



WORLD
GREEN
BUILDING
COUNCIL

***Decarbonisation and Circular Economy
European Policies and the Role of GBCs***

World Green Building Council

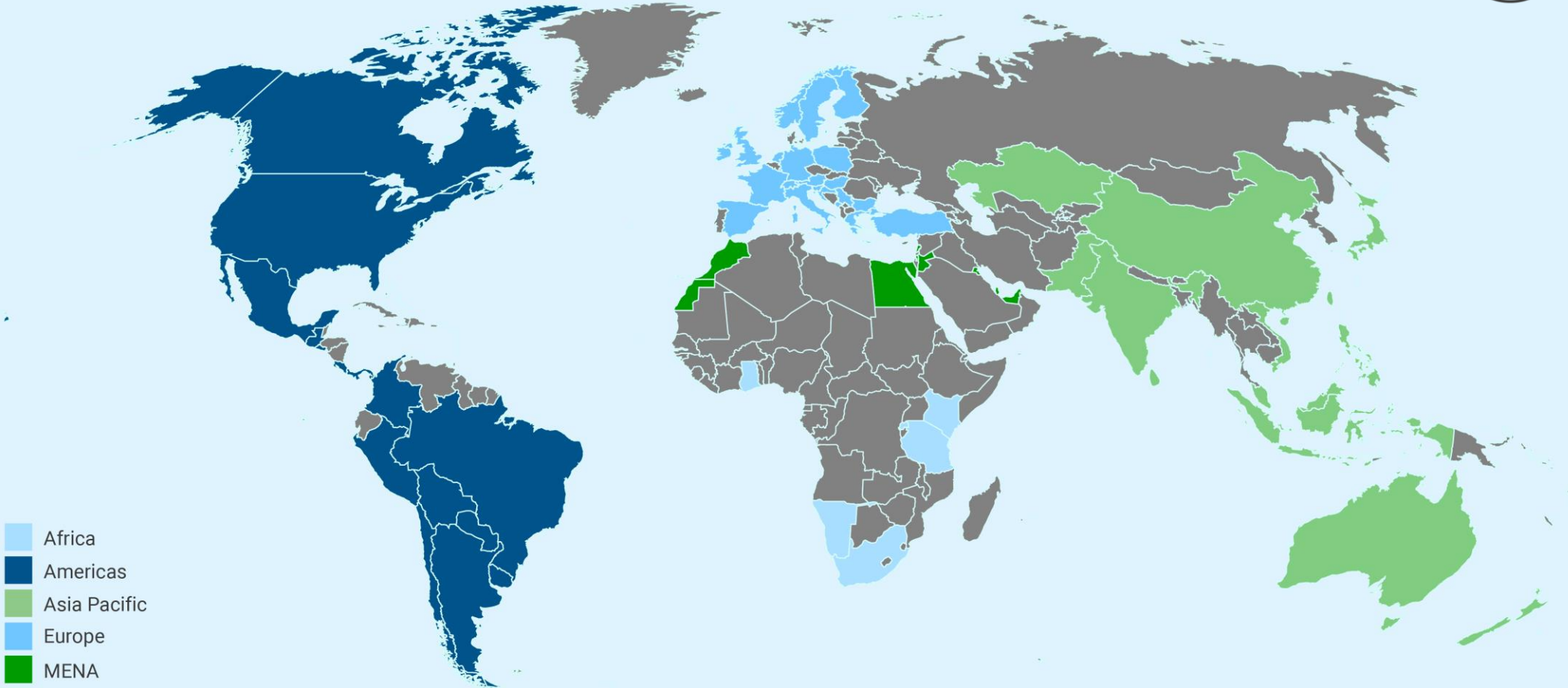
A global network of Green Building Councils, with the aim of creating green buildings for everyone, everywhere. Uniting nearly 70 countries and 50,000 members.



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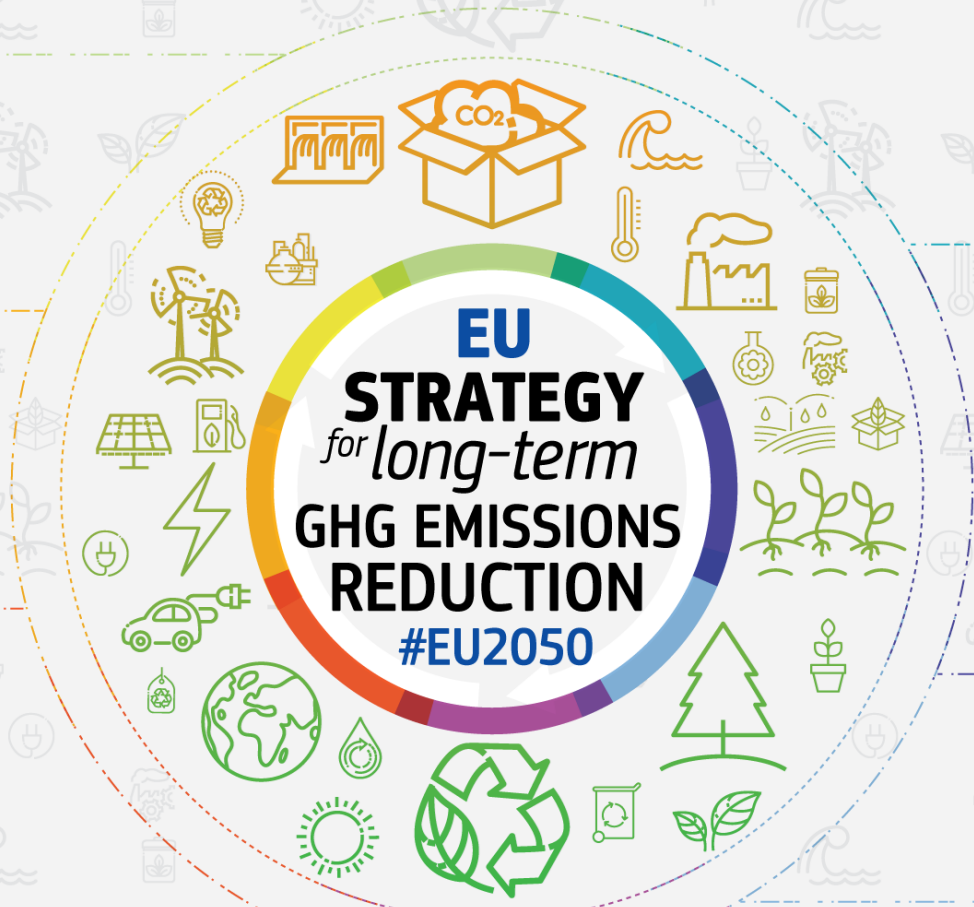


