



Third Regional Workshop on ECBC Implementation in States

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Workshop Objective –

- To fast track ECBC implementation pan-India
- To encourage government leaders in promoting ECBC implementation

Structure of the **workshop designed to put spotlight on the states**

Twin Pronged Approach –

- Addressing implementation and enforcement challenges for **states having ECBC notified**
- Handholding on ECBC process & approaches for **states having ECBC NOT notified**

Documenting ECBC implementation status and identifying best practices – through interviews and surveys

Developing database of all relevant officials - MoUD, NITI Aayog, ULBs, TCPs, PWD, SDAs

CHAPTER 6 OF EC ACT

Power of State Government to facilitate and enforce efficient use of energy and its conservation

SECTION 15 – Powers of State Government

- Amend ECBC to suit regional and local climatic conditions and may, by rules made by it specify and notify ECBC with respect to use of energy in the buildings
- Create awareness and disseminate information for efficient use of energy and its conservation
- Arrange and organise training of personnel and specialists in the techniques for efficient use of energy and its conservation

SECTION 16 – Constitute State Energy Conservation Fund for the purposes of promotion of efficient use of energy and its conservation within the State

SECTION 17 – Appoint inspecting officers as may be necessary for the purpose of ensuring compliance with energy consumption standard

SECTION 18 – Central Government or State Government may issue directives for efficient use of energy and its conservation

THE REALITY

No State or City has formal ECBC approval process

ECBC compliant buildings have followed voluntary green buildings rating tools path

Huge impact on commercial buildings EE, locking-in inefficient buildings due to lack of ECBC implementation

As per ECO3, approx. 3 million sq. ft. commercial space building every day (i.e. ~ 1 billion sq. ft. per year)

Smart Cities Mission or Solar Cities Mission doesn't indicate EE as a resource

Lack of awareness among officials about ECBC among state bodies – especially in UD at state level

Policy Makers

- Develop code requirements, enforcement procedure and check compliance

Manufacturers

- Availability of compliant products

Critical
stakeholders
for ECBC
implementation

Professionals

- Expertise to design and construct , Professional Trainers

Occupants

- Operate and maintain buildings

KEY GOVERNMENT STAKEHOLDERS



Urban Development Department

Town & Country Planning Department

State Designated Agency, under the EC Act

Renewable Energy Department

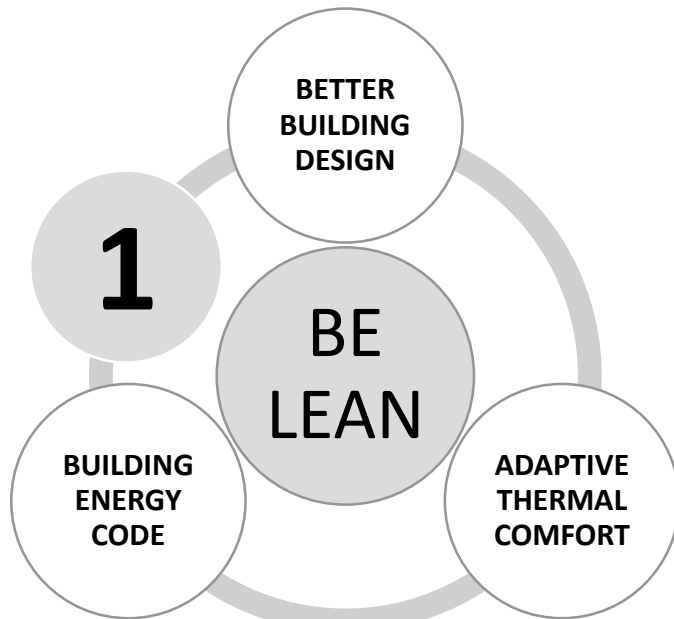
Development Authority(s)

