

IHS: Institute for Housing and Urban Development Studies, Rotterdam, the Netherlands

Working with cities since 1958 !

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Dr. Ogenis Brilhante
IHS Senior environment and infrastructure specialist
Third Asia Think Tank Summit
Manilla, ADB 20-22 May 2015

We are

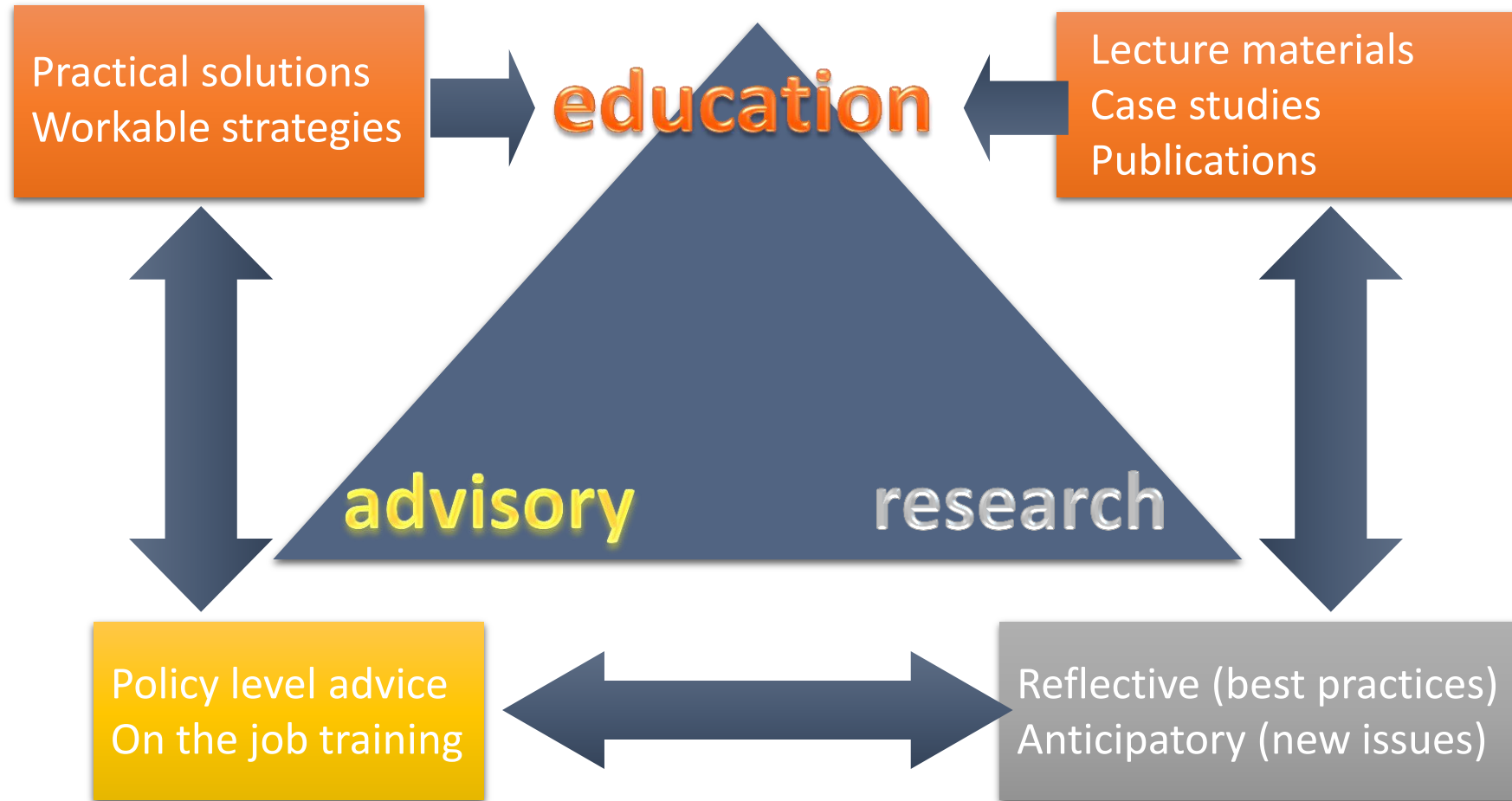
- **An institute of the Erasmus University**
- **High level education, advisory and research institute on urban management and development**

Leads cities into the future !

