Energy Wise CITIES

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How an urban district can act as a carbon sink?

6Aika · Vipuvoimaa EU:lta 2014–2020 · Euroopan unioni, Euroopan aluekehitysrahasto · Uudenmaan liitto, Nylands förbund · Espoo · Oulu · Vantaa · Turku · eko kumppanit · Helsinki · Tampere · Valonia

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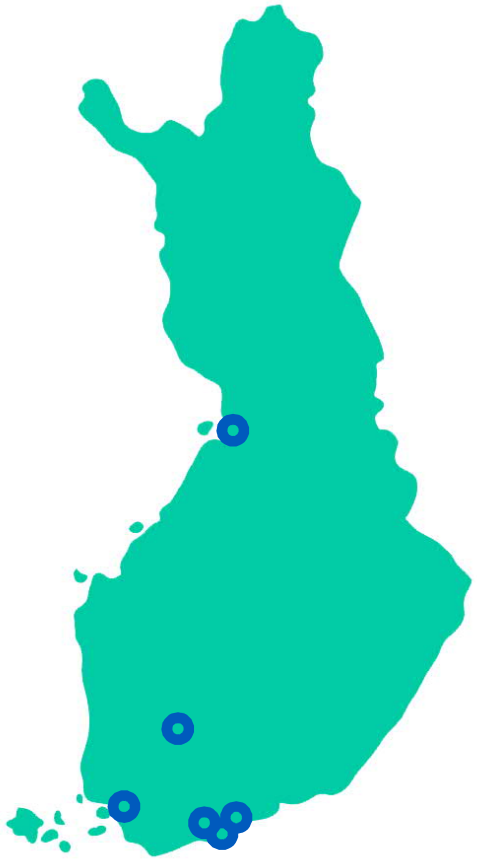
Energy Wise CITIES

Energy Wise Cities project is looking for new ways to improve buildings' energy efficiency and regional energy systems

Vantaa TURKU eko KUMPPANIT ESPOO Helsinki OULU TAMPERE VALONIA Energy Wise CITIES

Six largest cities of Finland working closely together:
Oulu, Tampere, Turku, Vantaa, Espoo, Helsinki

Accompanied by Valonia and Ecofellows Ltd.



Energy Wise CITIES

6Aika

Vipuvoimaa EU:lta 2014–2020

Euroopan unioni
Euroopan aluekehitysrahasto

Uudenmaan liitto
Nylands förbund

Budget 3,3 million euros

Funded by ERDF (European Regional Development Fund)

Six largest cities of Finland – Service Buildings

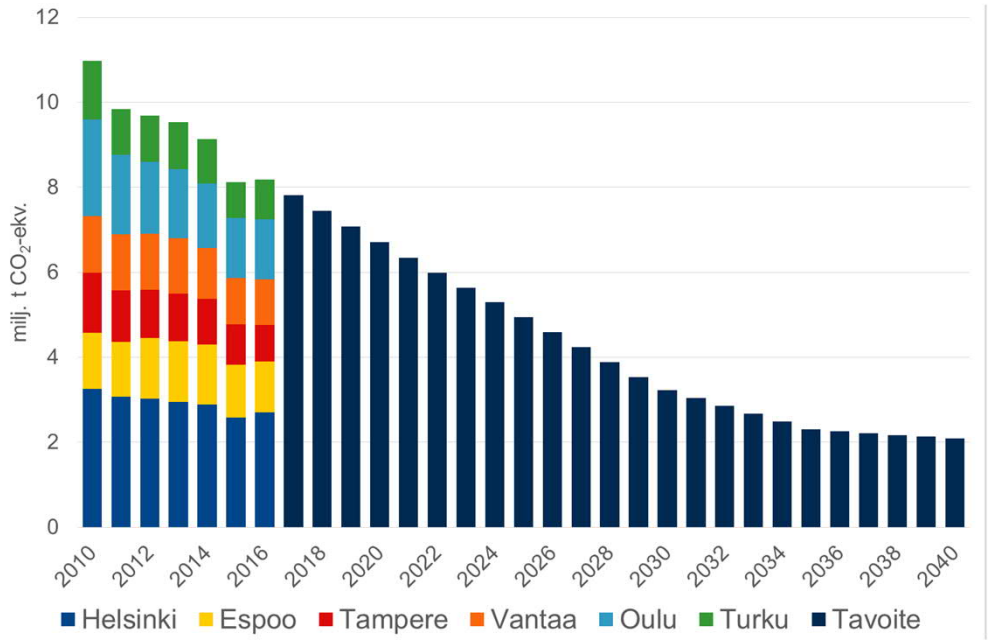
5200 buildings

7 million m2 (gross)

