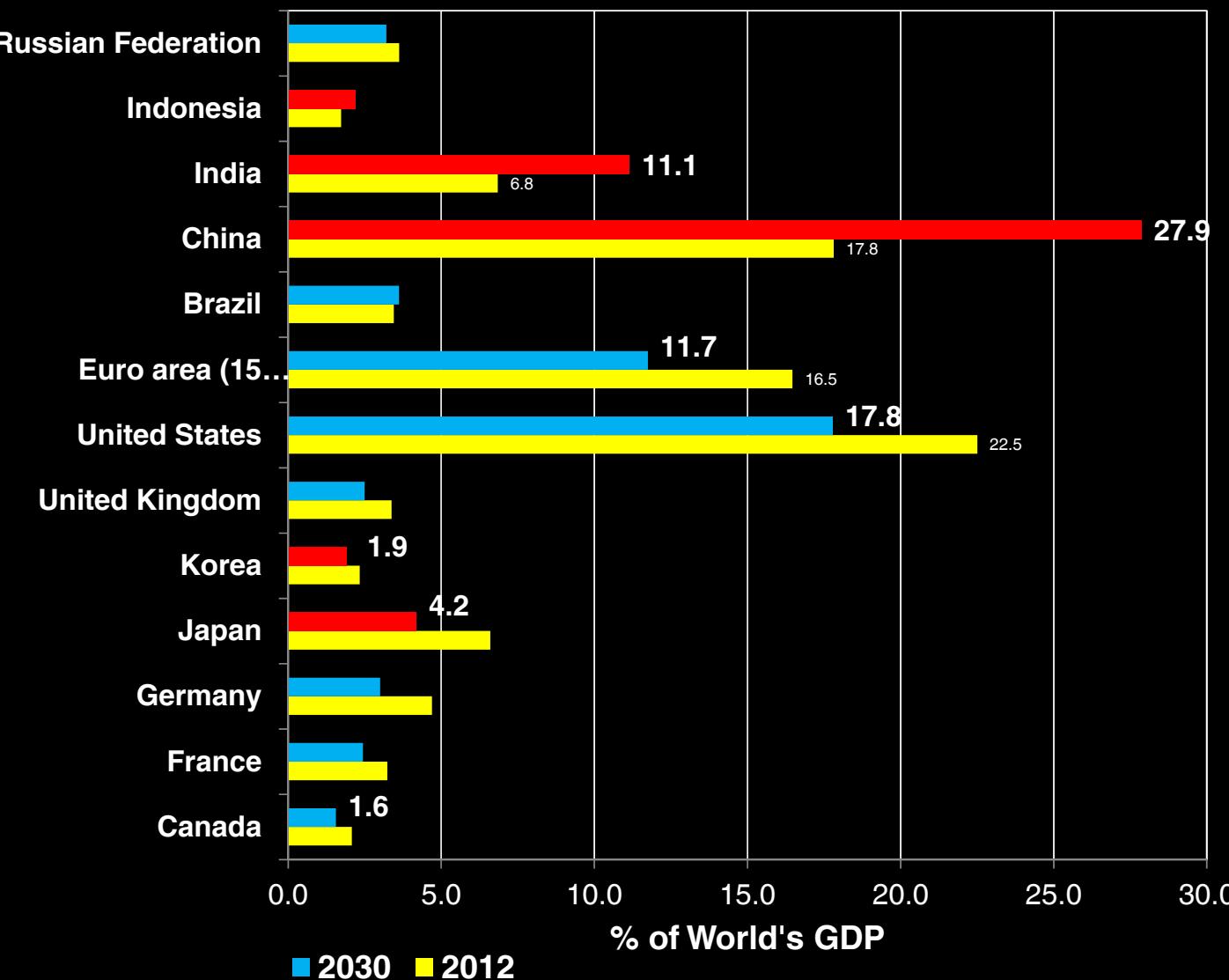


Capturing Opportunities for Innovation in Asia's Metropolitan Regions

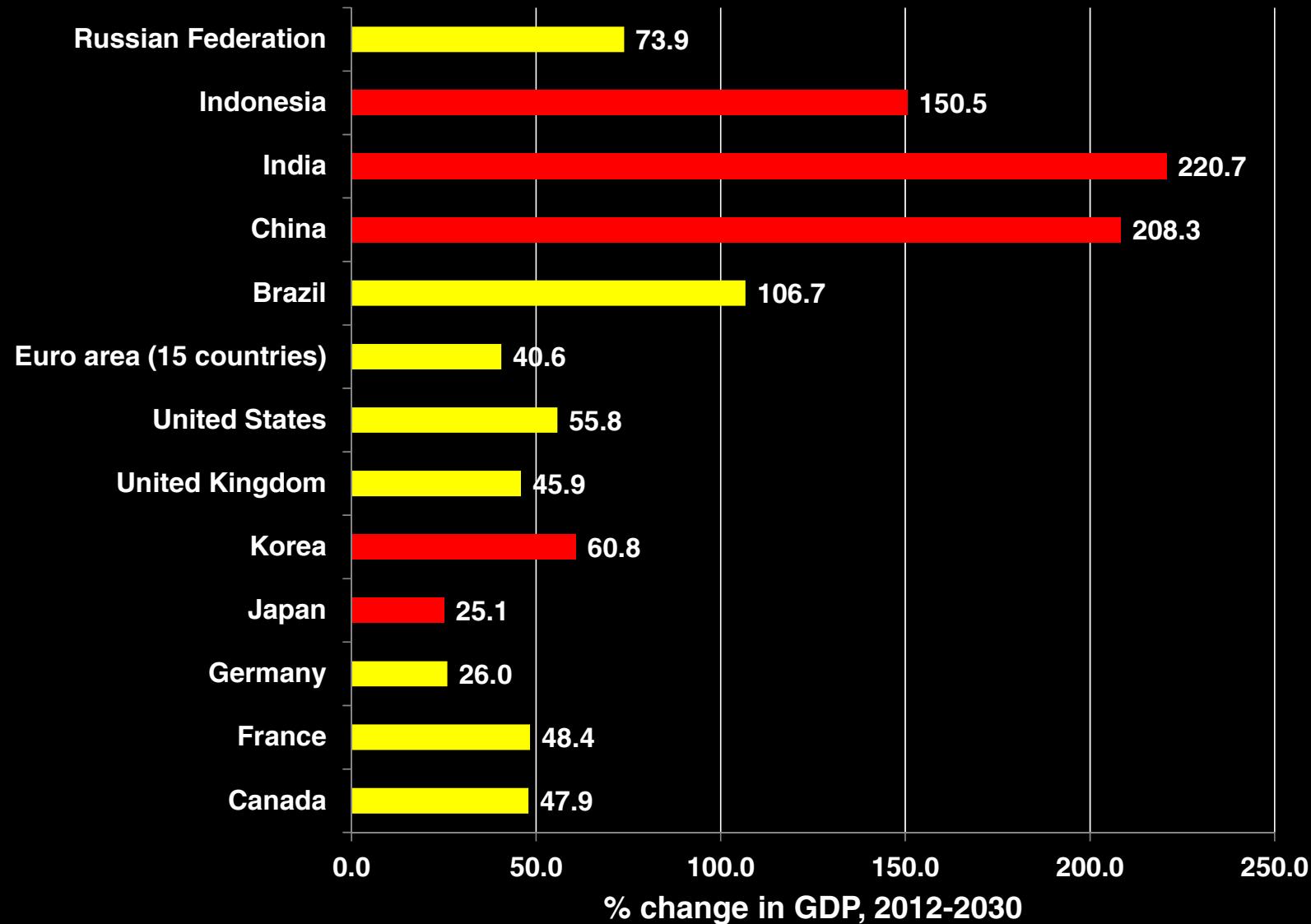


Edward Leman
President, Chreod Ltd.
27 March 2013



Source: OECD (2013)

Share of World's Gross Domestic Product (2012, 2030)



Source: OECD (2013)

