

Welcome to a Worldwide Community...

—
Green buildings for everyone, everywhere

Moderator

- *Mech. Engineer*
- *Msc in Energy & Environmental Investments*
- *Energy Inspector in Buildings & HVAC*
- *Sustainable buildings Auditor DGNB*
- *Passive house Designer, iPHA*
- *Certified Thermographer*
- *Certified for HFC management, 2015/2067*
- *Certified Project Manager KPMG*

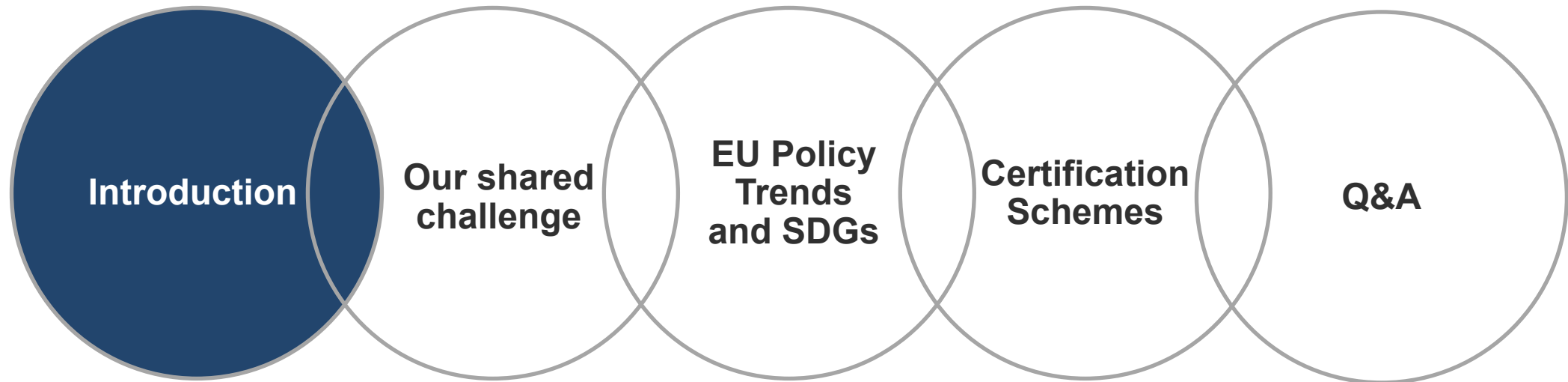


Dimitris Managoudis

Vice President & Co-Founder **SBC Greece**

CEO ICON GROUP P.C.

COO & Co-Founder **EVOTROPIA P.C.**





SBC Greece

Independent,
Non-profit

Official member of
WorldGBC



WELCOME TO SBC GREECE

**Sustainable Building
Council Greece.**



Vision

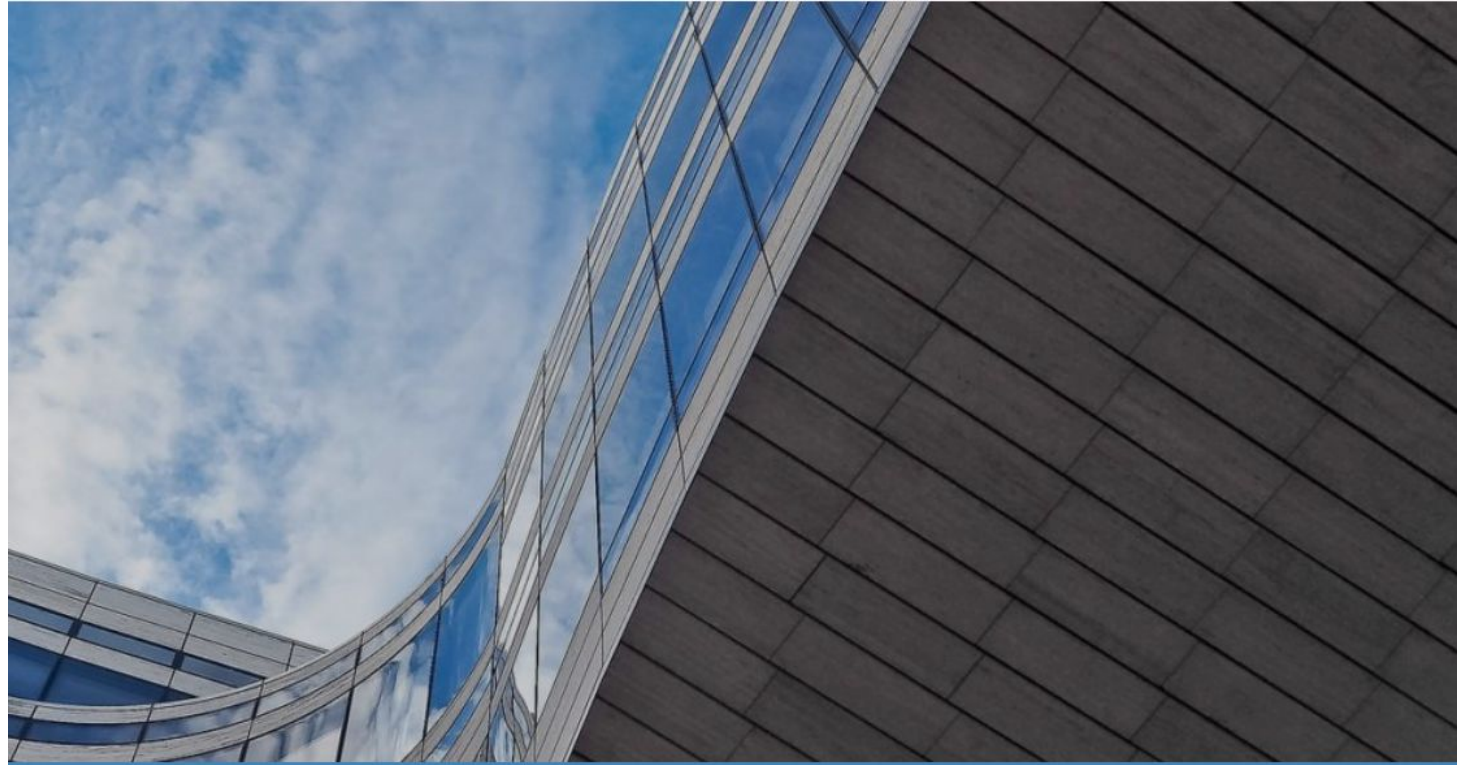
To establish a sound sustainable culture and behavior throughout the diverse nature of the built environment stakeholders in Greece





Mission

To lead and facilitate
the transformation of
the built environment
and its communities in
Greece,
Plan, Develop,
Construct, Maintain
Operate Sustainably





Sectors of Activity

- Research & Education
- Certification & Rating Systems
- Consultation & Advocacy
- Circular Economy





BoD of SBC Greece



Alex Athanassoulas

President



Dimitrios Managoudis

Vice President



Spyros Konstantakis

Secretary



Alexandros Archontidis

Treasurer



Pantelis Levantis

Member



Kostis Katsakioris
CEO



Akis Kekridis
Executive Director





SBC Members



AIDIGITS



AKPRAXIS G.P.



ALPHA ASTIKA AKINITA



ALUMIL



BOSTIK HELLAS



PHI SEQUENCE ARCHITECTURE



QPROJECT



RIZAKOS



ROUCHOTAS



SCHNEIDER ELECTRIC



BUILDING GREEN MAGAZINE



CALDA ENERGY



CONSQUARE



C2H



DAIKIN



SCHÜCO



SIEMENS GREECE



SIGNIFY



STIRIXIS



SPECTRUMLABS



DELOITTE



ECOVERITAS



EKA HELLAS



HELLENIC RECOVERY RECYCLING CORPORATION



EUROPA PROFIL ALUMINIUM S.A.



SUSTAINABILITY KNOWLEDGE GROUP



SUSTAIN



THERMOVENT HELLAS



TRASTOR



ΤΣΑΟΥΣΟΓΛΟΥ S.A.



TUV AUSTRIA HELLAS



TUV HELLAS



VALSAMIDIS A.T.E.A.



