

Global Alliance  
for Buildings and  
Construction

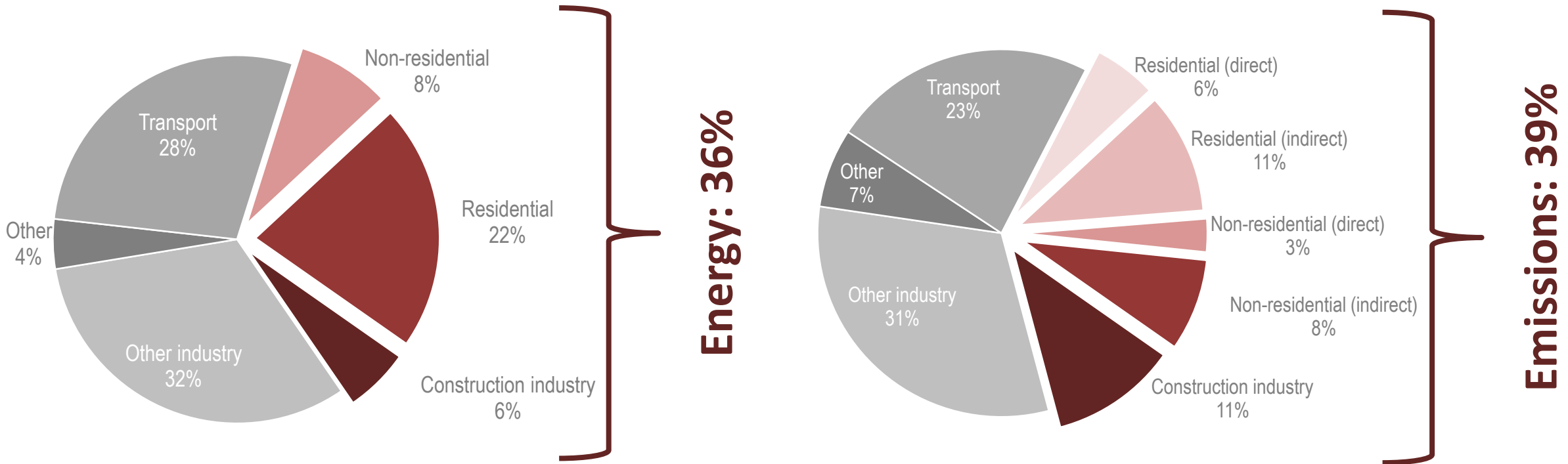
GlobalABC / UNEP – Wednesday, 14 October 2020