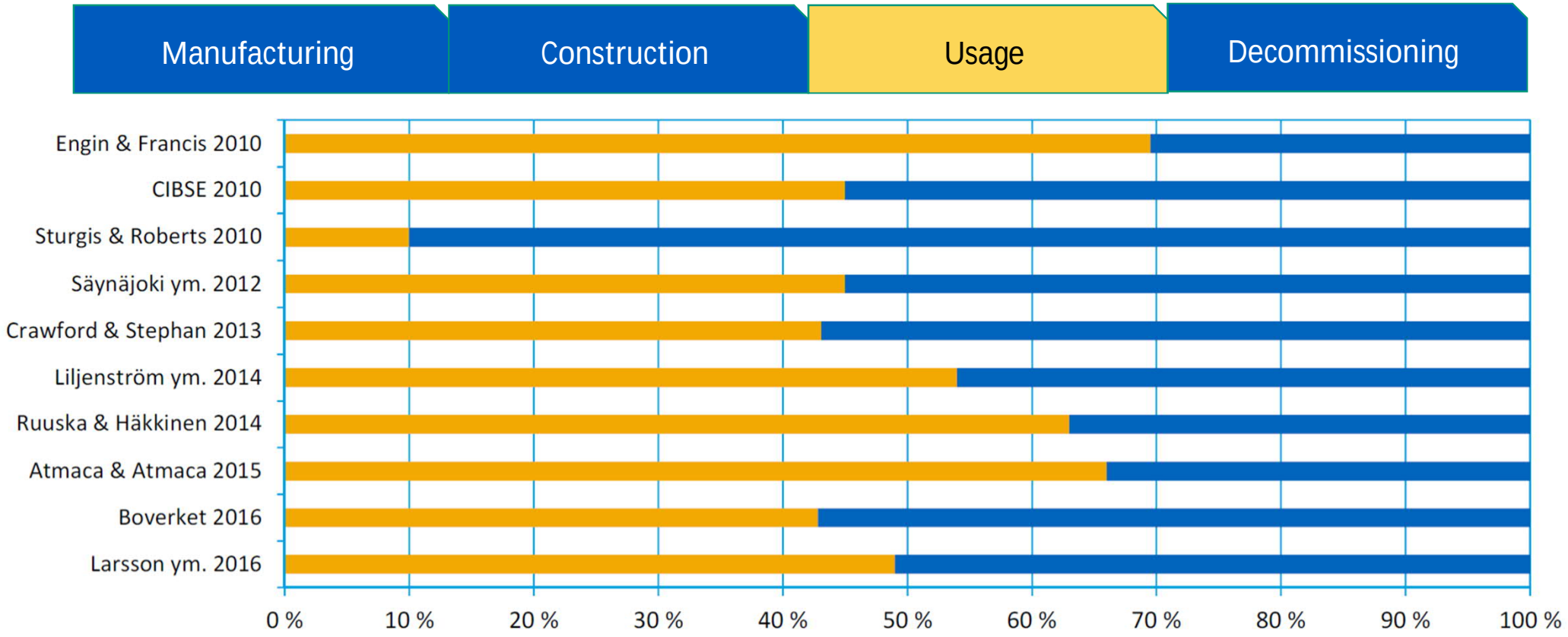
100 M€/a for energy & water

500 M€/a for investments

- CO2 targets
- Municipal service buildings
- 30 % emissions energy related