India's and China's GDP will more than quadruple by 2030



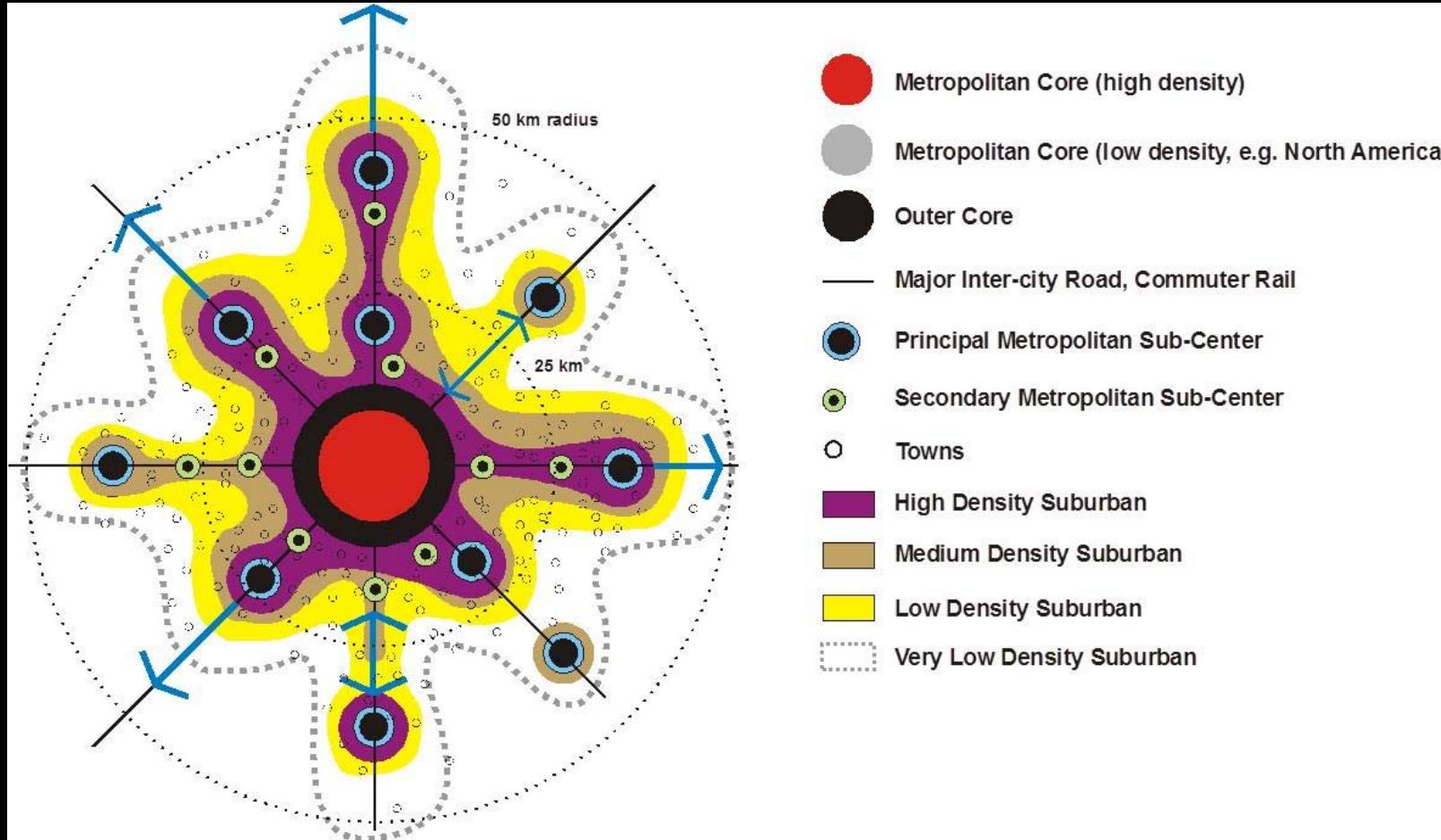
Asia's economic growth will not happen in the countryside...