Municipal/ Urban Local Bodies

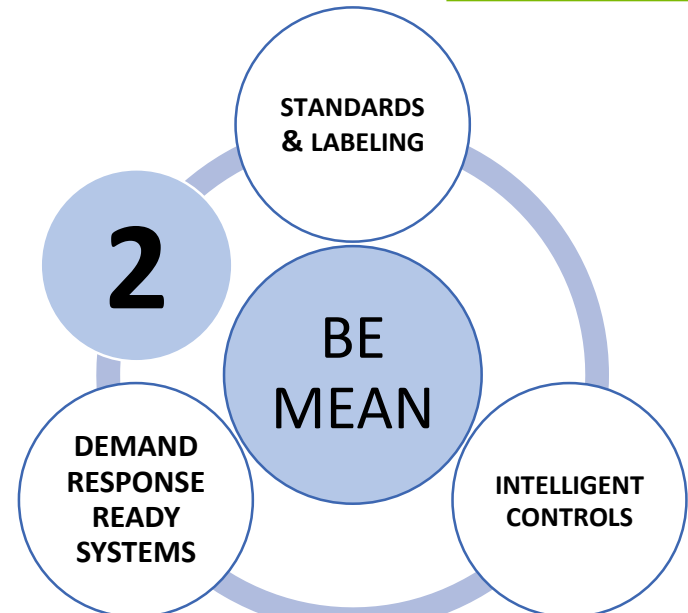
Public Works Department (PWD)

