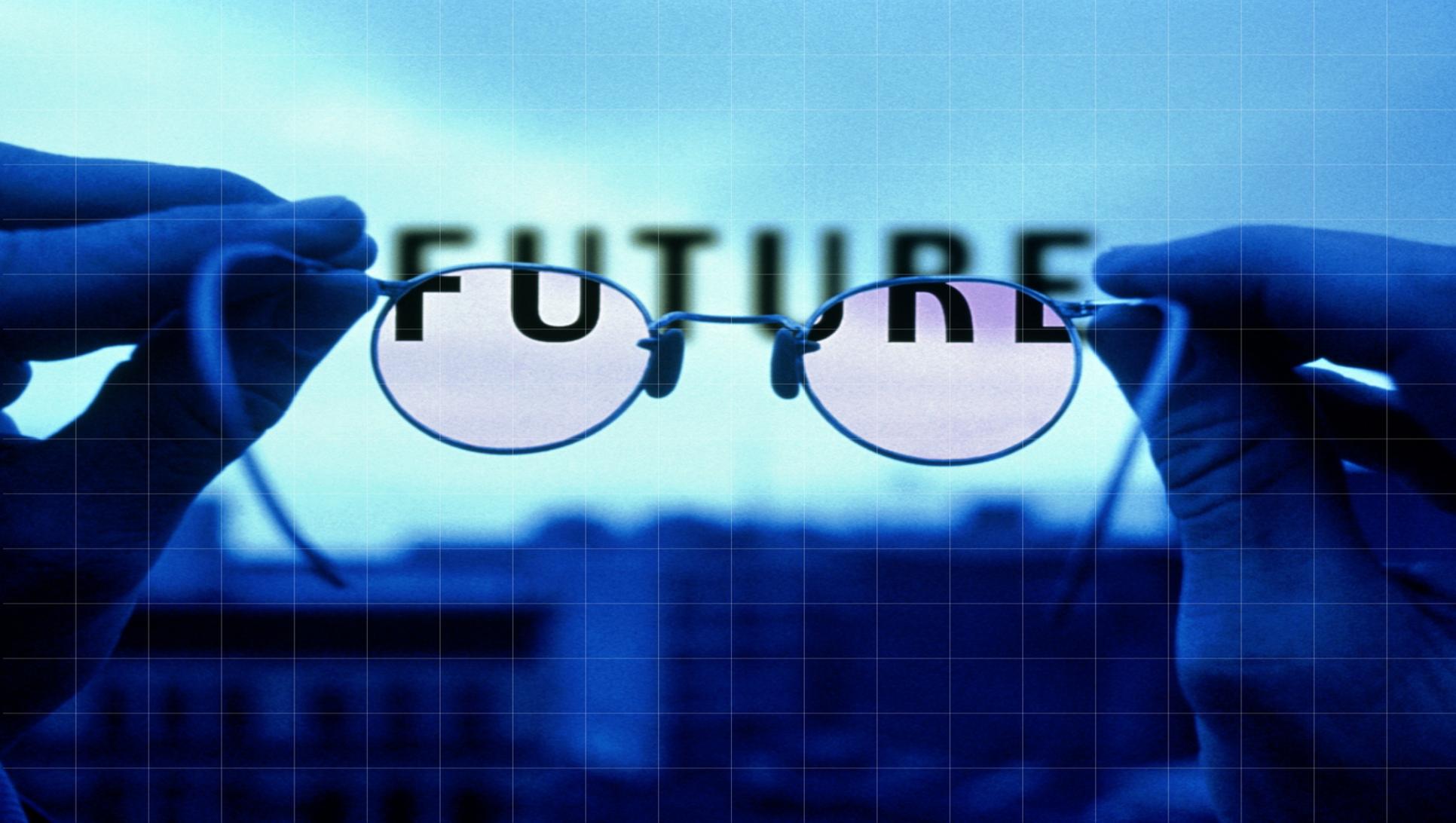
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FUTURE

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Lesson One: Urbanisation is a Critical Global Issue



Urbanisation is a key pre-determined trend
The pattern of city development is a critical uncertainty

A nighttime photograph of a city skyline, likely New York City, featuring several prominent skyscrapers illuminated with warm yellow and white lights. The Chrysler Building is the central focus, with its distinctive Art Deco spire. To its left, the Empire State Building is also brightly lit. The sky is a deep blue with some light clouds. A semi-transparent white rectangular box is overlaid on the lower half of the image, containing text.

