Level(s) – EU approach to sustainable building performance reporting

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**Level(s) is:**

- A voluntary reporting tool
- Using a focused set of performance based indicators
- Reflecting EU policy objectives
- Based on existing standards
- Targeting mainstream market to do better
- Possible for certification schemes to use as a module

**Level(s) is NOT:**

- Used for EU benchmarks or EU certification
Level(s) at different levels!

- Tracking the levels of sustainability performance of buildings, taking into account the full life cycle.

- Three different levels of working with the indicators, depending on the readiness for sustainability assessment.
Beginning
Comparison
Optimisation
MACRO-OBJECTIVES & INDICATORS

1. GHG Emissions
   Along the building lifecycle
   - Primary & Delivered Energy consumption in use:
     kWh/m²/year
   - Global Warming Potential
     embodied CO₂ eq./m²

2. Resource Efficient Material Life Cycle
   - Bill of Materials:
     Abiotic fossil fuels, minerals and metals, Biotic materials
   - Waste Flows:
     kg/m²
     Disposed, reused, recycled, recovery

3. Water Use
   Circular use of water resources
   - Use Phase Consumption:
     m³/occupant/year

4. IEQ
   Healthy & comfortable spaces
   - Indoor Air Quality:
     ventilation rate l/s/m²; CO₂ ppm; RH %
   - Pollutants:
     TVOC, CVOC, RI VOC, formaldehyde, benzene, PM2.5 & 10
   - Thermal Comfort:
     % time out of range degree days or hours

5. Climate Change
   Resilience and adaptation
   - Extreme weather events under future climate scenarios:
     Thermal Comfort:
     % time out of range degree days or hours 2030/2050

6. Cost & Value
   Optimised over whole life
   - Life cycle costs:
     acquisition, utility, maintenance
     EUR/m²/year
   - Value Creation & Risk Factors:
     Data quality of indicators
Reliability rating per indicator

- Technological representativeness
- Geographical representativeness
- Time related representativeness
- Uncertainty
- Technical capability of personnel carrying out assessment
- Independent verification
Benefits with Level(s)

- Common language
- Complement and reinforce existing initiatives
- Support national policy initiatives
Level(s) target groups

- **Design teams** – simple structure to present to clients, to prioritise attention on sustainability aspects

- **Construction management** – role in monitoring and checking that design performance is met
Level(s) target groups

- **Property agents and valuers** – simplified ratings of reliability of estimated performance
- **Asset and facilities managers** – guidance on life cycle management, like maintenance and replacement planning, and post-occupancy surveys
Level(s) target groups

- **Property owners, developers and investors** – how cost, value and risk associated with building performance can be managed to deliver long-term benefits

- **Public and private occupiers** – focus on performance aspects that are of direct financial interest to occupiers, like operating and maintenance costs
Testing - objectives

• A ready to market tool in 2 years, with robust indicators and guidance

• Understand necessary support mechanisms for its implementation
Testing – how?

- Test some indicators or full framework, on ongoing or finalised projects
- Agree with EC to...
  ...provide feedback
    - on indicators via common reporting format
    - on general experience via specific survey
    - collaborate during verification (some testers)
  ... and access support (for testers only!)
    - common reporting format, technical helpdesk
    - regular webinars, platform for information exchange
Testing workshop - 4 December

- How to work with Level(s)
- Opportunities and challenges for testing organisations
- Support to testing organisations
- Market leaders preparing testing
- Certification schemes preparing integration

Web streaming will be provided!
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