Electricity and Energy Department

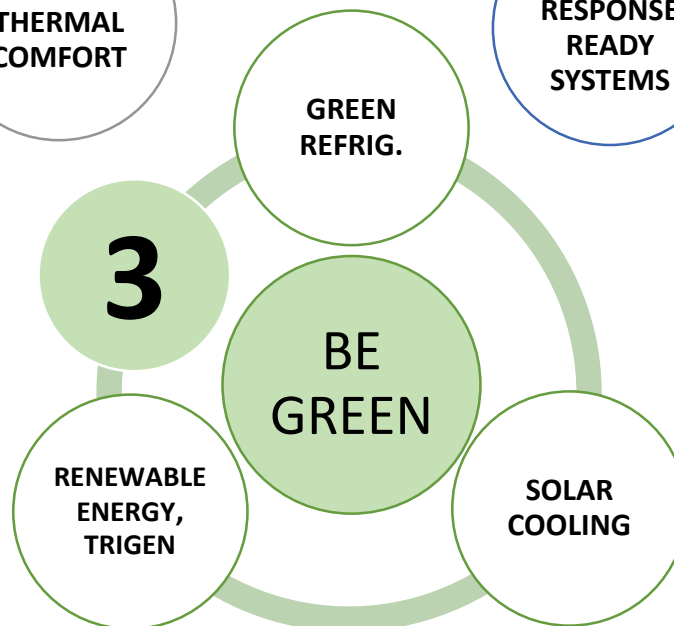
SIMPLIFYING BUILDING ENERGY EFFICIENCY



Building EPI from 250 to
125 kWh/m²/year



