



SI.dO #BAMBimpact









BUILDING AS MATERIALS BANKS a pathway for a circular future

BEL-EVENT Password: Bamb2019







Noderator





Peter Woodward







Barbara Dewulf, Deputy Director General, Brussels Environment





Welcome









SICO

#BAMBimpact





STORY - The influence of BAMB in shaping circularity in the construction industry

Caroline Henrotay, BAMB Project Coordinator, Brussels Environment









BUILDINGS AS MATERIALS BANKS

The influence of BAMB in shaping circularity the construction industry

Caroline Henrotay - Brussels Environment











Co-funded by the Horizon 2020 Framework Programme of the European Union













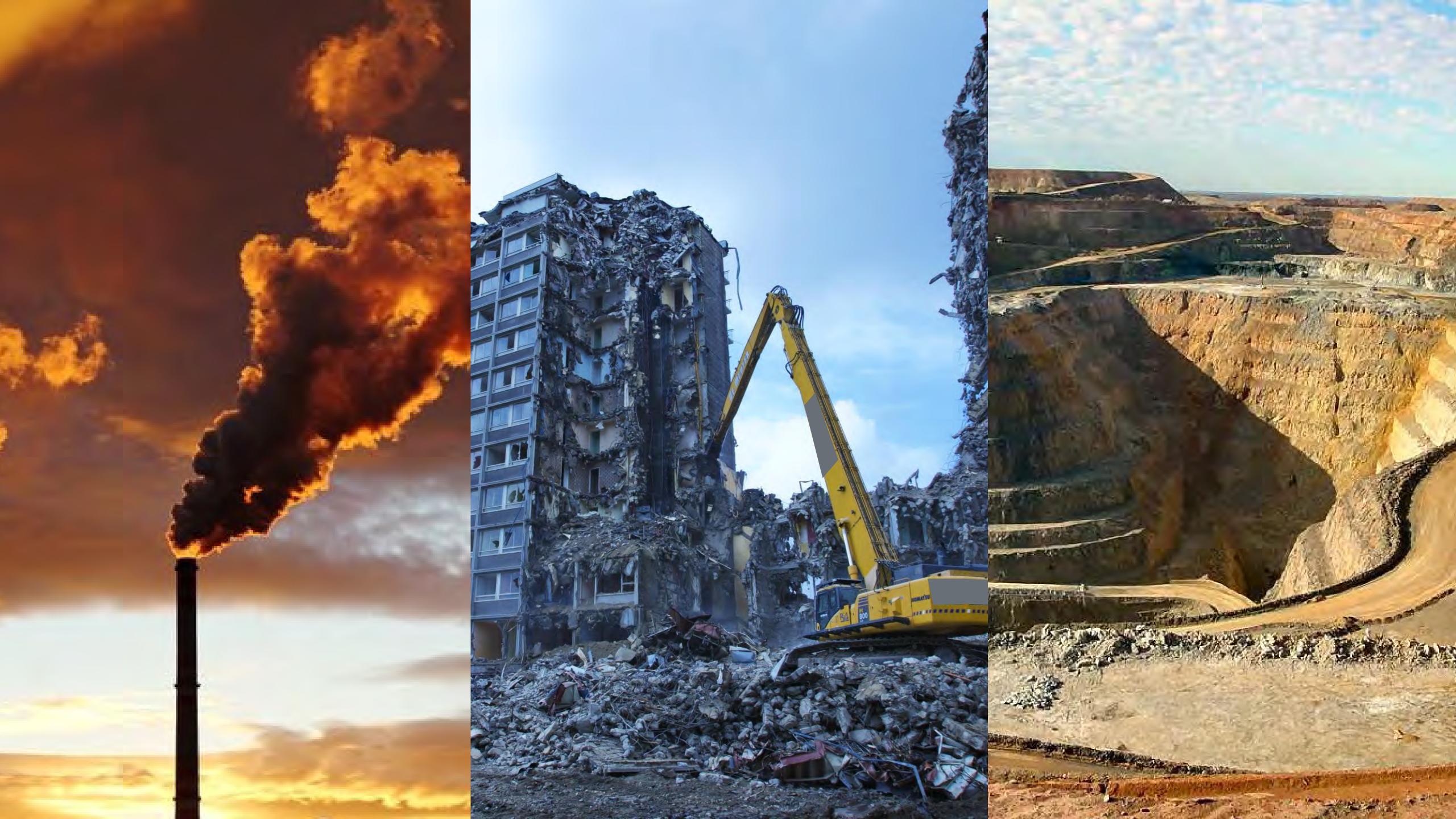


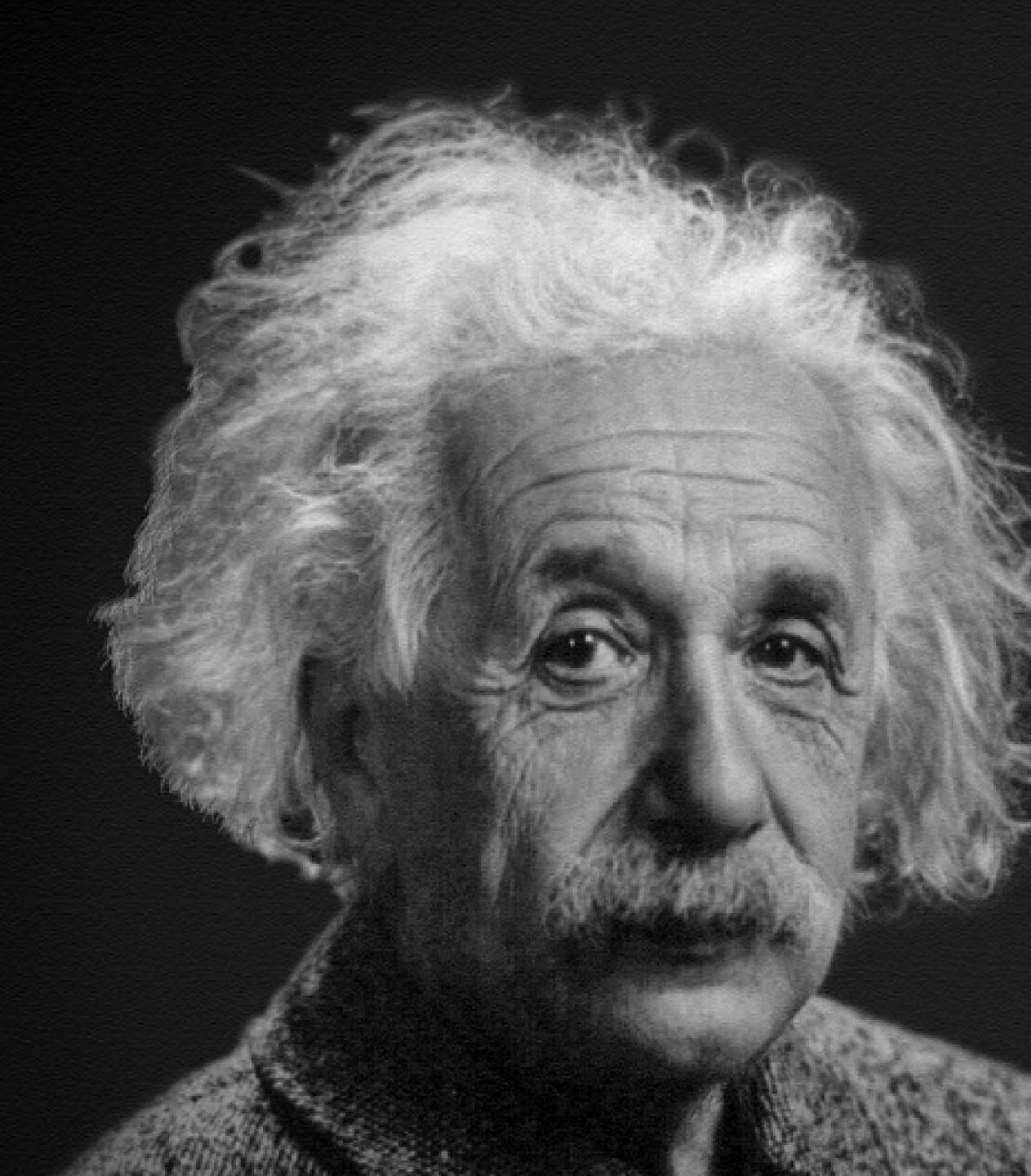












We can't solve problems by using the same kind of thinking we used when we created them





