



European  
Commission

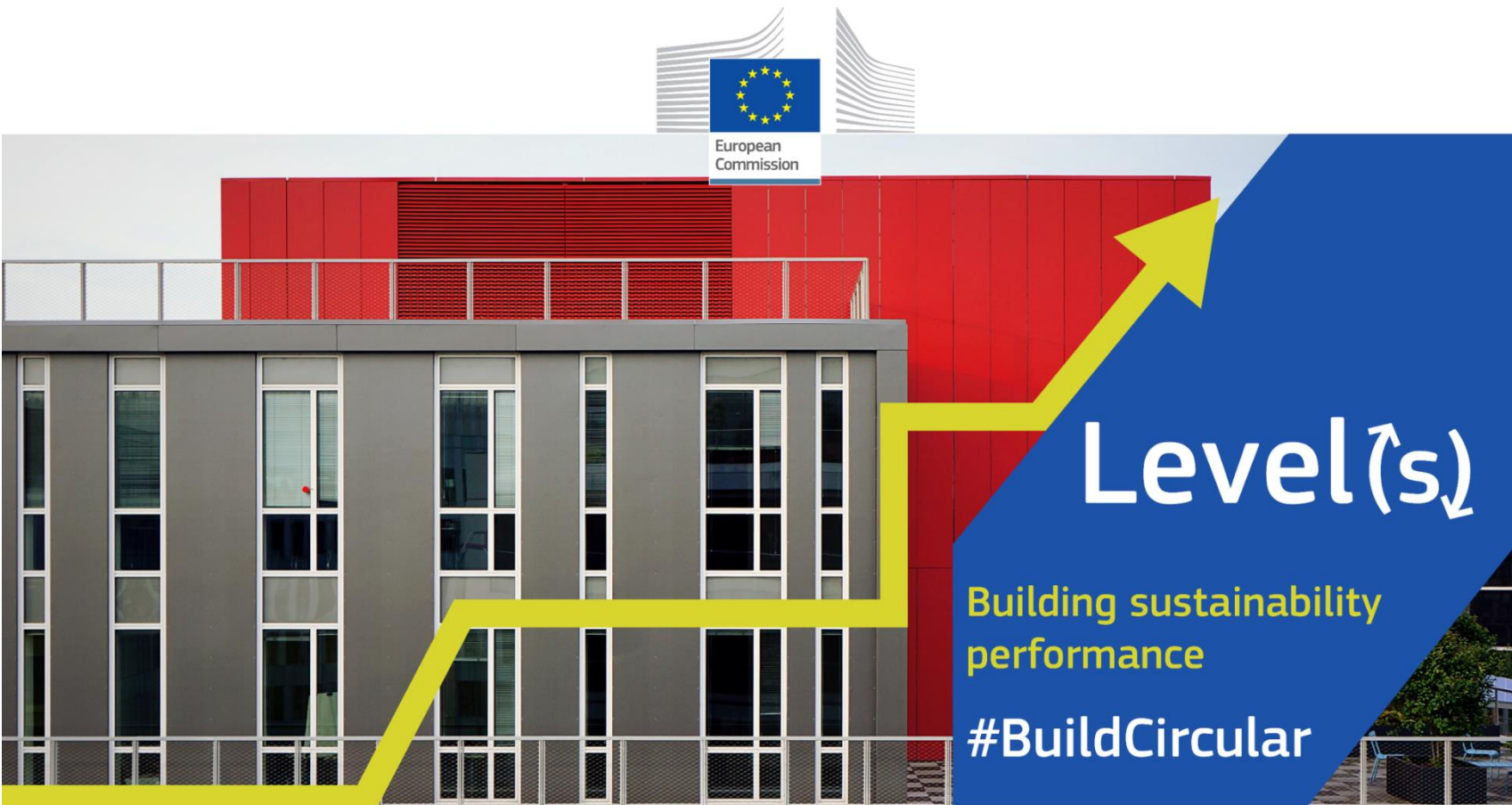
# Level(s)