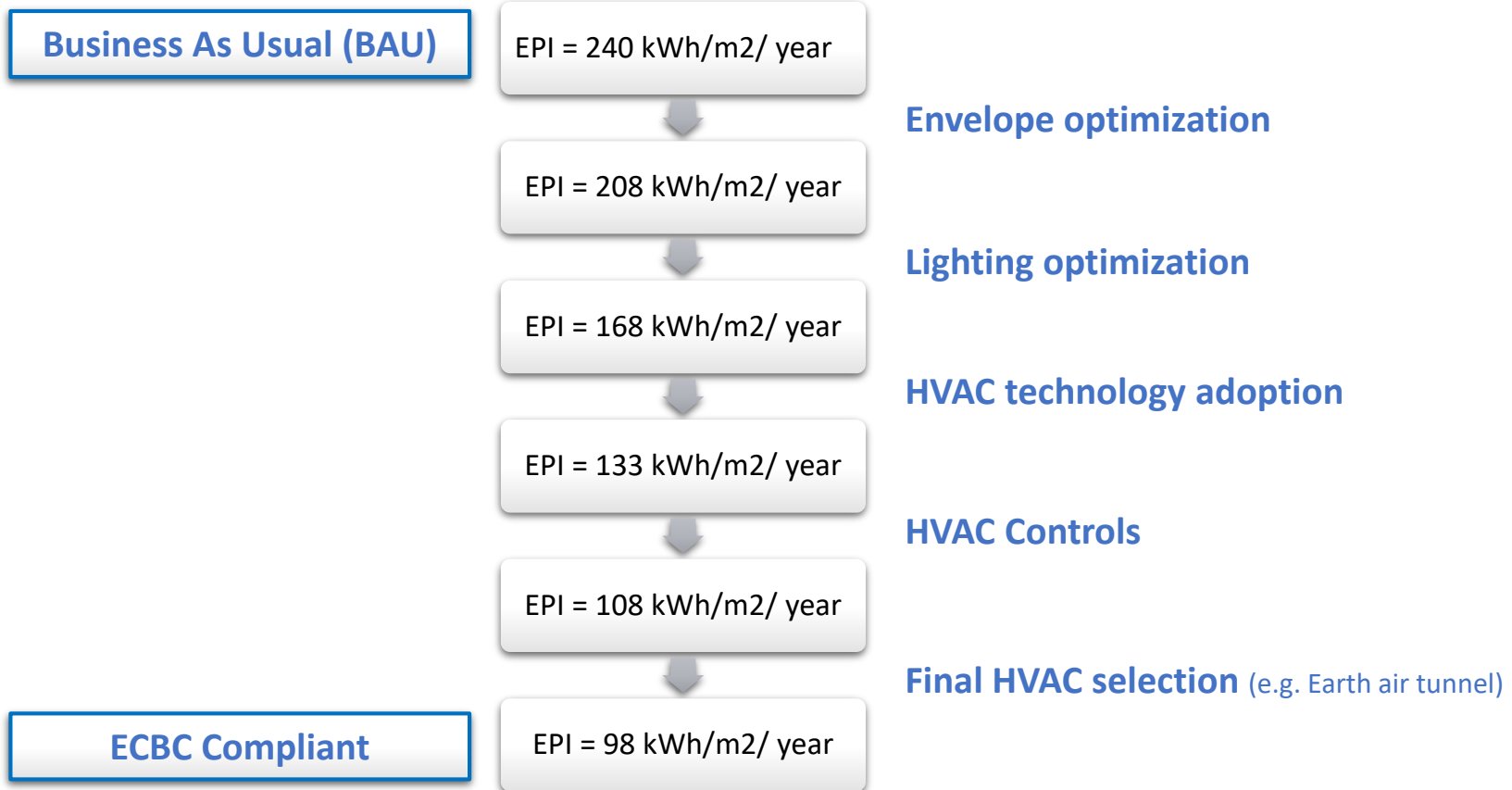
Building EPI from 125 to
60 kWh/m²/year



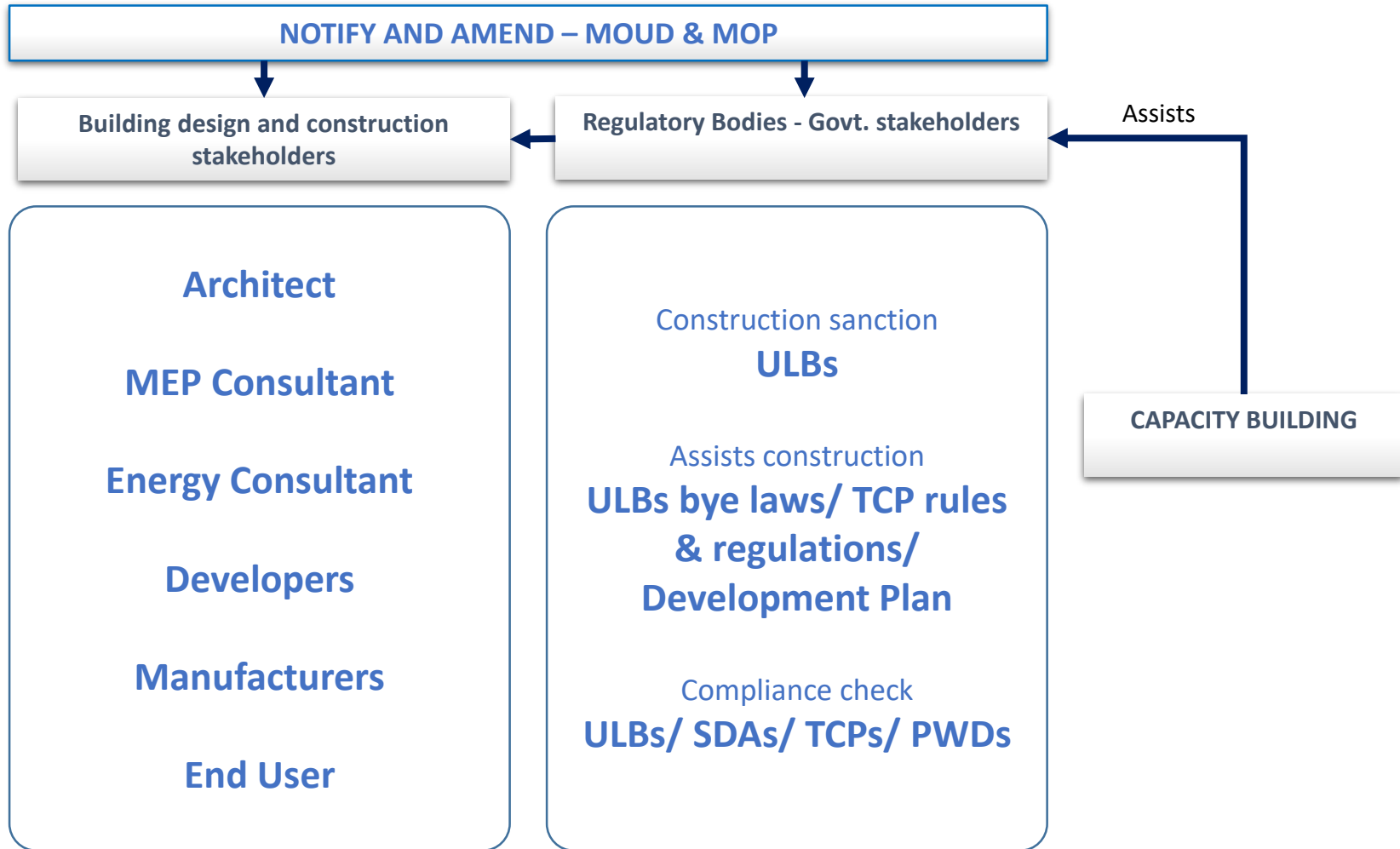
Building EPI from 60 to