Staff: international and multi-disciplinarian team

- 40 permanent staff members and 25 associate fellows
- IHS team:
- Economists, planners, engineers, architects, sociologists, geographers, education, environmental, climate change, energy and management specialists from around the world

Synergies in IHS activities



Urban Education products

PHD, MSC, Post-graduate Diploma Courses
Interchange program with Brazil

Our education, research and advisory work is organized around our 12 months MSC program on Urban Management and Development

It comprises six sectors/specializations

Urban Housing and livelihoods

Urban environment & climate change management

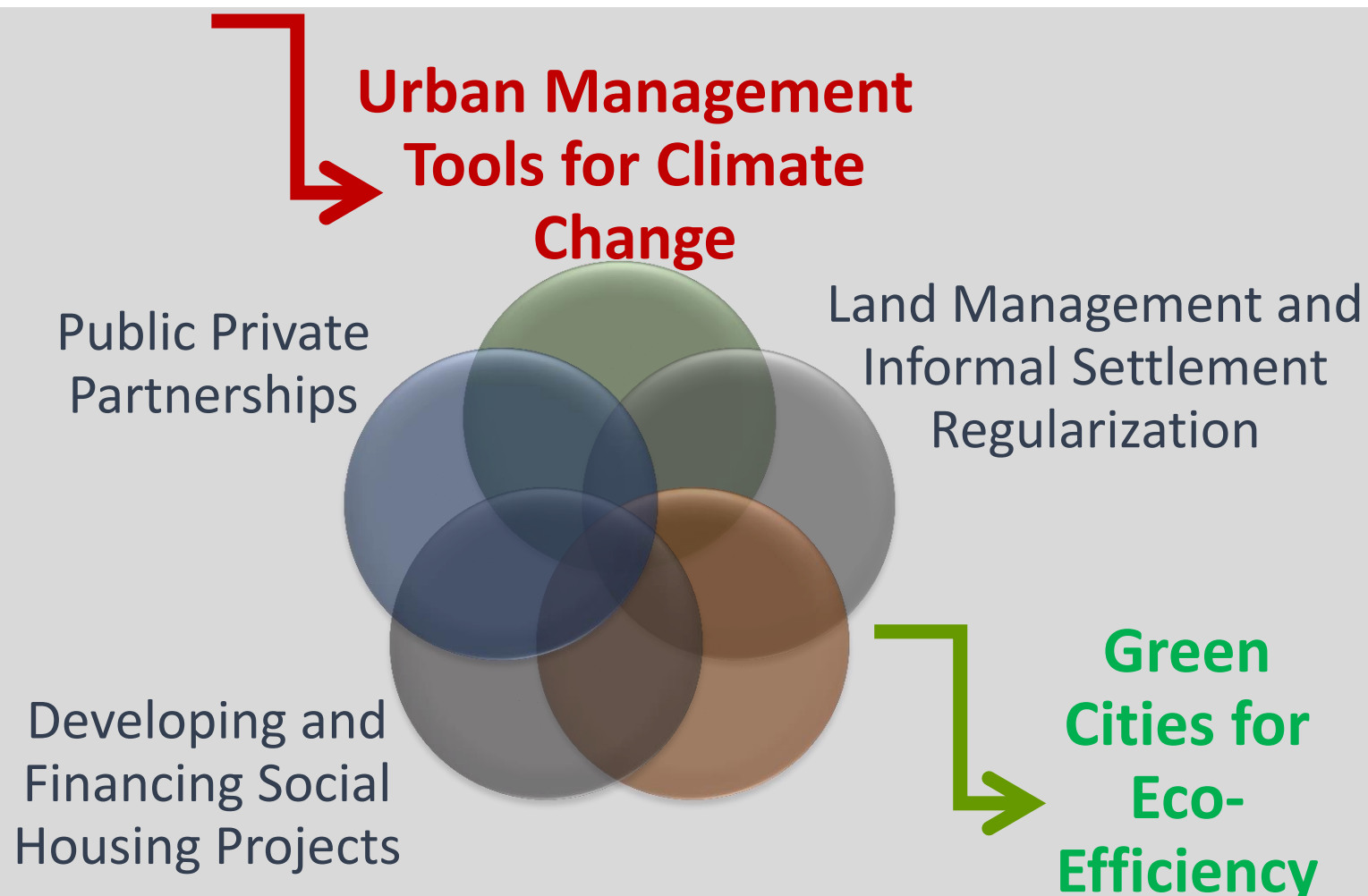
Integrating planning and urban strategies