Green
Building
Council
Italia



MEETING GLOBAL GOALS





At COP24 European GBCs from 20 countries called on the Commission to recognise the unique role of the built environment in delivering the Paris Agreement.

- 1. Prioritise Operational Emissions**
- 2. Address Full Life Cycle Impacts**



Green Building Council Italia



WORLD GREEN BUILDING COUNCIL



Achieving Paris Agreement

=

Urgent Action Towards
Net Zero Carbon Buildings

Advancing Net Zero



WorldGBC definition:
A net zero carbon building is highly energy efficient with all remaining energy from on-site and/or off-site renewable sources

100% of buildings must operate at net zero carbon



All new buildings must operate at net zero carbon

GOVERNMENT ENGAGEMENT

TRAINING & EDUCATION

CORPORATE ENGAGEMENT

CERTIFICATION

Key Principles

1. Measure and disclose carbon

Carbon is the ultimate metric to track; buildings must achieve an annual operational net zero carbon emissions balance based on metered data



2. Reduce energy demand

Prioritise energy efficiency to ensure that buildings are performing as efficiently as possible, and not wasting energy



3. Generate balance from renewables

Supply remaining demand from renewable energy sources, preferably on-site followed by off-site, or from offsets



4. Improve verification and rigour

Over time, progress to include embodied carbon and other impact areas such as zero water and zero waste





Advancing Net Zero Snapshot: Brazil

Informational poster for Brazil, featuring icons for energy, industry, and transportation, and a map of South Africa.

Advancing Net Zero Snapshot: South Africa

Informational poster for South Africa, featuring icons for energy, industry, and transportation, and a map of South Africa.

Advancing Net Zero Snapshot: France

Informational poster for France, featuring icons for energy, industry, and transportation, and the H2E logo.

Advancing Net Zero Snapshot: Australia

Informational poster for Australia, featuring icons for energy, industry, and transportation, and the H2E logo.

Advancing Net Zero Snapshot: Canada

Informational poster for Canada, featuring icons for energy, industry, and transportation, and the H2E logo.

CUMULATIVE EFFECT

- 10 member GBCs committed to developing a net zero carbon certification scheme
- Demonstration projects and training are being initiated in 2018
- Monitor effectiveness and collect data
- Participants will work together to create a framework for other countries to create certifications



