



## CIB NEWS ARTICLE

International Council for Research and Innovation  
in Building and Construction

Providing a global network for international exchange and cooperation in research and innovation in building and construction, in support of an improved building process and of improved performance of the built environment.

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### PeBBu Finalized



by

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The Thematic Network PeBBu – Performance Based Building was funded from the European Commission Fifth Framework Programme with a total budget in de magnitude of € 2.5M. It was managed by the CIB General Secretariat through CIBdf, the CIB Development Foundation. The PeBBu network was in operation for four years and finalized its work in October 2005.

#### PeBBu Objectives

The defined objectives of the PeBBu Network are:

- Stimulation and pro-active facilitation of international dissemination and implementation of Performance Based Building in building and construction practice, and in that context
- Maximising the contribution to this by the international R&D community, through:
  - Stimulation and facilitation of the international programming and coordination of research and implementation projects as concerns Performance Based Building as effectively as possible in order to make optimal use of limited available resources and to prevent unnecessary recurrences.
  - Stimulation of actual investments in such research and implementation projects.
  - Providing EU Network Members with an optimal access to knowledge and experience as available in non-EU countries in which respective developments have progressed further than in the EU.

- Co-ordinated dissemination and implementation of results of international research in the area of Performance Based Building.

#### PeBBu Organisation and Membership

In the PeBBu network a total of 73 organisations cooperated to accomplish these ambitious objectives.

In terms of geographical spread this included 58 European and 15 Non-European Organisations.

In terms of official positions in the network this included:

- CIBdf as the Coordinating Contractor
- BBRI – The Belgian Building Research Institute as the Financial Coordinator
- Seven more so-called Principal Contractors, including: VTT - Finland, CSTB - France, EGM Architects – Netherlands, TNO – Netherlands, BRE – UK, Un. Manchester, UK, Un. Salford – UK.
- 37 more European Members, who all received funding for their participation from the EU through the Principal Contractors
- 21 later added Observer-Members, who participated in the network as if they were members, but who were not entitled to EU funding
- 6 more so-called Liaison Organisations with defined cooperation agreements.

A detailed description of the PeBBu organisation can be found in the PeBBu Website at [www.pebbu.nl](http://www.pebbu.nl)



## PeBBu Publications

The PeBBu project amongst others resulted in 26 final reports, pdf copies of which can be downloaded for free at: [www.pebbu.nl/resources/allreports/](http://www.pebbu.nl/resources/allreports/)

These 26 final reports include the following.

**EU Final Management Report;** author: Mansi Jasuja, CIBdf, Netherlands

**General PBB reports:** three reports with an overall PBB scope that are published in the format of a book and that are meant for somewhat widespread dissemination amongst a variety of stakeholders:

- PBB International State of the Art - PeBBu 2nd International SotA report; author: Rachel Becker, Technion, Israel
- Performance Based Building R&D Roadmap; main author: Greg Foliente, CSIRO, Australia, cooperating authors: Pekka Huovila, VTT, Finland, Dik Spekkink, EGM, Netherlands, Wim Bakens, CIB, Netherlands, George Ang, Min. VROM, Netherlands and Rachel Becker, Technion, Israel
- Performance Based Building: Conceptual Framework; authors: Françoise Szigeti & Gerald Davis, ICF, Canada

**Research reports:** a multitude of research reports from the PeBBu Domains, User Platforms and Regional Platforms:

Final research reports from the defined nine PBB Domains:

- Final Report on Life Performance of Building Materials and Components (Domain 1); authors: Christer Sjöström & Wolfram Trinius, KTH, Sweden and Jean-Luc Chevalier, CSTB, France
- Final Report on PBB and Indoor Environment (Domain 2): authors: Marcel Loomans & Philomena Bluysen, TNO, Netherlands
- Final Report on Performance Based Design of Buildings (Domain 3): author: Dik Spekkink, EGM, Netherlands
- Final Report on PBB and the Built Environment (Domain 4); author: Colin Gray, Un. of Reading, UK
- Final Report on PBB Organisation and Management (Domain 5); author: Pekka Huovila, VTT, Finland
- Final Report on Legal and Procurement Practices (Domain 6); authors: Peter Fenn, Un. of Manchester, UK and Kim Haugbølle, SBI, Denmark
- Final Report on Performance Based Building Regulations (Domain 7); author: David Pilzer, Technion, Israel
- Final Report on PBB and Building Innovation (Domain 8); authors: Peter Barrett & Angela Lee, Un. of Salford, UK
- Final Report on PBB and Information and Documentation (Domain 9) including an elaborate RTD agenda; author: Colin Davidson, Univ. of Montreal, Canada

Final research reports from two established PBB User Platforms that addressed the special user group interests as related to the application of PBB:

- Final Report on User Platform Owners, Users and Managers (User Platform 1); author: Tim Yates, BRE, UK
- Final Report on User Platform Building & Construction Industry (User Platform 2); author: Luk Vandaele, BBRI, Belgium

Final research reports from four established Regional Platforms in which the special regional interests were addressed as related to the envisaged application of PBB:

- Final Report on Regional Platform North European (RP1); authors: Christer Sjöström & Wolfram Trinius, KTH, Sweden
- Final Report on Regional Platform West / Central European (RP2); author: Luk Vandaele, BBRI, Belgium
- Final Report on Regional Platform East European (RP3); authors: Károly Matolcsy & Gábor Tiderenczl, EMI, Hungary
- Final Report on Regional Platform Mediterranean European (RP4); author: Paolo Cardillo, Giuseppina Varone, ITC, Italy

and in addition a special report was produced that addresses the application of PBB in the European Newly Associated States; the so-called NAS countries:



- Final Report on NAS State of the Art; authors: Károly Matolcsy & Gábor Tiderenczi, EMI, Hungary and Peter Matiasovsky, ICASA, Slovakia

**Practice reports:** four final reports from tasks there were initiated at a later state in the PeBBu project and that aim for providing practical support to the actual application of the PBB concept in building and construction practice:

- Performance Based Design - Bringing Vitruvius up to date - Report for Design Professionals; author: Dik Spekkink, EGM, Netherlands
  - Final Report on PBB and the EU Construction Products Directive CPD; author: Eric Winnepenninckx, BBRI, Belgium
  - Final Report on a Decision Support Toolkit for PBB; author: Pekka Huovila VTT, Finland
  - Final Report on PBB and CRISP Sustainability Indicators; author: Pekka Huovila VTT, Finland
- and in addition the outcome of an aligned PBB compendium project;
- Final Report on Compendium on Statement of Requirements, including PBB Case Studies; authors: Francoise Szigeti, ICF, Canada and Jo Prior, BRE, UK.