



**International Council  
for Research and Innovation  
in Building and Construction**

**CIB TG85: R&D Investment and Impact**

**Inaugural meeting in conjunction with SB11: World Sustainable Building Conference, Helsinki  
18.10.11**

**Attendees:**

Name	Organisation	Position	Email
Hervé Charrue	Centre Scientifique Et Technique Du Batiment – CSTB, France	R&D Director	<a href="mailto:Herve.Charrue@cstb.fr">Herve.Charrue@cstb.fr</a>
Dr Luc Bourdeau	Centre Scientifique et Technique du Bâtiment (CSTB), France	Head of European Affairs /ECTP (European Construction Technology Platform), General Secretary	<a href="mailto:l.bourdeau@cstb.fr">l.bourdeau@cstb.fr</a>
Renita Niemi	Aalto University, Finland	Researcher	<a href="mailto:Renita.niemi@aalto.fi">Renita.niemi@aalto.fi</a>
Kalle Kähkönen	Tampere University of Technology - Construction Management and Economics, Finland	Professor, PhD	<a href="mailto:Kalle.e.Kahkonen@tut.fi">Kalle.e.Kahkonen@tut.fi</a>
Prof Miimu Airaksinen	VTT Technical Research Centre of Finland	Research Professor, Eco-Efficient Built Environment	<a href="mailto:Miimu.Airaksinen@vtt.fi">Miimu.Airaksinen@vtt.fi</a>
Kim Haugbølle	Danish Building Research Institute (SBI), Denmark	Head of Department, Department of Process and Innovation	<a href="mailto:khh@sbi.dk">khh@sbi.dk</a>
Anna Kadefors	Chalmers University of Technology, Division of Service Management, Dept of Technology Management & Economics, Sweden	Associate Professor, PhD, docent	<a href="mailto:anna.kadefors@chalmers.se">anna.kadefors@chalmers.se</a>
Dr Karen Manley (KJM)	Queensland University of Technology, Australia	Deputy Director - Research, School of Urban Development, Project Management Academy	<a href="mailto:K.Manley@qut.edu.au">K.Manley@qut.edu.au</a>
Suvi Nenonen	Built Environment Programme 2009-2014/Tekes, Finland	Programme Coordinator	<a href="mailto:Suvi.Nenonen@fsrc.fi">Suvi.Nenonen@fsrc.fi</a>
Dr Wim Bakens	CIB	Secretary General	<a href="mailto:Wim.bakens@cibworld.nl">Wim.bakens@cibworld.nl</a>

<b>Likely participants not at meeting</b>			
Don Ward	Constructing Excellence, UK	Chief Executive	<a href="mailto:don.ward@constructingexcellence.org.uk">don.ward@constructingexcellence.org.uk</a>
Prof Geert Dewulf	University of Twente, Netherlands	Professor of Planning & Development & Head of Dept of Construction Management & Engineering	<a href="mailto:g.p.m.r.dewulf@utwente.nl">g.p.m.r.dewulf@utwente.nl</a>
Niels Noorderhaven	Tilburg University, Netherlands	Professor of International Management, Director of Center for Innovation Research	<a href="mailto:n.g.noorderhaven@uvt.nl">n.g.noorderhaven@uvt.nl</a>
Aminah Robinson Fayek	University of Alberta , Canada	NSERC Associate Industrial Research Chair in Construction Engineering and Management, Hone School of Construction Engineering	<a href="mailto:aminah.robinson@ualberta.ca">aminah.robinson@ualberta.ca</a>
Chris Kane	BRANZ Ltd – New Zealand	Innovation Strategy and Quality Manager	<a href="mailto:chriskane@branz.co.nz">chriskane@branz.co.nz</a>
Jukka Noponen	SITRA, Finland	Director, M.Sc (Technology), Energy Programme	<a href="mailto:Jukka.noponen@sitra.fi">Jukka.noponen@sitra.fi</a>
Virpi Mikkonen	Tekes, Finland	Senior Technology Advisor, Real Estate and Construction Industries	<a href="mailto:Virpi.mikkonen@tekes.fi">Virpi.mikkonen@tekes.fi</a>

Keith Hampson welcomed attendees on behalf of his co-coordinators Aminah Robinson Fayek and Judy Kraatz. Keith summarised the transition of this task group as a continuation of the industry research and innovation focus of the previous task groups:

TG35  
 TG47  
 TG58  
 TG85

The objectives of this Task Group include:

1. To establish an international network to exchange knowledge and contribute to new understandings and knowledge related to leveraging R&D investment in the building and construction industry. A key aspect of this focussing on collaboration between private sector organisations and public sector agencies to maximise outcomes. to establish an international group of researchers to undertake an agreed research agenda across several countries to further facilitate discussion and debate (based upon comparable data, where and as possible). The intent being to further develop the knowledge-base and academic theory relevant to this field.
2. To potentially build a consensus of metrics to better enable the on-going exchange of knowledge and findings relating to R&D investment.