Building sustainability  
performance

#BuildCircular

**50% energy**  
**50% materials**  
**50% carbon**

**1%**



# Common Language



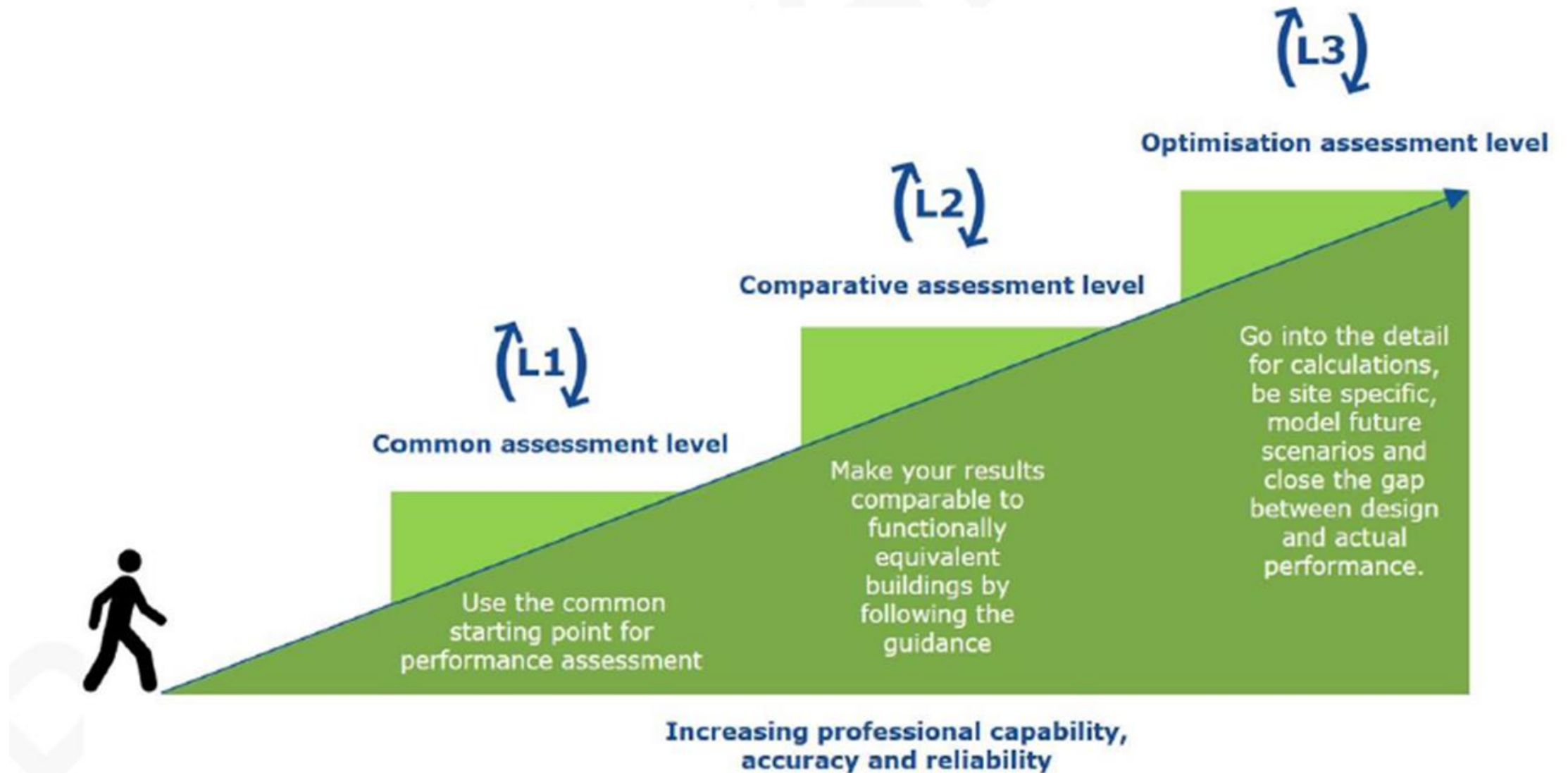


Images courtesy of Judit Kimpian, ACE



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# Get started – climb the ladder