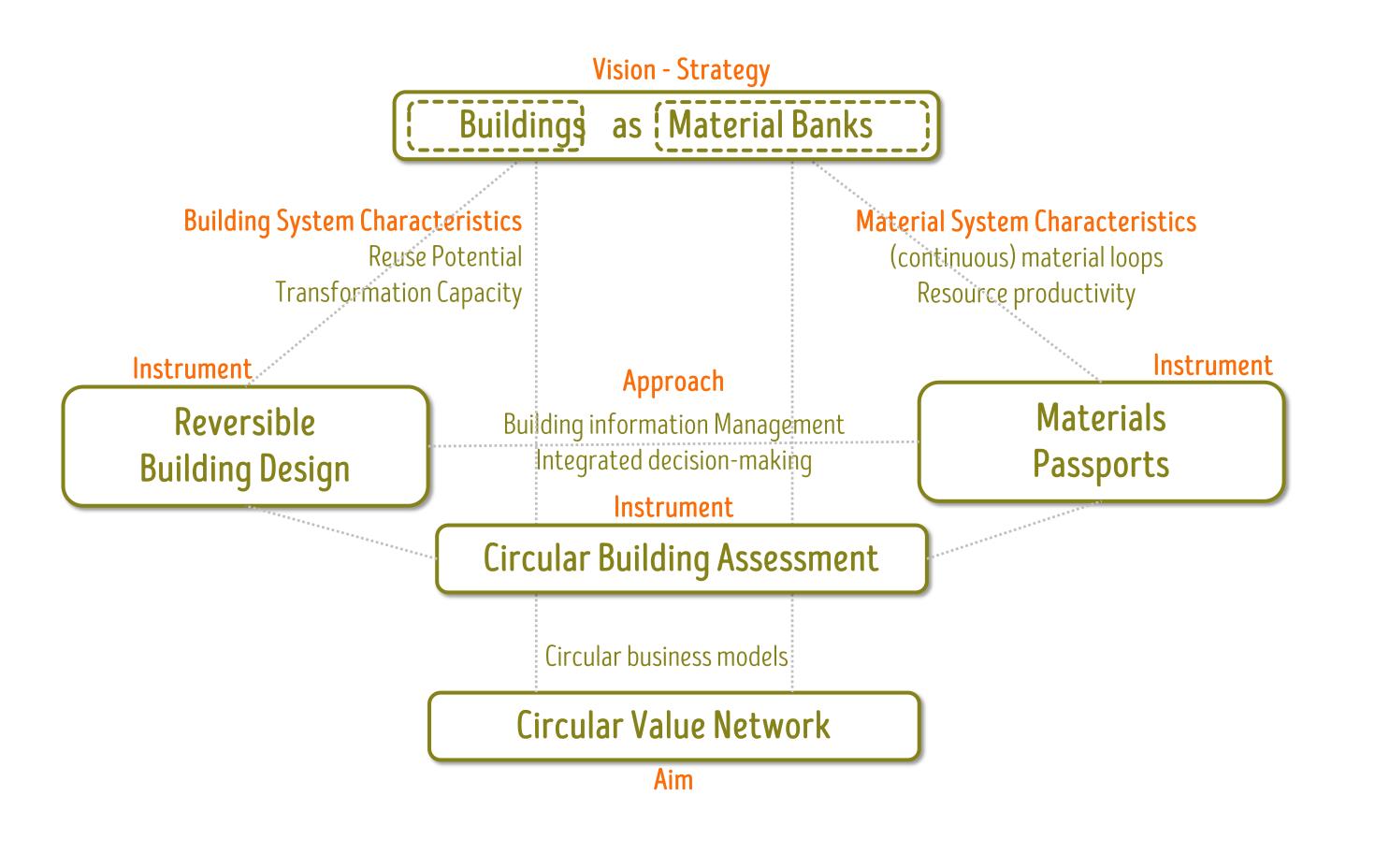
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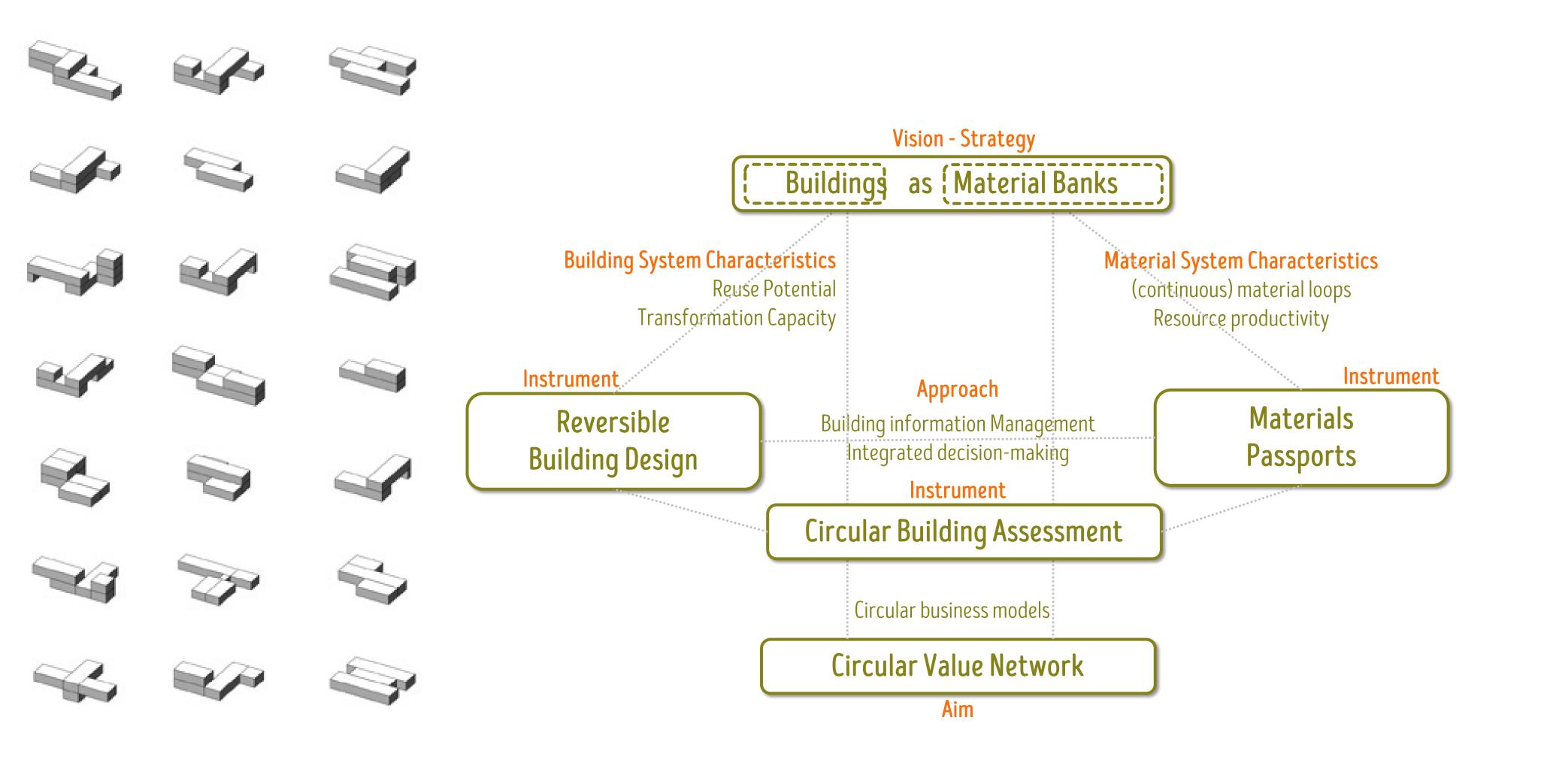