VITEX



XENIO NETWORK



EVOTROPIA EFA P.C.



FIBRAN SA



GREENCIVIL



ICON GROUP



INNOVECO

BODIES (INSTITUTES, ASSOCIATIONS ETC.)



ΕΛΛΗΝΟΓΕΡΜΑΝΙΚΟ ΕΜΠΟΡΙΚΟ & ΒΙΟΜΗΧΑΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ



HELLENIC PASSIVE HOUSE INSTITUTE



IPMA GREECE



KION ARCHITECTS SA



KNAUF



KNAUF INSULATION



ΚΟΦΙΝΑΣ



KOKOTAS LTD



KRAFT PAINTS



MK-MYKONOS ENGINEERS



OINO VATION WINES IKE



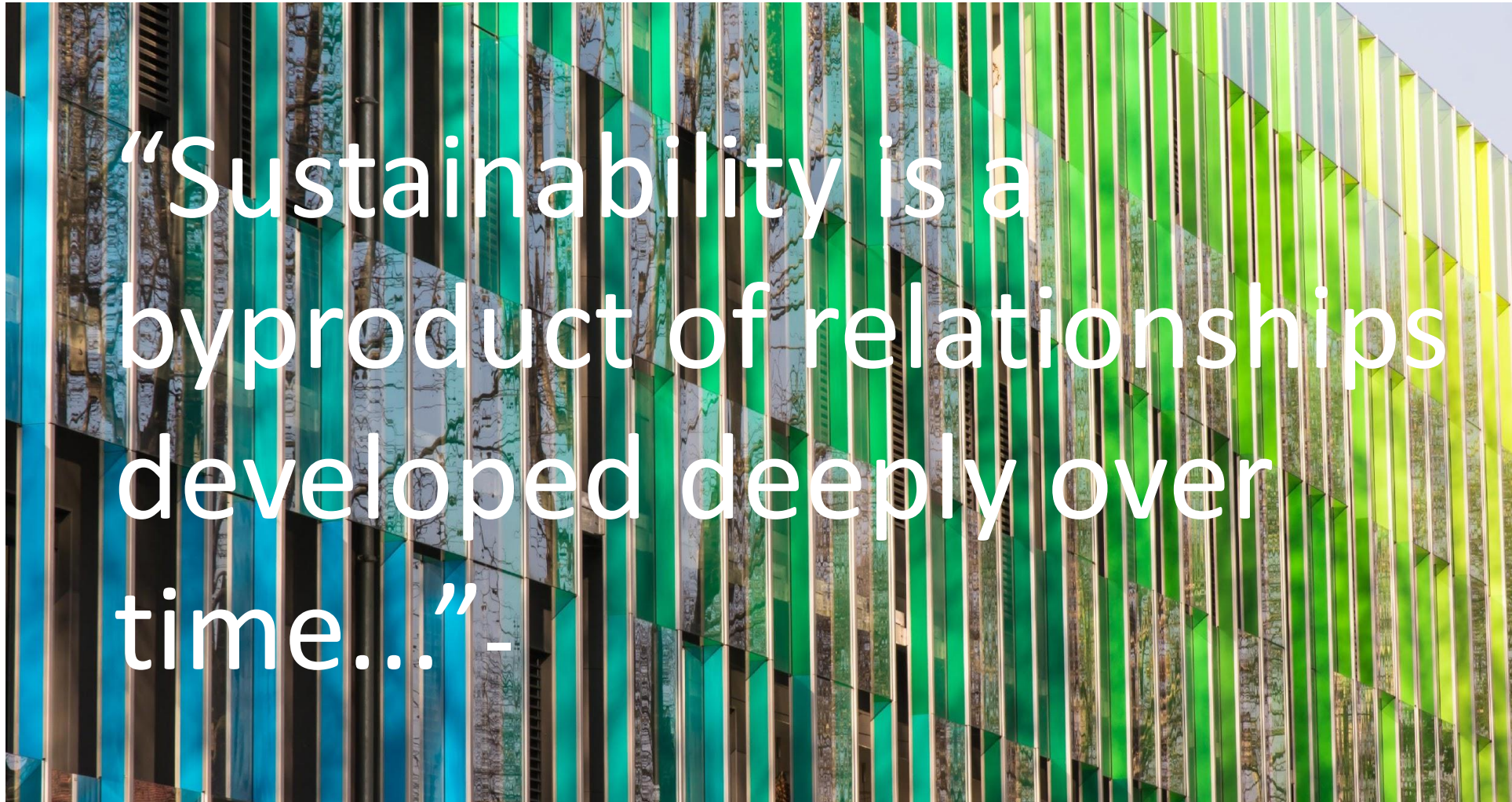
OLYMPIA ODOS S.A.

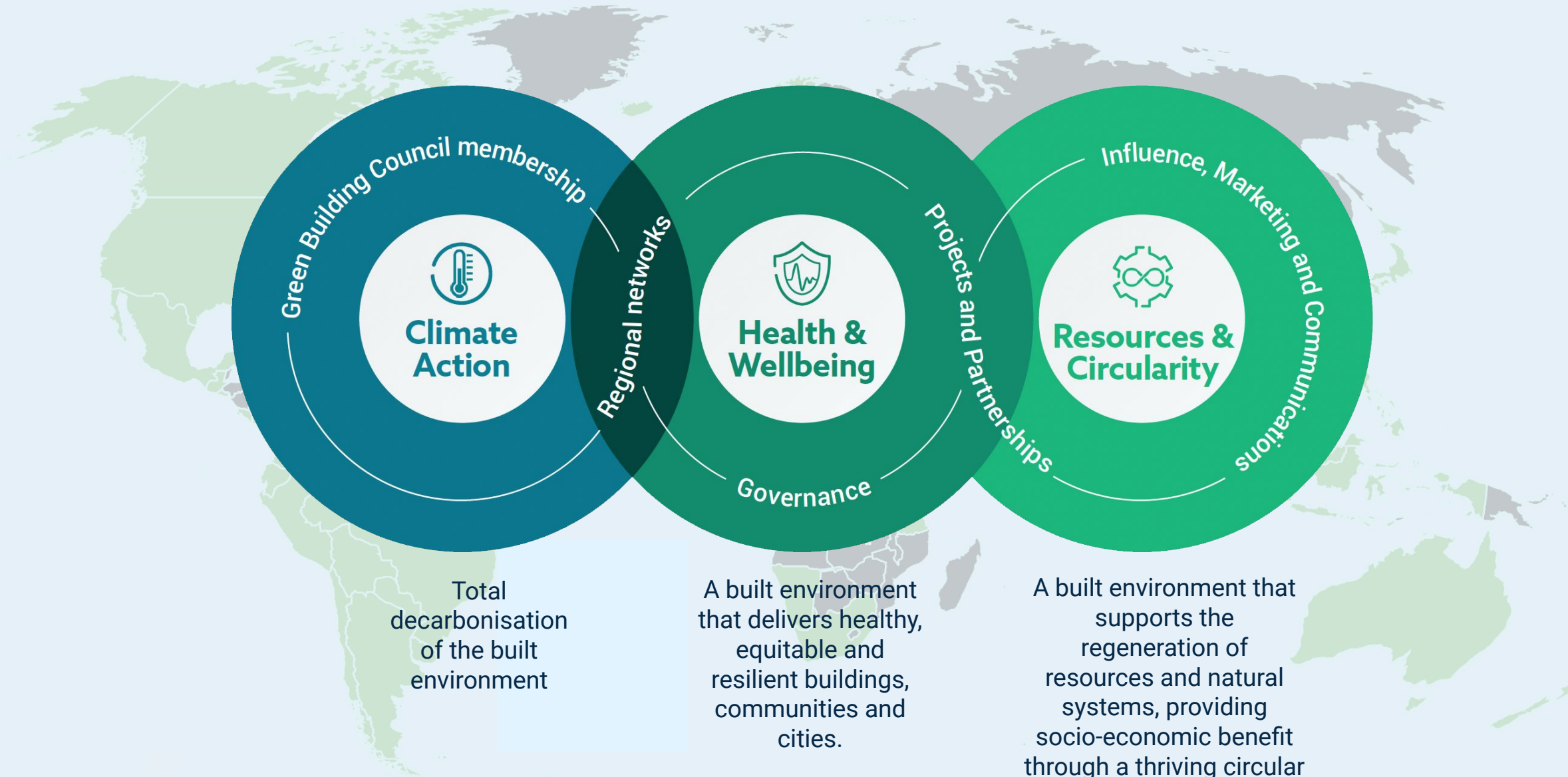


PANAGIOTIS KALLIMOROS



international project management association





Green Building Council membership



Climate Action

Total decarbonisation of the built environment

Regional networks



Health & Wellbeing

A built environment that delivers healthy, equitable and resilient buildings, communities and cities.