Cities will be where Asian economies grow...



Urbanizing Asia, 2012



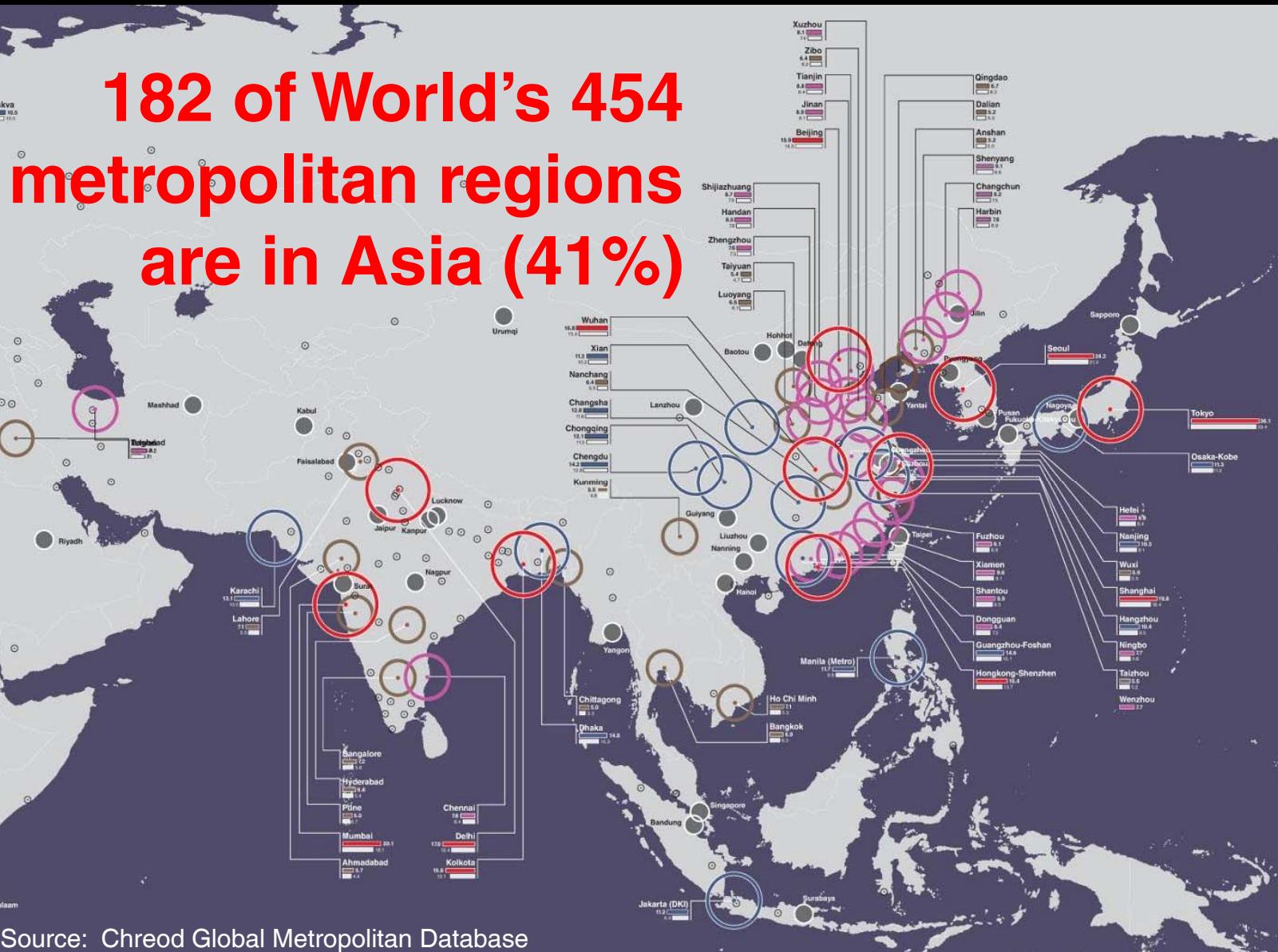
Metropolitan Regions are key drivers of Asia's economic growth.

