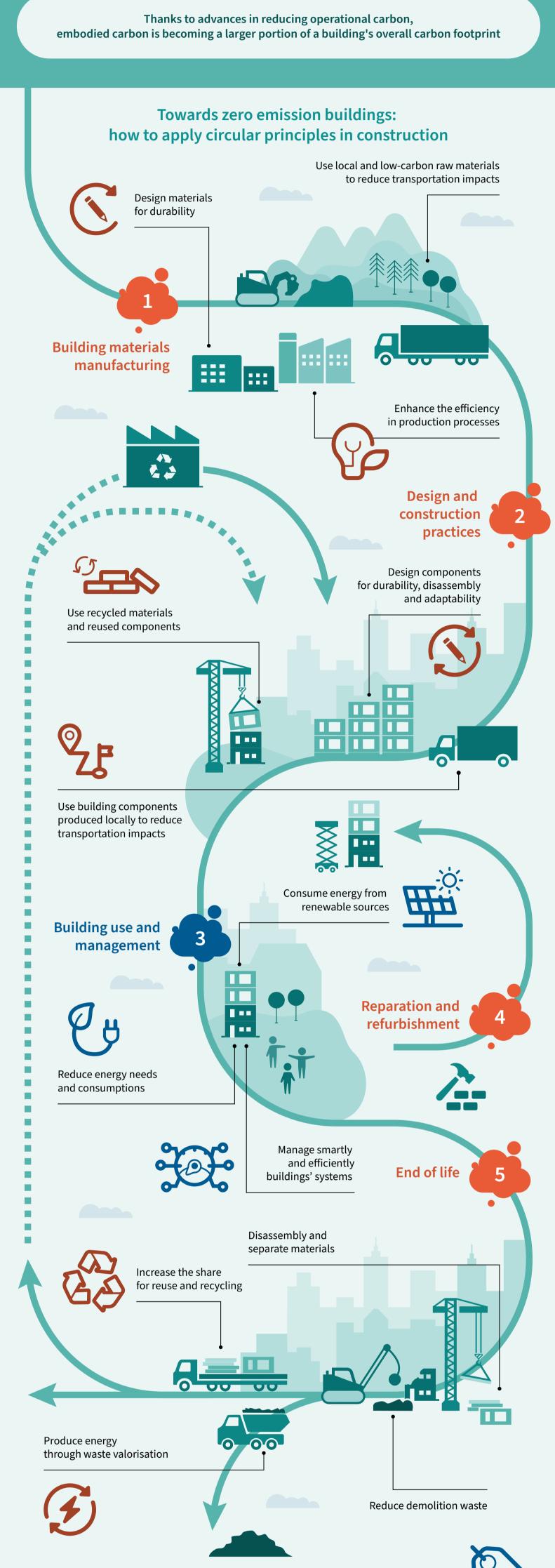
ZERO EMISSION BUILDINGS CAN BE EVEN MORE SUSTAINABLE

To reduce the carbon footprint in buildings the traditional approach is focused on reducing the operational energy consumptions

BEFORE THE Embodied carbon BUILDING BECOMES OPERATIONAL Operational carbon a relevant amount of CO₂ is produced during the CO₂ emissions manufacturing of materials, produced using and their transportation and the managing the building construction processes Global trends in life cycle AT THE BUILDING emissions of buildings, **END-OF-LIFE** average kgCO2eq/m²a CO₂ emissions are produced demolishing the buildings, 50 transporting and recycling the wastes 25 **Operational carbon** 45% **Embodied carbon 18%** 23% **Existing** New New Source: Towards Embodied Carbon Benchmarks for Buildings in Europe – standard standard advanced Facing the data challenge, 2022, https://doi.org/10.5281/zenodo.6120522



In 2018 the European Commission launched Level(s), an assessment and reporting tool

for sustainability performance of buildings, firmly based on circularity

Level(s) provides a common language using indicators covering all life-cycle stages and grouped in 6 macro-objectives

EU policy instruments for more sustainable buildings

Circularity tools and labels:

EU Eco-Management and

Audit Scheme / EMAS

Construction Product

Level(s)

Greening Public

Regulation

Procurement / GPP

Product and

Organisation

OEF

Ecolabel

Environmental

Footprint / PEF and

Waste Management:

Public Procurement:

EU Procurement

Waste Framework

Directive

Directive

Energy performance

Energy Performance

Directive / EPBD

Energy Efficiency

Renovation Wave

Directive / EED

of Buildings

of buildings:

Greenhouse gas emissions Healthy and along a buildings life-cycle comfortable spaces Adaption and resilience



Resource efficient and

circular material life-cycles







to climate change

Optimised life-cycle cost

Help in developing and implementing

How can you start using Level(s) in your working environment?

policies and actions

linked to sustainability



Calculation and Assessment Tool (CAT) A comprehensive overview of Level(s) A calculator that makes easier

that will help you to complete a building assessment

Built environment and

sustainability professionals

Support in comparing

design options and setting

sustainability targets from

the beginning of the project

Read more

eLearning course

Read more

to complete your sustainability

performance assessment

and join the LinkedIN group to connect with the community!

Learn more about Level(s) here tinyurl.com/levels-eu