Governance

Projects and Partnerships



Resources & Circularity

A built environment that supports the regeneration of resources and natural systems, providing socio-economic benefit through a thriving circular economy

Influence, Marketing and Communications



Sustainability & Sustainable Development

Sustainability consists of fulfilling the needs of current generations without compromising the needs of future generations, while ensuring a balance between economic growth, environmental care and social well-being.



Sustainable Buildings

Seek to reduce negative impacts on the environment, and health and comfort of building occupants, thereby improving building performance, reducing consumption of non-renewable resources, minimizing waste, and creating healthy, productive environments..



Our Vision

A sustainable built environment at the heart of Europe's future

Our Mission

Unite our whole sector through action and advocacy that accelerates our shift towards this vision.

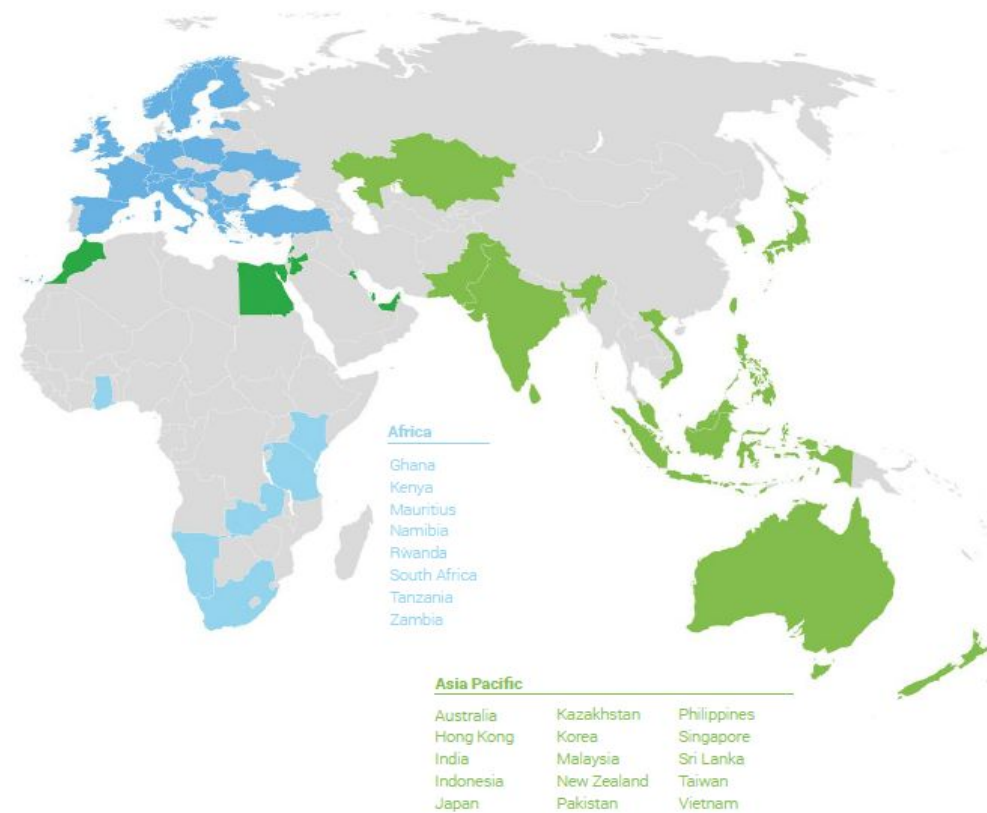
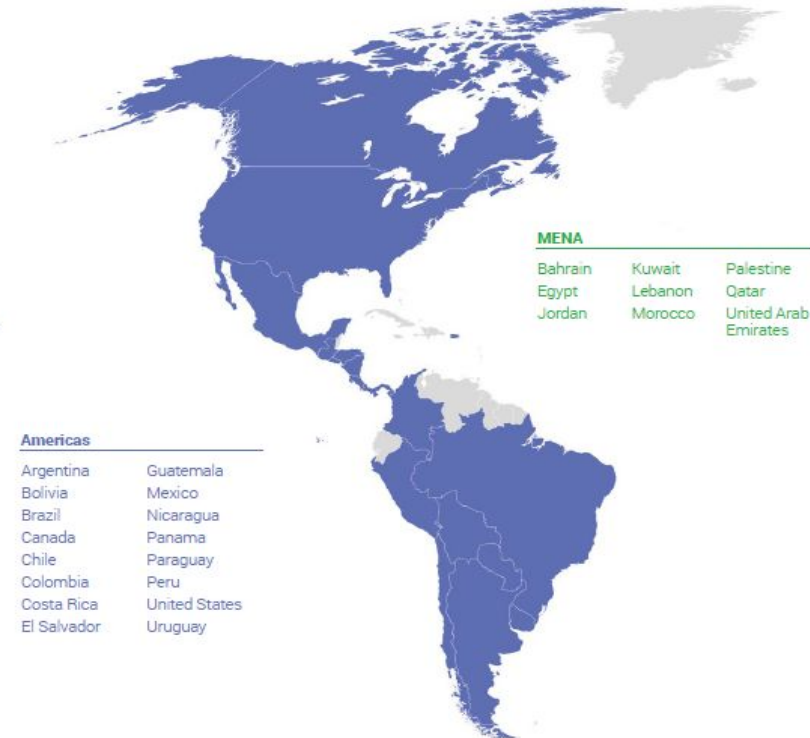




Our Green Building Councils

Europe

Austria	Germany	Latvia	Norway	Sweden
Bulgaria	Greece	Luxembourg	Poland	Switzerland
Croatia	Hungary	Macedonia	Serbia	Turkey
Finland	Ireland	Montenegro	Slovenia	Ukraine
France	Italy	Netherlands	Spain	United Kingdom



Map correct as of December 2017.



Yearbook Edition

Special edition that showcases all certified projects with sustainable principles LEED, BREEAM and DGNB in the Greek market 2022 & 2023

Layout έργου

Architectural Design: NNN Studio
E/M Design: XXX Engineers
General contractor: RRR Constructions
Project Manager: OOO Company
Special consultants: ZZZ Acoustics
Sustainability Consultant: Green company
Certification: BREEAM Very Good
Location: Athens, Greece
Total area: 10,000 m2
Construction date: 2022
Photos: John Smith



PROJECT INFO

The building was constructed based on the principles of sustainability. Several of its features promote sustainability and help reduce the relevant carbon emissions. The building was certified as BREEAM Very Good.