**Global Alliance for Buildings and Construction**



**Tools for moving to scale: Regional Roadmaps  
and MPGCA pathways**

# Why is building sector decarbonization so critical? <<



**We can't reach the Paris Agreement Goals without decarbonising buildings**

# Buildings: Key to sustainable development



Thermal comfort

Affordable housing

Health and wellbeing



Renewable energy integration

Clean energy services

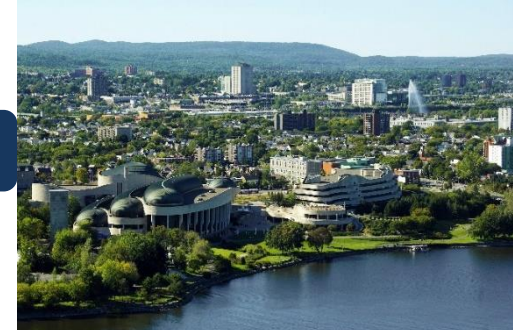


Climate resilience

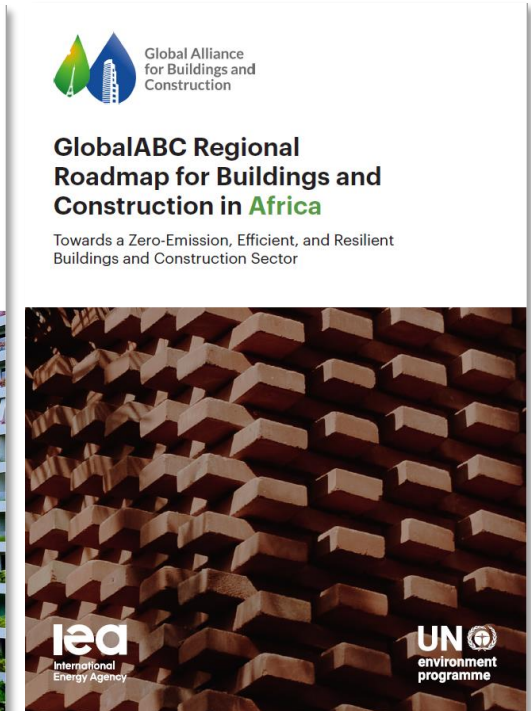
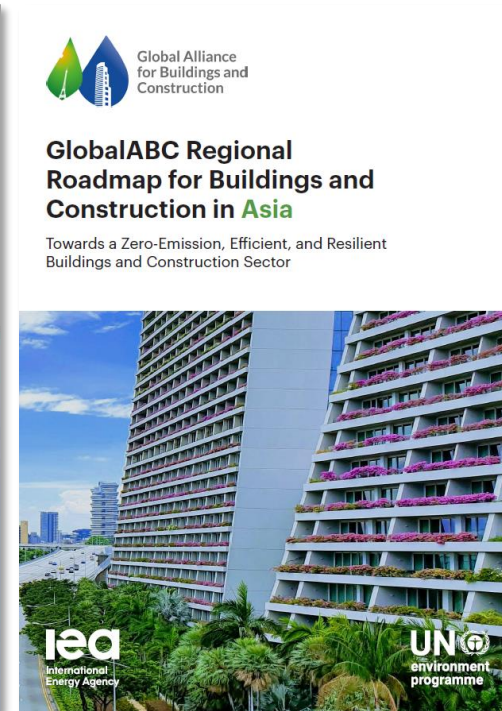
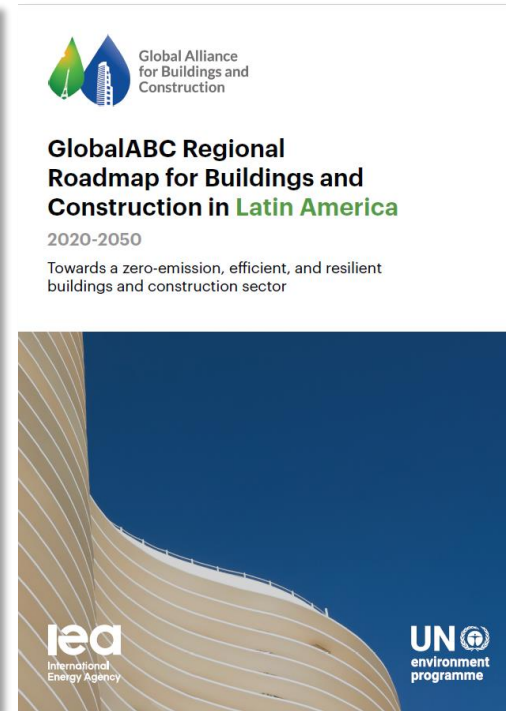
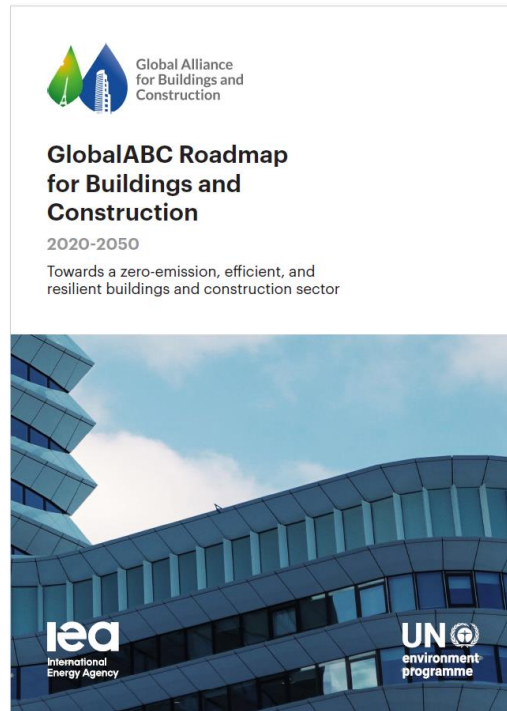
Embodied carbon of materials

