Building energy performance assessment based on optimized in-situ measurements

Workshop in preparation of new IEA EBC Annex project
Brussels April 18-19, 2016

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Monday April 18th - morning

10.00 **Welcome and aim of the workshop**
Staf Roels, Building Physics Section, KU Leuven, Belgium

10.15 **Presentation of IEA EBC Annex 58 outcome**
Annex 58 core group

10.45 **Bridging the gap between predicted and actual performances through measurements and quality checks along building life**
Guillaume Ansanay-Alex, Researcher & Project Leader at CSTB, France

11.15 **Towards zero-energy districts – opportunities of characterization in modeling and optimization**
Dirk Saelens, Building Physics Section, KU Leuven, Belgium

11.45 **Building Energy Performance and Location -JRC Energy & Cities project; from building to urban area**
Hans Bloem, DG JRC, European Commission, Italy

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Monday April 18th - afternoon

13.30   **The IEA EBC programme and the organization of Annex research projects**
Peter Wouters, BBRI, IEA EBC national representative , Belgium

13.45   **Some perspectives for the use of smart meter data**
Henrik Madsen, Peder Bacher, DTU Compute, DTU, Denmark

14.15   **Presentation of new Annex Concept**
Staf Roels, Building Physics Section, KU Leuven, Belgium

14.45   **First discussion on annex concept**

16.00   Coffee break

16.30   **Including a next step of BES-validation exercise in the new proposal?**
Paul Strachan, Mech. And Aerospace Engineering, Univ. of Strathclyde, UK

17.00   **Further discussion on annex concept – demarcation of annex proposal**

18.00   end of discussion

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Tuesday April 19th

9.30   **Introduction – wrap up of Monday discussion**
9.45   **Discussion in subgroups on different subtasks**

11.00   coffee break

11.30   **Feedback in large group – elaboration of annex proposal**

12.30   sandwich lunch

13.30   **Progress on standards for in-situ measurements for building and building components within CEN TC89/WG13**
Jon Denyer, Convenor CEN TC 89 WG 13

14.00   **DYNASTEE – Network of Excellence**
            Luk Vandaele, Belgian Building Research Institute, Belgium

14.30   **Training scientists and the potential of e-courses: sharing experience on a successful JRC case**
Philip D.P. Taylor, European Commission JRC, Belgium

15.00   **wrap up on Annex proposal – further steps to take**

IEA EBC Project Concept

Building energy performance assessment based on optimised in-situ measurements

Preliminary Technology Readiness Assessment

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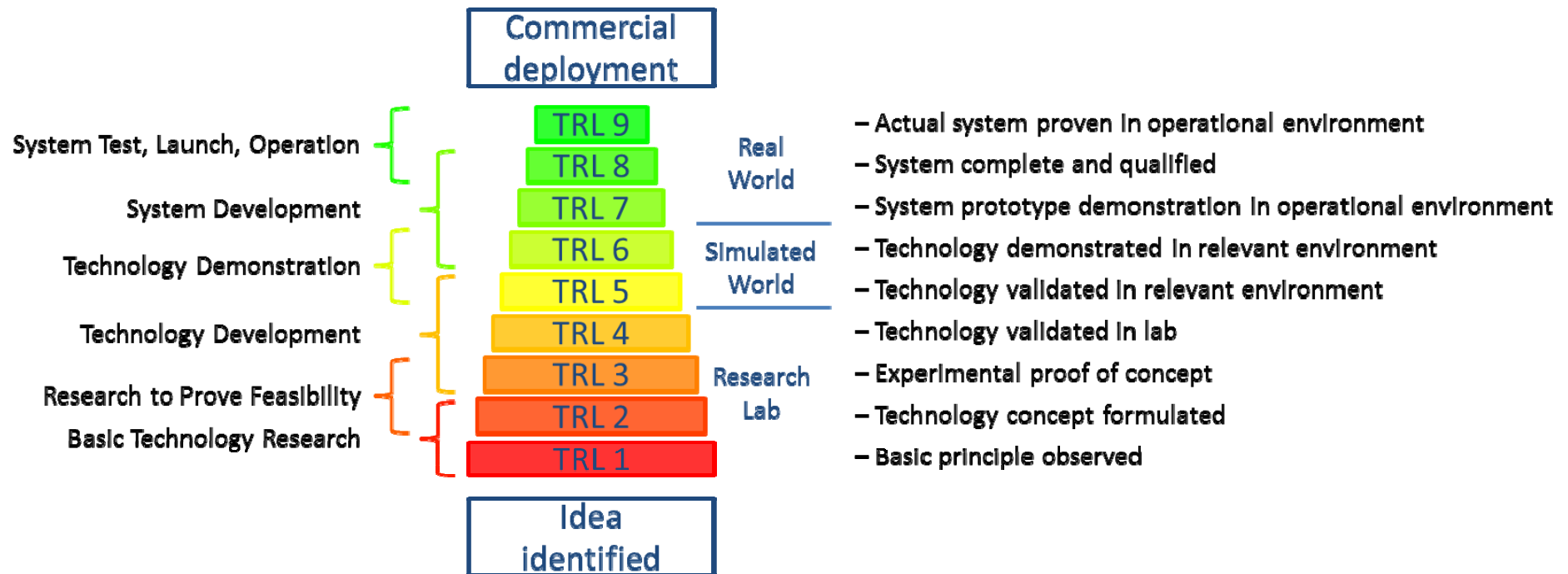
Preliminary Technology Readiness Assessment

At the start of each Annex-project, one or more experts from each participating country are requested to provide a very brief TRA of the technologies included within the scope of the Annex. It is expected this will be based on national experts' existing knowledge.

The technology readiness level (TRL) indicates the maturity level of a given technology.

Preliminary Technology Readiness Assessment

The TRL scale ranges from 1 (basic principle observed) through 9 (system ready for commercial deployment).

Preliminary Technology Readiness Assessment

Objectives of the proposed Annex are broken down to the following three technologies that need to be assessed :

1. **Tools to collect on site measured data in residential buildings**

2. **Application of smart meter data / on board monitored data in residential buildings to provide feedback to the occupants**

3. **Methods to perform a quality assessment of the energy performance of residential buildings in use (to what extent is the overall performance disaggregated in three main factors: building fabric, system's efficiency and users)**

Preliminary Technology Readiness Assessment

	Country
Your name(s) and affiliation(s)	
Country name	
Preliminary assessment of the Technology Readiness Level of the proposed technology (or technologies) for your country only	Based on your existing knowledge, please provide a brief summary (up to 400 words) of the development status of the technology (or technologies) in your country with supporting references (or web links, etc), if available. Also state if you believe the technology is already fully commercially deployed. TRL 1 TRL 2 TRL 3 TRL 3 TRL 4 TRL 5 TRL 6 TRL 7 TRL 8 TRL 9
Confidence in the accuracy of your assessment	(1 = not at all confident, 5 very confident) 1 2 3 4 5