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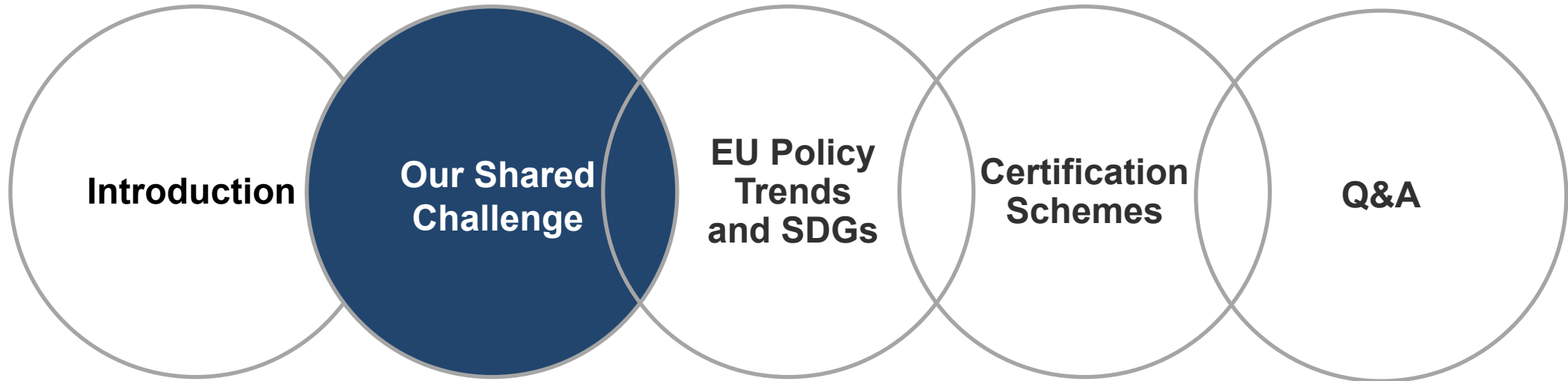
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**Buildings are a critical solution
to climate change**



The challenge we face

104 of 194 countries that signed the Paris Agreement have committed to improve building energy efficiency to meet mitigation targets.

Only **68** countries currently have building energy codes.

By **2050**, global population will increase 27% to **9.8bn** and global floor area will increase by **100%**

Climate action

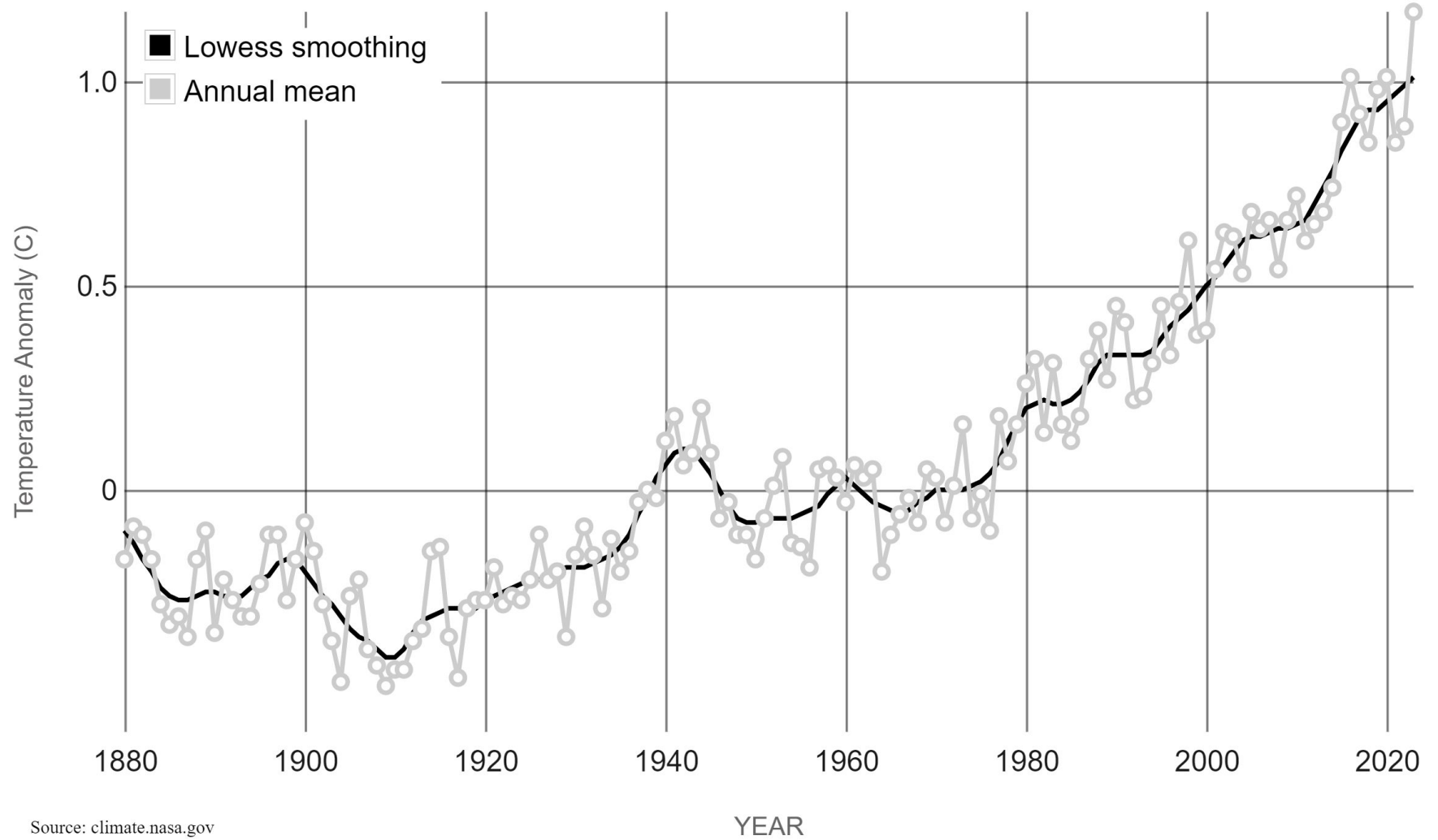
- Buildings are responsible for **39%** of global carbon emissions
- Energy demand will increase by **50%** by 2050

Resource efficiency

- Buildings are responsible for **50%** of global material use
- **42.4bn** tonnes of materials consumed annually