3. To establish a formal forum for the exchange of information and knowledge specifically related to R&D investment (with a focus on dissemination and maximising impacts).
4. To promote publication in this field to enable greater global dialogue regarding R&D investment and its impacts (both academic knowledge-base and industry outcomes).
5. To strengthen collaboration between private firms, government agencies and research institutions to deliver better policy and programmes aimed at achieving enhanced investment outcomes.

The attendees introduced themselves and their areas of interest:

**Karen Manley:** Her R&D outputs are incorporated into practice.

**Kalle Kahkonen:** How to *sell* research projects and the business context to companies.

**Miimu Raksinen:** How to motivate people through improved understanding of R&D impact.

**Kim Haugbølle:** understanding social and technological change (especially sustainability and housing).

**Suvi Nenonen:** The role of networks, social issues – how to get this into practice.

**Anna Kadefors:** What type of programs to promote.

**Wim Bakens:** R&D should be an integral part of the industry – make research fundamental to business. Good political mileage. No other task group or working commission is examining impacts. This group has a special and critical role.

**Keith Hampson:** Building on previous industry and academic research leadership and CIB task groups – keen to integrate the global efforts into a single, influential body of work that we can all be proud of.

### **Background Discussion**

Good discussion around outputs from task group including:

- Contribution of TG85 could be a how to measure impact tool to assist other CIB working commissions and task groups.
- Global need for metrics, benchmarks, mechanisms for evaluating and communicating research.
- A need for embedding this work in a conceptual model – should link to existing initiatives e.g. European Union, Oslo Manual – especially structure and definitions
- Show added community value from improved construction linked to R&D.
- Potential PSIBouw analysis – need to link measurable objectives to evaluations of success.
- Outputs could be industry progress (productivity, improved safety), academic outcomes (publications, career development).
- Need to align industry and research performance measures.
- Not too prescriptive – allow serendipity (See PSIBouw red book from Geert Dewulf)

### **Proposed Outputs**

Constructive discussion followed regarding TG 85 deliverables:

- Structured around Phases 1-4 of Australia's Sustainable Built Environment National Research Centre (SBEnc) -
  - i. Audit and analysis of R&D investment in the Australian built environment since 1990
  - ii. Examine mechanisms of research and innovation and impact on public and private organisations.

- iii. Develop a strategic roadmap for the future of this critical Australian industry
  - iv. Develop policy to maximise the value of R&D investments to public and private organisations
- An analysis of what measures of research impact currently exist would be of value.
  - Targeting a clear deliverable for the WBC13 (World Building Congress, 5-9 May 2013):
    - i. Could be industry-focused report with academic companion document, or
    - ii. Published book (eg Taylor & Francis?) – but longer lead times may make this an ambitious target (publication late 2013?).
    - iii. Seek to confirm book structure / chapters by February 2012.
    - iv. Technical and management areas to be encouraged for inclusion (broader definition of R&D Impact/Innovation).

### **Operational Progress**

- Agreed that bi-monthly one hour webinars would be best organised by CIB Secretariat commencing Wednesday 7 December, 2011. Thereafter Wednesday 8 February, 2012; Wednesday 4<sup>th</sup> April, 2012(?); Wednesday 6 June, 2013 and so on.
- 10am in FI equals 9am in SE and NL equals 5pm in Brisbane, Australia.
- Short presentation at each webinar from a TG participant with experience in evaluating R&D investment and impact (eg Geert Dewulf, NL followed by Keith Hampson, AU).
- It would be advantageous to involve industry if possible
- Countries likely to be engaged include:
  - Australia (Keith Hampson, Karen Manley and Judy Kraatz, Seokho Chi)
  - United Kingdom (Don Ward plus ?)
  - Ireland (Ken Thomas)
  - Canada (Aminah Robinson Fayek)
  - Sweden (Anna Kadefors, Roine Leiringer)
  - Finland (Renita Niemi, Kalle Kahkonen, Miimu Airaksinen, Virpi Mikkonen, Jukka Noponen and Suvi Nenonen)
  - Denmark (Kim Haugbølle)
  - Netherlands (Geert Dewulf and Niels Noorderhaven, Emelia Van Egmond-de Wilde de Ligny)
  - France (Herve Charrue and Luc Bourdeau)
  - New Zealand (Chris Kane)
  - Portugal (F.A. Branco)
  - South Africa (Rodney Milford and Ntebo Ngzowana)
  - Hong Kong (Geoffrey Shen)

### **Actions Arising from Meeting:**

1. Wim Bakens to re-forward *how to measure impact* document
2. Wim Bakens to organise the first webinar for 7 December, 2011.
3. Keith Hampson to prepare agenda for circulation two weeks before each meeting).