Source: Chreod Ltd.

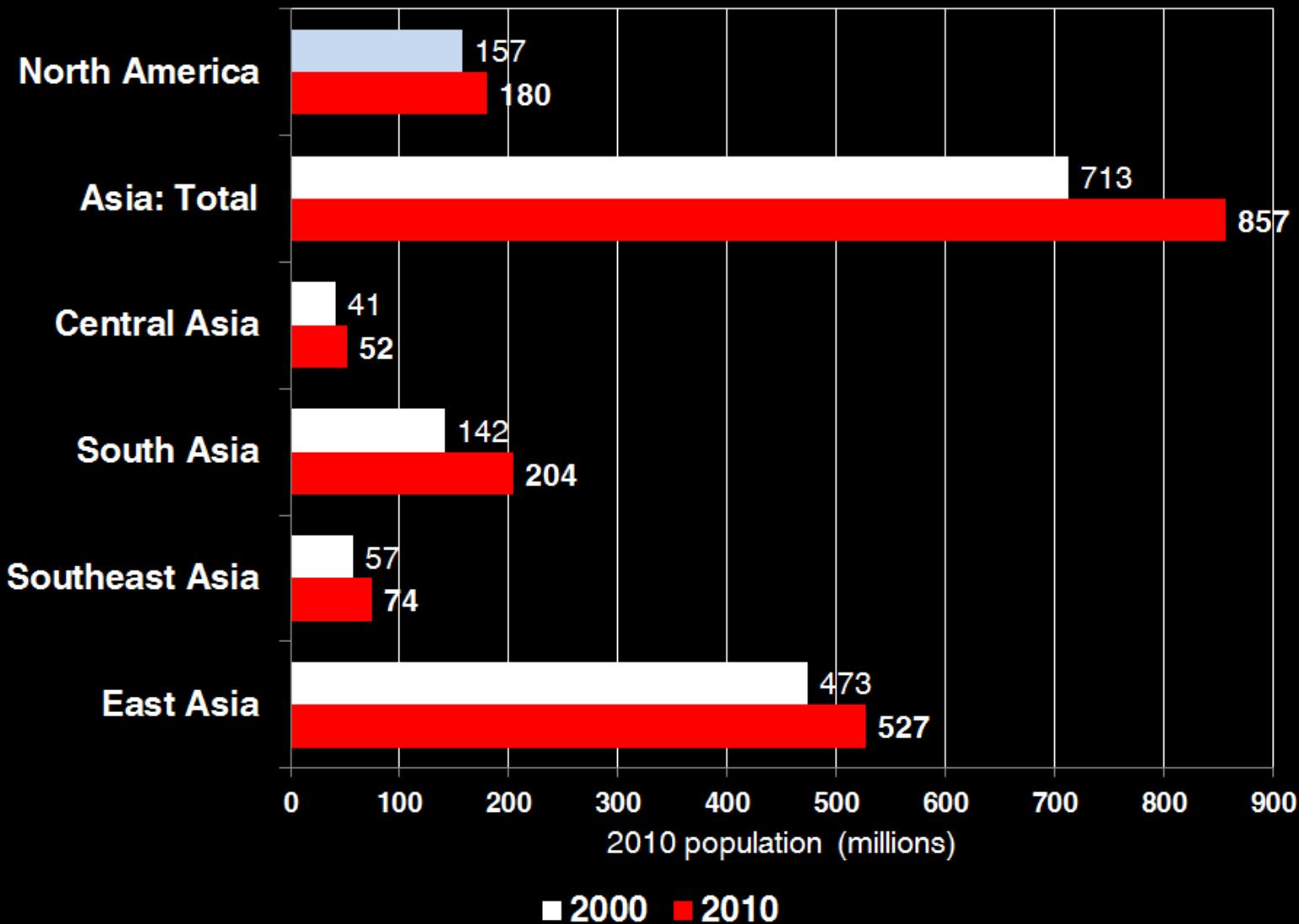
Generalized Structure of Metropolitan Regions