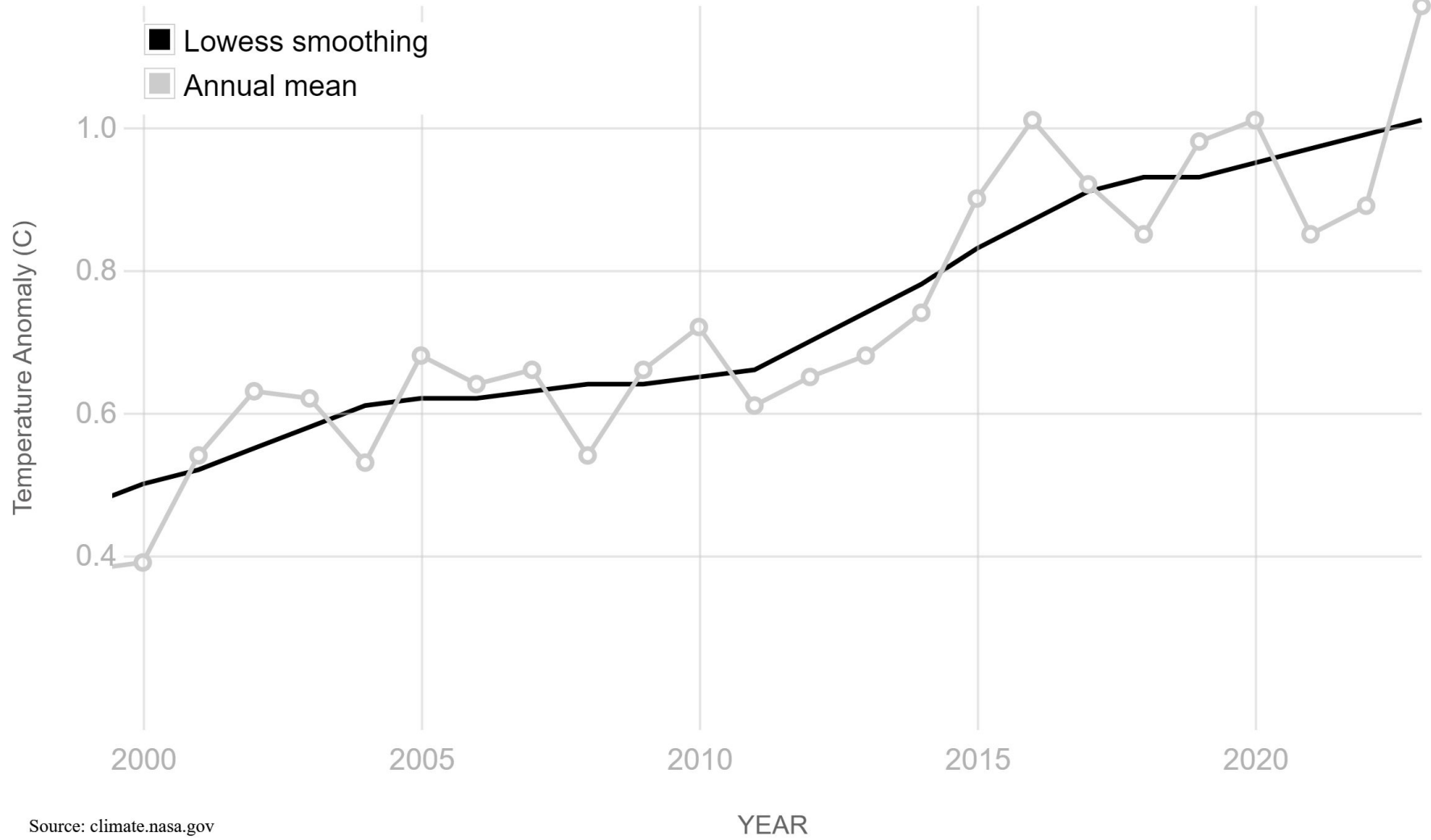
Health and wellbeing

- **91%** of people live where air pollution levels exceed World Health Organization limits
- People are **40%** more likely to have asthma due to living in a home with damp or mould



