Changes in the construction sector are creating opportunities in research to maximise the benefits of those changes and to continue the exciting developments in improved people skills, new processes and developing technologies. There are many research centres around the world investigating aspects of the current changes to drive their particular expertise forward. However, the CIB Integrated Design and Delivery Solutions (IDDS) priority research theme takes a higher-level view of the changes and then focuses down on a prioritised set of research targets. These targets have been investigated, re-focused and validated over a period of four years through many workshops, conferences and meetings by a wide ranging group of representatives from approximately 90 industry and research organisations.

**IDDS: what is it**

IDDS aims at transforming the construction sector through the rapid adoption of new processes, such as Integrated Project Delivery (IPD) and Lean Construction and procurement, together with Building Information Modelling (BIM) and automation technologies, using people with enhanced skills in more productive environments.

The development of IDDS is about radical and continuous improvement.
IDDS uses collaborative work processes and enhanced skills, with integrated data, information, and knowledge management to minimize structural and process inefficiencies and to enhance the value delivered during design, build, and operation.

**IDDS Research Agenda**

In the report an elaborate Research Agenda is proposed, focused on the following four interconnected research targets:

- Developing Improved Sustainability Models and Measures
- Defining the Built Environment Information Fabric
- Improving Current Practices
- Engendering Cultural Change & Knowledge Management and Dissemination

**IDDS Roadmap Authors**

Associate Professor Robert L Owen (Queensland University of Technology, AU), Professor Robert Amor (Auckland University, NZ), Dr John Dickinson (National Research Council of Canada & Advanced BIM Solutions, CA), Associate Professor Dr Matthijs Prins (Delft University of Technology, NL) and Professor Dr Arto Kiviniemi (University of Salford UK)

**IDDS Roadmap Workshop**

The IDDS Research Roadmap will be presented as part of the CIB 2013 World Building Congress at a designated workshop on Tuesday May 7, at 10:30 - 12:00 in room Plaza (provisional, check final program).

**Contact**

Both the full report and the summary publication can be downloaded from the designated Roadmap section in the CIB home page here.

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**CIB Research Roadmaps**

CIB will produce a series of Research Roadmaps. Each Roadmap will be produced as:

- a Full Report that aims to address the world community of researchers, academics and other experts working in the respective area.
- a Summary Publication that aims to address decision makers at Research Programming and Funding Agencies and that in general will be somewhat shorter and have a somewhat more popular appearance.

In principle all Research Roadmaps will be structured as in the given illustration.

The objective of a CIB Research Roadmap is to provide an authoritative description of the topic or area it addresses, with an expert analyse of the main challenges in the current stare-of-the-art and a consensus based vision of the future. Extensive rounds of consultation of experts within and outside CIB and of stakeholders from all over the world provide a basis for defining the possible role of research in making such vision reality. Based on all of this finally the Roadmap defines a Research Agenda that can support discussions on priorities in research and research funding worldwide.

When research institutes and research funding agencies commit to covering parts of this agenda, they now may do so with the knowledge that the value of their research will be substantially higher because it will be part of a bigger agenda, and they will be part of a network of institutes who want to share information and collaborate with the Research Roadmaps and the included Research Agenda as the platform for that.

All CIB Roadmap Publications (Full Reports, Summary Publications and Consultation Reports) can be downloaded in the designated section in the CIB website here.