Pearl River Delta: urban buildup area

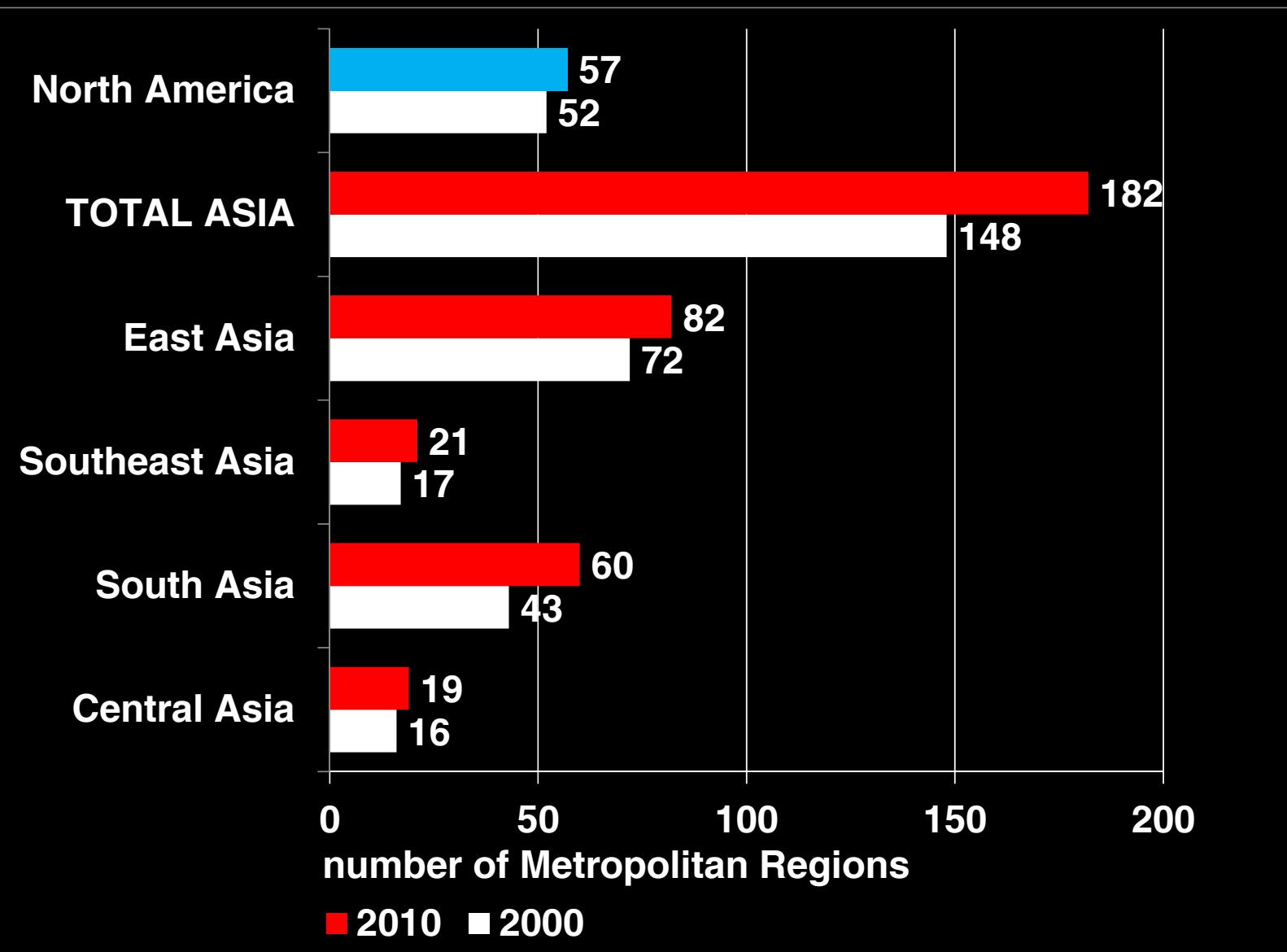


Asia's Metropolitan Regions (> 1 mn), 2010



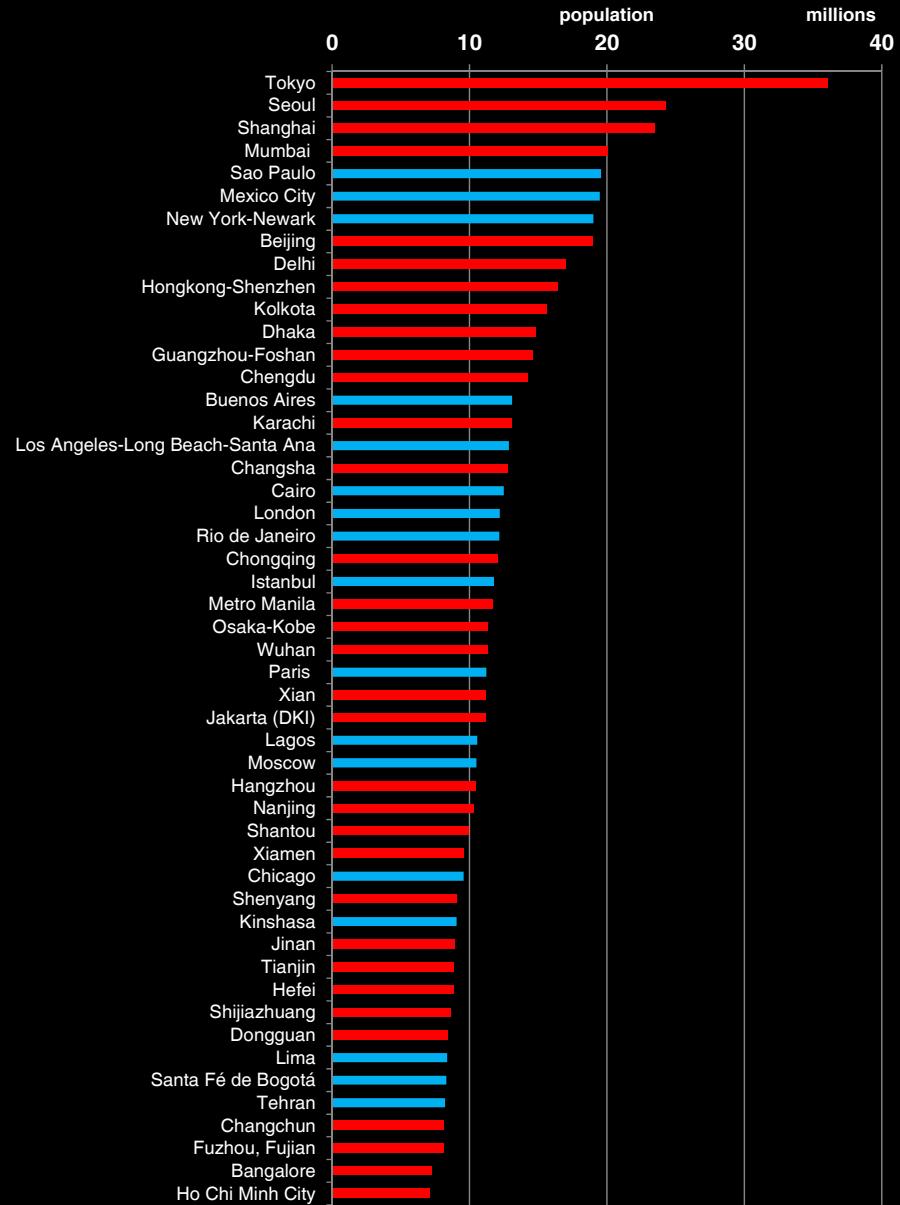
Source: Chread Global Metropolitan Database