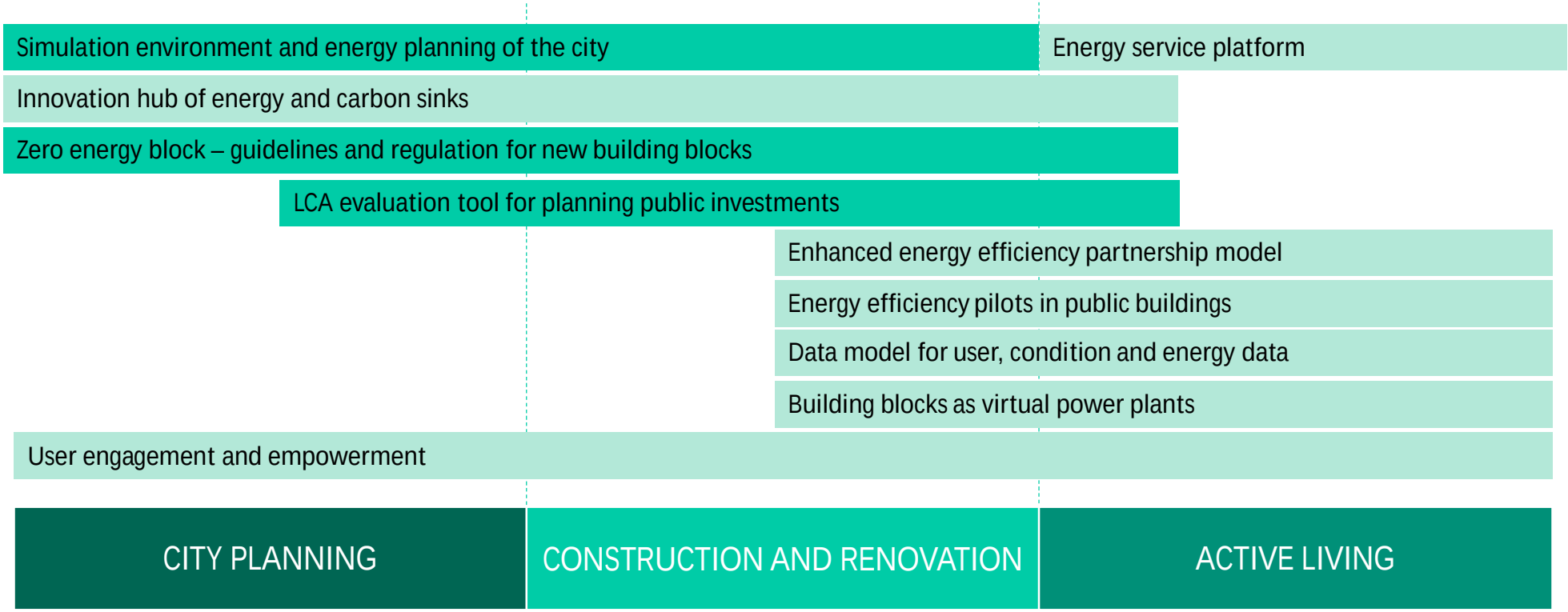


Research outcomes for emission distribution

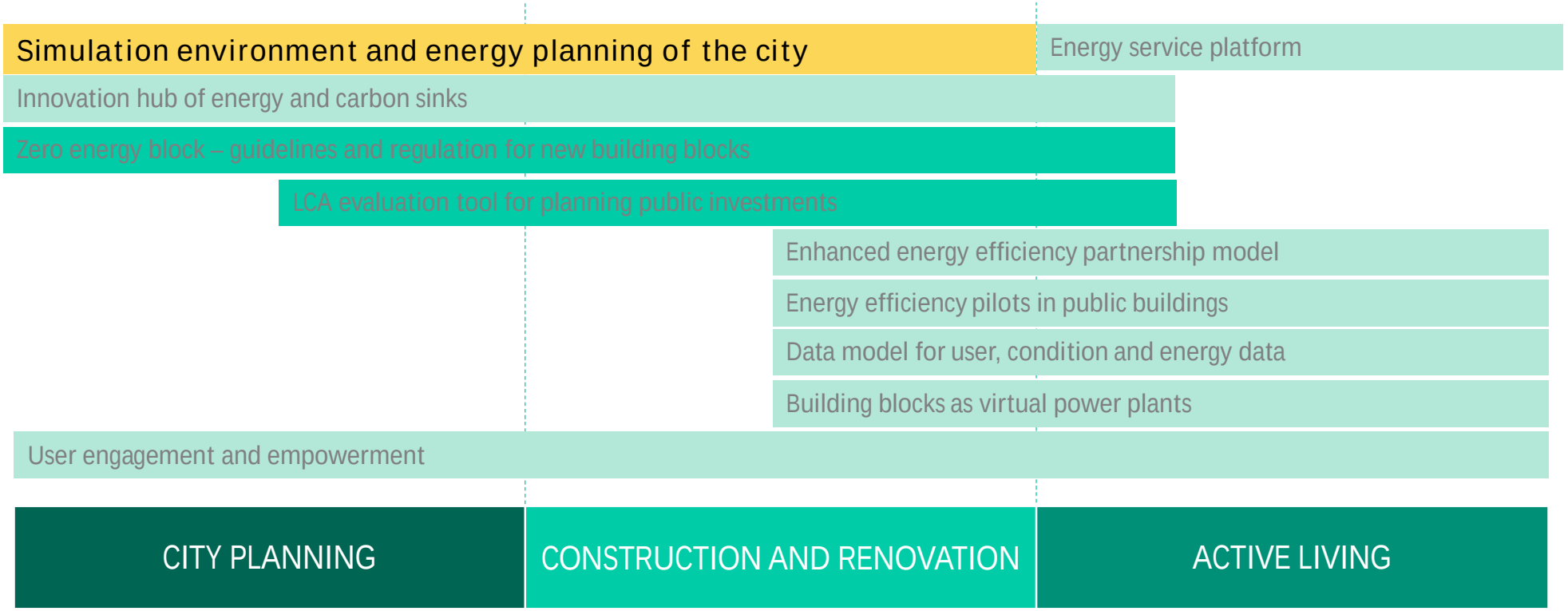


Source: Kuittinen, M. Ministry of the Environment of Finland.