Source: climate.nasa.gov

YEAR



Source: climate.nasa.gov



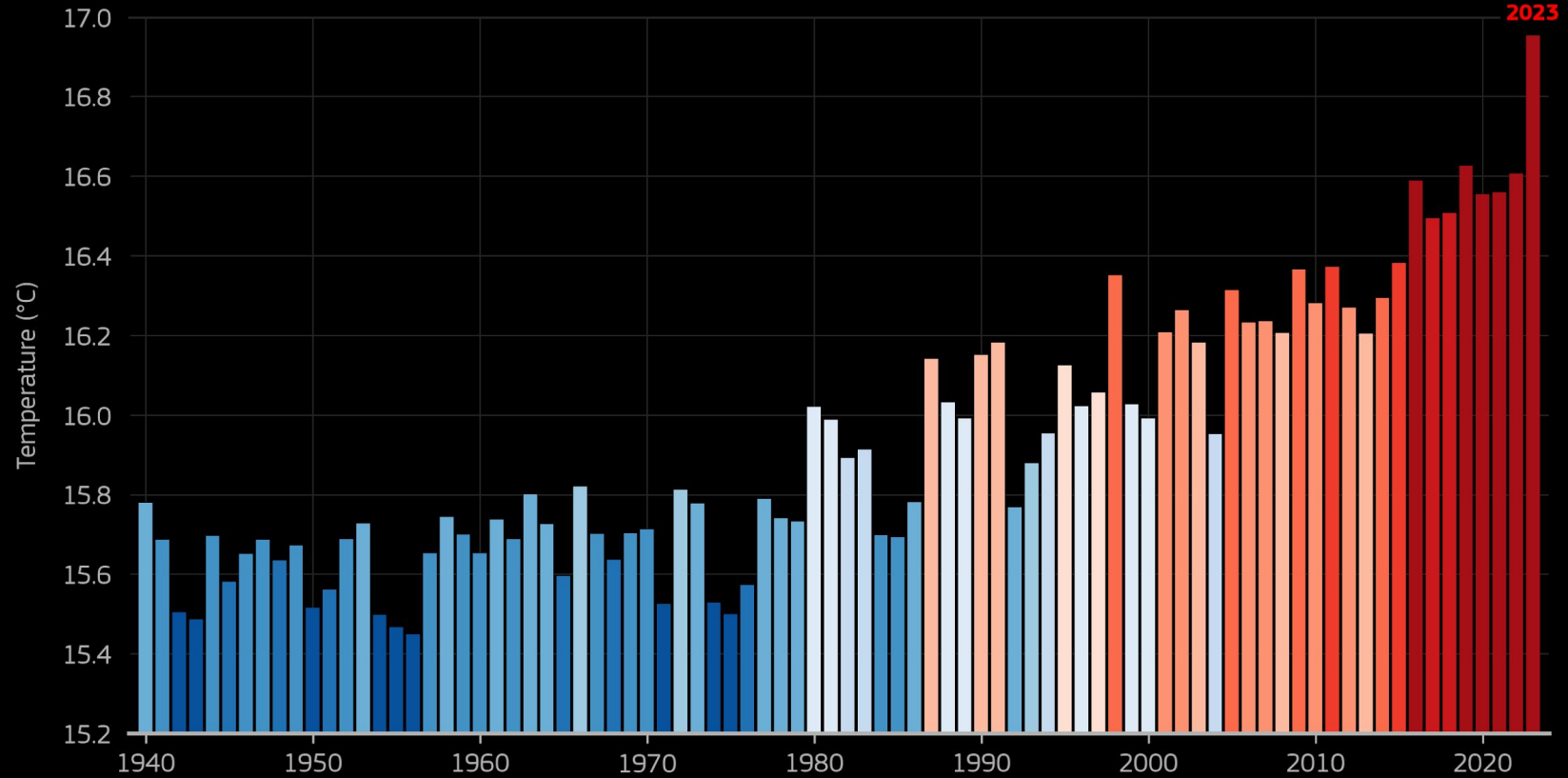
GLOBAL SURFACE AIR TEMPERATURE • JULY

Data: ERA5 1940–2023 • Credit: C3S/ECMWF



Climate Change Service

climate.copernicus.eu



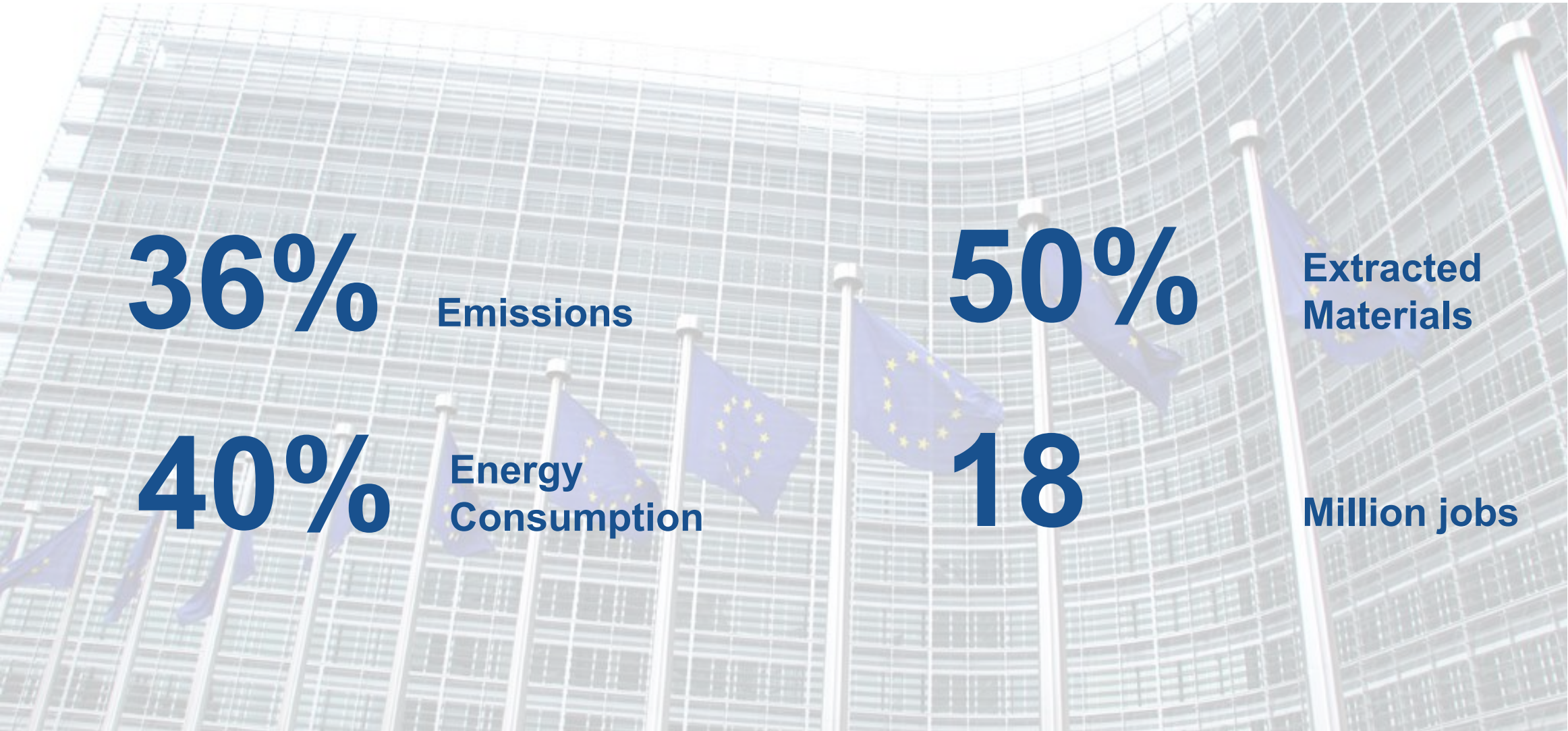
PROGRAMME OF THE EUROPEAN UNION



IMPLEMENTED BY



Impact of European Buildings



Paris Agreement

Limit global warming to 1.5 degrees

EU Climate Law

Carbon neutral Europe by 2050

Energy Performance of Buildings Directive (EPBD)

Outlines building policies that will help achieve a decarbonised building stock by 2050

New milestone

EU Taxonomy

Objective to direct investments towards “sustainable” projects – criteria for construction

Energy Performance of Buildings Directive review

Minimum Energy Performance Standards

Recognise that Minimum Energy Performance Standards are a key instrument to drive building renovation, which can accelerate both the rate and depth of renovation across the EU.

Building Renovation Passports

Recognise the potential of Building Renovation Passports as a tool to set out a pathway to a decarbonised building stock, and their potential to capture the multiple benefits of renovation.

The Zero Emission Building standard

Define clearly what constitutes a Zero Emission Building and clarify that this definition will take into account both operational and embodied carbon, covering the Whole Life Carbon (WLC) impact of buildings.

Strengthened Energy Performance Certificates

Strengthen and harmonise Energy Performance Certificates across the EU so that they can support the vision of a zero emission building stock by 2050.

Whole Life Carbon reporting

Support the inclusion of WLC reporting metrics, which should be brought forward in time to inform the establishment of WLC targets and benchmarks.



