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PUBLIC PRIVATE COLLABORATION ON BUILDING ENERGY EFFICIENCY IN CLIMATE CHANGE MITIGATION

Jennifer Layke

Global Director, Energy Program, World Resources Institute

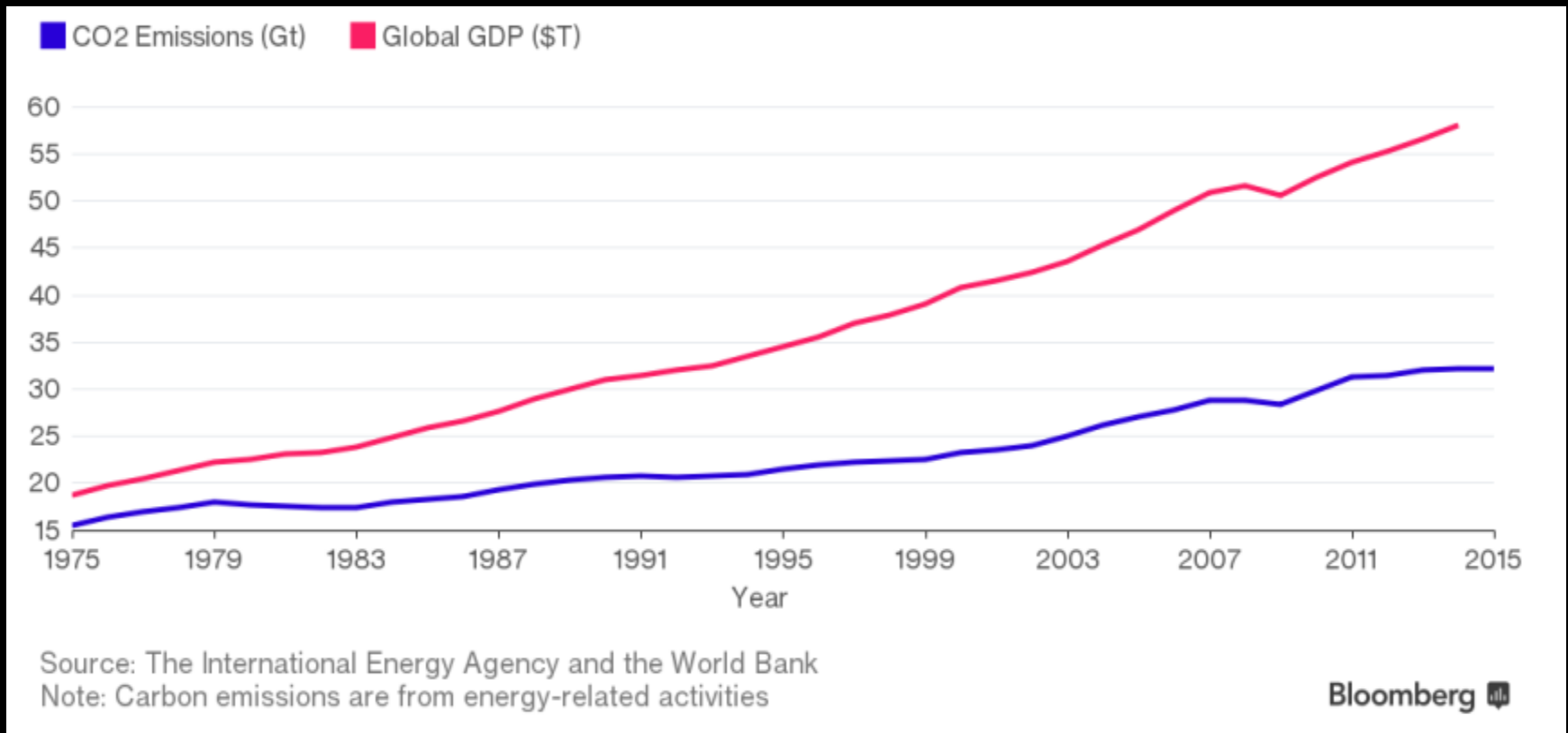
WE RECOGNIZE THE URGENCY:

- Sustainable Development Goals
- New Climate Economy
- Sustainable Energy for All
- Paris Agreement