Urban population growth
A New York city every 6 weeks

1990

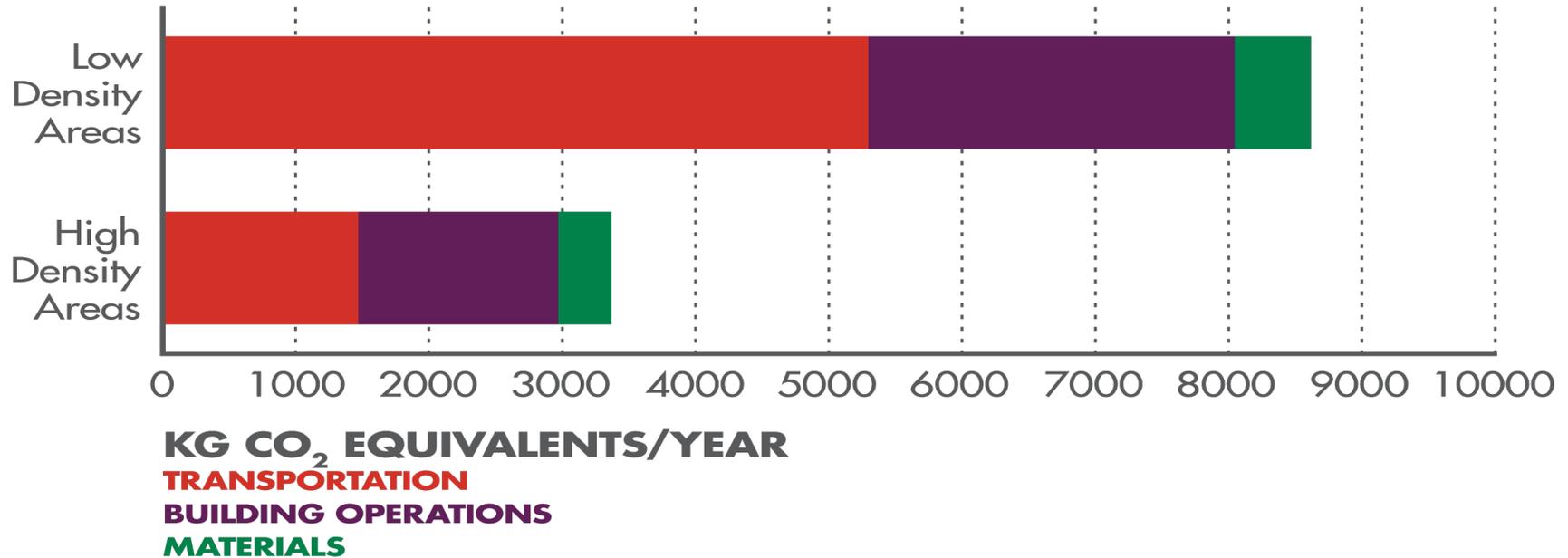


2013



Lesson Two: Resource Impact of Urban Density

Impact of urban form on CO₂ emissions per person



Classifying Urban Forms