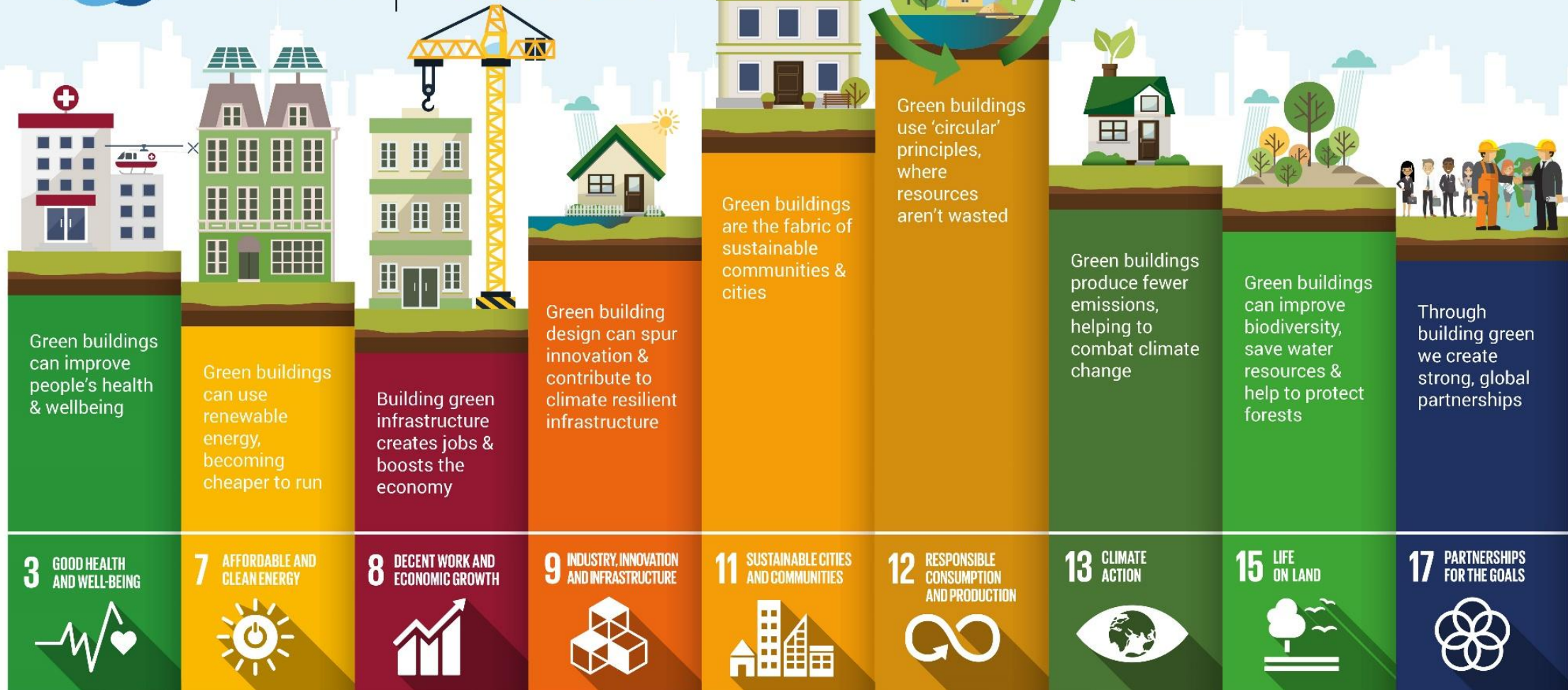
SUSTAINABLE DEVELOPMENT GOALS

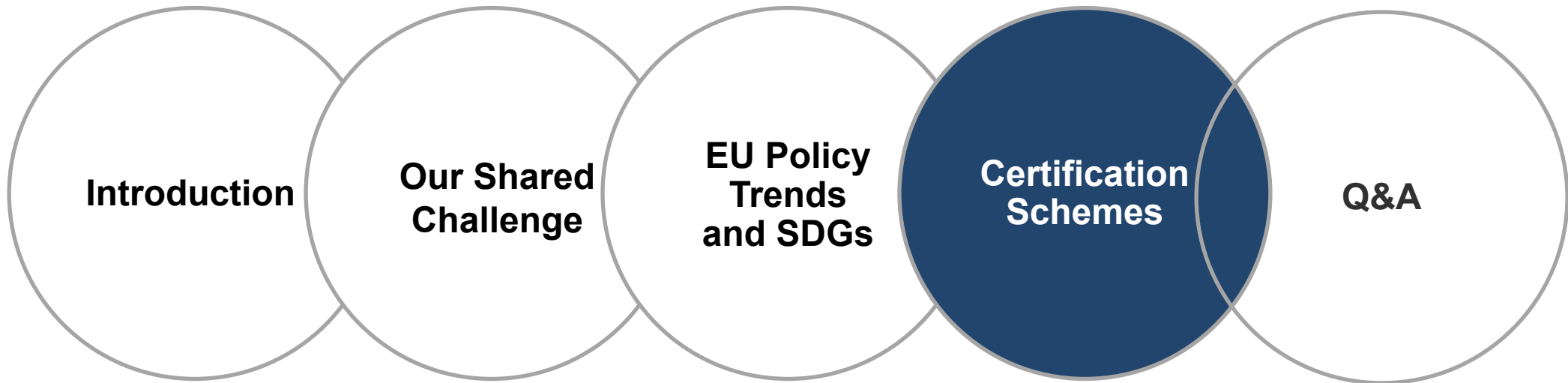




WORLD GREEN BUILDING COUNCIL

SUSTAINABLE DEVELOPMENT GOALS







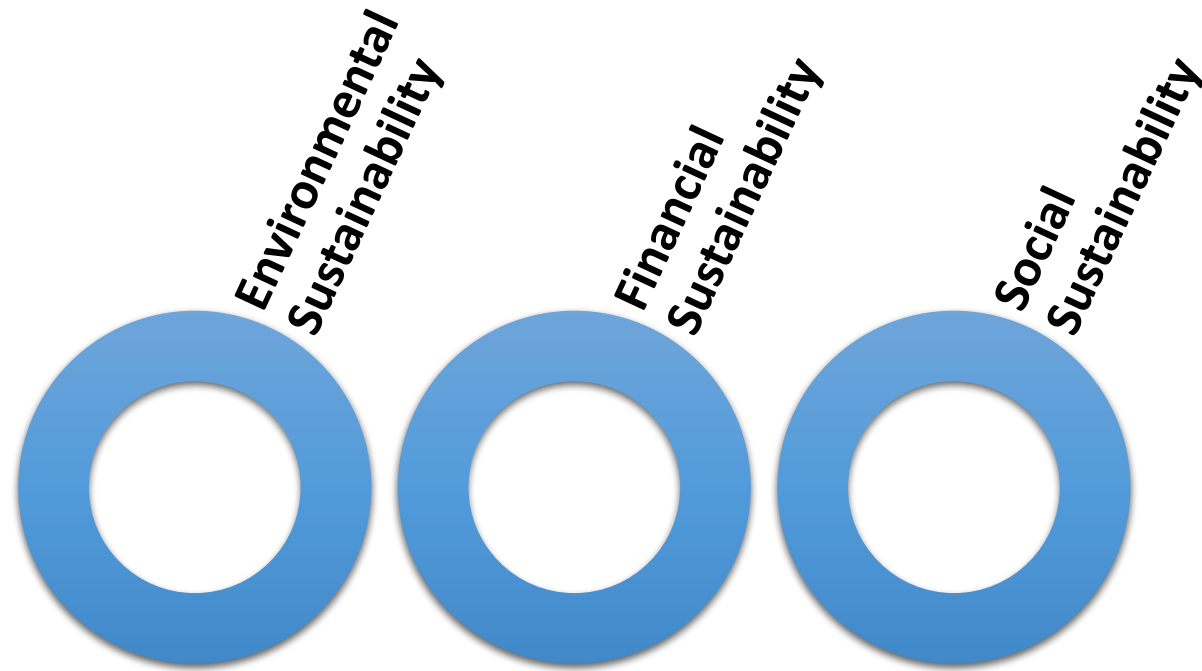
SBC GREECE / Sustainable Building / Sustainability assessment & certification systems

Sustainability assessment & certification systems

Certifications Systems



Certifications Systems / Aspects



Certifications Systems / Environment

Environmental Aspect

Resources optimization through reuse and recycling, as well as lowering of environmental impact throughout the building life cycle.

Certifications Systems / Finance

Financial Aspect

Deals with the balance between total costs and the quality of the building. This dimension focus on achieving balance between total building costs including preparations for the possibility of changing the use of the building.

Certifications Systems / Social

Social Aspect

Addresses health and safety implications of both the building and its surroundings.

Certifications Systems / Environment Criteria

Environmental Impacts

Resources

Biodiversity

Recycling

Toxicity

Certifications Systems / Financial Criteria

Life Cycle Costing

Area Use

Stability of Value

Certifications Systems / Social Criteria

Safety

Health

Architecture

Transport

Social Responsibility

Certifications Systems





Optimization tool: to increase real sustainability in buildings and districts

Profitability: low life cycle costs, flexibility and usability, commercial viability and long-term value retention
Investment oriented

EU standards and legislations are the basis of the DGNB Certification System
Planning oriented

DGNB Assessment Criteria



ENV1.1

Building life cycle assessment

ENV1.2

Local environmental impact

ENV1.3

Sustainable resource extraction

ENV2.2

Potable water demand and waste water volume

ENV2.3

Land Use

ENV2.4

Biodiversity at the site

ECO1.1

Life cycle cost

ECO2.1

Flexibility and adaptability

ECO2.2

Commercial viability

SOC1.1

Thermal comfort

SOC1.2

Indoor air quality*

SOC1.3

Acoustic comfort

SOC1.4

Visual comfort

SOC1.5

User control

SOC1.6

Quality of indoor and outdoor spaces

SOC1.7

Safety and security

SOC2.1

Design for all*

TEC1.1

Fire safety*

TEC1.2

Sound insulation

TEC1.3

Quality of the building envelope

TEC1.4

Use and integration of building technology

TEC1.5

Easy of cleaning building components

TEC1.6

Easy of recovery and recycling

TEC1.7

Emissions control

TEC3.1

Mobility infrastructure

PRO1.1

Comprehensive project brief

PRO1.4

Sustainability aspects in tender phase

PRO1.5

Documentation for sustainable management

PRO1.6

Procedure for urban and design planning

PRO2.1

Construction site / construction process

PRO2.2

Quality assurance of the construction

PRO2.3

Systematic commissioning

PRO2.4

User communication

PRO2.5

FM-compliant planning

SITE1.1

Local environment

SITE1.2

Influence on the district

SITE1.3

Transport access

SITE1.4

Access to amenities

* Minimum requirements

Sustainability and PM society

Project management practices are integral to achieving DGNB certification, in several areas such as:

- ✓ Process Quality
- ✓ Technical Quality
- ✓ Economic Quality

Sustainability and PM society / Process Quality

Process Quality

This criterion assesses the effectiveness of project management throughout the building's lifecycle. It includes aspects like **Quality Assurance, Documentation, and Stakeholder Communication.**

Effective project management ensures that sustainability goals are met during planning, design, construction, and operation

Sustainability and PM society / Technical Quality

Technical Quality

This involves the implementation of technical solutions that enhance the building's performance. Project managers coordinate the integration of these solutions, ensuring they align with sustainability objectives and regulatory requirements.

Sustainability and PM society / Economic Quality

Economic Quality

Project managers play a crucial role in balancing costs with sustainability benefits. They conduct life cycle cost analyses to ensure that sustainable choices are economically viable over the building's lifespan.

Sustainability and PM society / Examples

Use of DGNB System Software:

Project managers utilize this software to register projects, manage documentation, and monitor compliance with certification criteria. This tool aids in maintaining transparency and efficiency throughout the certification process

Sustainability and PM society / Examples

Early Integration of DGNB Auditors:

