

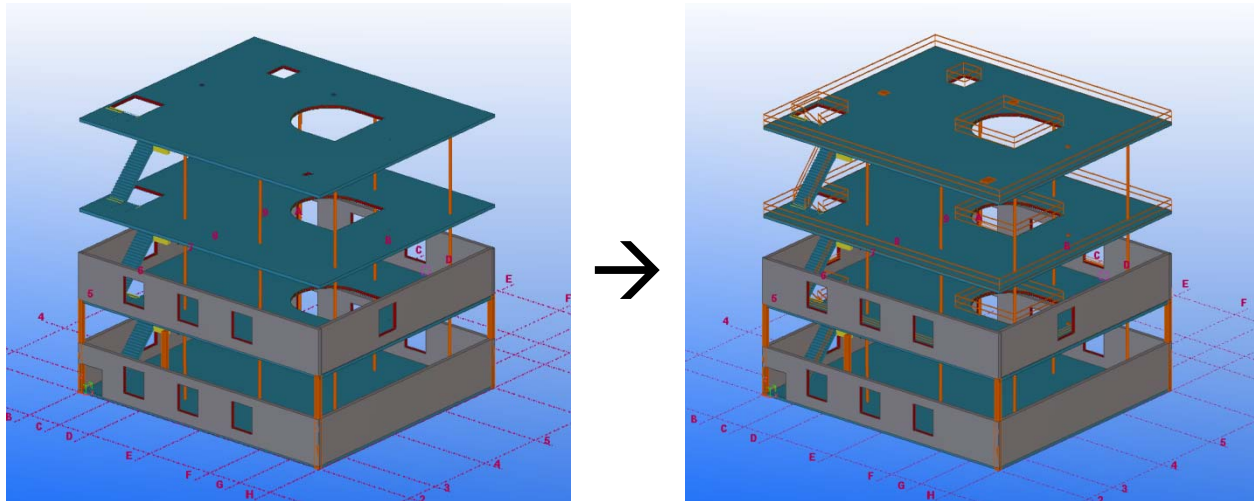


**International Council
for Research and Innovation
in Building and Construction**



**RAPIDS Team Wins First BIM & Safety Competition at the 2012
CIB W099 International Construction Safety Conference in Singapore**

September 11, 2012



Building Information Modeling (BIM) is one of the most conspicuous attributes of a fundamental change that is swiftly transforming the construction industry. The findings of studies on the use of BIM have shown that communications can be improved and errors can be eliminated; thus resulting in a safer worksite. The aim of this competition was to showcase the integrated design and collaborative features of BIM in enhancing safety on construction projects. Students and professionals were encouraged to use BIM to add the Safety Dimension for monitoring and improving safety performances on construction projects. Participants formed teams and used real-life project or a hypothetical case to demonstrate BIM capabilities in enhancing safety on construction sites.

The RAPIDS (<http://www.teizer.com>) team, led by Prof. Jochen Teizer and graduate student Sijie Zhang, developed an automated safety-rule checking platform for Building Information Models (BIM). It assists (safety) engineers as it allows detecting and mitigating potential safety hazards early in the design and planning phase of a construction project and before construction starts. As a first-of-a-kind study, their tool provides significant potential on how construction safety is performed in today's construction world. Applications reach beyond just in the construction industry as such safety rule-checking platforms can be applied to any workplace.