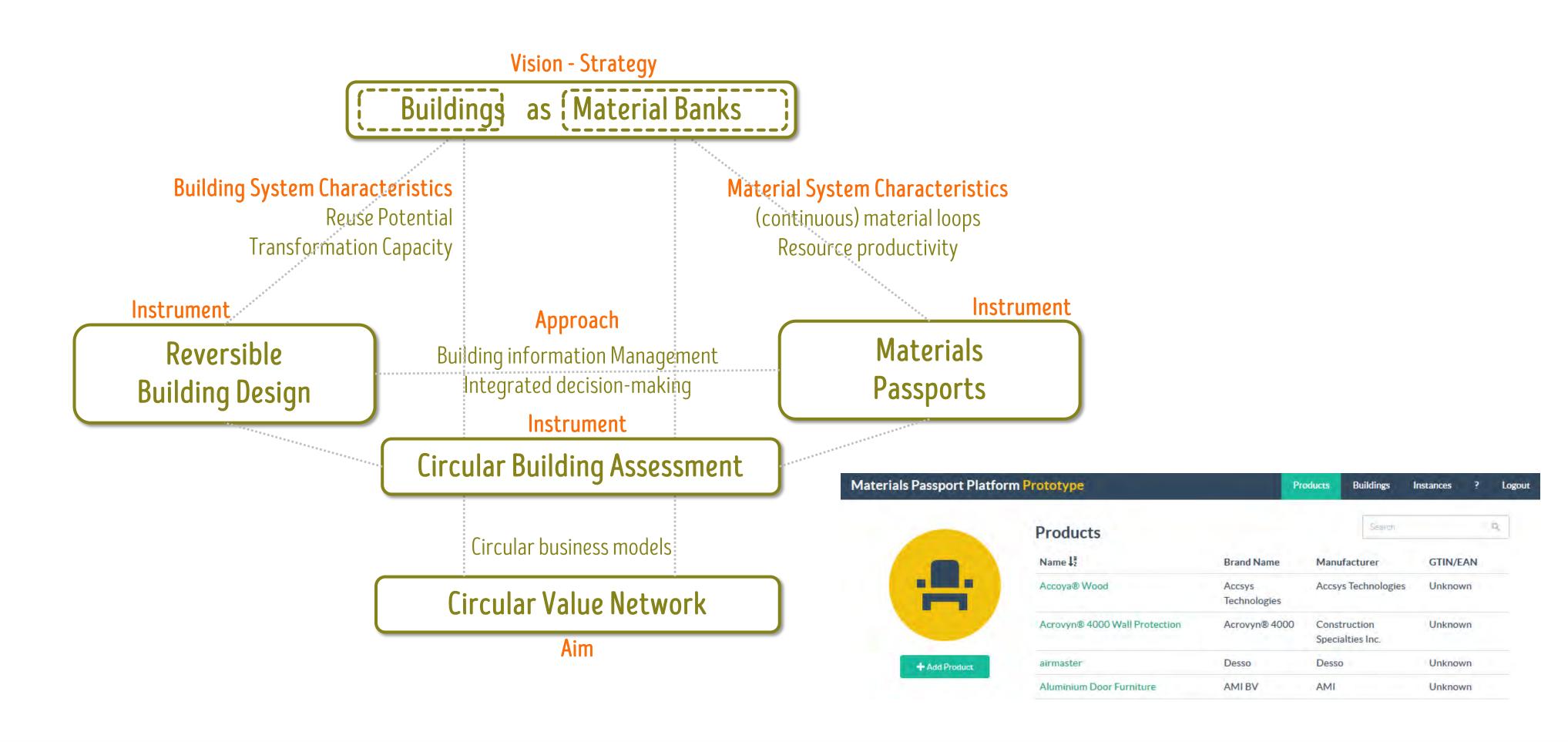






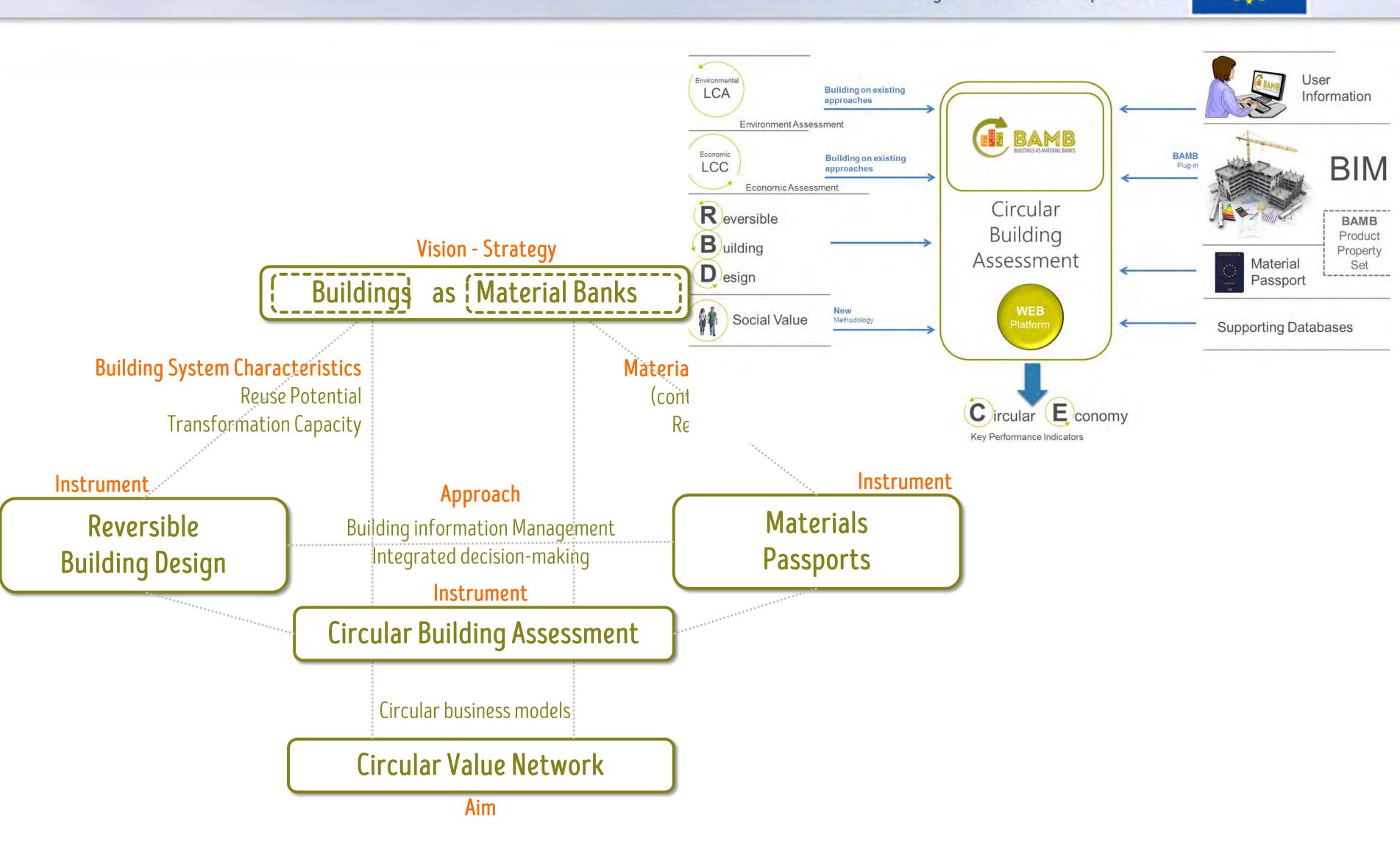








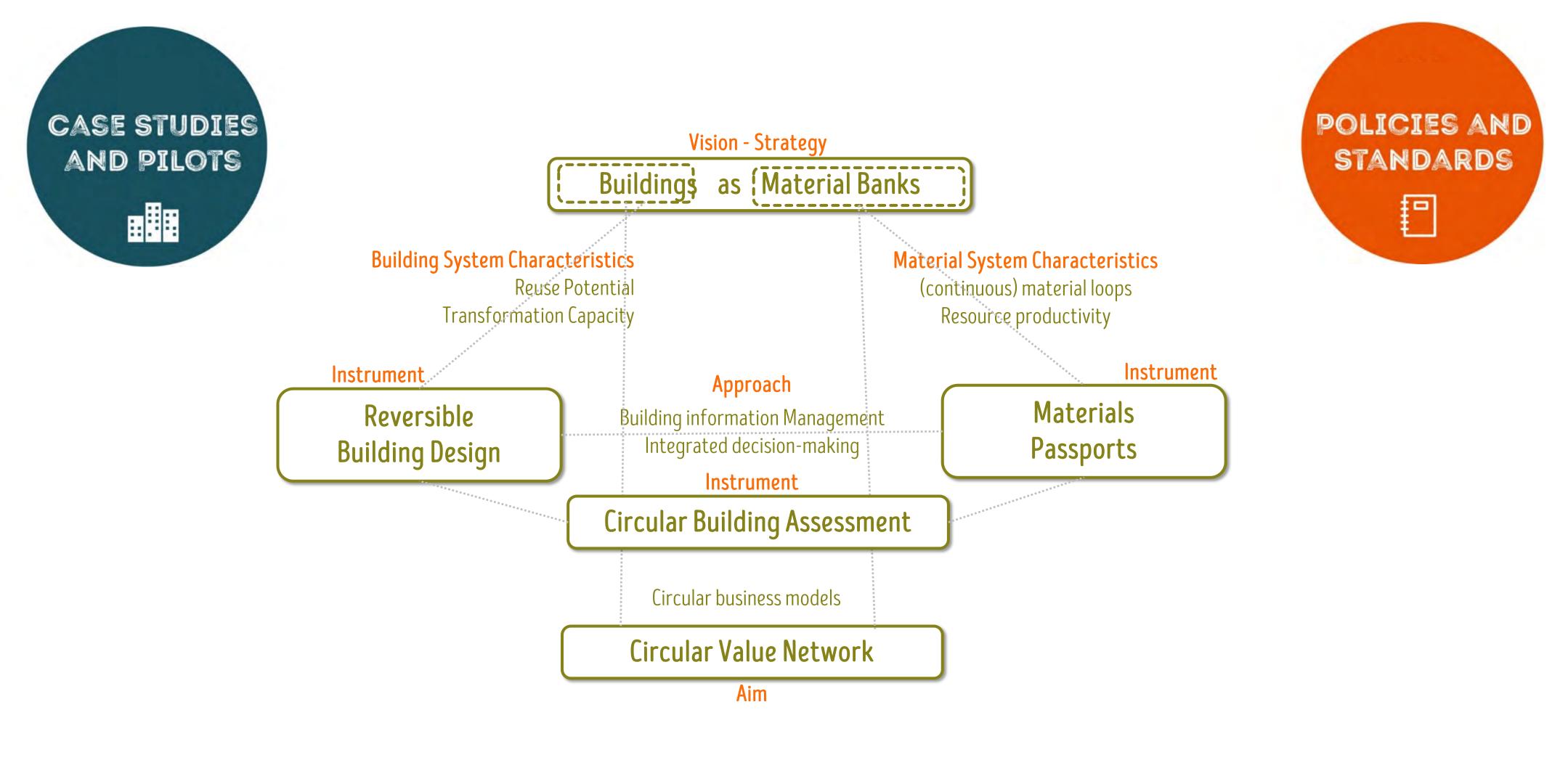




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CIRCULAR ECONOMY PROGRAMME

DINGS **CIRCULAR BY DESIGN**

CIRCULAR MATERIALS

CIRCULAR ECONOMY PACKAGE

CIRCULAR ECONOMY ROADMAP

CIRCULAR ECONOMY STRATEGY

AR CITIES **CIRCULAR ECONOMY**

CIRCUL

BUII

CUI

CIRC HOTSP









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Caroline Henrotay - Brussels Environment

Co-funded by the Horizon 2020 Framework Programme of the European Union



C.O.





Opening keynote - 'The Secret Life of Buildings'

James Drinkwater, Director of World GBC's Europe Regional Network









'The Secret Life of Buildings'

BAMB Final Event - 5 February - Brussels

James Drinkwater Director, Europe, WorldGBC





have a certain practical interest".

"Although organ transplantation is today merely a clinical curiosity, it may one day

Dr Alexis Carel, 1902







Green buildings use 'circular' principles, where resources aren't wasted

> Green buildings produce fewer emissions, helping to combat climate change

Green buildings can improve biodiversity, save water resources & help to protect forests

Through















building green we create strong, global partnerships

Construction/buildings account for:

½ of all extracted materials
½ of all energy consumption
⅓ of all water consumption
⅓ of all waste