PROSPEROUS COMMUNITIES



127

COPENHAGEN, DENMARK

SPRAWLING METROPOLISES



41

LOS ANGELES, USA

URBAN POWERHOUSES



8

HONG KONG, CHINA

UNDERDEVELOPED URBAN CENTRES



267

MARRAKESH, MOROCCO

DEVELOPING MEGA-HUBS



26

CHONGQING, CHINA

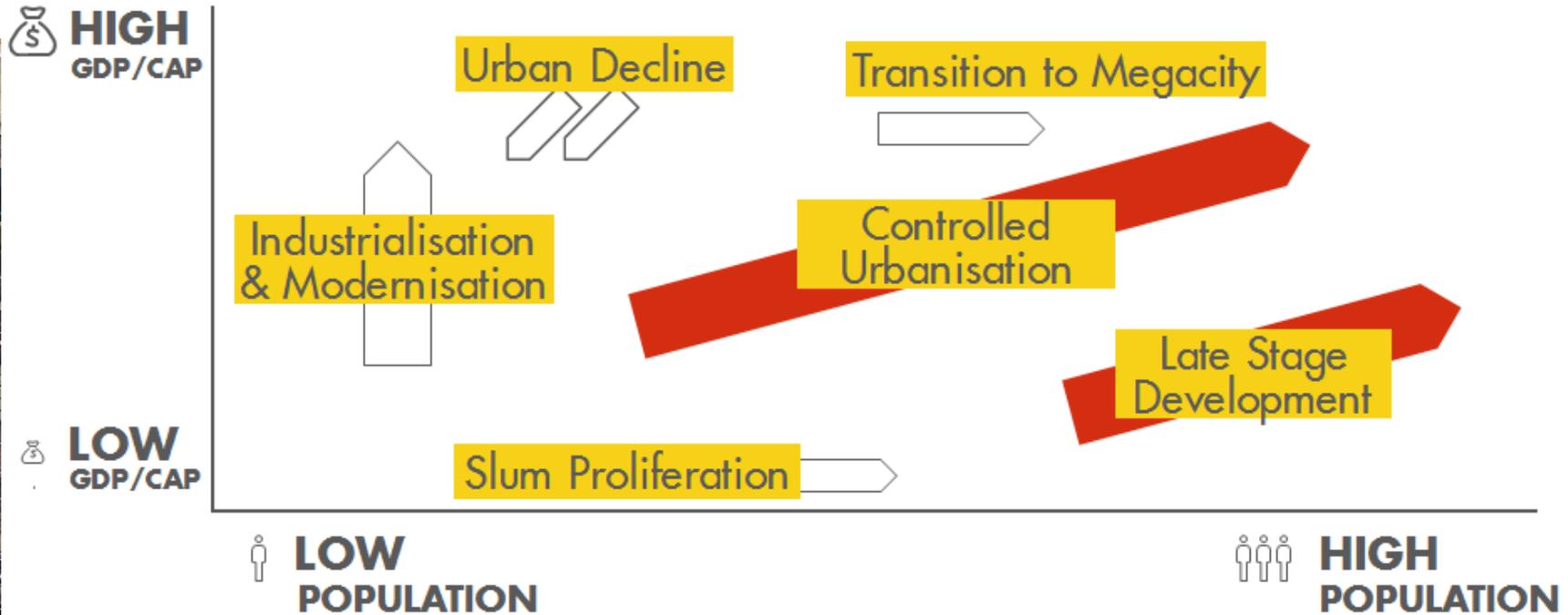
UNDERPRIVILEGED CROWDED CITIES



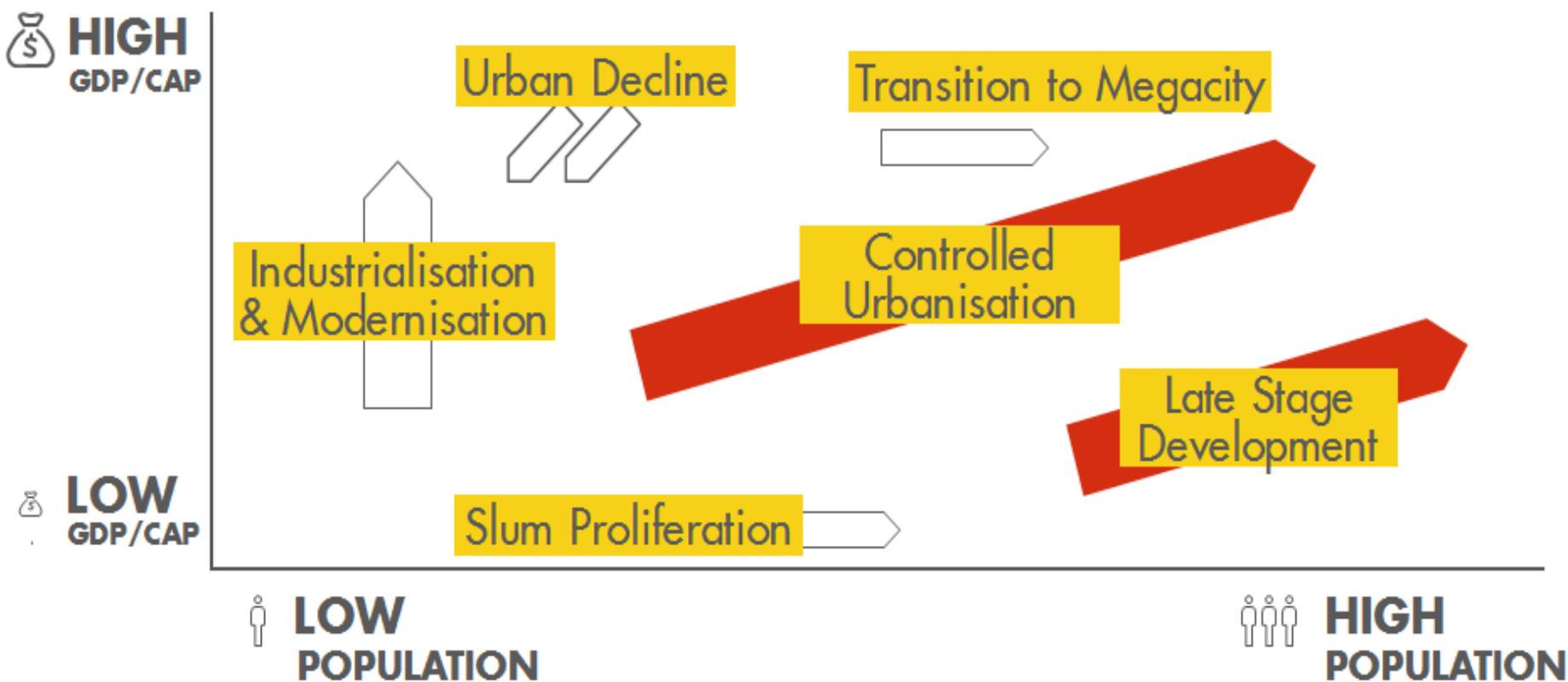
42

MANILA, PHILIPPINES

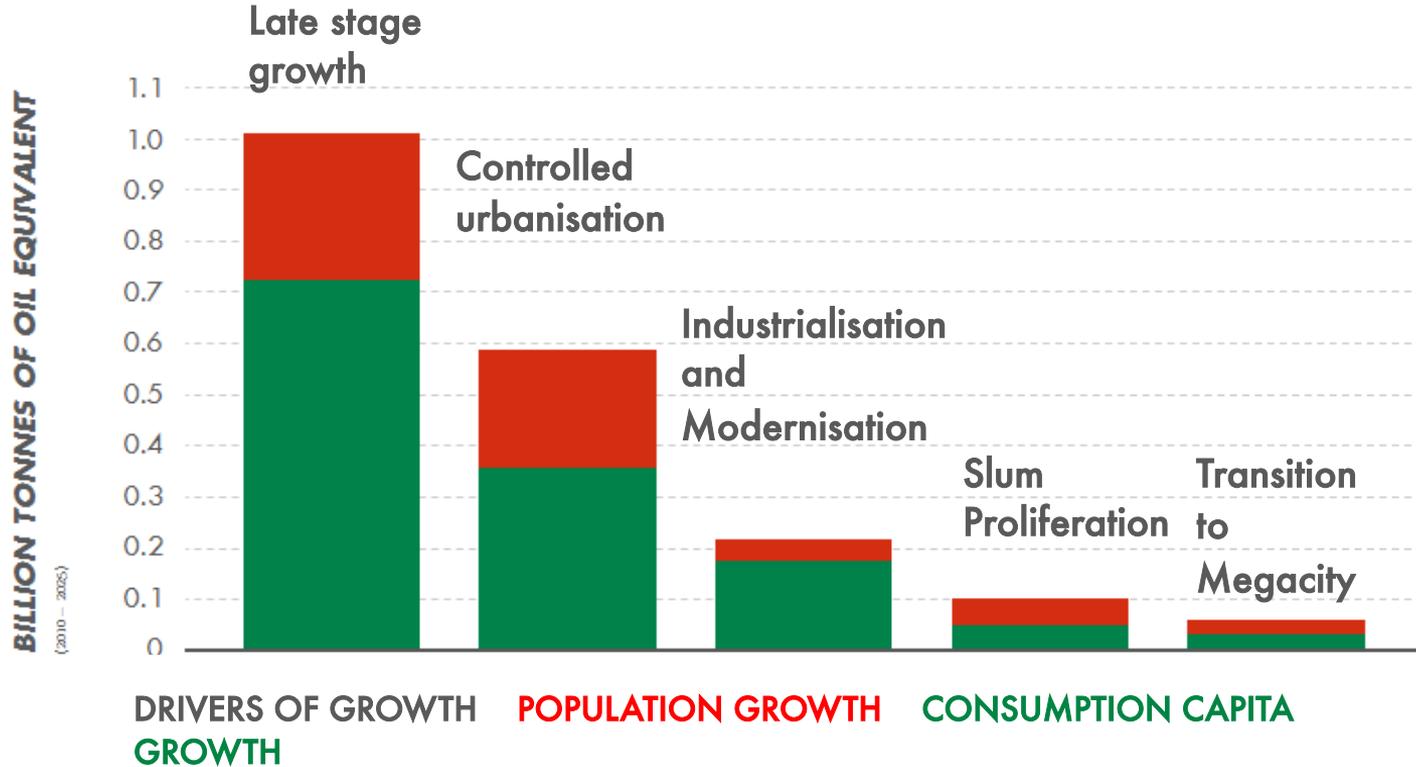
Classifying Urban Development: Pathway Archetypes