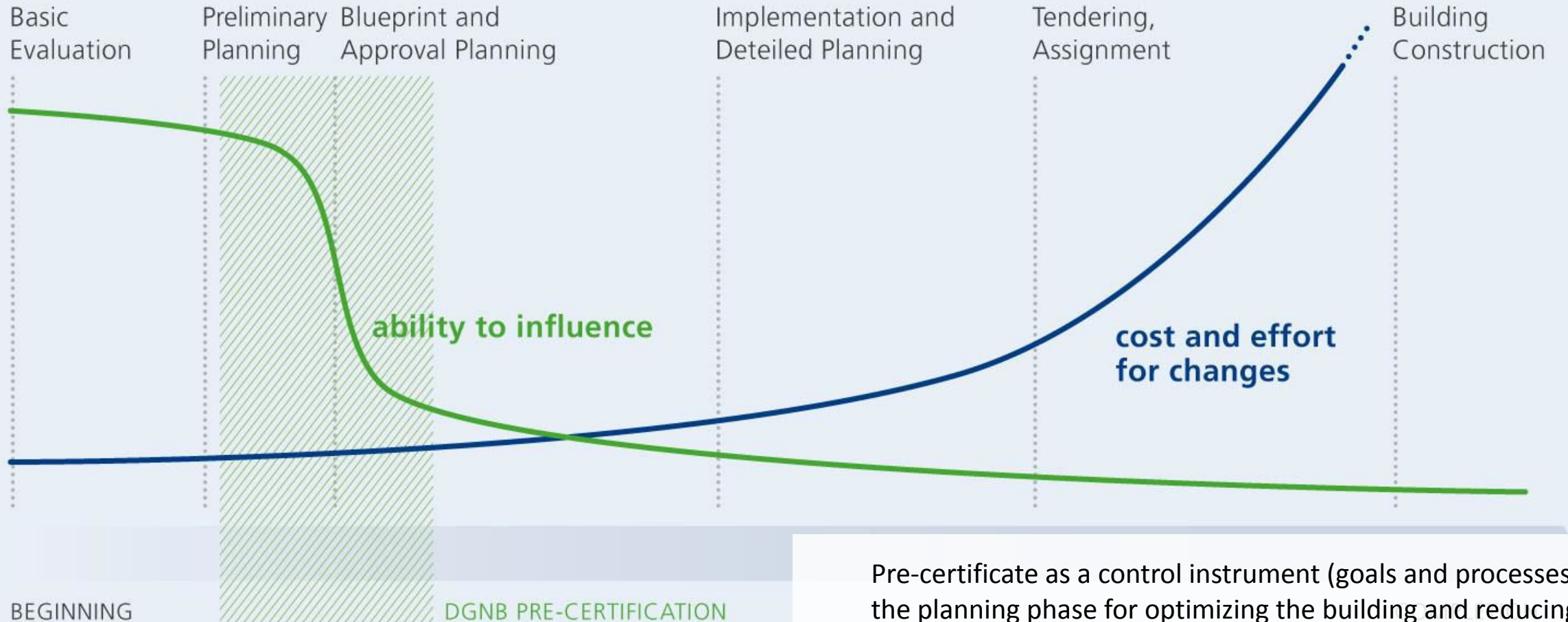
Engaging DGNB Auditors at the project's inception facilitates the incorporation of certification criteria into the planning phase. This proactive approach streamlines the certification process and ensures that sustainability measures are effectively implemented

Sustainability and PM society / Examples

Stakeholder Engagement:

Effective communication with all stakeholders, including architects, engineers, and clients, ensures that sustainability goals are understood and prioritized. Project managers facilitate this collaboration, aligning the project team with DGNB objectives

Certifications Systems / Benefits

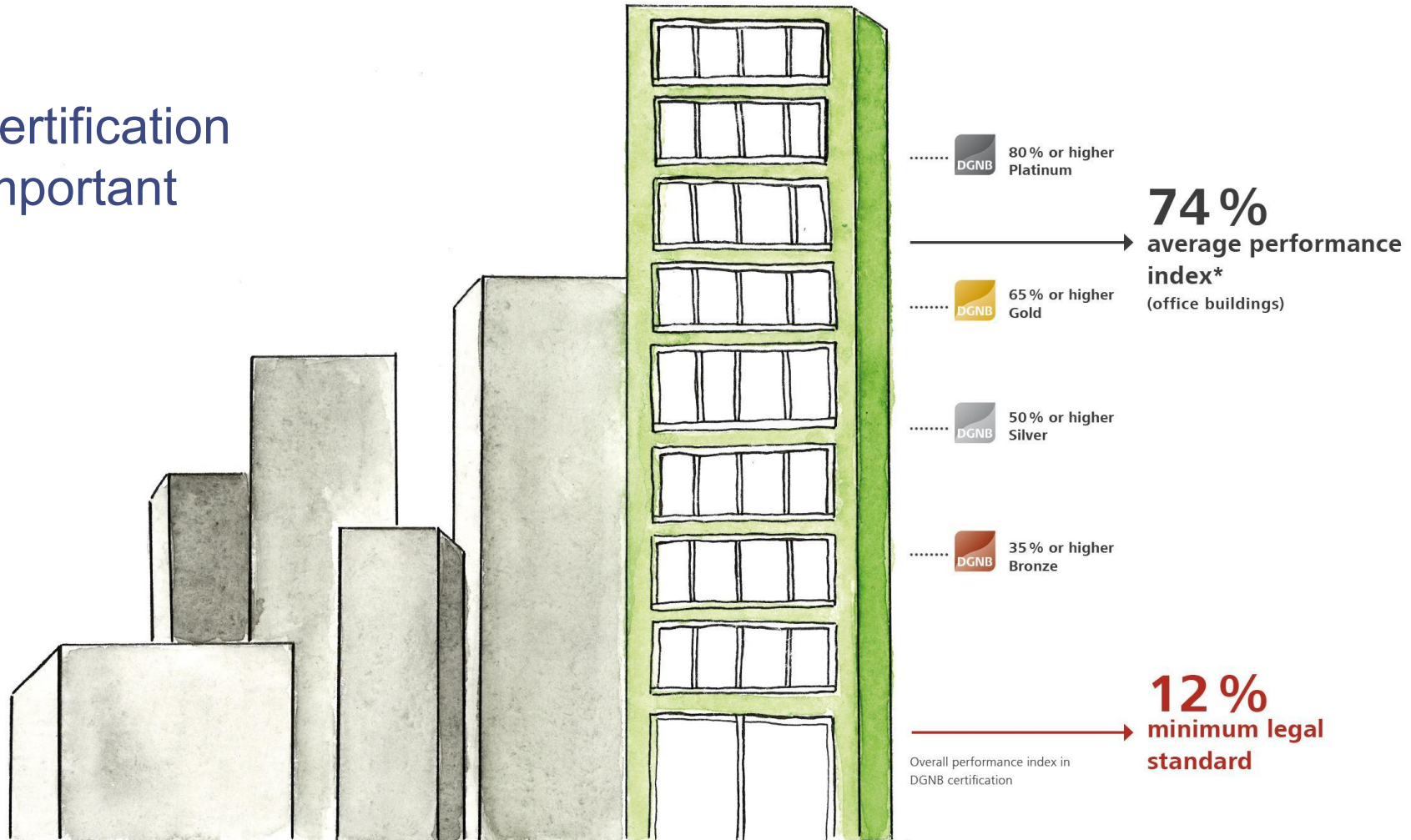


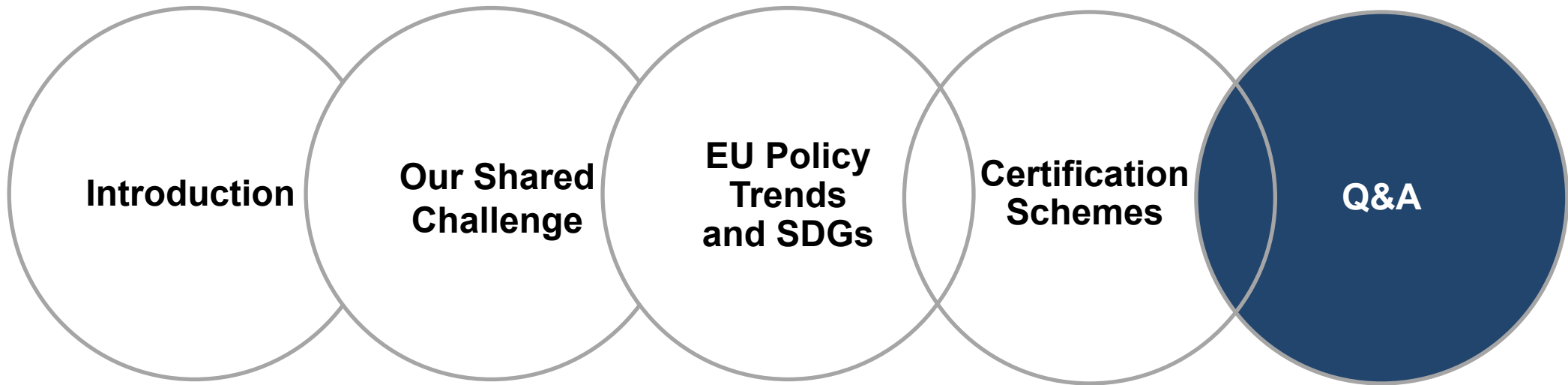
Pre-certificate as a control instrument (goals and processes) in the planning phase for optimizing the building and reducing risks

Promotion of integral planning and early, transparent target agreement for the planning team

Certifications Systems / Benefits

Why Certification is so important







Thanks for your attention...

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Green buildings for everyone, everywhere