FROM GLOBAL TO LOCAL CLIMATE ACTION AND BACK

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- 1. Bangkok Green Growth Case Study
- 2. How to enabling cities to go green?-- -- the role of the UNFCCC



- Governance matters
 - urgent need for multilevel governance to empower and support sub-national action
- COP21 UNFCCC could play a role
 - using its power to influence collective action at the nation-state level
- Tools need to be sharpened and used
 - standardised GHG inventories
 - capacity for science policy assessment

GREEN GROWTH IN BANGKOK, THAILAND

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Presentation at OECD Working Party on Urban Policy 28 April 2015, OECD, Paris







Source: OECD Secretariat

Source: Marome, W. (2012), "Bangkok: Data on Coastal Cities, Needs, Opportunities and Challenges", Presentation made at Academia Sinica, Taipei.



Green Growth in BMR: Potential and challenges

- Strong long-term growth potential, but also challenges
 - Catch-up held back by skill shortages
 - Income disparities undermine social cohesion
- Obstacles to greener growth need to be overcome
 - Increasing motorisation/urban sprawl
 - Rising energy consumption/reliance on fossil fuels
 - High flood risk
 - Relatively high levels of untreated wastewater
 - Landfilled solid waste

Improving public transport through metropolitan land-use policies

Key recommendations:

- Encourage
 development along
 mass transit lines
- Introduce area development plans for mass transit stations
- Promote greater reliance on canal transport and bicycles



Source: Thailand's Department of Land Transport

Street layout facilitates congestion





Bangkok _____



Fostering renewable energy use and energy efficiency in buildings

Key recommendations:

- Continue to phase out fossil fuel subsidies
- Encourage use of rooftop solar panels and waste-to-energy plants





Source: BMA (2008), The BMA Action Plan on Global Warming Mitigation 2007 – 2012.

Improving solid waste management

Key recommendations:

- Accelerate domestic solid waste separation
- Improve and make greater use of **recycling**
- Promote waste-toenergy plants



Source: Yoo and Yo (2014), "Evaluation and development of solid waste management plan: a case of Seoul for past and future 10 years", Springer Japan; City of Paris (2013), *Rapport Annuel sur le Prix et la Qualité du Service Public de Gestion des Déchets à Paris*", Paris, France; OECD (2013b), *Green Growth in Stockholm, Sweden*, OECD Green Growth Studies, OECD Publishing, Paris; Bangkok Metropolitan Administration (2014), Policy and Planning Division, Department of Environment,, Data directly collected from BMA

Treatment of municipal solid waste collected

Strategic and implementation levers

- **Metropolitan commissions** informed by BMR-wide performance indicators and supported by metropolitan funds
- **Community-based actions** to leverage local knowledge and expertise
- Attracting private investors (e.g. green municipal bonds) and diversifying sources of revenue (e.g. wastewater tariffs)

ENABLING CITIES TO "GO GREEN" -- WHAT ROLE FOR UNFCCC?

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ELEMENTS OF A POLICY FRAMEWORK

Goal: Scale-up private investments in sustainable transport infrastructure, while ensuring the provision of social, economic and environmental public goals

Policy checklist for action Leadership, strategic goal Long-term goal-setting 1. setting and alignment for a Policy alignment and multilevel governance green economy Stakeholder engagement 2. Strengthen markets and enabling Sound investment policies ۲ policies to incentivise green Market-based instruments • infrastructure investment **Standards** • Land use planning and zoning policies Risk-sharing business models (PPPs) 3. Adopt financial regulations and instruments to finance green Innovative financial tools (e.g. green bonds) • investment Land value capture and other incentives 4. Human and administrative Human resources, capacity building including in private sector ۲ capacity for green development • Administrative capacity, including compliance Monitoring and evaluation, risk assessment, climate • information 5. Promote green business conduct "Soft" policy instruments e.g. education, information ٠ and consumer engagement Corporate reporting and goal-setting, consumer engagement ۲

Source: Ang and Marchal, 2012 OECD "Engaging Private Sector in Sustainable Transport"



Interactions between Infrastructure Sectors in Virtuous Cycle of Low Carbon Growth in China (adapted from Kennedy and Corfee-Morlot, 2012, 2013).



Interactions between Innastructure Sectors in Virtuous Cycle of Low Carbon Growth in China (adapted from Kennedy and Corfee-Morlot, 2012, 2013).



(adapted from Kennedy and Corfee-Morlot, 2012, 2013).

Why can't cities do it alone?

- National or meso-level institutions essential authority, e.g.
 - Transportation and energy
 - Water basin management and land use
 - Access to capital markets, ability to tax and raise revenues
- Systemic changes in infrastructure outside of urban area
- Administrative boundaries vs need for metropolitan areawide action as well as national action
- Political mandates of leaders and stability
- Nation-states negotiate and commit internationally
- Need for "fit for purpose" :
 - Institutions for multilevel governance
 - Tools (standardised GHG inventories; science-policy processes)

"Fit for purpose" institutions -- multilevel governance

Vertical governance

• National governments empower, enable and support cities to act

Horizontal governance

- Local governments or communities unite to comanage a single environment-development challenges in a single metropolitan area
- Engagement of full range of stakeholders (private and public, small and large, expert and non-expert)
- Networks of local governments form share experience and learn from each other (e.g. Covenant of Mayors, C-40, ICLEI, etc)

Global Protocol for Community Based GHG Inventories (GPC)

- Launched in Rio, December 2014
- Tested and piloted in more than 100 cities worldwide
- Has not (yet) gained international or national government recognition
 - An opportunity to support INDCs?
- Supports good data, robust measurement to better work with national government, private sector



WITH GPC



Science policy competence – what is needed?

- Two-way communication between users and producers of knowledge
- Build in local knowledge
- Partnerships with local universities
- Stable funding and mandates (eg from national government)
- Horizontal linkages across metropolitan areas

From two-step to three-step governance of climate change?

- Putnam: two-level game in international governance
 - national politics shape international agreements and vice versa
- >> How to make this 3-level and do we want to?
- Could national governments commit through UNFCCC :
 - to strengthen partnerships, recognise and empower local governments to "go green"?
 - to recognise GPC and promote and integrate it as a tool across its city governments?

THANK YOU

Visit OECD Green Cities website:<u>www.oecd.org/greencities</u>

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