Energy Wise Cities is part of city development from A to Z



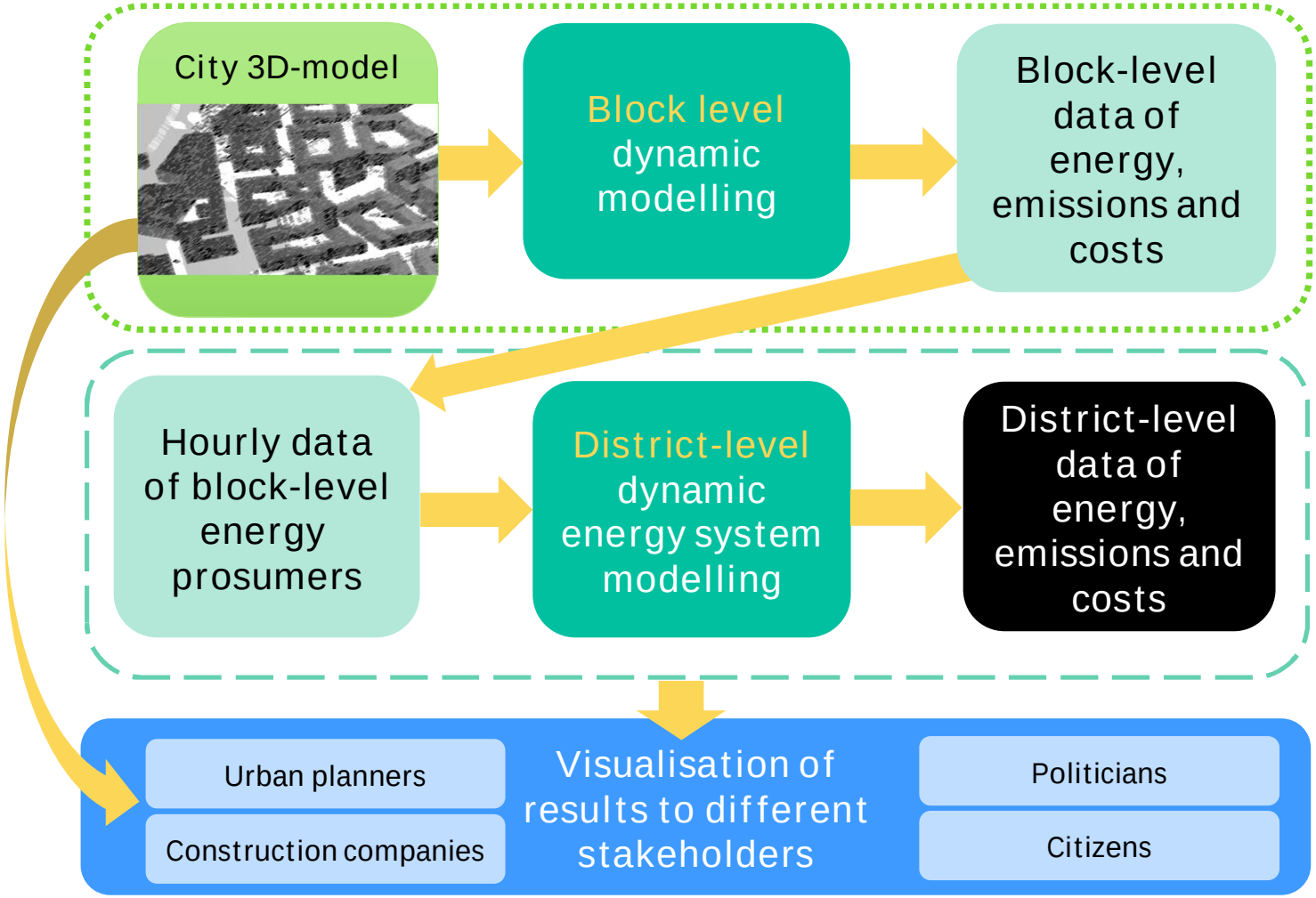
Energy Wise Cities is part of city development from A to Z