Jobs and economic development

Liveable, equitable cities



# Harnessing buildings' potential: Roadmaps for taking solutions to scale



# A stakeholder-driven, globally applicable tool



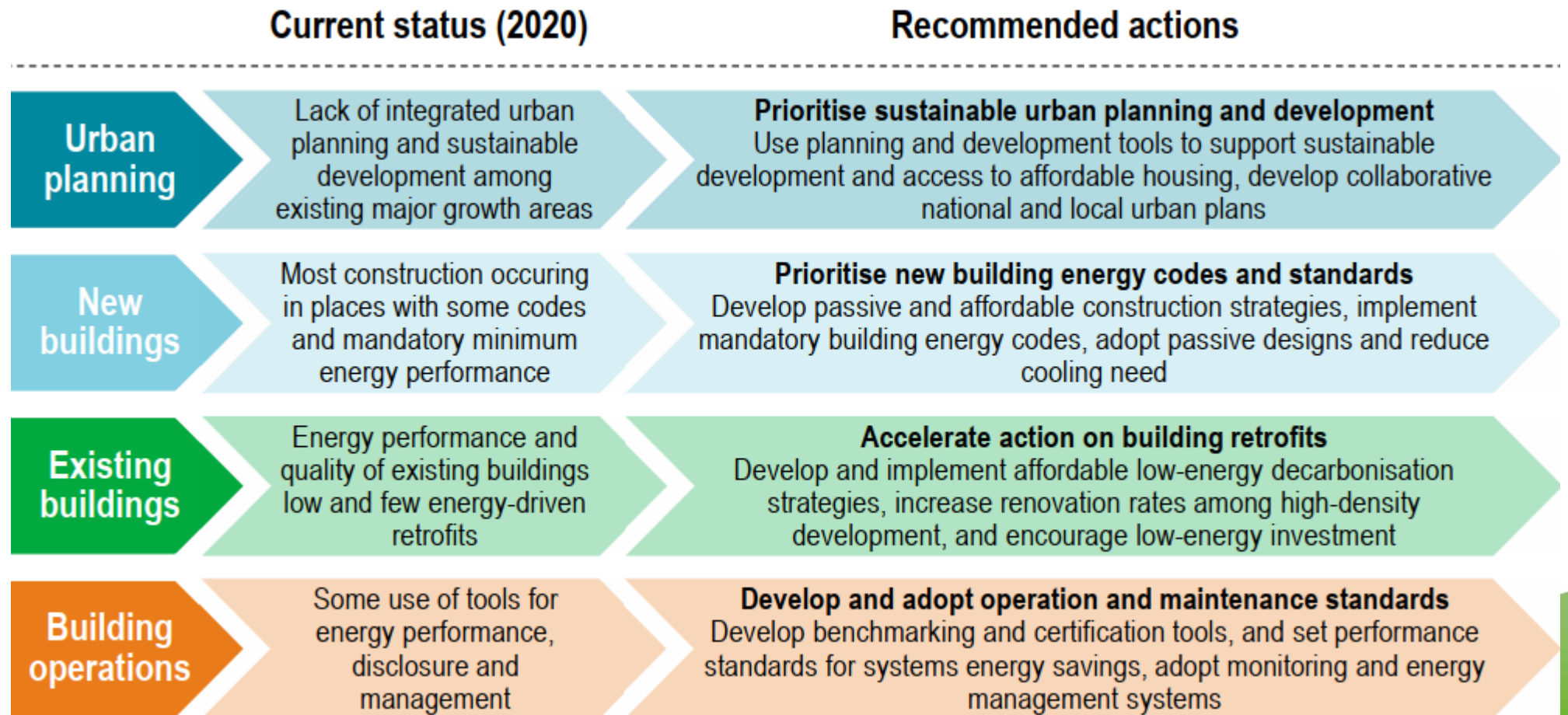
## Buildings in NDCs:

- ★ New in 2017
- ★ New in 2018
- ★ New in 2019
- NDC: >75% coverage
- NDC: <75% coverage
- NDC: <50% coverage
- NDC: <25% coverage
- NDC: mentions buildings
- NDC: no explicit mention
- No known NDC