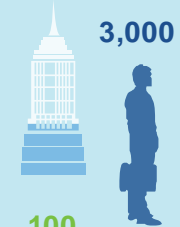
2017

50 1,000



2018

30 3,000



2019

100



500

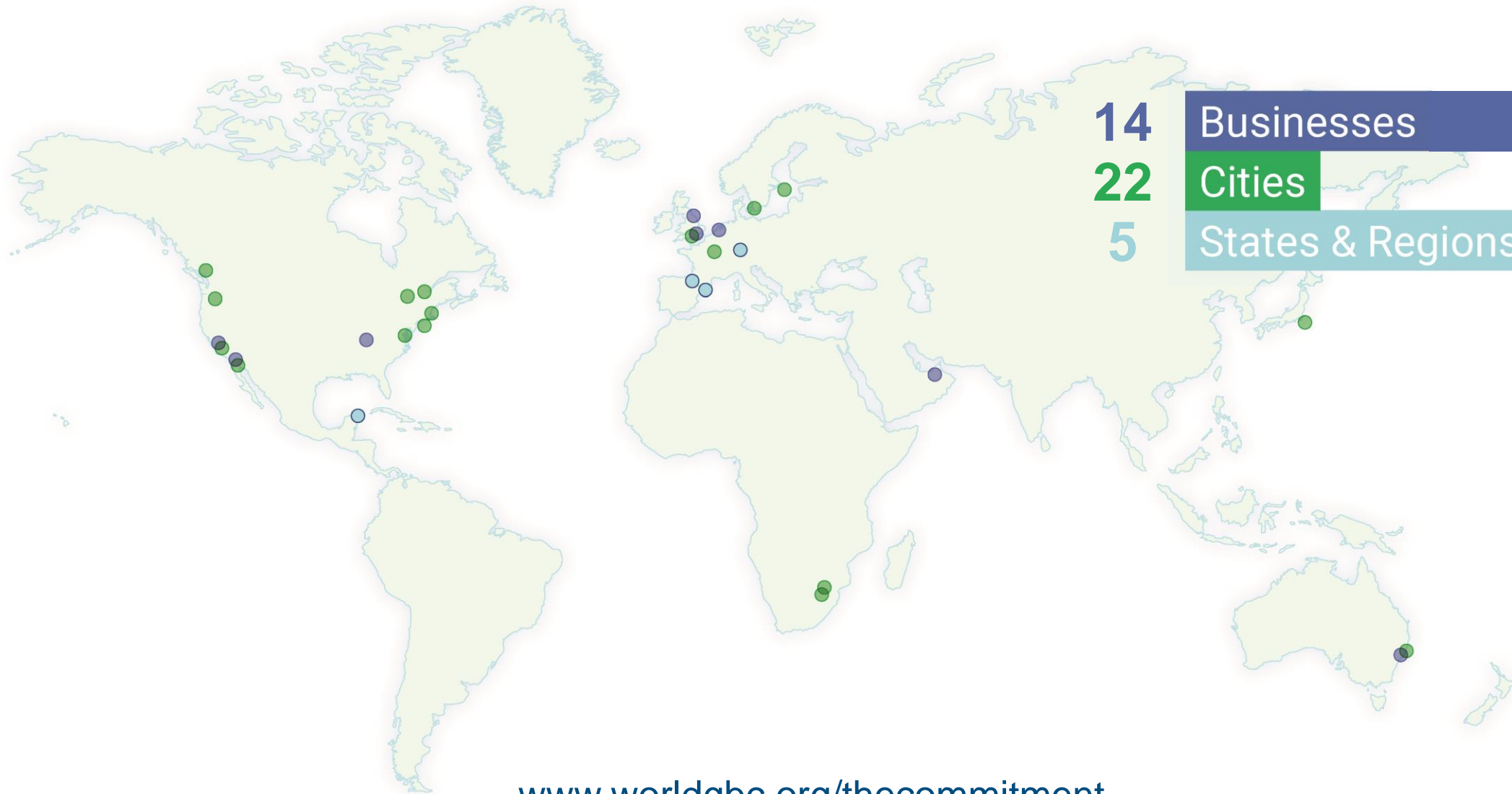


10,000



2020

The Net Zero Carbon Buildings Commitment



www.worldgbc.org/thecommitment

A low-angle, upward-looking photograph of a traffic light on the left side of the frame. The traffic light has three lenses: a red one at the top, an amber one in the middle, and a white one at the bottom. The background is a tall, multi-story apartment building with many windows, creating a strong sense of height and urban density. The sky is overcast and grey.

97%

of our buildings are **not good enough** in Europe

x3

energy efficient renovation rates **must triple**

1.5

energy efficient renovations **every minute**



The national
renovation
strategy
challenge

EPBD III
“a highly **energy
efficient** and
decarbonised building
stock **by 2050**”



Co-Creating Europe's National
Renovation Strategies



This project has received funding from the European
Union's Horizon 2020 research and innovation
programme under grant agreement No 649727.



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IMAGINE...

A built environment that enables a high
quality of life for all





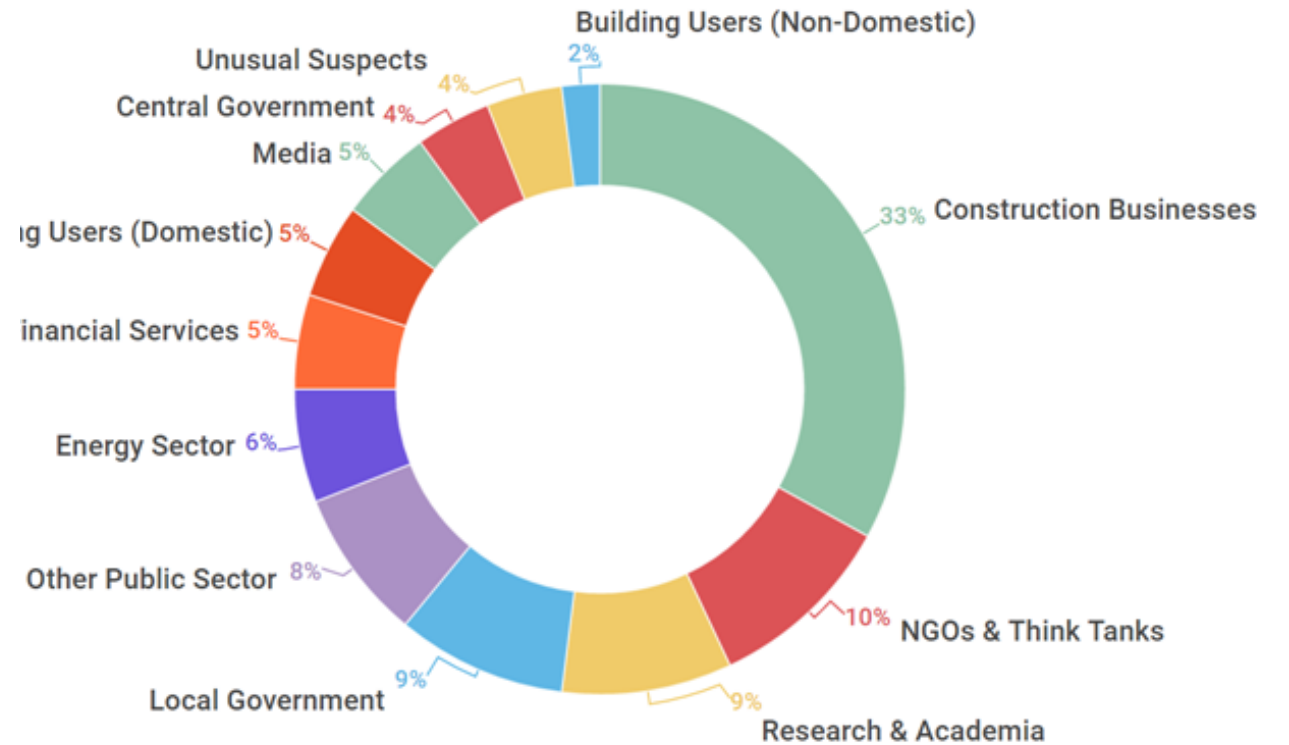
Co-Creating Europe's National Renovation Strategies