Population of Asia's Metropolitan Regions



Source: Chread Global Metropolitan Database

Number of Asia's Metropolitan Regions

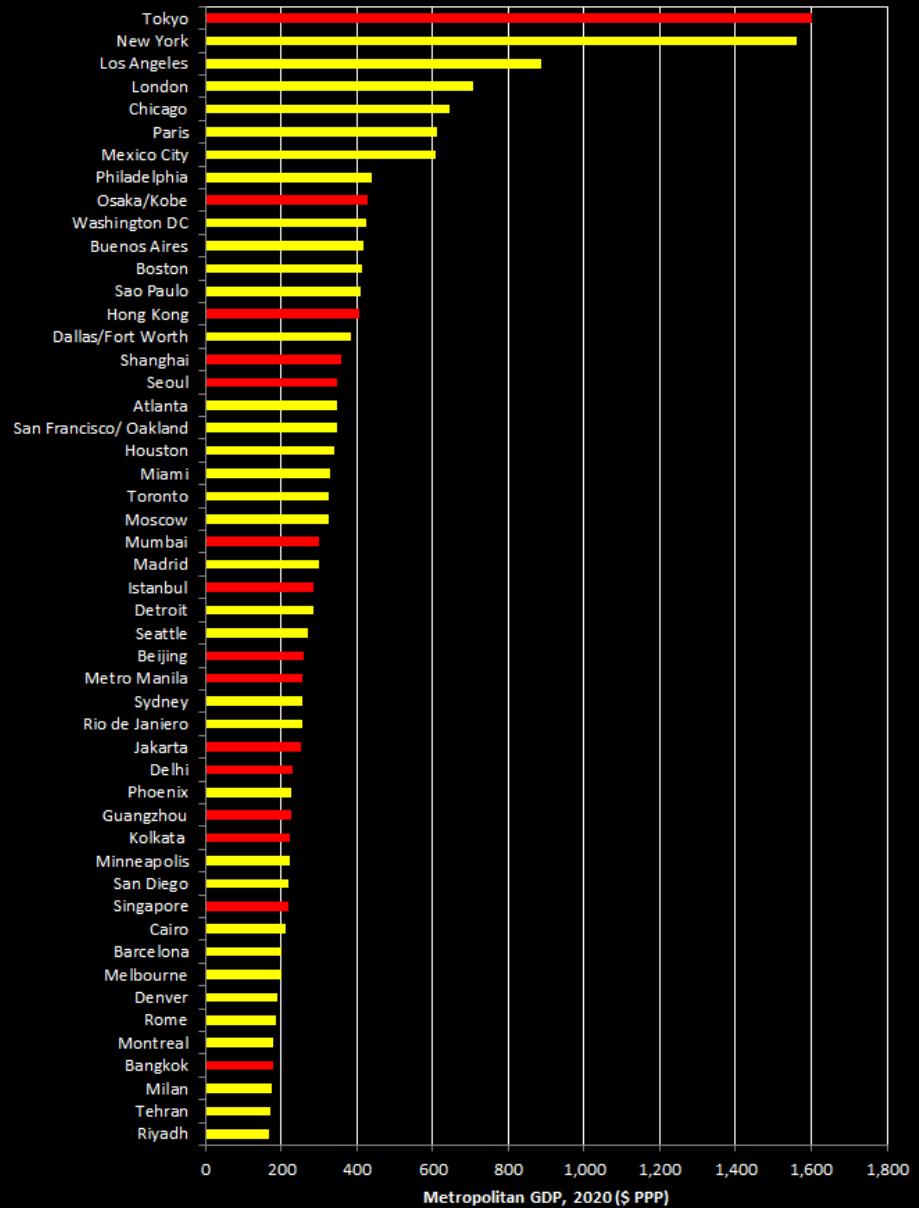


35 of the
world's largest
metropolitan
regions are in
Asia; 21 are in
China

Source: Chreod Global Metropolitan Database

World's Most Populous Metropolitan Regions, 2010



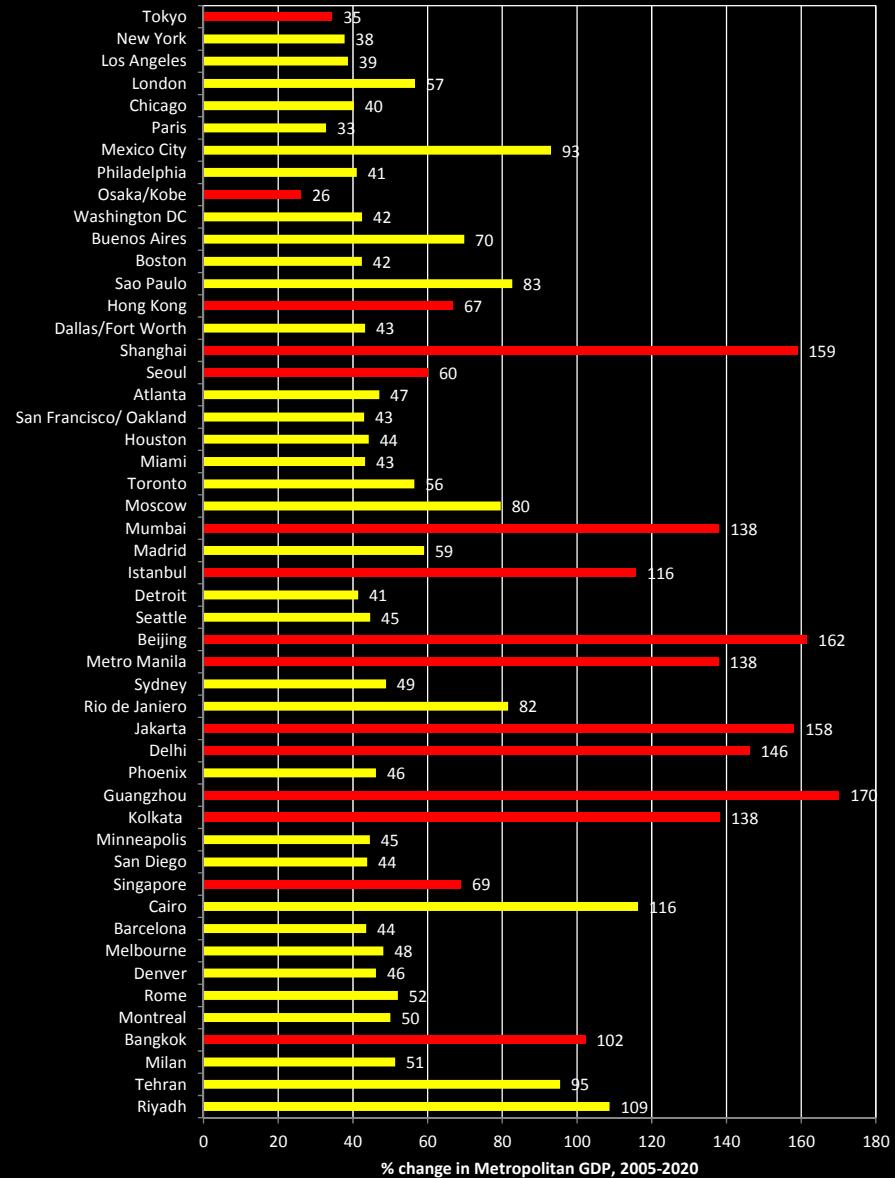


13 of the world's largest metropolitan economies in 2020 will be in Asia; 19 in North America

Source: PriceWaterhouseCoopers. UK Economic Outlook for March, 2007

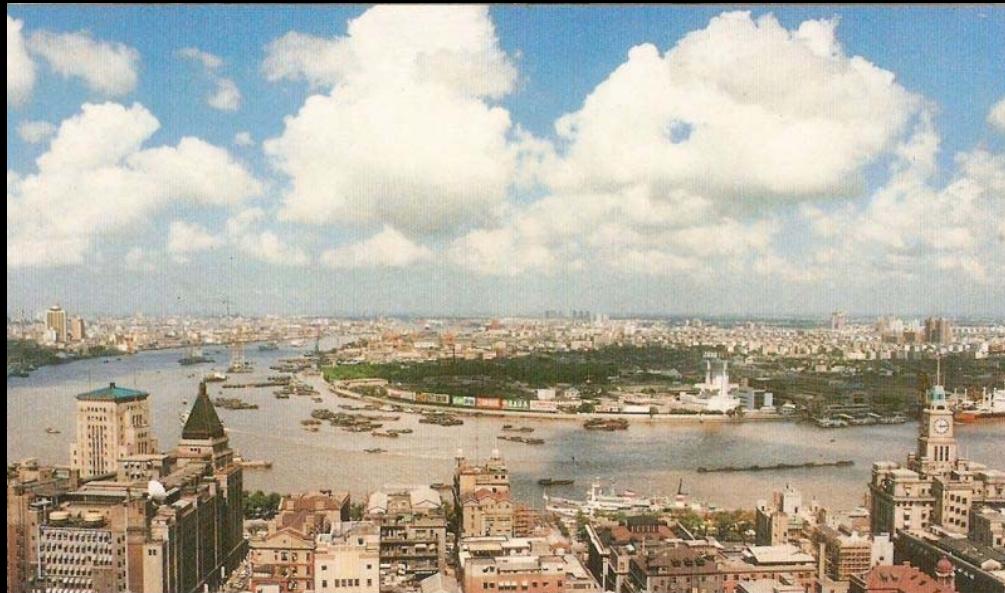
50 Largest Metropolitan Economies, 2030

**fastest
growing
metropolitan
economies in
the world are
in Asia: 10 will
more than
double their
GDP from
2005-2020**



Source: PriceWaterhouseCoopers. UK Economic Outlook for March, 2007

Per cent Change in Metropolitan Economies, 2005-2020



1988



2012

Shanghai Pudong

Not IF but HOW to engage with Asia's metropolitan regions

**Canada's engagement
must be demand
driven...and go beyond
oil, gas and minerals.
We need to better
understand market
demands.**

What is needed?

- lots of sustainable infrastructure
- lots of sustainable buildings
- huge mobility (transport) improvements within and between cities
- lots of investment
- innovative financing

Growing middle class demanding:

- **better environmental quality**
- **safer cities (natural disasters)**
- **smarter cities (energy)**
- **affordable cities.**

Asia's metropolitan regions need to be **hugely innovative** if they are to become environmentally, socially, and financially sustainable.

Canada's innovators need to engage with Asian metropolitan regions:

- **companies**
 - **design professions**
 - **city governments**
 - **public agencies**
 - **universities.**
-

**Federal government
should take on a
coordinative and
supportive role in
Canada's engagement
with Asia's metropolitan
regions.**



**two parting ideas
on moving
forward...**

- EDC and CPP Investment Board spearheading a \$1 bn innovative urban investment fund to support Canadian innovators in Asia's metropolitan regions

- NRC, SSHRC, IDRC, companies to capitalize a \$100 mn Urban Innovation Fund to support commercial and academic R+D on sustainable development of Asia's metropolitan regions.

**Sorry I couldn't make it to
today's session. Best
wishes from Beijing for a
productive discussion!**