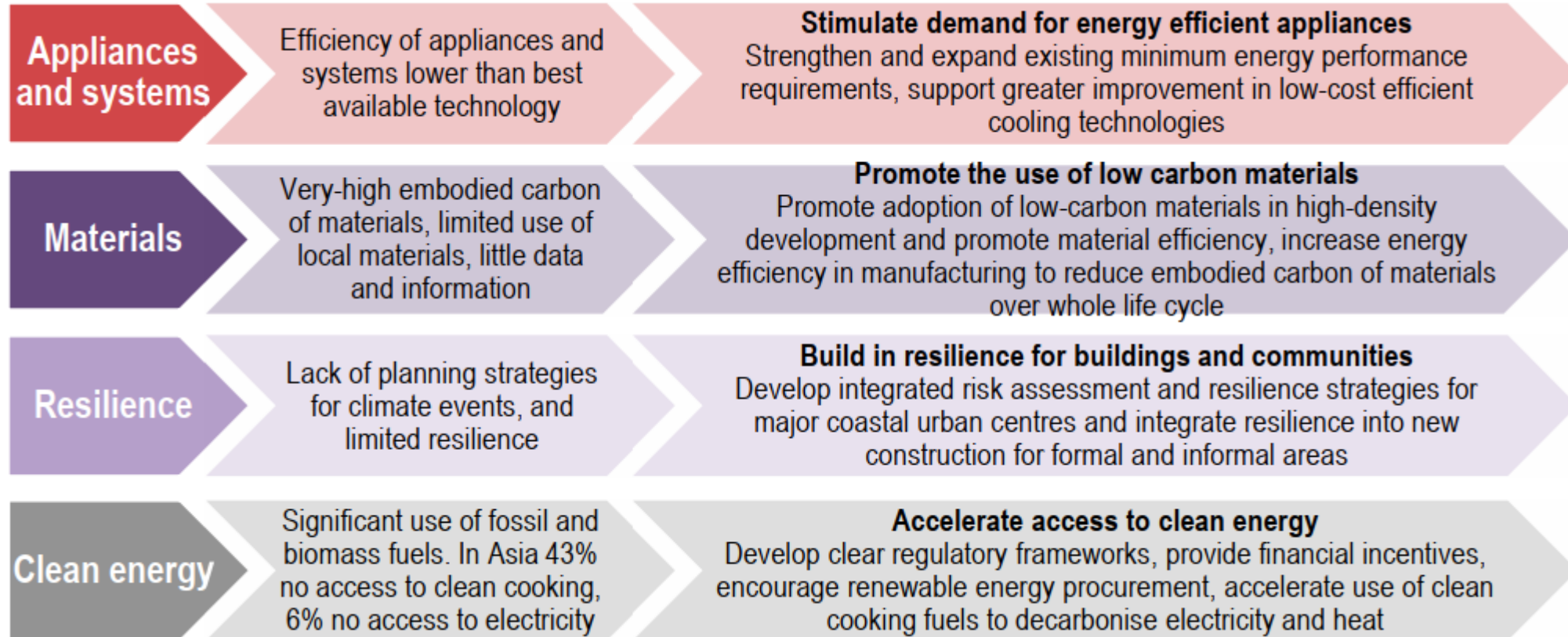


- 3 Regional Roadmaps: Asia, Africa, Latin America
- Extensive stakeholder engagement: **Over 700 experts involved**
  - Feedback on targets and timelines, submission of best practice case studies, feedback on key actions

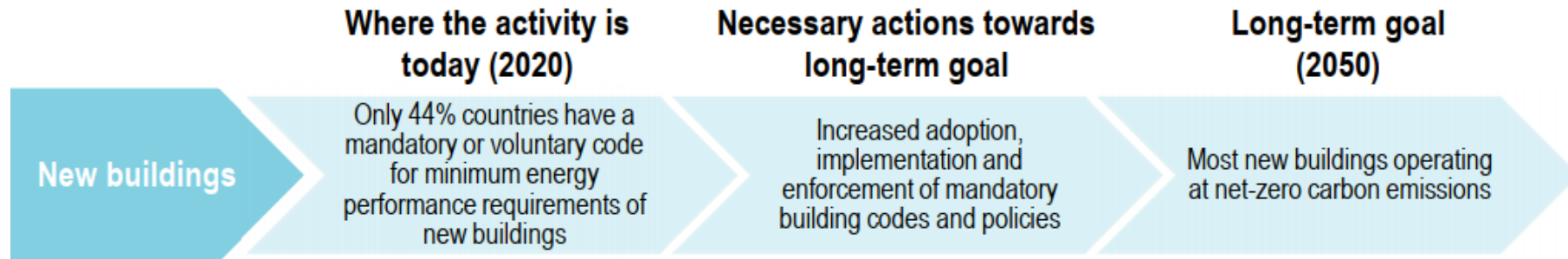
# 8 key areas: A menu of options for country priorities



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# Key actions for each area: Example new buildings, Asia



## Series of key actions:

- Develop local roadmap
- Develop and implement mandatory building energy codes
- Strengthen building energy codes
- Avoid need for space cooling
- Have governments lead by example: public procurement
- Reduce embodied carbon
- Increase awareness