30 kWh/m²/year

TYPICAL BENEFITS FROM ECBC COMPLIANCE

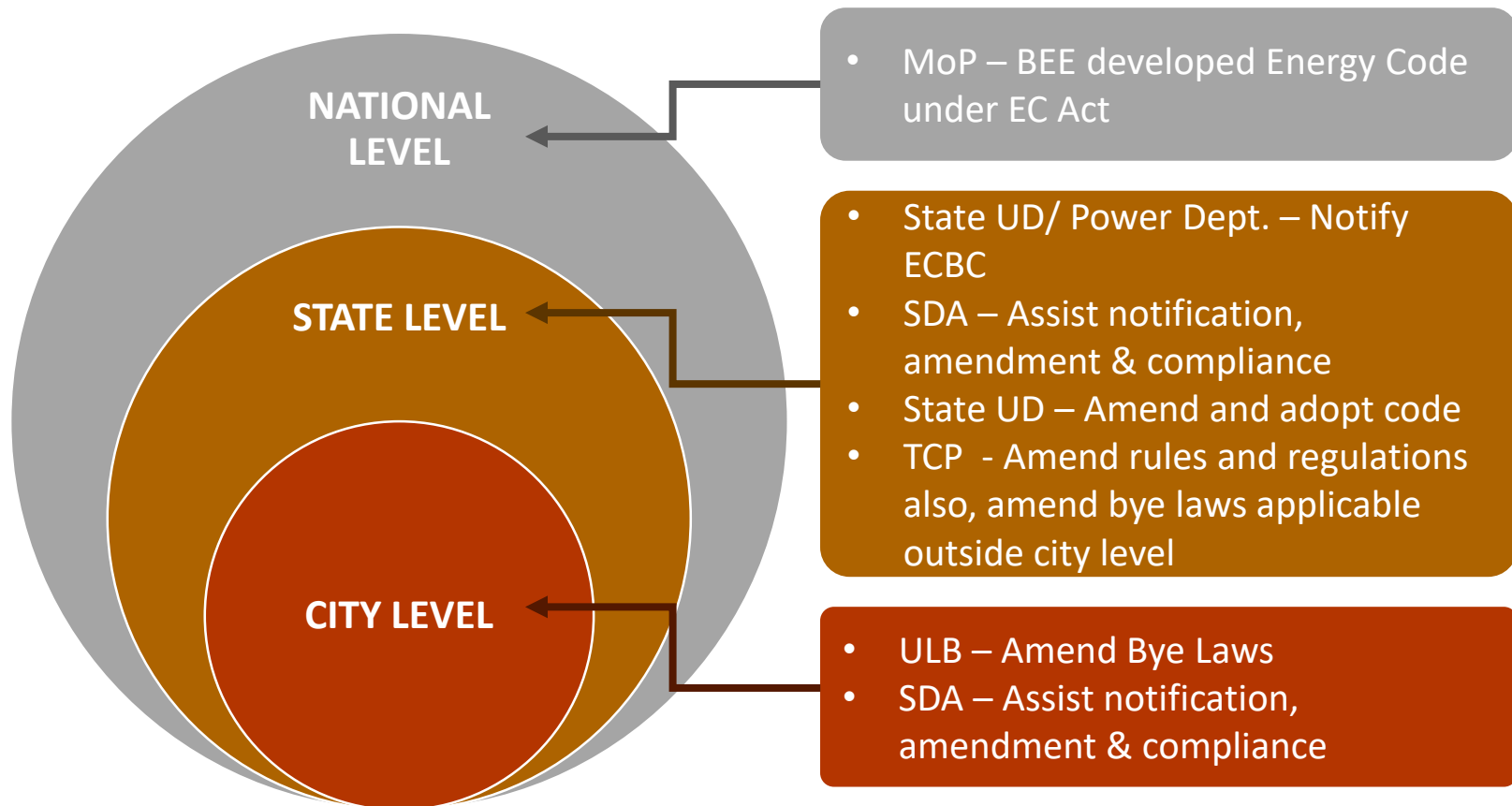
IIT Kanpur : Energy savings achieved through ECBC interventions