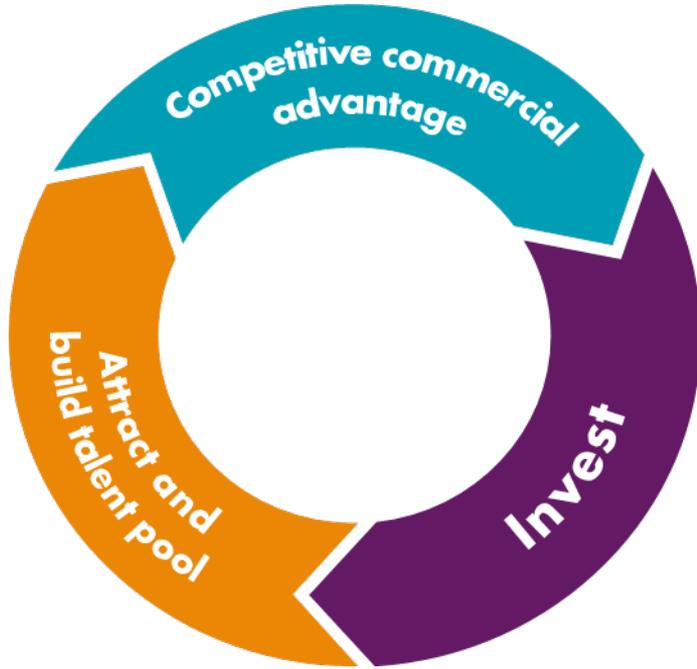
Classifying Urban Development: Pathway Archetypes



Energy Consumption Growth by City Pathway



Lesson Three: Understanding Urban Transitions



**ROOM TO
MANOEUVRE**
e.g.
Singapore



**TRAPPED
TRANSITION**
e.g. Detroit



Lesson Four: Five Factors Enabling Room to Manoeuvre

1

Flexible
planning



2

Consistent
investment



3

Implementation
capacity



4

Building
trust



5

Collaboration
architecture



Lesson Five: Insights from the China Opportunity

Feasible to accommodate projected urban population growth within current city boundaries – compact and efficient cities.

DETAILED CITY INVENTORY

BUILDING EFFICIENCY

REDUCED PLOT SIZES

FLEXIBLE ZONING

TRANSIT-ORIENTED DEVELOPMENT

DYNAMIC DENSITY

MICRO-GRIDS

TIME-ORIENTED DEVELOPMENT

INTEGRATED INFRASTRUCTURE

RETROFITTING HISTORIC CORE

A nighttime photograph of a city skyline, likely Detroit, featuring several illuminated skyscrapers. A semi-transparent white rectangular box is overlaid on the lower half of the image, containing the title text. The background shows various buildings, including one with a sign that says "OUTSOURCE TO DETROIT".

Detroit Motor City 2.0

Enabling Room to Manoeuvre?

Lesson Six: Broaden the Frame

And/ And Perspective

- Efficient infrastructure and efficient end use
- Clean energy and green energy
- Top down and grass roots
- **Policy makers and Business and Civil society**

Lesson Seven: Consider Detroit Scenarios