PROGRESS NOT FAST ENOUGH

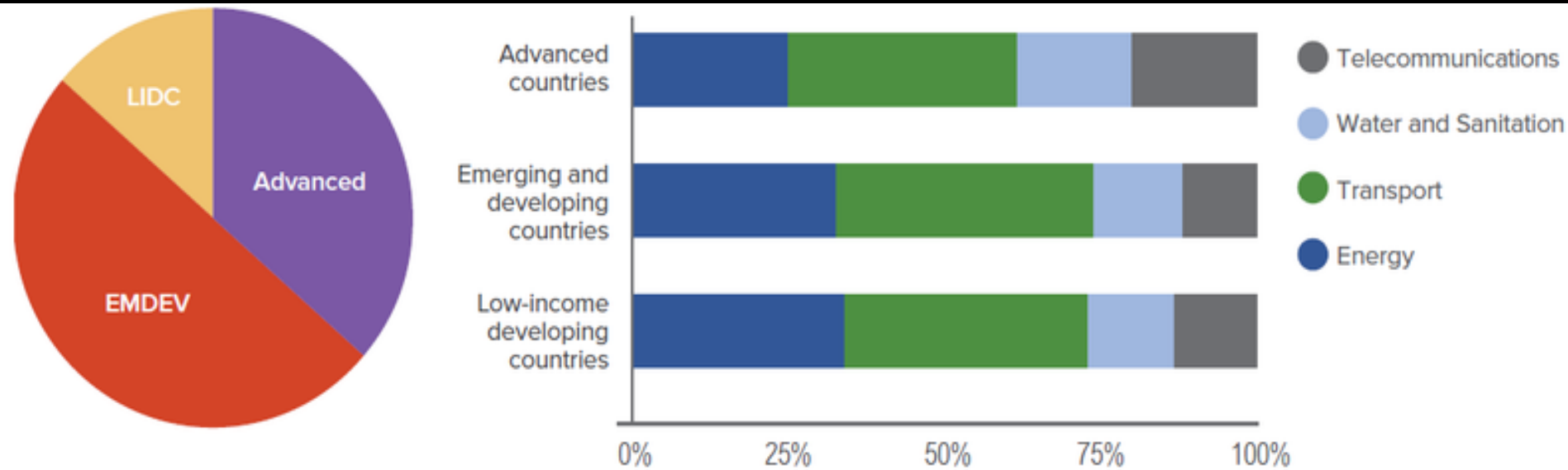
In the last 2 years, global GDP has grown while emissions stalled;

The carbon intensity of the global economy is falling, but not fast enough.