CUSTOMISED APPROACH TO ECBC AWARENESS AND COMPLIANCE

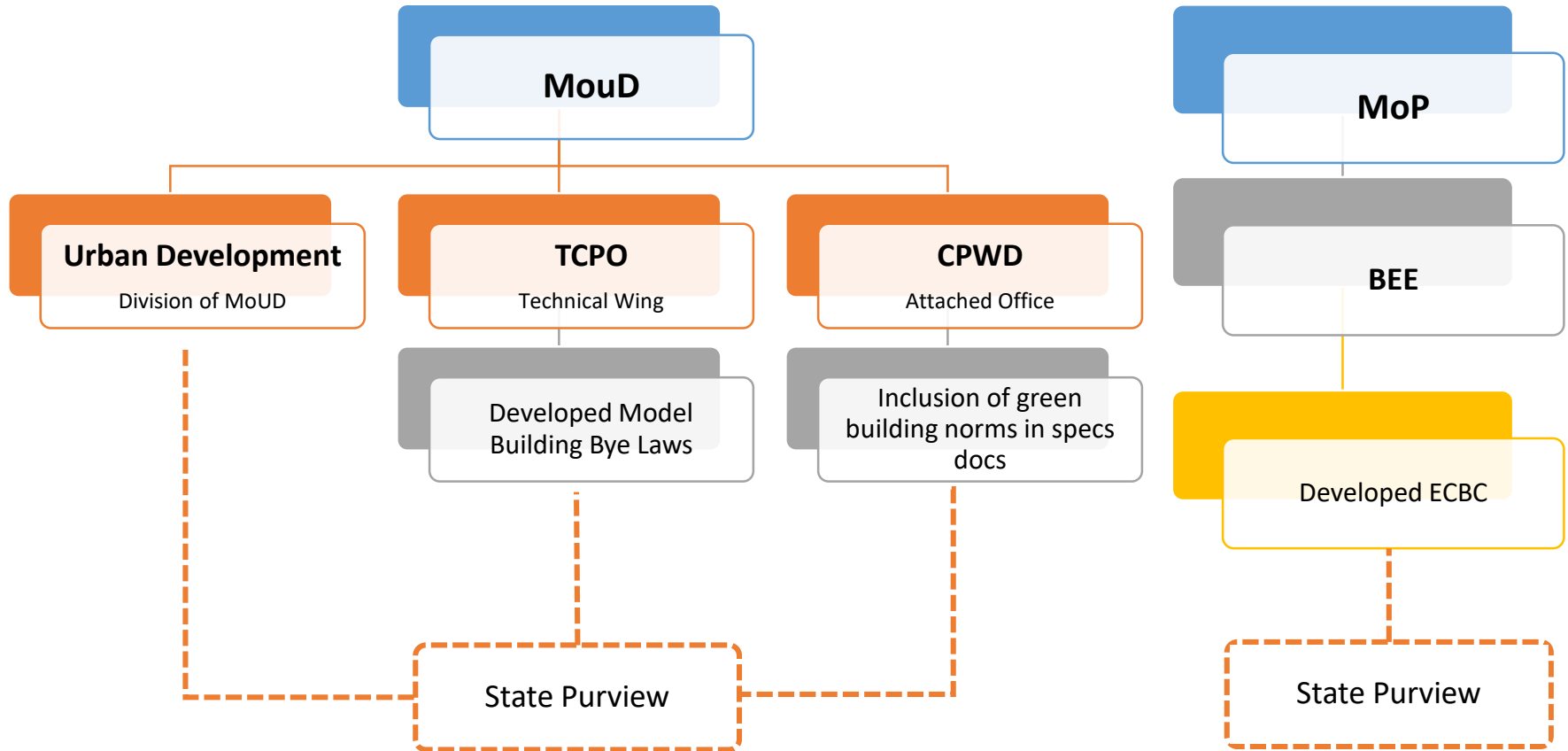


INTERVENTIONS FOR ECBC IMPLEMENTATION AT VARIOUS LEVELS

