

Conference scope

13th Conference of the International Group for Lean Construction IGLC 13

For each area, we are interested in research and practice that supports the goals of lean production at every level of the design and delivery process. Visit the IGLC 12 site to gain an understanding of the breadth of our interests at <http://www.iglc2004.dk/13386>

Theory

What are the theories that underpin our understanding of lean construction/production and how can we leverage them to improve our understanding of what happens on construction sites. We are interested in both production and social science theory that informs our understanding of lean planning, implementation and practice.

Project delivery

Management of people and teams

Waste is created through the lack of alignment between the parties working side by side on construction projects. This translates into dysfunctional teams, poor levels of cooperation and lost opportunities for the optimum use of resources. We are interested in research and practice in creating alignment, in creating trusting, open working relations, in developing effective teams, in effective collaboration between companies and their personnel on construction projects.

Lean Supply Chain Management

The application of the concepts of supply chain and value stream mapping to production analysis across the supply chain as the basis for improving the efficiency of procurement and production and the development of more closely integrated supply.

Safety, Quality and Environment Management Systems

New management and collaboration ideas and tools are changing planning, implementation, feedback and process improvement in relation to safety, quality and environmental management in the construction phases of project delivery. These are providing the opportunity for industry leaders to radically improve their outcomes.

Performance measurement

One of the main drivers of continuous improvement or learning is performance measurement and benchmarking, organizations that focus on key performance drivers measure their progress towards their goals continuously. Research and lean practice is eliminating waste and improving efficiency at every level of the process.

Minimising Waste

Production planning and control

New management and collaboration ideas and tools are changing production planning and cost planning and control in both the design and construction phases of project delivery. These are leading to substantial improvements in performance.

IT support for Lean Construction

IT through its rapidly developing potential for visualisation and collaboration is supporting the transformation of processes within design, planning and production. Interorganisational collaboration integrating IT across functions in the supply chain offers opportunities for process re-engineering.

Buffer Management and Work Structuring

The efficiency of processes depends on the design of the overall production system, batch design and the structure of specific work packages. We are interested in research and practice in the area of production systems design and tools that support more efficient process design.

Prefabrication, Assembly and Open Building

Production ideas such as modular production, tolerance mapping, dimensional coordination and prefabrication in lean production strategies are explored under this theme.

Maximizing Value

Product Development

This theme explores issues throughout the product development process from client briefing, design management, target costing, standardization, mass customization, procurement of design services and whole life approach including building in use disassembly and recycling.

Strategy and Implementation

Projects that achieve the ideals of lean production are set up to succeed from the outset. We are interested in research and practice in establishing procurement frameworks that are conducive to lean delivery, strategies for initiating lean oriented projects in both the design and construction phase, in improving our understanding of the elements of contracting strategies for alignment. We welcome examples of successful implementation presented in the lean context.