



March 2015

Around the Commissions

TG91 - Infrastructure

Introducing a New Task Group

The CIB Programme Committee has established the New Task Group TG91 on Infrastructure and appointed Assoc. Prof Robert Owen of the Queensland University of Technology, Australia as the Coordinator.

Scope and Objectives

Against this background, the Task Group objectives include:

- to develop evidence-based methods to improve the design and delivery of infrastructure from economic and social perspectives, using project and technology best practices
- to explore new technological approaches to understanding conditioning of existing infrastructures and novel approaches to their maintenance and repair.

The Task group aims to develop a Research Roadmap to identify greatest contributions and gaps to:

- evidence best practice for portfolio, program and project management of infrastructure design, delivery and improvement, particularly in developing nations
- uncover emerging novel technical solutions and their relative merits compared to standard practices
- develop resilient and sustainable solutions for whole-life use.

The Task Group will focus on two research areas that respectively aim to:

- improve the design and delivery of infrastructure projects so that these can be effectively monitored and maintained, particularly later in their life cycle. Themes in this research area may include: whole-life design, project delivery, embedded sensors, big data, sustainability and resilience
- develop more efficient and effective infrastructure monitoring techniques to detect defects and partial failures before these become catastrophic or move to a point beyond repair.

Themes in this research area may include: robotic vision, advanced diagnostic and survey sensors, big data and spatial information, new approaches to cost-benefit analysis.

Work Programme

The Task Group will:

- run a series of workshops, both in-situ and online, to determine where research gaps lie to deliver solutions to the two focus research areas
- collaborate with other CIB Priority Themes and Commissions
- run a first conference as part of the CIB 2016 World Building Congress
- explore possibilities for industry and academic funding
- establish collaborative relations with the World Bank Group and GIH - the Global Infrastructure Hub.

Planned Output and Meetings

- 2015:** Infrastructure Scope Development Workshops, February in Washington DC, USA, in May, Durban, South Africa, and in July, Kolkata, India
- 2016:** May, 30 - June 3, Session on Infrastructure, as part of the 20th CIB World Building Congress, in Tampere, Finland
- 2016:** MOU's for collaboration with World Bank and GIH
- 2016:** proceedings from a Task Group conference
- 2018:** publication Infrastructure Research Roadmap

External Structure

The Task group aims to establish collaborative relations with the World Bank Group and GIH - the Global Infrastructure Hub.

Introducing the Coordinator

Assoc. Prof Robert Owen



Additional Information

For further information about CIB TG91 contact the Coordinator: Bob Owen robert.owen@qut.edu.au.

You can find more information on the activities of CIB TG91 [here](#).