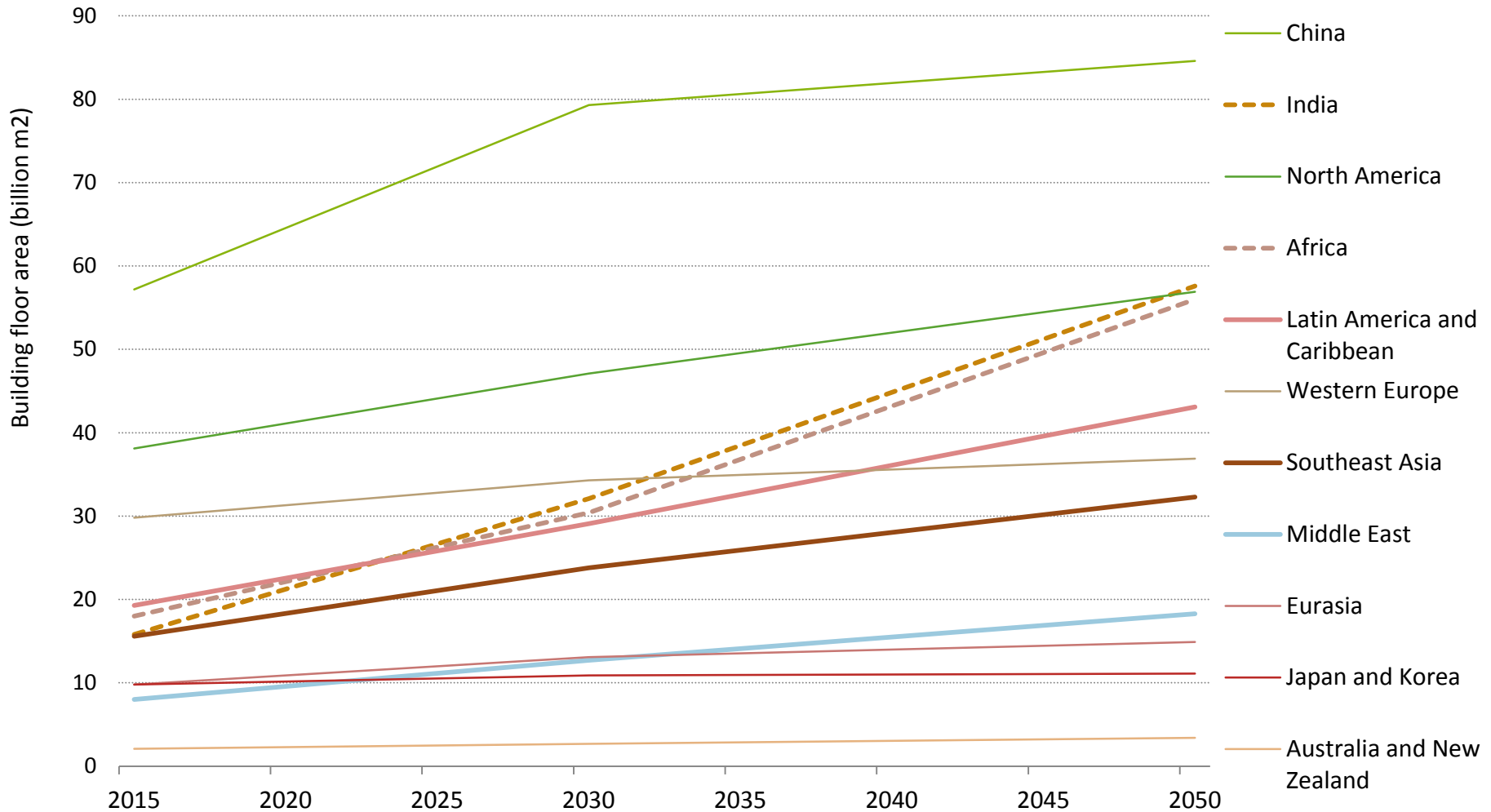
WHERE IS THE OPPORTUNITY?

70% of infrastructure investments will be made in developing and emerging economies to 2030



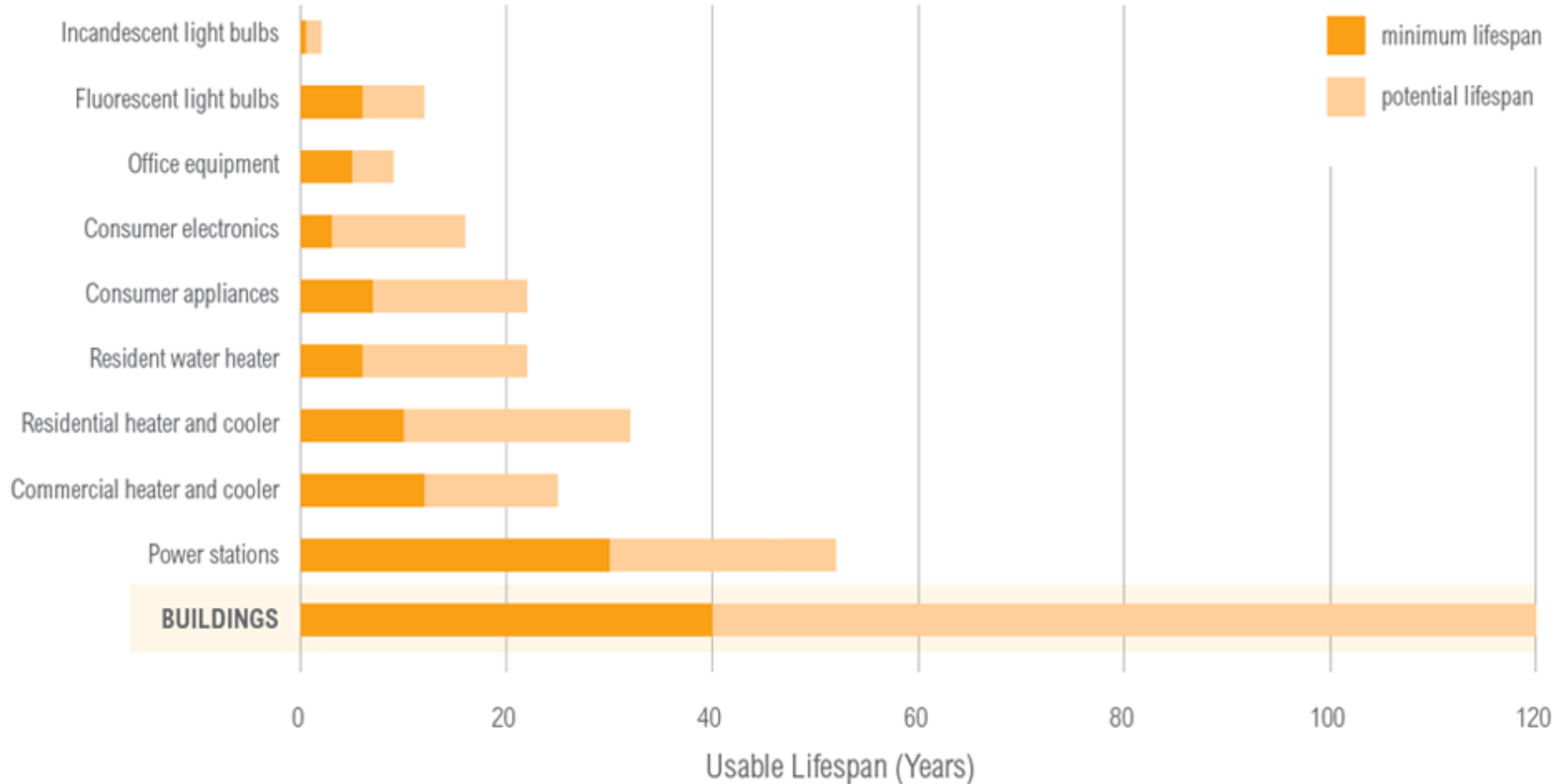
Percentage of projected infrastructure demand by sector and income group (2015-2030)