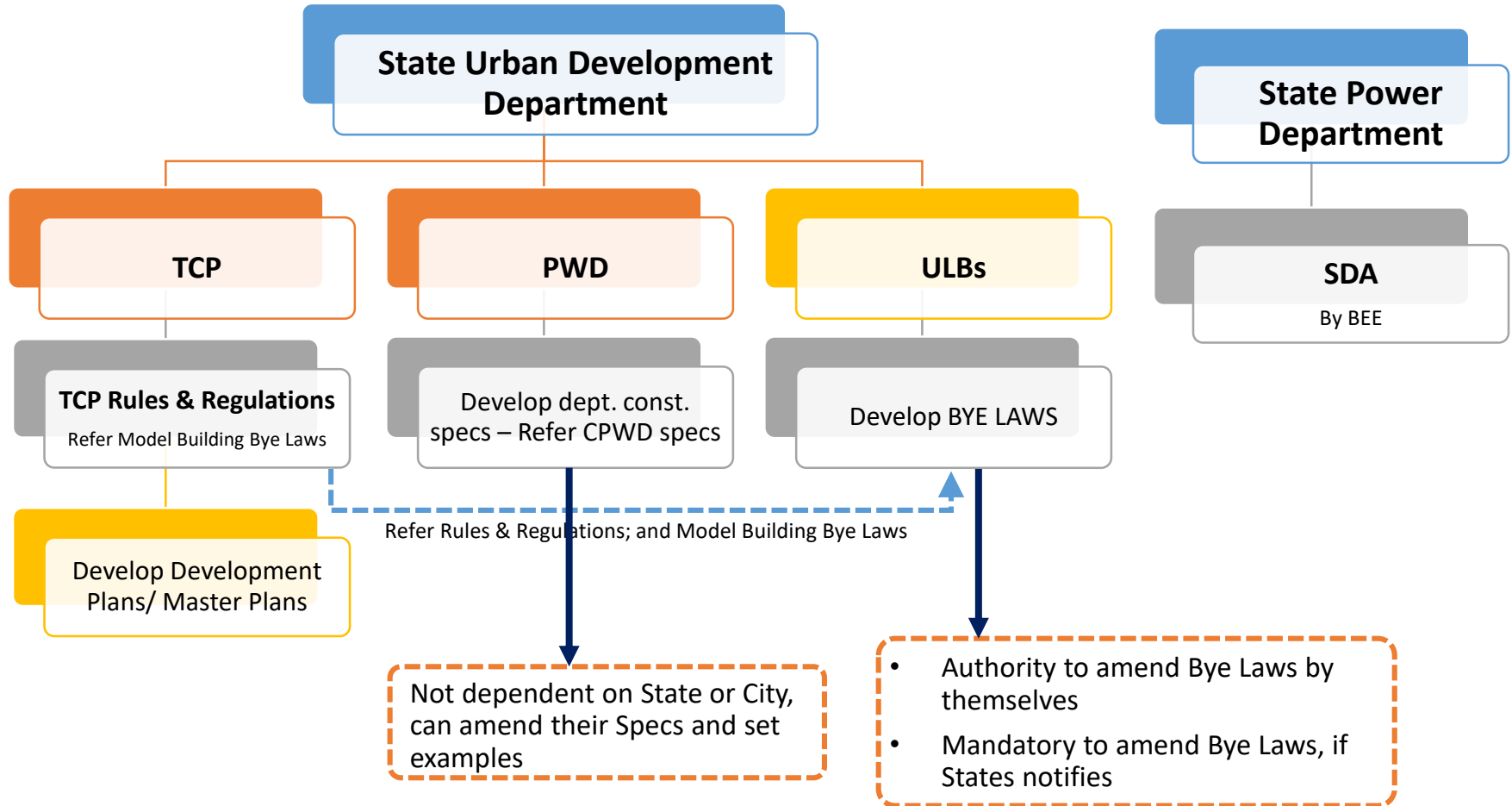


City can amend its bye laws and support ECBC compliance even without State intervention