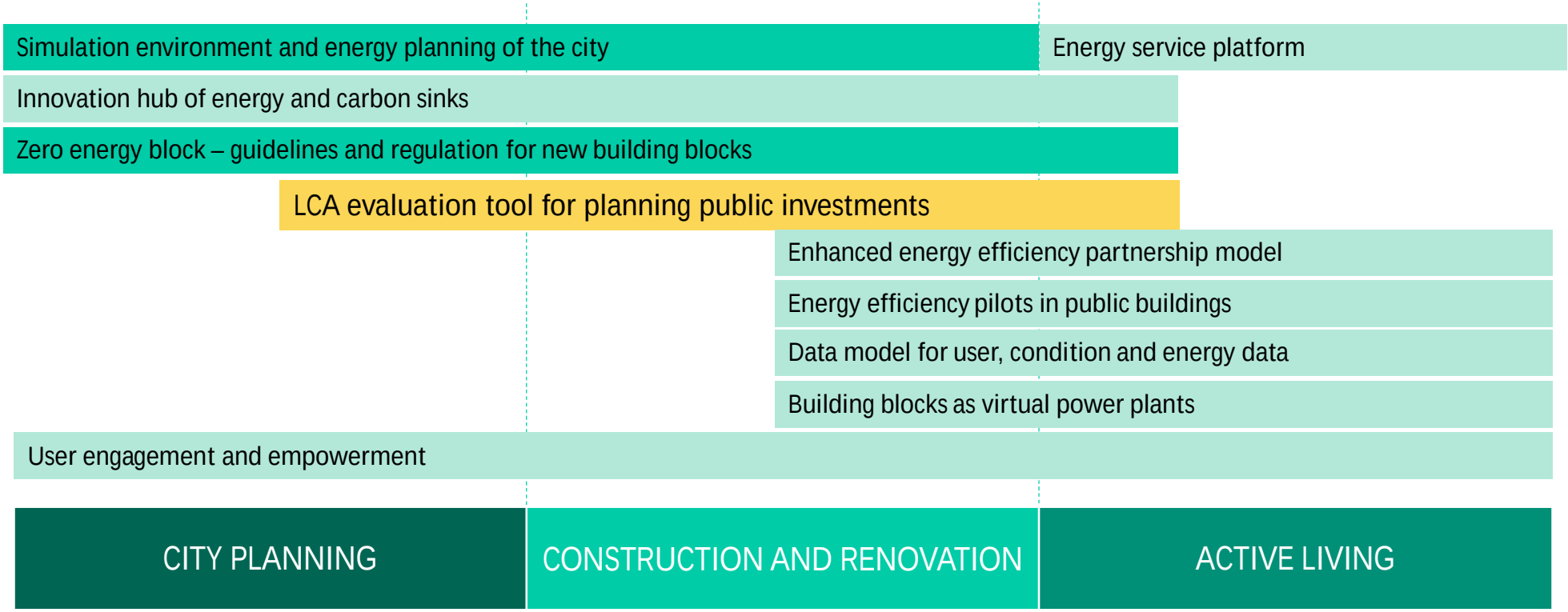
1) Block of Buildings

2) Energy system

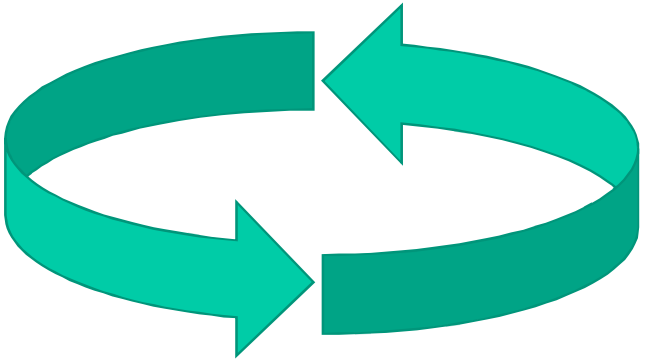
3) Visualisation



Energy Wise Cities is part of city development from A to Z



Carbon footprint and life cycle thinking



To build new or to renovate?

(When buildings and blocks are turned more energy efficient, the carbon footprint and life cycle thinking during the planning and building phase becomes emphasized.)

Energy Wise CITIES

The best solutions do not need to be costly

Energy efficiency as a service

Adaptive spatial planning

Energy efficient design

Results

The results of the Energy Wise Cities project will have an impact in the development of intelligent solutions and global business possibilities.

The actions taken in the project will have a significant impact on the achievement of global climate goals

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