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IL PERCORSO DI DIALOGO IN ITALIA

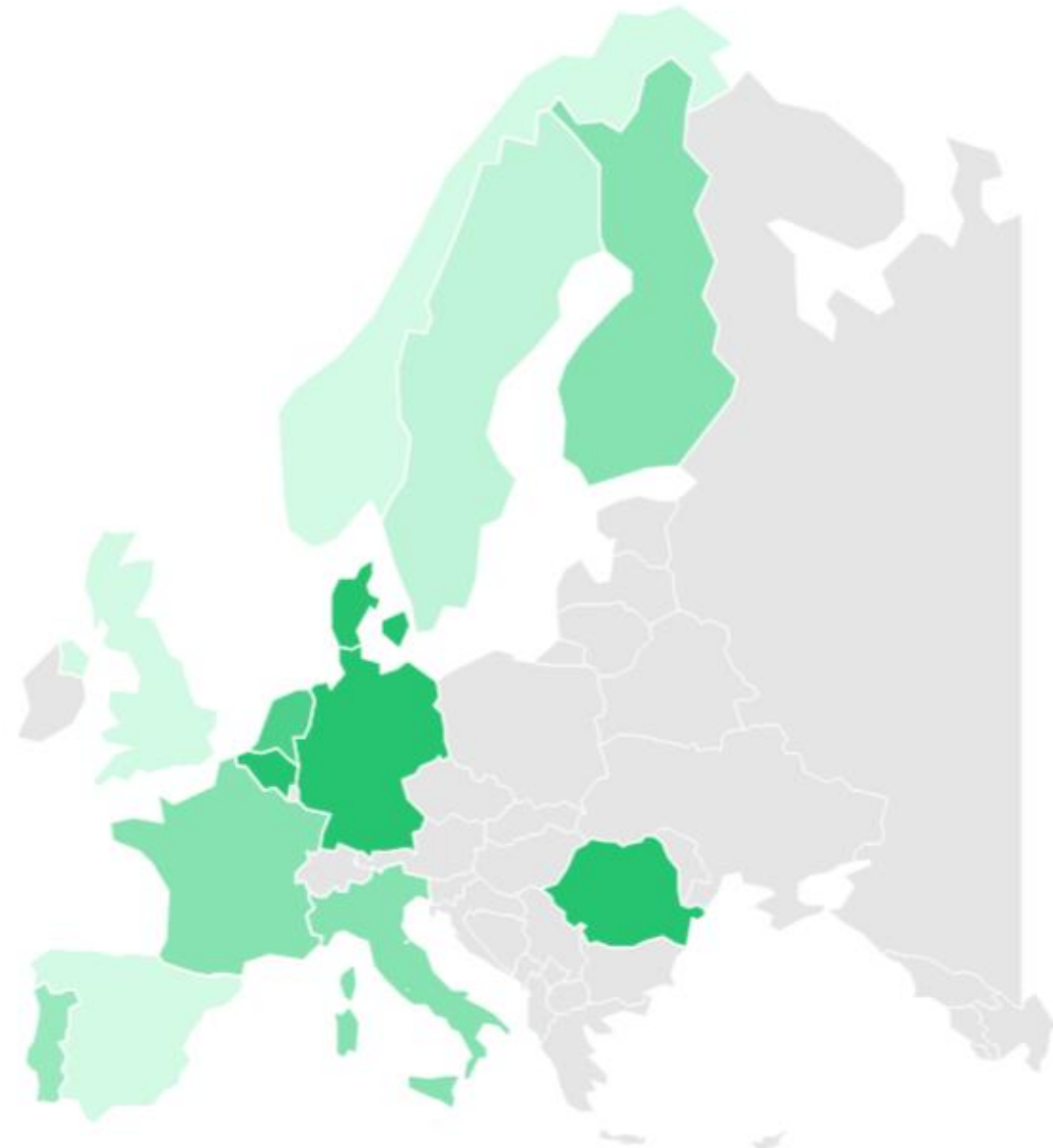


2 Years - 14 Countries - 100 Events - 2,000 Organizations

Energy Efficient Mortgages Initiative



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 746205





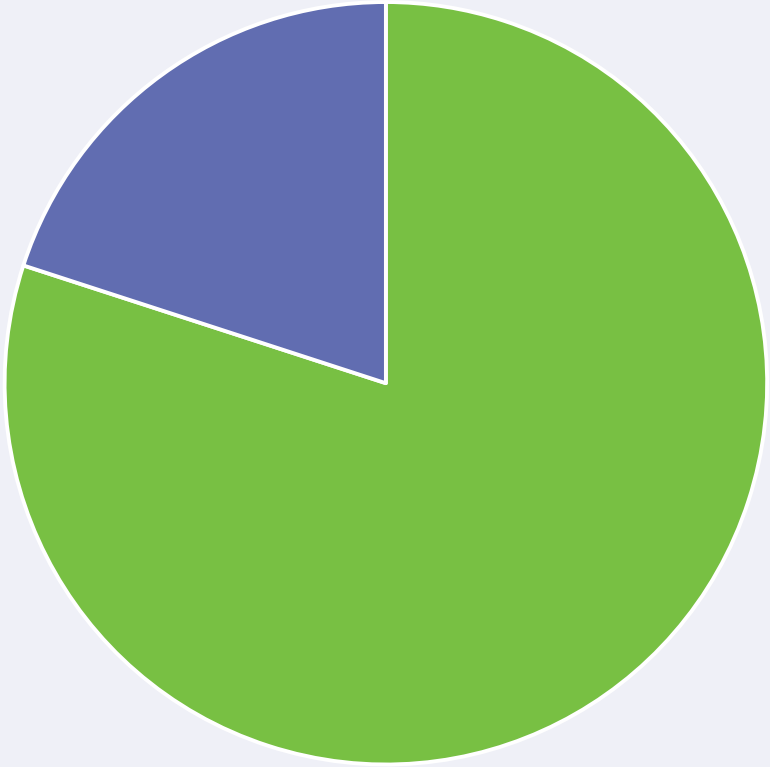
European
Commission

CIRCULAR ECONOMY

Closing the loop

AN AMBITIOUS EU CIRCULAR ECONOMY PACKAGE