# Ambition- & data-gaps: Example Asia - new buildings



**[ambition gap]** Compliances w/ building energy codes

**[data gap]** Participation of the informal sector

**[data gap]** Labelling of building components

**[ambition gap]** LCA

**[ambition gap]** Passive design

# What do results mean for stakeholder groups?



## Example policy makers

**Building codes:** Develop *performance-based* building codes.

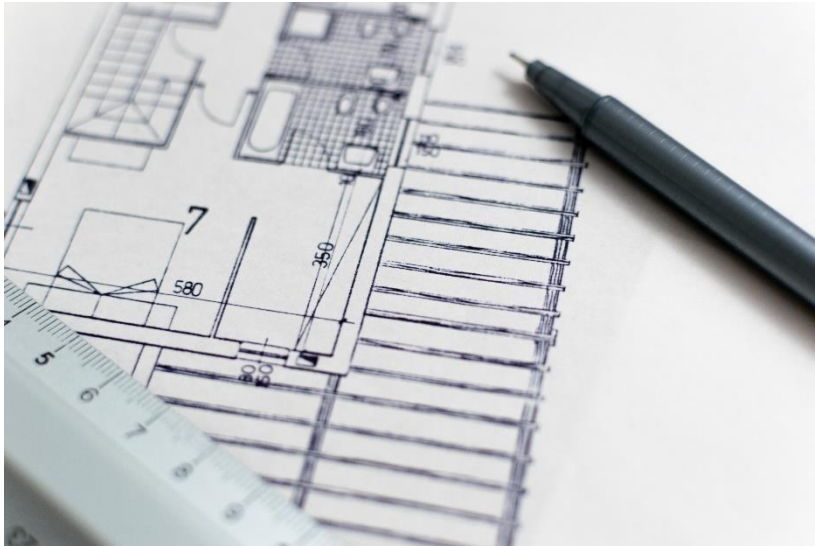
Consider including into **NDCs** elements such as:

- Passive design to reduce cooling demand
- Resilience
- Life cycle approach
- Low-carbon materials

# What do results mean for stakeholder groups?

## Example designers (e.g. planners, architects, engineers...)

The key to achieving efficient, low-carbon, cost-effective housing lies in the **design stage**, which in turn can be most influenced by **building codes**

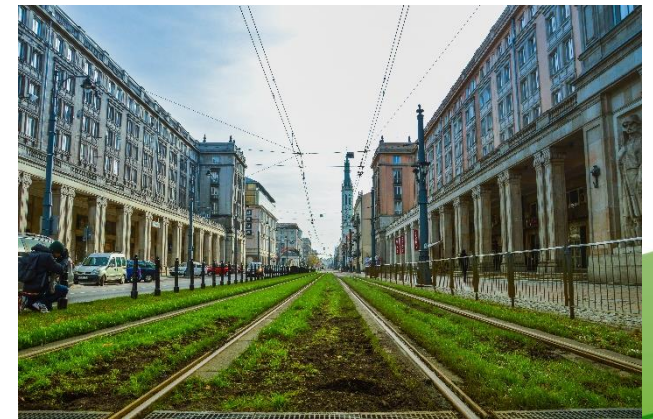


# Implementing regional roadmaps: Next steps



Regional Roadmaps have already started to:

- ✓ Spark regional dialogue and collaboration
- ✓ Lead to concrete actions and national strategies for decarbonisation
- ✓ Raise ambition levels
- ✓ Support filling data gaps



# 1. Race To Zero – Human Settlement Pathway



## » *Decarbonize the built environment*

The message on the HS Pathways is clear: to decarbonize the built environment across the whole lifecycle, we need radical collaboration along the entire value-chain of the buildings and construction sector

## » *A common language, vision and narrative*

Driving policy and technological innovation to get the sector to net-zero emission, with appropriate financial incentives and business leadership

### *By 2030 (to raise ambition levels)*

- » All new buildings operate at net zero carbon and are resilient
- All new buildings, infrastructure and renovations have at least 40% less embodied carbon
- Renovation rates have increased significantly to at least 3% per year
- Timeline: Final draft ready for HLCC approval; main messages to be published beginning November and used as basis for Race to Zero Dialogues; updated pathways published COP26

**#RACETOZERO IS A RADICAL  
COLLABORATION BETWEEN CITIES,  
BUSINESSES, REGIONS AND INVESTORS  
FOR A HEALTHY, RESILIENT,  
ZERO CARBON RECOVERY.**

**RACE TO ZERO**

Global Climate Action  
United Nations Climate Change

Marrakech  
Partnership