Floor Area Growth in Buildings



Major growth in buildings is expected in India and Africa (over 200%); and in Latin America, Southeast Asia and Middle East (over 100%).

WE CAN AVOID LOCK IN, BUT WE HAVE A FIRST COST ISSUE ...



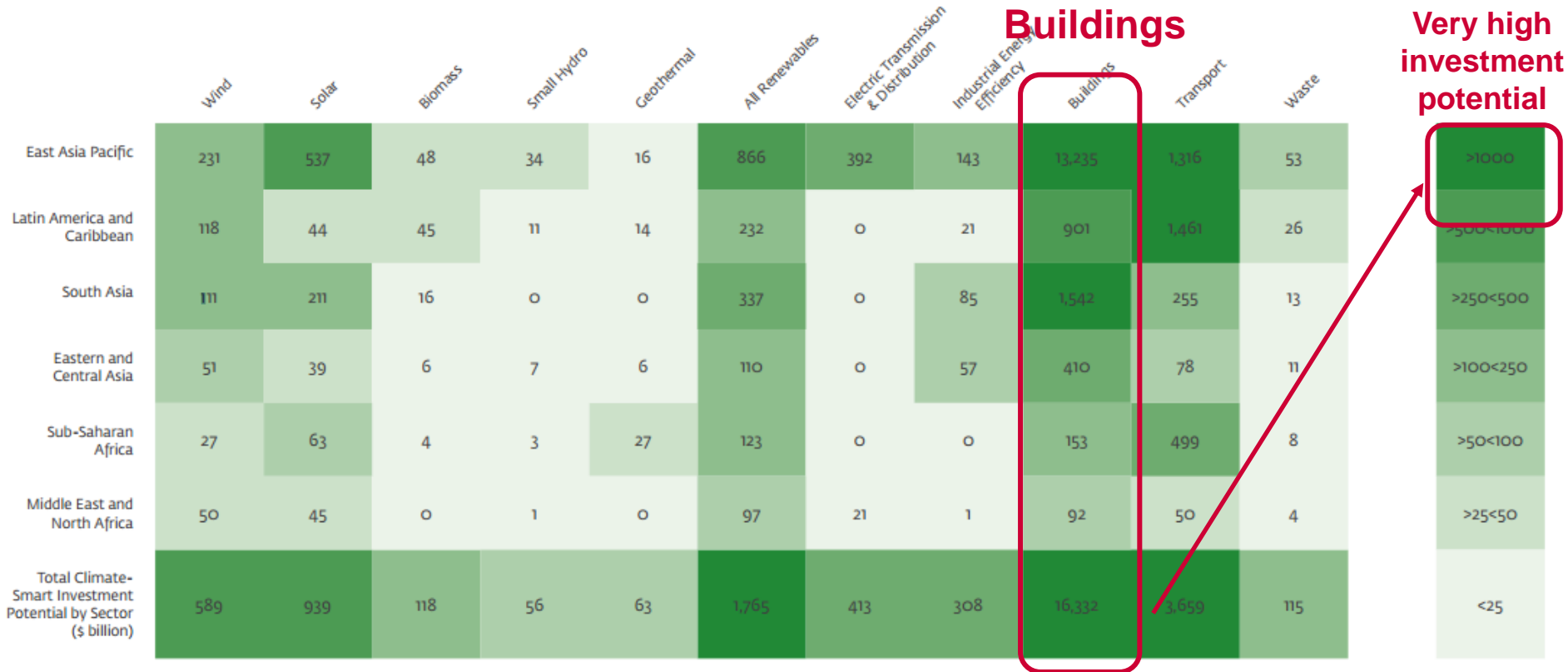
WE NEED PUBLIC PRIVATE COOPERATION TO SHIFT DEMAND AND DELIVER EFFICIENT BUILDINGS