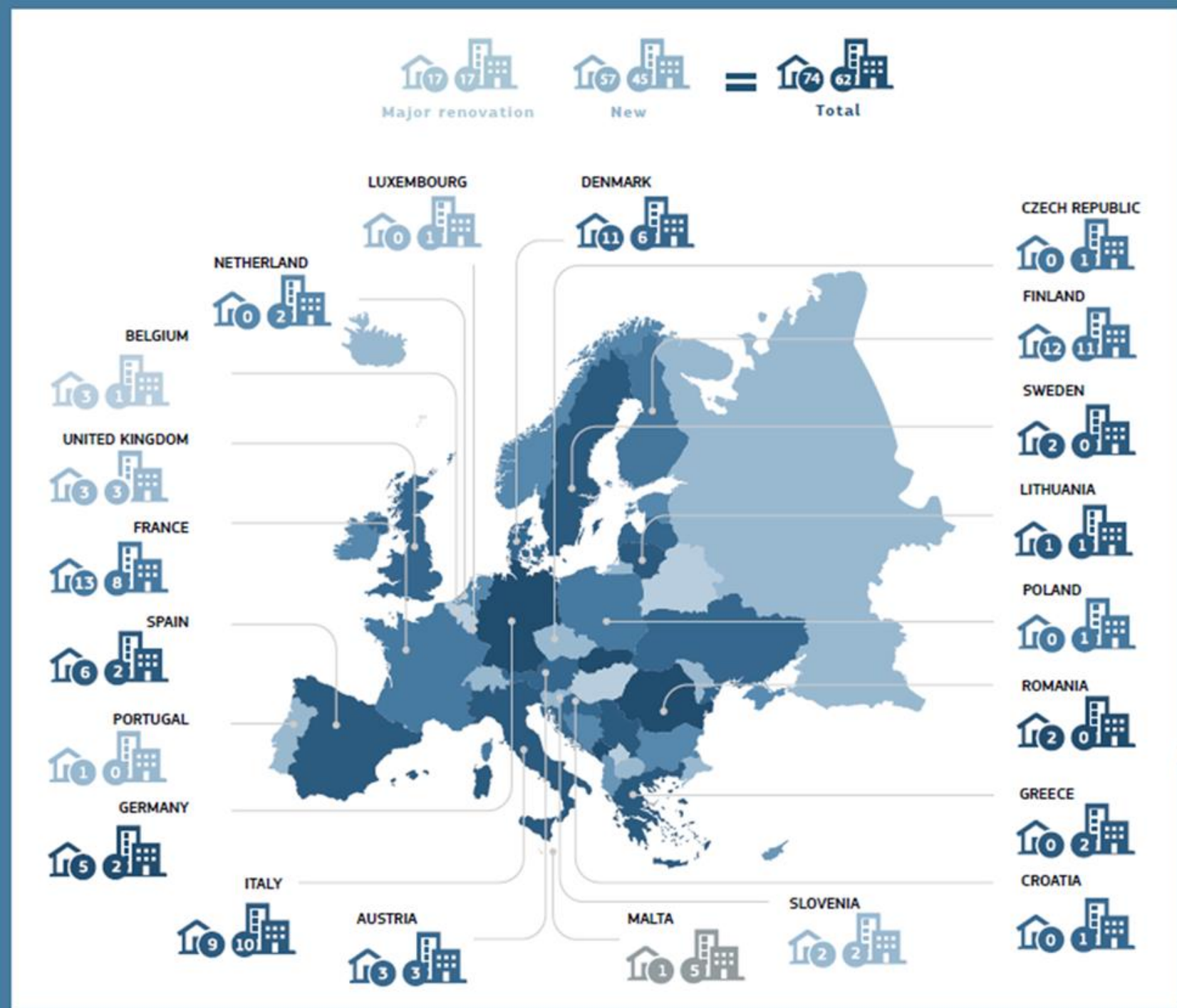




Test phase



Final launch 2020





# Testers and their tests

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## First impressions of tester feedback

# Analysis of test phase

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30 June                      End of test phase, reporting of indicator results

30 September              Horizontal feedback

2019 – Q3 Q4              Verification and analysis

2020 – Q1 Q2              Modification and consultation

2020 Q2                      Launch of final version



# 80 of 130 testers have sent feedback on the indicators

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## who are these testers?