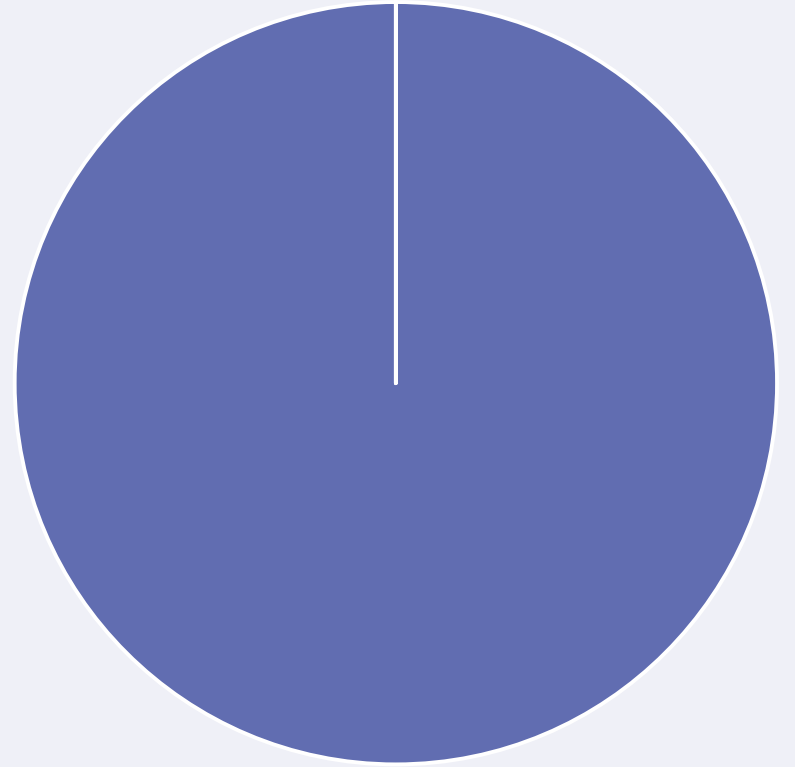
CIRCULAR ECONOMY



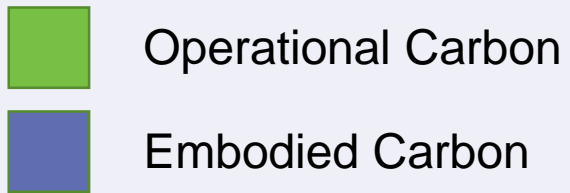
Global average

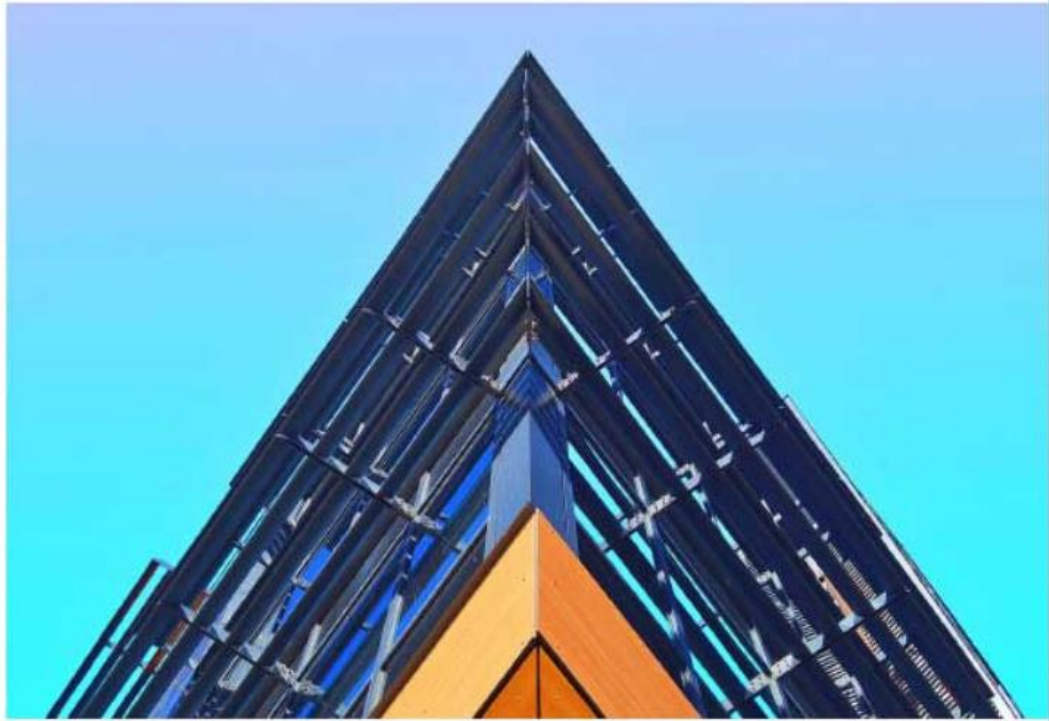


Typical EU new build



Net Zero
Operational Carbon





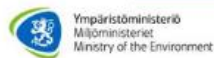
DOWNLOAD THE FREE STUDY

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

THE EMBODIED CARBON REVIEW

EMBODIED CARBON REDUCTION IN 100+
REGULATIONS & RATING SYSTEMS GLOBALLY

With the generous support of:

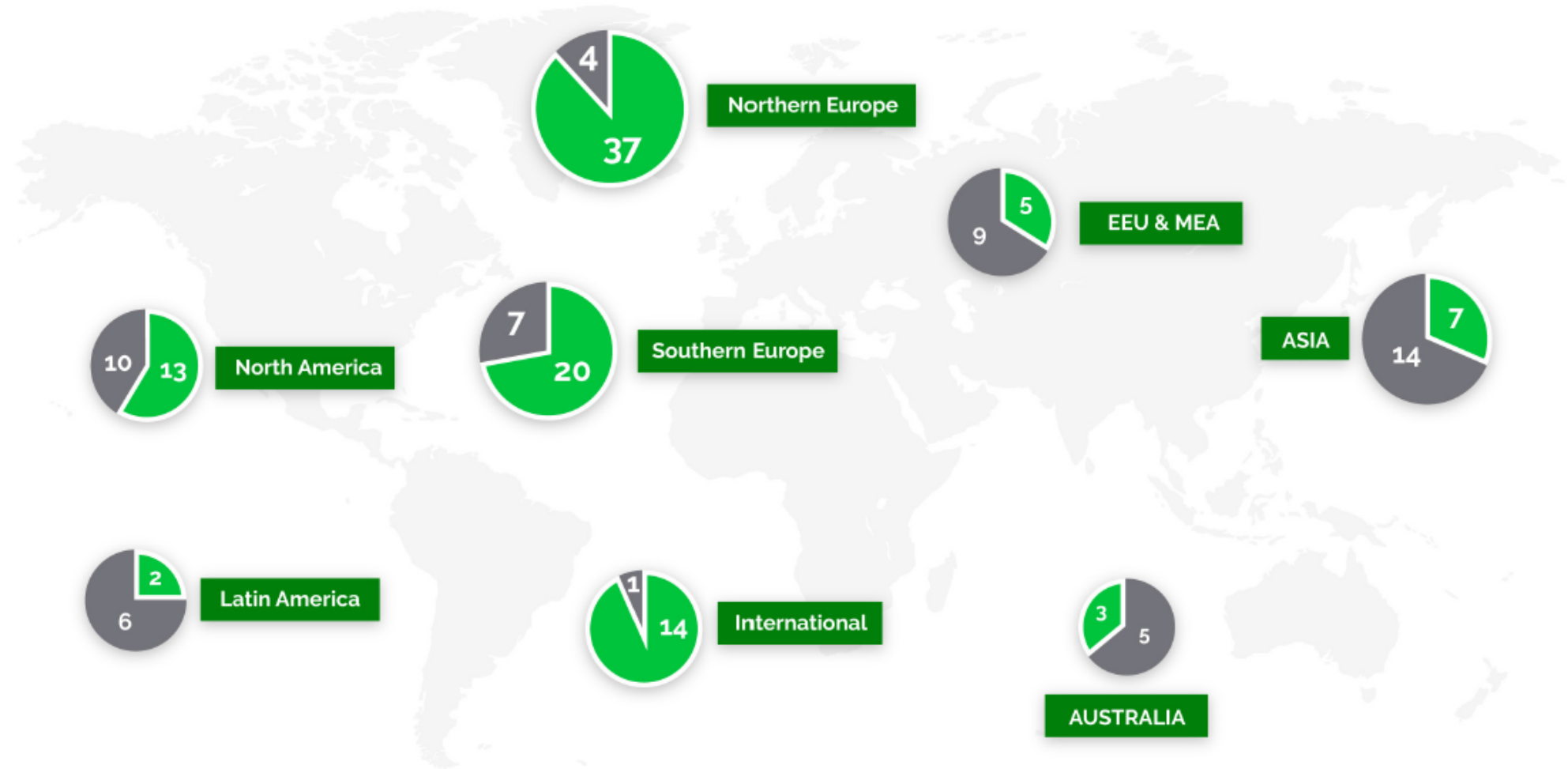


Global embodied carbon emissions from new buildings alone will exceed 100 gigatons by 2060 if unchecked, rising to over 230 gigatons if all renovation activity and infrastructure construction are included.