in the EU

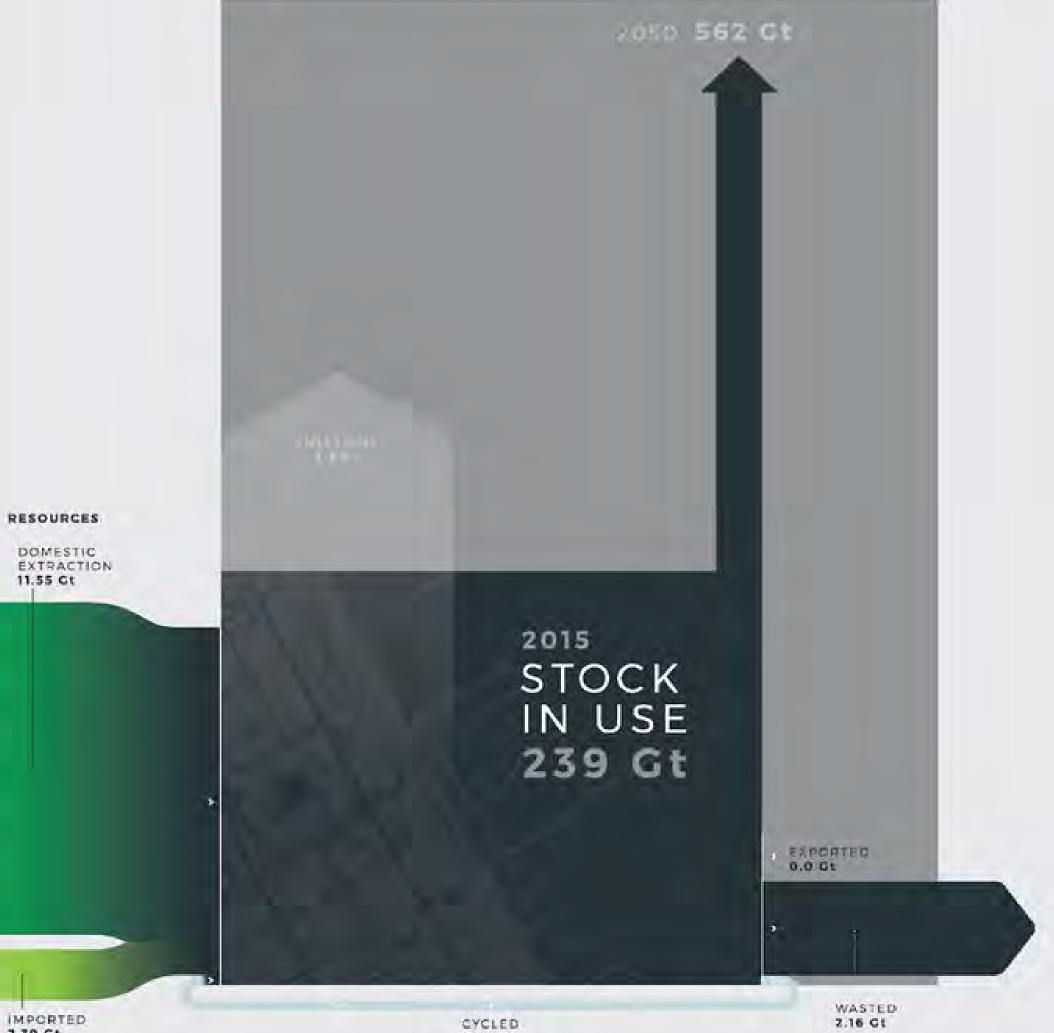


THE BUILT ENVIRONMENT BIG IMPACTS, GETTING BIGGER



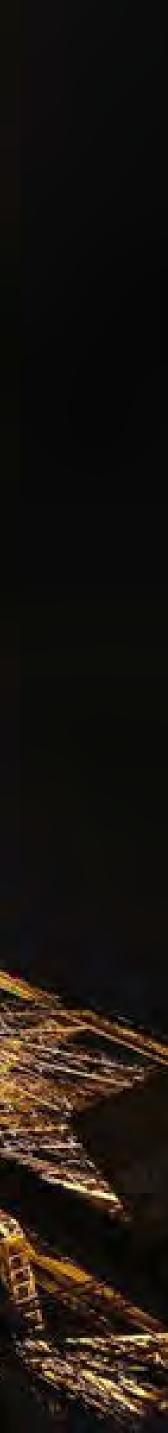


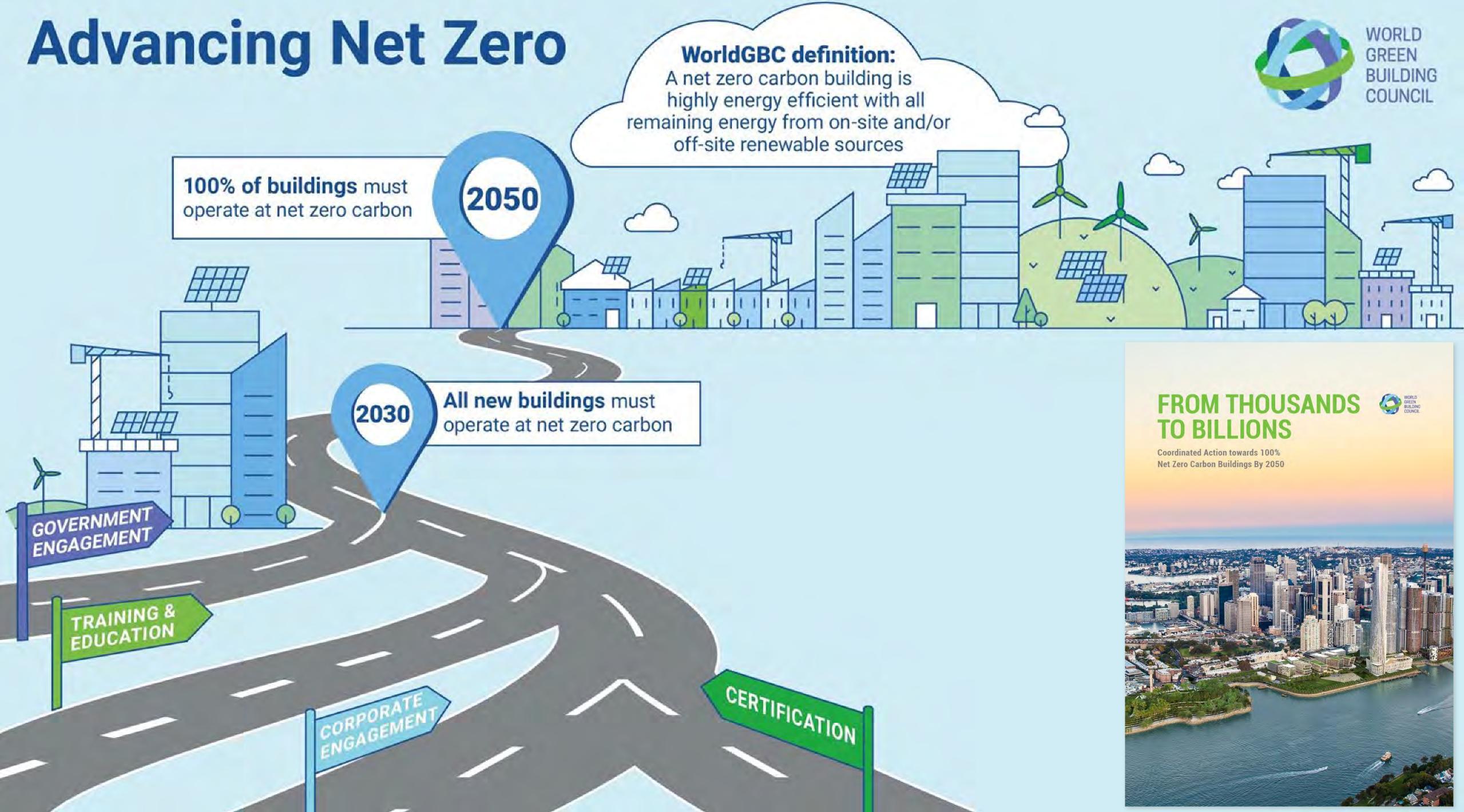




IMPORTED







The Net Zero Carbon Buildings Commitment