- Projects with no experience respond to a lower degree, but more respondents with “some experience” than “substantial experience”.
- Few results from Eastern Europe
- Good response rate (70-90%) from:
  - Construction companies
  - Public authorities
  - Construction product manufacturers
- Slightly less (55-65%) from:
  - Developers/investors
  - Design teams
  - Research institutes

# Helpdesk observations

- No “difficult” enquiries, but rather straight forward, typically in the areas of:
  - National vs EU harmonisation
  - Access to and use of standards and other tools
  - Categorising different building materials and products
  - Basis for modelling scenarios

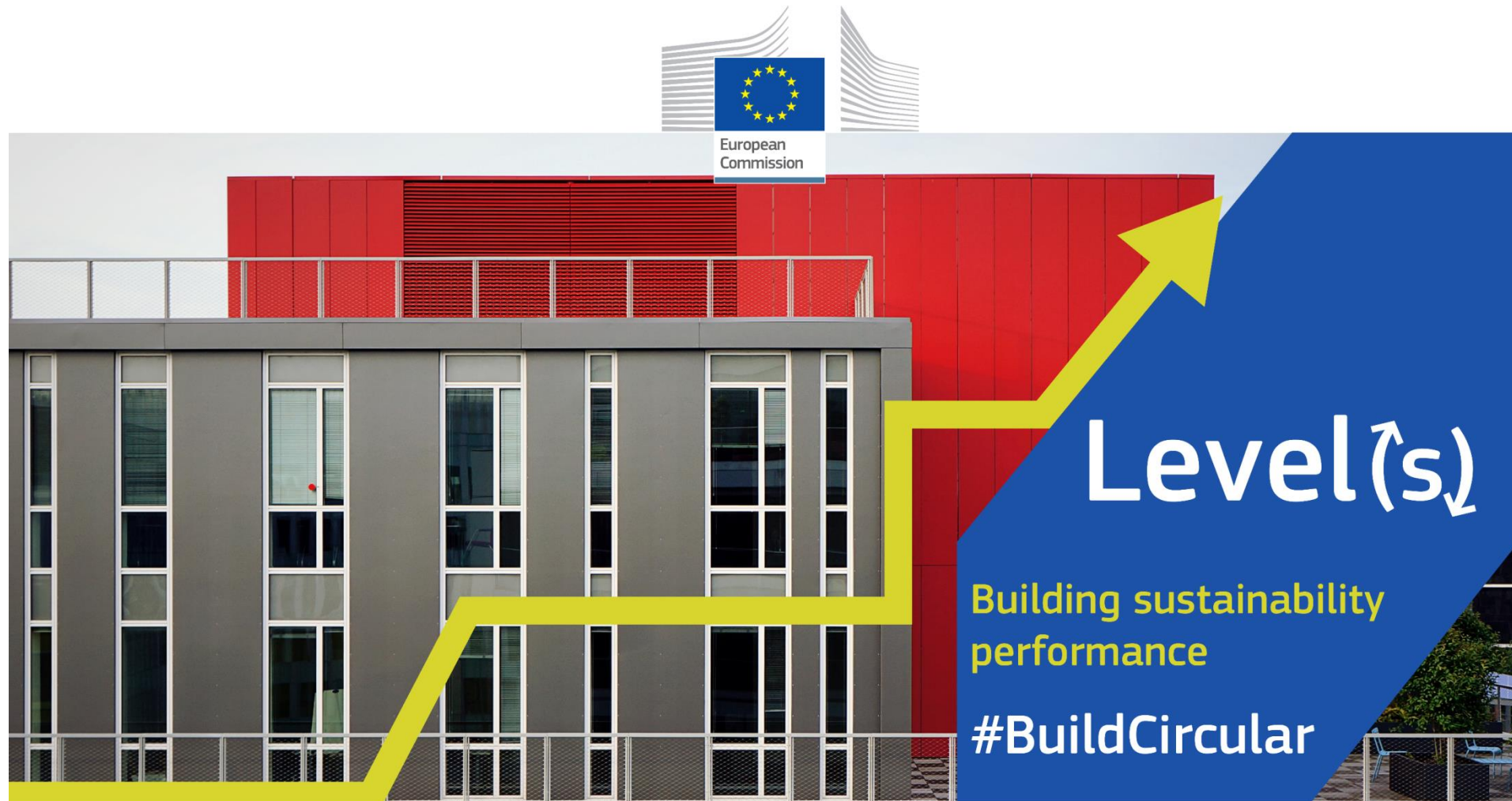
# Testing to be verified

- Verify use of Level(s)
- Identify problems with using Level(s)
- Inform finalisation of the tool
  