CARBON IN GREEN CONSTRUCTION SYSTEMS

SCOPE: MULTI-CRITERIA BUILDING & INFRASTRUCTURE CERTIFICATIONS & CARBON ONLY



■ Embodied carbon in scope

■ Embodied carbon not in scope

(c) Bionova Ltd

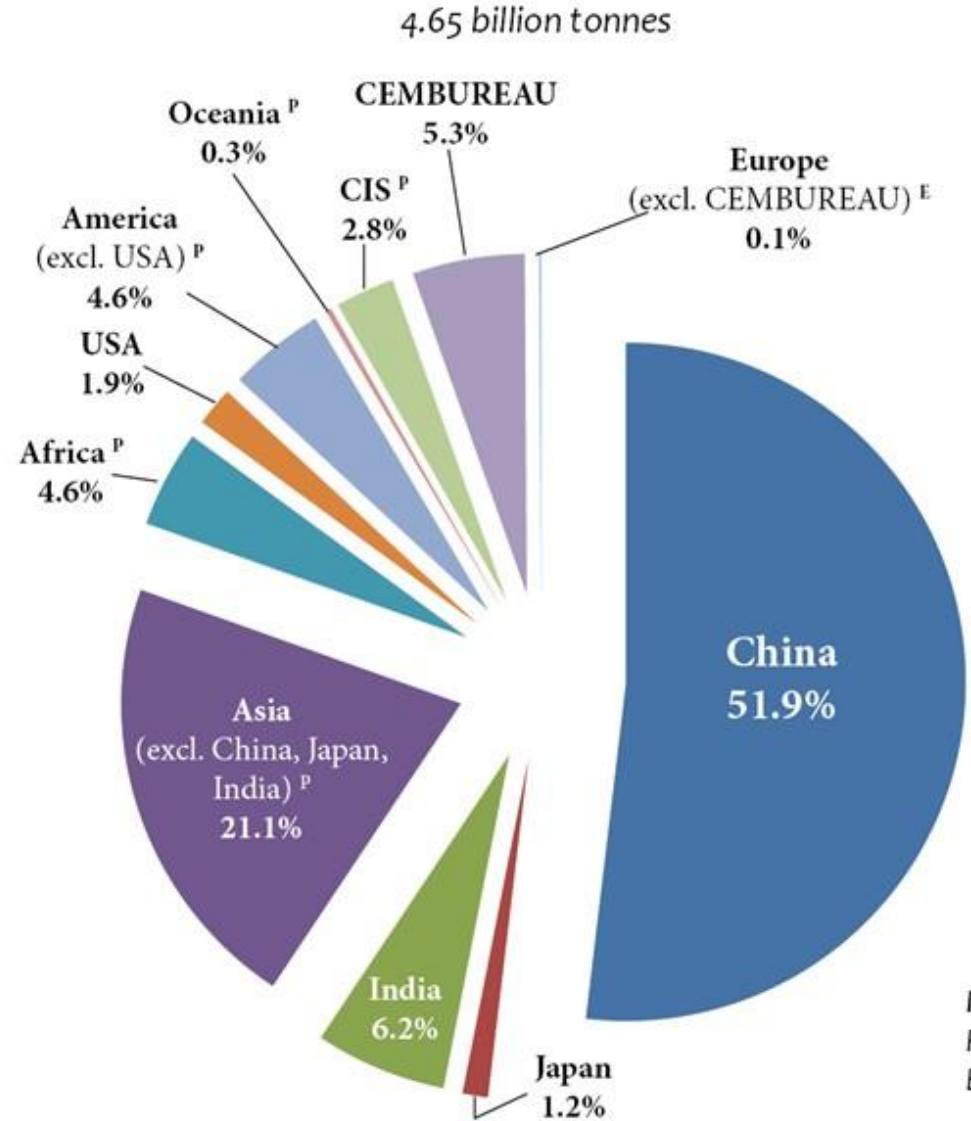
LATEST

China-EU agreement paves way for global adoption of circular economy

JULY 16, 2018



World cement production 2016, by region and main countries, %



Notes:
P - Preliminary
E - Estimate

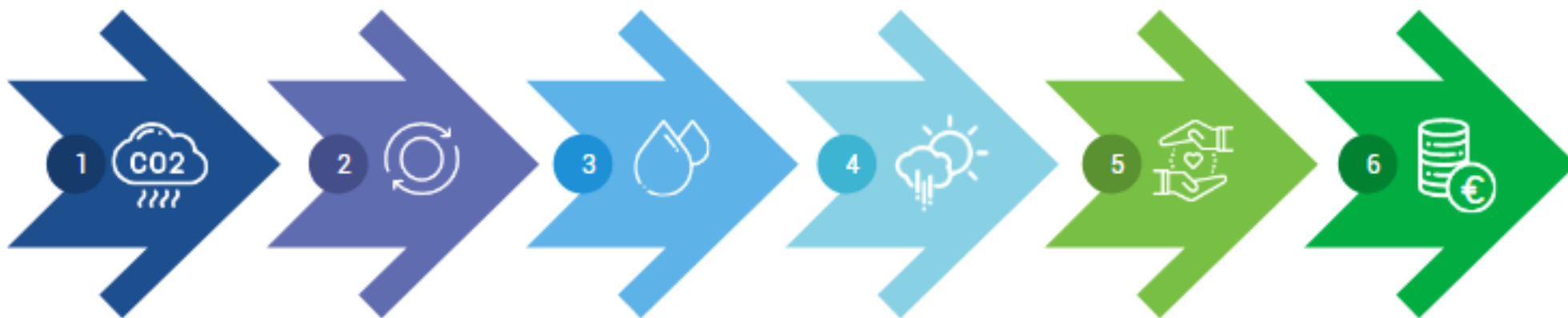
Source: CEMBUREAU



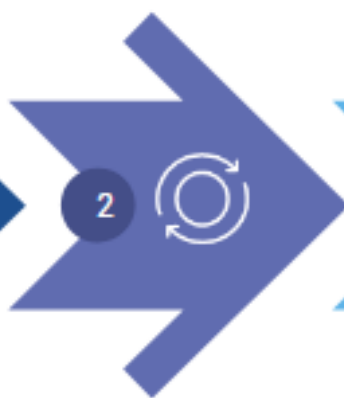
Level(s)

Building sustainability performance

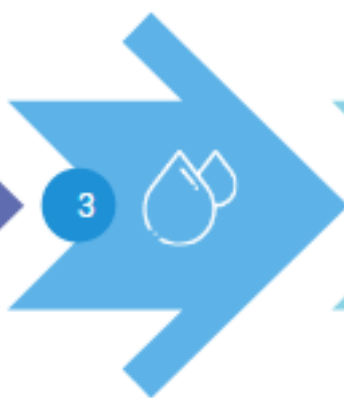
#BuildCircular



GHG Emissions



Resources & Circularity



Water Efficiency



Adaptation & Resilience



Health & Wellbeing



Value & Cost

2012/13:
European GBCs start advocating for a common European framework to assess life cycle performance

2015: DG ENV & GROW start to develop framework of common lifecycle indicators.

