About

OVERVIEW

The NUS Construction 3D Printing Unit aims to increase productivity by using BIM innovation and practice to transform the way people design, deliver and manage the built environment. This will support the construction sector, as it results in cost reductions, higher quality of work, improved safety and better performance of facilities over the entire life cycle. The NUS Construction 3D Printing Unit is hosted by the NUS Department of Architecture and the NUS Department of Building, within the School of Design and Environment.

Vision

A leading global center, influencing the state of art of BIM technologies across research, industry and education.

Mission

- To be the world's leading research unit on the management of construction 3D printing and a wellspring of management knowledge in this field
- Attracting leading researchers from multi-disciplinary fields
- Nurturing a skilled talent pool
- Establishing strong linkages with and delivering state of the art and innovative management solutions to construction industry

Roadmap

NUS has developed a BIM Integration Roadmap to augment the BIM capability of the Singapore Construction Industry. It seeks to improve quality and productivity by transforming the way people design, deliver and manage the built environment through BIM innovation and practice.

Objectives of NUS COE

The proposed NUS COE will have the following objectives:

- To become a leading global centre in BIM Integration through high impact research, broad-based education, and implementing best practices
- To augment the BIM capability of the Singapore Construction Industry and facilitate BIM adoption
- To transform the way people design, deliver and manage the built environment through BIM innovation and practice

Benefits of NUS COE

It will assist the local construction industry to improve quality and productivity by transforming the way people design, deliver and manage the built environment through BIM innovation and practice. This will deliver greater value to clients and users in terms of cost reduction, higher quality, safety, and better performance of facilities over the entire life cycle

It will establish NUS as a leader in BIM to carry out high-impact research through R&D funding and export this expertise

It will provide a platform to effectively educate undergraduate and graduate students.

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WELCOME MESSAGE

The National University of Singapore (NUS) has developed an Integrated BIM Roadmap to influence the state of art of BIM technologies across research, industry and education to augment the BIM capability of the Singapore Construction Industry. The NUS Construction 3D Printing Unit (C3DPru) will assist the local construction industry to achieve Productivity Improvement by transforming the way people design, deliver and manage the built environment through BIM innovation and practice. This will deliver greater value to clients and users in terms of cost reduction, higher quality, safety, and better performance of facilities over the entire life cycle. To achieve this goal, the NUS COE will be embarking on a series of BIM research projects to develop and implement best practices. It will work with local stakeholders as well as international collaborators.

The centre's aim is "Having Solutions Targeted for the People, by the People"

To fulfil this aim, the centre is committed to work along three paths:

- Bridging Disciplines :Synergizing fragmented disciplines in order to enable more effective BIM collaboration.
- Innovating Solutions : Researching state-of-the-art solutions in order to inspire BIM innovation.
- Managing Process : Analysing user feedback in order to guide future directions in BIM development.

The BIM COE encompasses professors, researchers and PhD scholars from two departments : Department of Architecture and Department of Building, both under the School of Design and Environment (SDE).It is managed by two NUS academics as Co-Directors, Associate Professor Evelyn Teo Ai Lin from the Department of Building and Assistant Professor Kim Hyeong Ill from the Department of Architecture. The centre is supported by a Steering Committee, comprising NUS staff and representatives from BCA, BCA Academy and industry.

Assoc. Prof. Evelyn Teo Ai Lin (Dept. of Building)
Asst. Prof. Kim Hyeong ill (Dept. of Architecture)

Co-Directors- BIM COE

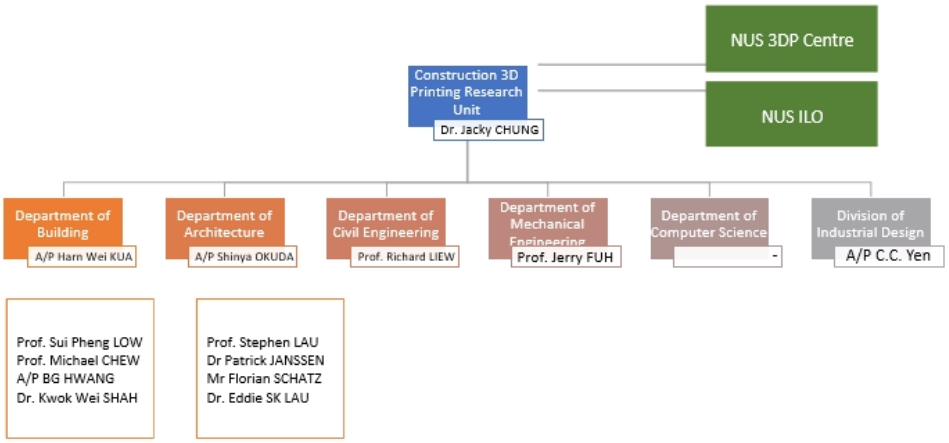
ORGANISATION

The centre is managed by two Co-Directors :

- Associate Professor Evelyn TEO Ai Lin (Dept. of Building)
- Assistant Professor Kim Hyeong ill (Dept. of Architecture)

The centre is headed by a stearing committee which consists of dean, industry partners and head of departments. It also has independent Full Time (FT) managers, professors, research staffs and PhD students working for the centre.

The Below picture shows the detail organization chart of C3DPru:



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Faculty members

Department of Building

Associate members

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Vqevblevbeqovenqiovneqvnjkavb;o

Students members

Njaskvwjqv qkwjvnqv

Nvjqenveqvnqevunqevjkqnjnkvqjvbqebvnqeuvqnvqvuqevbb

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AEC3Korea

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