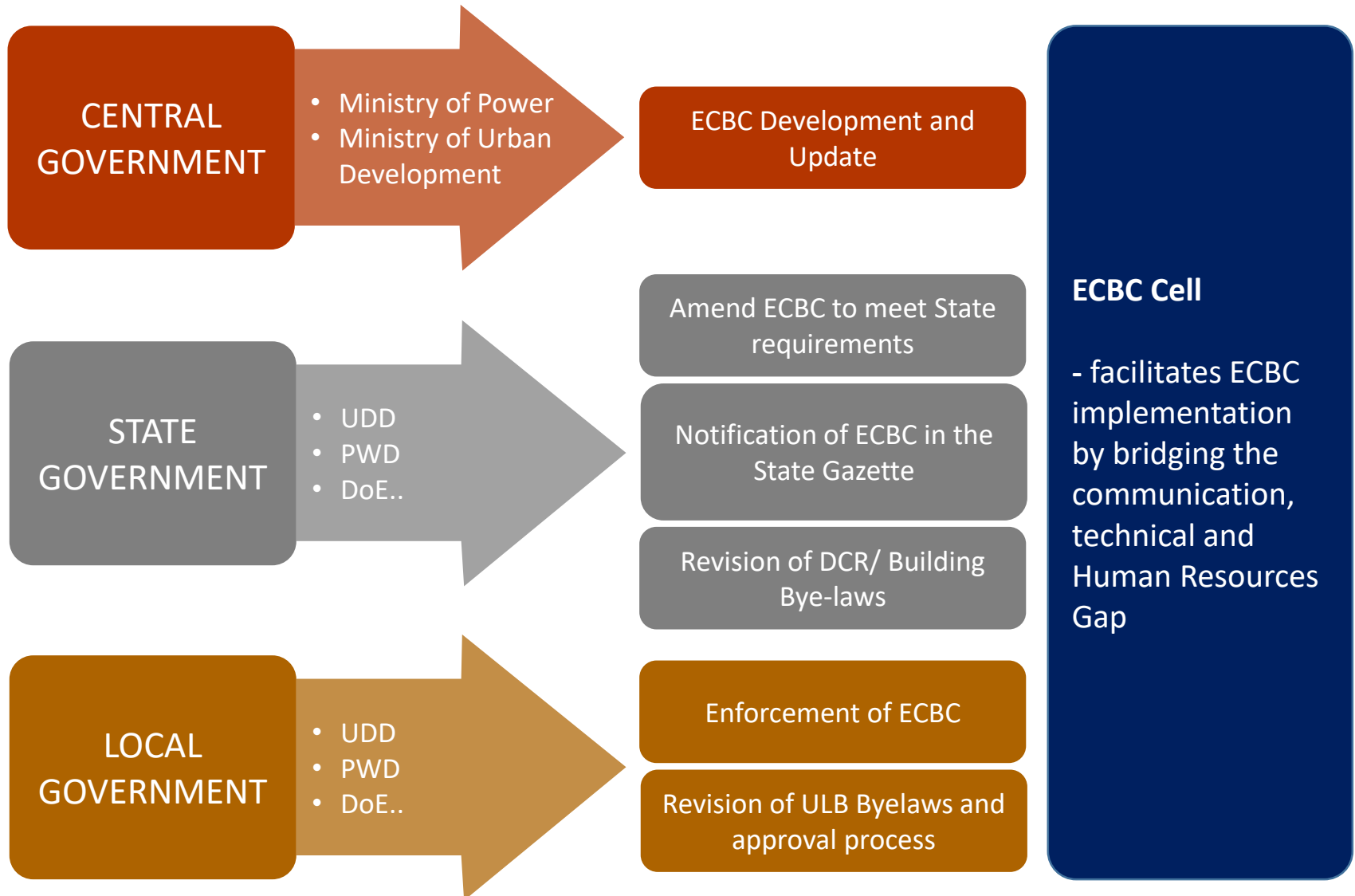
ROLES & RESPONSIBILITIES: NATIONAL LEVEL



ROLES & RESPONSIBILITIES: STATE LEVEL & CITY LEVEL



ROLES & RESPONSIBILITIES



WAYS TO UPSCALE ECBC IMPLEMENTATION

ECBC Program to be **expanded** by BEE/ MoP

Activate all government stakeholders – MoUD, NITI Aayog, ULBs, TCPs, PWD, SDAs

Technical Assistance to be **provided** to MoUD, PWD, ULBs

Enhance inter-ministerial coordination – coordination between MoUD, MoP, PWD, ULBs, SDAs,

State/ City **ECBC implementation approaches/ challenges/ learnings** to be **shared** across States

PRIORITIES/NEXT STEPS

State Government: Notify ECBC; Amend ECBC

TCP/ Development Authority: Amend rules & regulations/ byelaws

ULBs: amend & adopt code in building byelaws; build capacity and code awareness; expand training programs

Building professionals: enhance awareness and understanding of code specifications/requirements (also in preparation for certification program)

THANK YOU
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