The private sector finances, builds, owns, and operates most building stock

RECENT IFC REPORT: TREMENDOUS INVESTMENT POTENTIAL IN BUILDINGS SECTOR



SHADES OF GREEN: INVESTMENT POTENTIAL BY REGION AND SECTOR (\$ BILLION)



Latin America & Caribbean: \$901 billion investment potential

BARRIERS TO BUILDING EFFICIENCY?

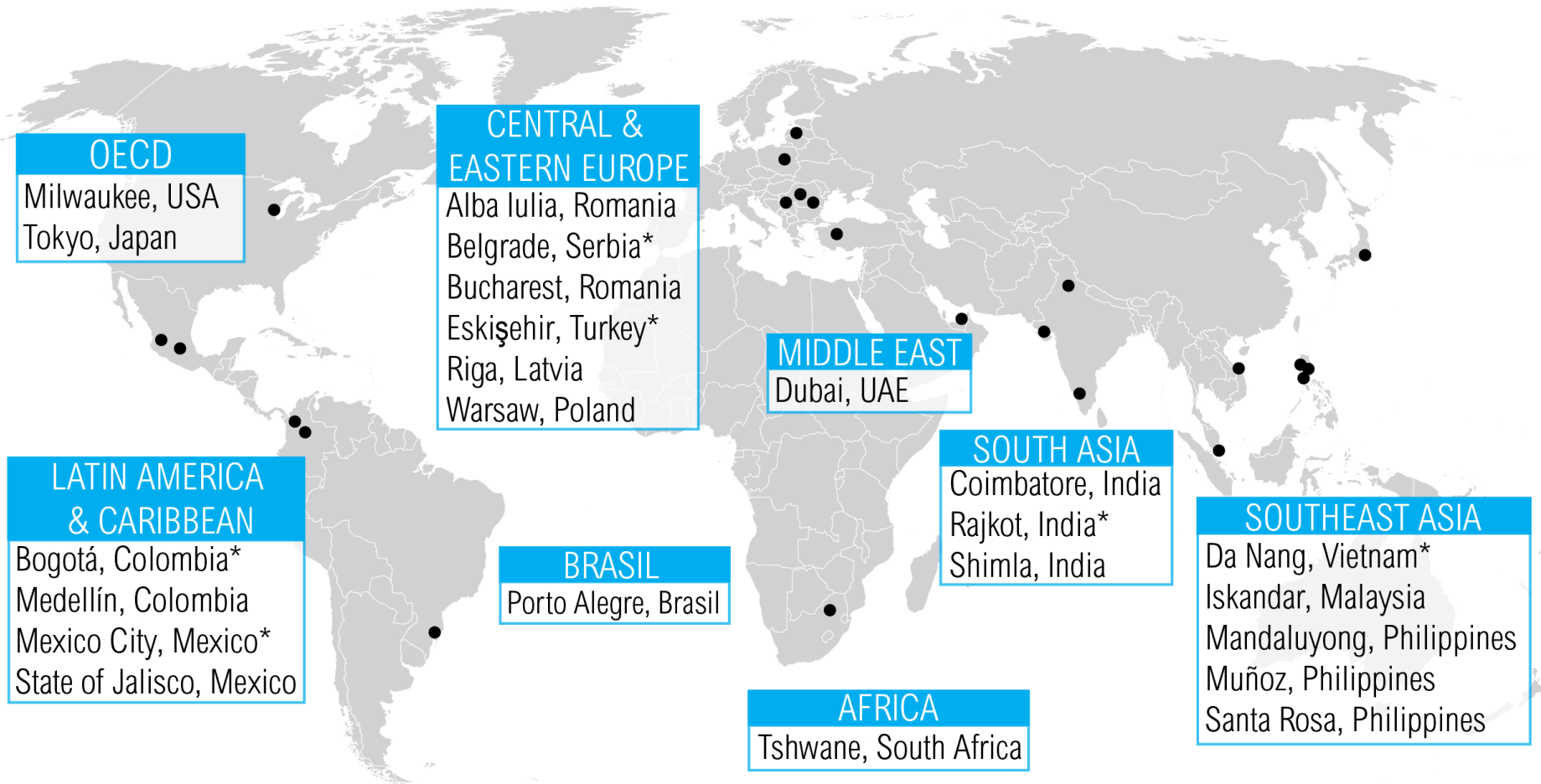
- Awareness
- Lack of technical capacity/knowledge to evaluate options
- Uncertainty around impacts/performance
- Projects may not meet internal budget requirements/cash flow
- No clear or available external funding with acceptable terms