Globally the challenge is now to accelerate the debate around carbon emissions across the full life cycle

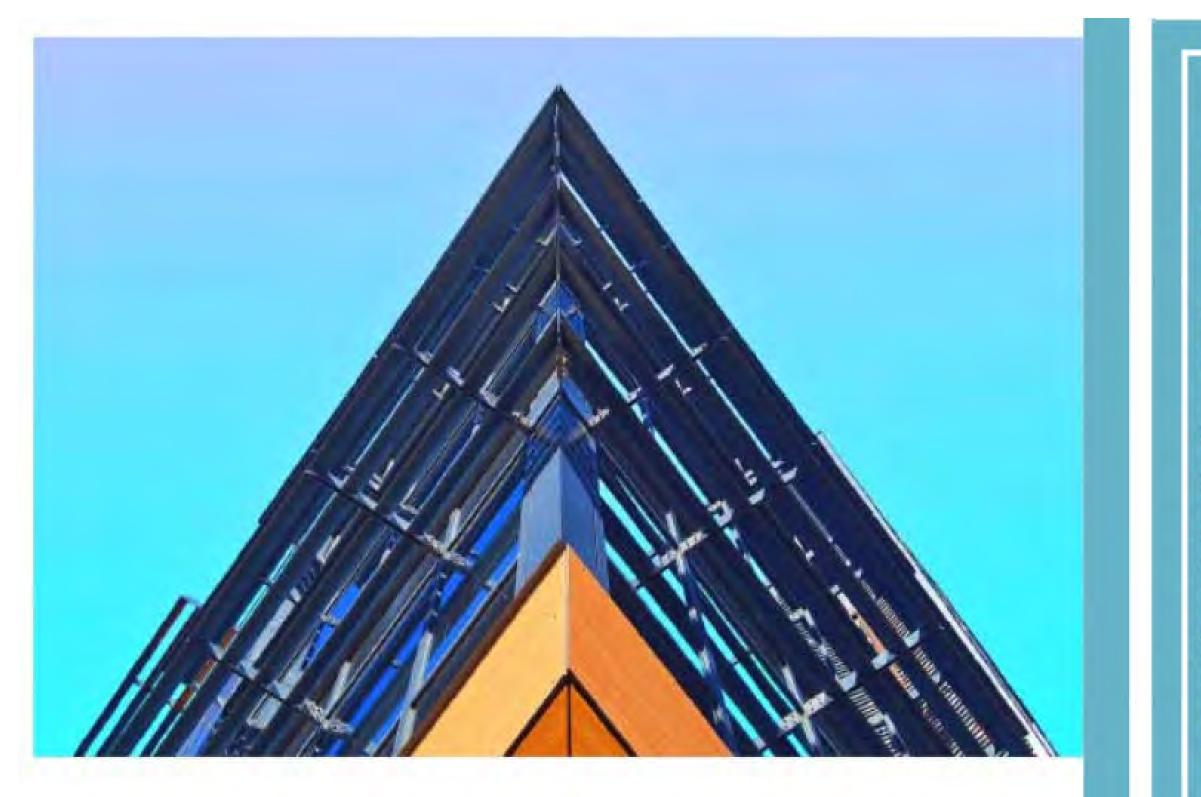






Businesses Cities States & Regions





THE EMBODIED CARBON REVIEW

EMBODIED CARBON REDUCTION IN 100+ REGULATIONS & RATING SYSTEMS GLOBALLY

With the generous support of:







Ympäristöministeriö Miljörninisterlet Ministry of the Environment

DOWNLOAD THE FREE STUDY

STATUS QUO, SUCCESS CASES, BEST PRACTICES AND OUTLOOK FOR IN CONSTRUCTION

One Click

Liik enne vira sto

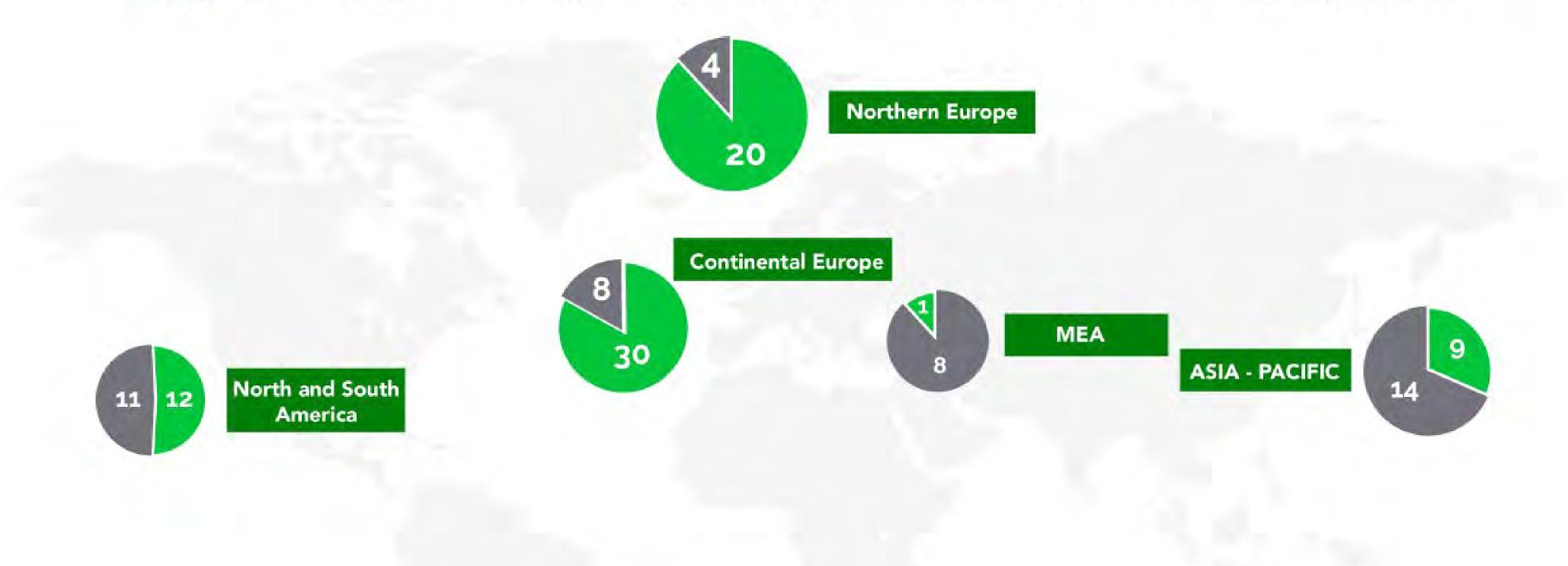
Global embodied carbon emissions from new buildings alone will exceed 100 gigatons by 2060 if unchecked, rising to over 230 gigatons if all renovation activity and infrastructure construction are included.







PREVALENCE OF EMODIED CARBON IN GREEN CONSTRUCTION SYSTEMS



Europe is a global leader in this field

Source: Bionova



19

Embodied carbon in scope

Scope: multi-criteria building & infrastructure certifications & carbon only regulations

International

An opportunity to bolster efficiency and competitiveness



Embodied carbon not in scope



The Secret Life(Cycle) of Buildings

Recycle

Use

Disposal

Demolition

Raw Extraction Manufacturing

> To achieve the Paris Agreement the EU must lead a shift in the global debate towards the full life cycle.

Construction/ Installation

To date EU buildings policy has focused on tackling use phase / operational emissions.





The added complexity of our value chain

4.3% Real estate agents, property management and facility management

Many different perspectives, drivers, metrics, data tools...

.9% Developers, construction companies and contractors

Investors and financial community

Universities and technical research institutes

> 3.2%-Other

Environmental NGOs, associations and professional societies

> 3.6% Governments/

government entities

3.2%-

2.4%-

3.3%

28.2%

13.7% Individuals (sector not specified)

23.7% **Building product** manufacturers and distributors

6%

Utilities, energy service providers, energy savings companies

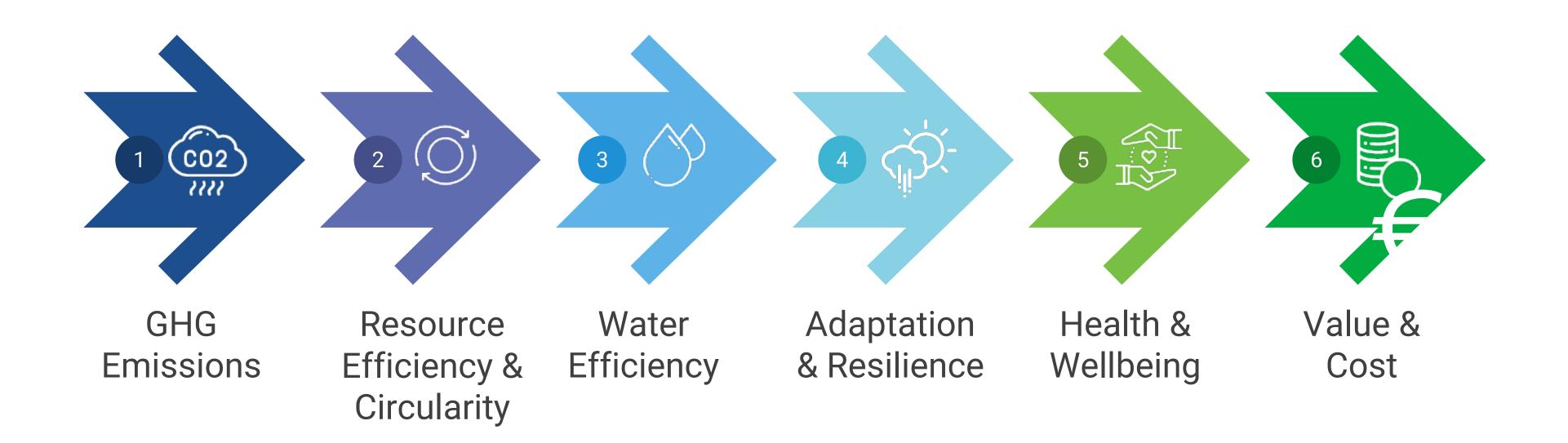
> 8% Tenants/occupiers











Level(s): Shifting the Debate To Life Cycle and Circular Thinking



We need a common language across the whole value chain

... focused on performance across the full life cycle

... that provides robust and comparable data to enable decisions

Level(s) can be the foundations of future building sector policy in the EU, and help establish a *world* leading approach to circular and life cycle thinking







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