Urban land development

Urban competitiveness and resilience

Managing and financing urban infrastructure (Ogenis Brilhante)

Diploma courses (two to four weeks duration)



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Emerging areas on cities

Green city

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IHS green city framework concept



Green city is a sustainable and healthy city.

A green city is a smart city but not all smart cities are green

Legend

- Entry points or distinctive aspects)
- Key thematic
- Enablers/facilitators

List of some IHS recent products, projects and ongoing researches

- **Tools/manuals**
- **How green is your city? (tool for measuring environmental performance of cities)**
- **Green city action planning manual which is implemented using the results of the tool how green is your city**
- **CLIMACT Prio tool. Decision support and capacity building tool for prioritising climate mitigation and adaptation measures.**
- **Researches**
- **Strengthening supply chain and stimulating demand for sustainable/green housing products in Nepal. EU funded and implemented with UN-Habitat. 2013-on going.**
- **SMART_NET: Evaluating the performance of Smart Cities in the Global Economic Network**
- **Integrated Economic Assessment of Urban Climate Resilience Measures in Ho Chi Minh City (Vietnam National University) (2012-ongoing)**
- **Projects**
- **Nepal Switch-Asia (green home) Programme: promoting sustainable housing in Nepal (EU funded/UN Habitat) on going**
- **Support Melaka government to implement a green city action plan funded by ADB (about to start)**
- **Strengthening higher education in Urban Sustainability and Transitions towards internationalization of Academic Institutions and Networks (SUSTAIN) (2013-2016). European Commission**

How ADB could work with COEs

- Mapping the COEs areas of expertise and their respective key specialists
- Create a virtual platform where ADB and the COEs can communicate share their projects, researches and interact with each other.

How I see my contribution to the partnership with ADB

- Help to identify at IHS the key issues of each thematic area that can be important for ADB projects.
- Help to initiate/facilitate the contact of ADB and other COES with our thematic area specialists.
- Provide capacity building, research and advisory work in my own field of expertise which covers environment, green infrastructure and green city issues

PowerMatching City: the first smart city pilot demonstration project in the Netherlands and its lessons (documented experience for our education purpose)

- The demonstration pilot project started in 2009 in the area called Hoogkerk in Groningen including 40 householders.
 - The residents used solar panels, micro CHP plants and heat pumps to provide their own electricity and heat their own water using the sun, gas and geothermal heat.
 - Smart software to share electricity with neighbors and activated household appliances at times that the supply of electricity from the local grid was optimal was used in pilot area
- **Pilot project results**
- Smart energy systems demonstrated to be technically feasible and that energy flexibility made economic sense.
- **Conditions for large-scale implementation**
- Standardization of the smart and flexible energy system needed to be implemented in order to reach large scale consumers.
- The standardization will allow to reduce the costs of connecting the households in the smart grid as well as to lower the price of the smart energy services.

Smart grids in the Netherlands today

- More than 30 companies are now operated services related to smart grids
- Innovative products and services being offered are
 - new business models, back-office systems, and smart energy meters.
- The companies are classified according to their expertise:
 - Smart-grid technology engineering
 - Grid operation
 - Consultancy related to smart grids
 - IT solutions concerning smart grids