GBCs from across Europe advised to ensure this was built on national best practice approaches

Summer 2016:
Public consultation on 14 indicators against each of these macro-objectives.

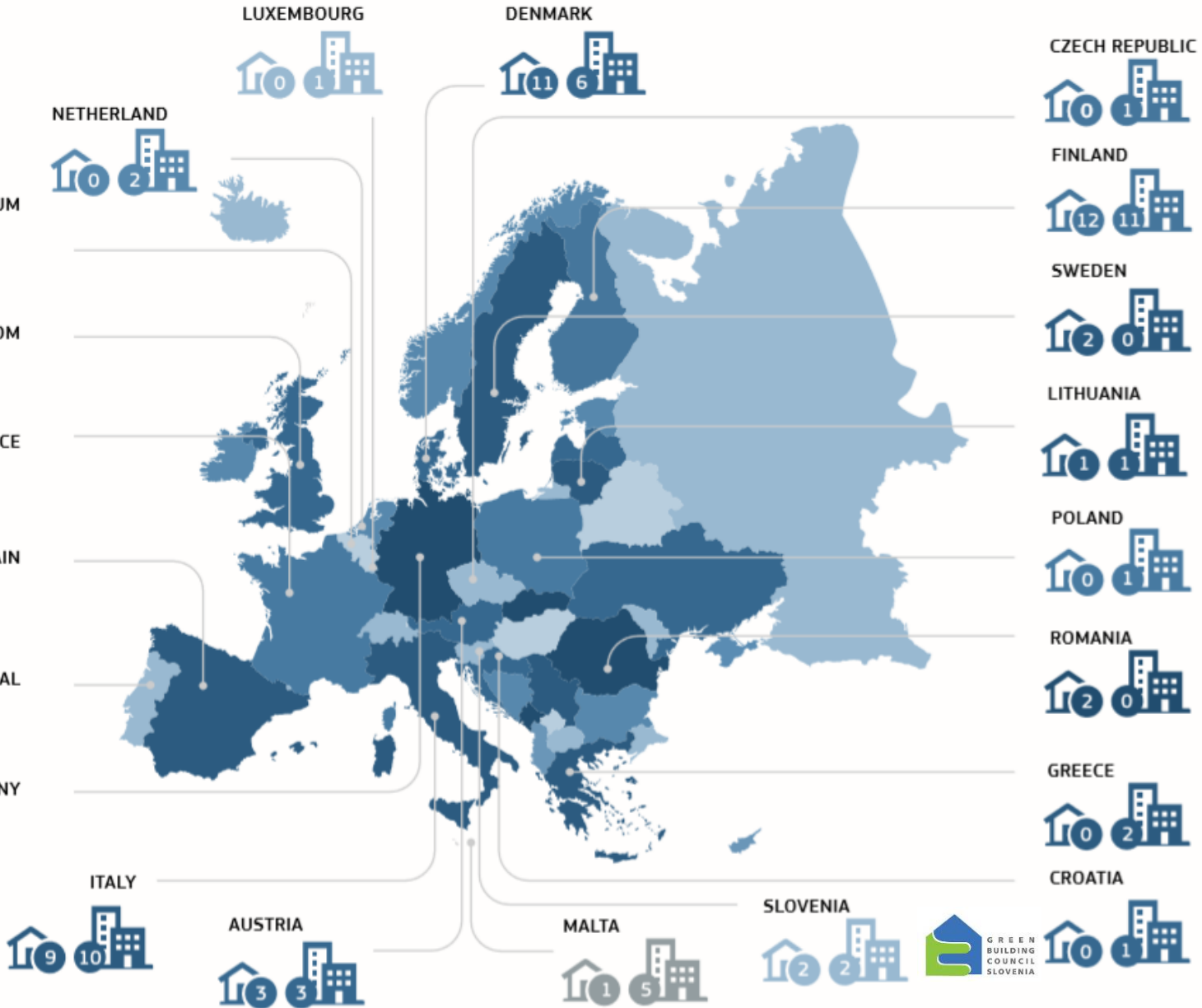
2014: Commission publish Communication on Resource Efficiency in Buildings, proposing development of a common European framework.

GBCs ran pan-EU consultation with over 500 stakeholders

2015-16: 6 “Macro-objectives” identified based on existing EU policy / national codes / certification tools and “hotspots”

Health & Comfort included after intervention of GBCs to ensure framework can drive demand

2017: Commission Launch “Level(s)” framework during World Green Building Week and testing phase starts.
GBC national events engage potential testers



If we want a European agenda on sustainable buildings, Level(s) needs YOUR support.

Industry and policy-makers must back this framework to move our sector towards net zero emissions and circular construction.

A new European Commission and Parliament in 2019 mean NOW is the time take ACTION and ADVOCATE.

Level(s) could become the foundations of future EU buildings policy and cooperation, ensuring we continue to lead the world.

Thank you!
jdrinkwater@worldgbc.org

Director, Europe