- 15 projects
- Representing different geography, type of project etc
- Scheduled interviews for September



## Policy Context and Supportive Actions

2020 Q1	European Green Deal within 100 days of new Commission, with a new Circular Economy Action Plan “ <i>focusing on sustainable resource use, especially in resource-intensive and high-impact sectors such as textiles and <b>construction.</b></i> ”
2020	Public Private Partnership on Sustainable Built Environment, in Horizon Europe
2020-2021	Green Public Procurement criteria
2021 Q4	Sustainable Finance - Level(s) supporting
2020-2021	Software and training material
2019 Q4 - 2022	LIFE project ( <i>Green Building Councils</i> ), linking rating tools and GPP to Level(s)



<https://ec.europa.eu/environment/eussd/buildings.htm>

[ENV-LEVELS-TESTING@ec.europa.eu](mailto:ENV-LEVELS-TESTING@ec.europa.eu)

**Thematic area:  
Life cycle environmental performance**

**Macro-objective 1:  
Greenhouse gas  
emissions along a  
buildings life cycle**

**1.1 Use stage energy performance (kWh/m<sup>2</sup>/yr)**  
✓ Primary energy demand  
✓ Delivered energy demand

**1.2 Life cycle Global Warming Potential (CO<sub>2</sub> eq./m<sup>2</sup>/yr)**

**Macro-objective 2:  
Resource efficient  
and circular  
material life cycles**

**2.1 Life cycle tool: Building bill of materials (kg)**  
✓ The main building elements  
✓ Reporting on the four main types of materials

**2.2 Life cycle tools: Scenarios for lifespan, adaptability and deconstruction**  
✓ Design aspect checklists  
✓ Semi-quantitative and LCA based assessments

**2.3 Construction & demolition waste and materials (kg/m<sup>2</sup>)**  
✓ Demolition  
✓ Construction  
✓ End-of-life

**Macro-objective 3:  
Efficient use of  
water resources**

**3.1 Use stage water consumption (m<sup>3</sup>/occupant/yr)**  
✓ Water scarcity by location  
✓ Potable waste substitution

**2.4 Life cycle tool: Cradle to cradle Life Cycle Assessment (LCA)**  
(impact/m<sup>2</sup>/yr)  
✓ Seven impact categories (EN 15978)  
✓ Flows of the four main types of materials  
✓ Assessment of the three life cycle scenarios (2.2)

**Overarching  
assessment  
tool**

**Thematic area:  
Health and comfort**

**Macro-objective 4:  
healthy and  
comfortable spaces**

**4.1 Indoor air quality**  
✓ Good quality indoor air (ventilation, CO<sub>2</sub>, humidity)  
✓ Concentrations of a target list of pollutants

**4.2 Time out of thermal comfort range**  
% of the time out of range during the heating and cooling seasons

**Potential future aspects**  
4.3 Lighting and visual comfort  
4.4 Acoustics and protection against noise

**Thematic area:  
Cost, value and risk**

**Macro-objective 5:  
Adaptation and  
resilience to  
climate change**

**5.1 Life cycle tools: Scenarios for projected future climatic conditions**  
Protection of occupier health and thermal comfort in 2030/2050

**Potential future aspects**  
5.2 Increased risk of extreme weather events  
5.3 Increased risk of flood events

**Macro-objective 6:  
Optimised life cycle  
cost and value**

**6.1 Life cycle costs (€/m<sup>2</sup>/yr)**  
✓ Use stage energy and water costs  
✓ Construction and long-term maintenance, repair and replacement costs

**6.2 Value creation and risk factors**  
✓ Comprehensiveness of a valuation or risk rating  
✓ Reliability of the reported performance assessments