8 ACTIONS TO IMPROVE BUILDING EFFICIENCY

POLICIES	1. CODES & STANDARDS	<ul style="list-style-type: none">• Building energy codes and product standards establish minimum energy requirements
	2. TARGETS	<ul style="list-style-type: none">• Targets to align interests and spur action to improve building efficiency
	3. PERFORMANCE INFO & CERTIFICATIONS	<ul style="list-style-type: none">• Data and certifications of market differentiation of building performance
	4. INCENTIVES & FINANCE	<ul style="list-style-type: none">• Programs and incentives to provide funding
ENGAGEMENT	5. GOVERNMENT LEADERSHIP	<ul style="list-style-type: none">• Programs to support government efficiency, including public building retrofits and innovative procurement.
	6. BUILDING OWNER & OCCUPANT ACTIONS	<ul style="list-style-type: none">• Building operations, occupant behavior.
	7. TECHNICAL & FINANCIAL SERVICES	<ul style="list-style-type: none">• Market development and skilled workforce in building construction, services & equipment
	8. WORKING WITH UTILITIES	<ul style="list-style-type: none">• Planning and programs by utility companies for energy efficiency improvement.

BUILDING EFFICIENCY ACCELERATOR... SCALING URBAN EFFICIENCY EFFORTS



*City selected for "Deep Dive" engagement



ORGANIZATIONAL PARTNERS

Coordinating partner:



WORLD RESOURCES INSTITUTE

WRI ROSS CENTER FOR SUSTAINABLE CITIES

NGOs/Associations/Multilaterals:



Service Providers/Companies:



THE ENERGY EFFICIENCY ACCELERATORS

Lighting

Global market transformation to efficient lighting



Appliances & Equipment

Global market transformation to efficient appliances & equipment



Vehicle Fuel Efficiency

Improve the fuel economy capacity of the global car fleet



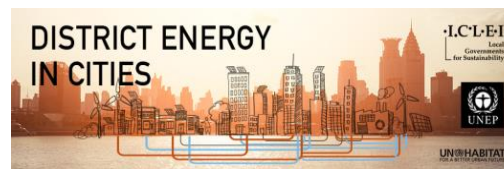
Buildings

Promote sustainable building policies & practices worldwide



District Energy

Support national & municipal governments to develop or scale-up district energy systems



Industry

Implementing Energy Management Systems, technologies & practices



IMPLEMENTATION

- Align national and local policy; evolve standards
- Build awareness and capacity – get trusted advice/knowledge
- Implementation risk – support data collection, verification, enforcement
- Incentives for change; financial & market-based
- Dedicate funding & provide budgetary guidance

Jennifer Layke
Global Director, Energy Program
World Resources Institute

Jennifer.layke@wri.org

Twitter: @WRIEnergy

wri.org/buildingefficiency

