

CONSTRUCTION INDUSTRY TRANSFORMATION MAP

The collective effort of the Industry, Institutes of Higher Learning, Union and Government



OUR VISION

Advanced and Integrated Sector
 Progressive and Collaborative Firms
 Good Jobs for Singaporeans



GLOBAL TRENDS SHAPING THE BUILT ENVIRONMENT SECTOR



Digital Revolution

Advent of smart buildings, new construction technologies and digitalised work processes



Rapid Urbanisation

Need for advanced technologies, to build faster and better



Climate Change

Strong demand for green building expertise



3 KEY AREAS TO TRANSFORM THE SECTOR

Design for Manufacturing & Assembly (DfMA)

- Design upfront for ease of manufacturing and assembly
- Highly-automated offsite production facilities
- Efficient and clean onsite installation process



Green Buildings

- Design for Green Buildings
- Sustainable practices in operations and maintenance



Integrated Digital Delivery (IDD)

Enabled by Building Information Modelling [BIM], IDD fully integrates processes and stakeholders along the value chain, through advanced info-communications technology [ICT] and smart technologies.

HOW CAN WE TRANSFORM THE BUILT ENVIRONMENT SECTOR TOGETHER?



Increase adoption of DfMA and IDD

- Establish a robust DfMA ecosystem to make DfMA price competitive, as well as enable widespread adoption
- Develop IDD shared platforms and standards to support the adoption of IDD solutions

Build strong and capable firms

- Review public procurement practices for:
 - Better differentiation of quality
 - More transparency
 - Greater collaboration among firms

Support workforce needs and aspirations

- Attract more Singaporeans with higher-skilled jobs, more competitive salaries, and better working environments
- Build core engineering skills in transformational areas via structured professional development pathways across Pre-Employment Training (PET), internships and early job training, and Continuing Education and Training (CET).



For more info, visit the ITM webpage on the BCA website

