

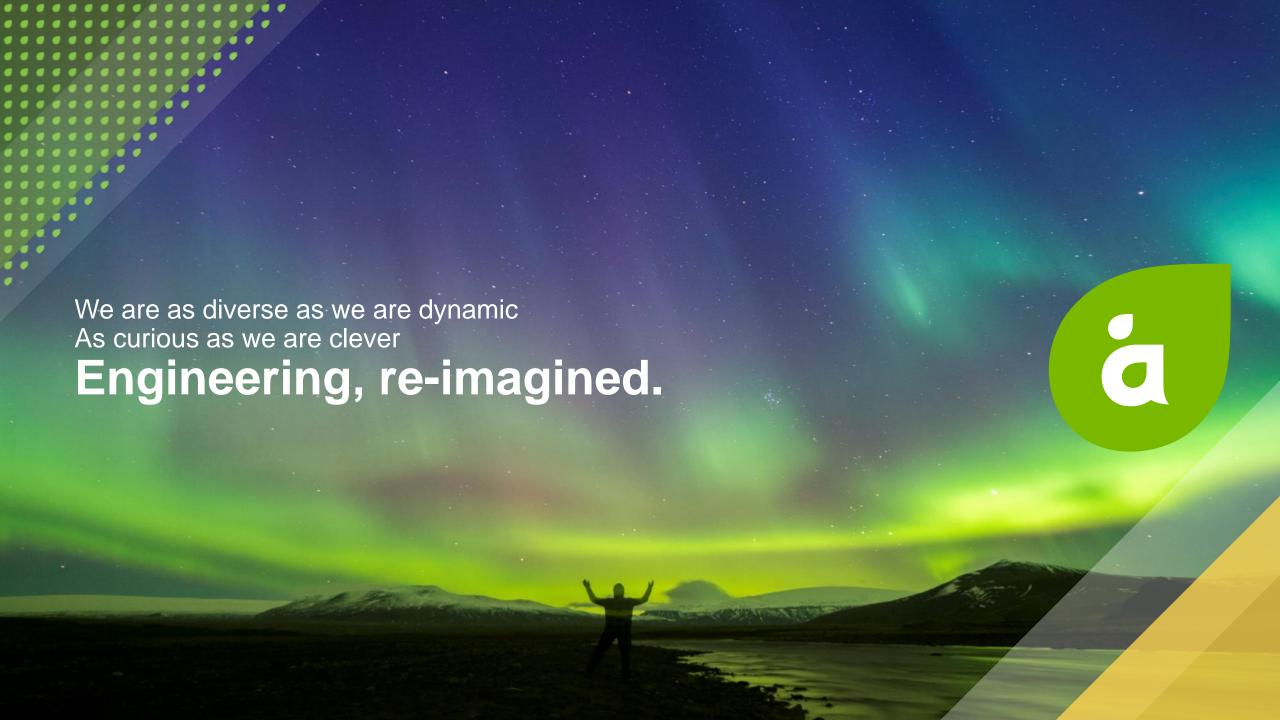
DfMA Alliance Forum BIM – Essential Tools to enable DfMA

DfMA Alliance Forum

BIM – Essential Tools to enable DfMA

24 Jul 2019







We believe humanity depends on engineering; and we recognise we have a broader stewardship role to play.

As we continually strive for a life in balance, Aurecon clients will be both future ready and engineered for life.





Project Information Management with BIM being the Centralized Database assisting the design to develop a buildable design such that the project is constructed as-Planned for the best overall value

以BIM作为中央数据库进行项目信息管理为设计阶段引入施工考虑让项目得以按计划施工达到项目的最大效益





Drone & LiDAR Survey

HKJC Pokfulam Public Riding School



Setting up

Set up base point to calibrate GPS



GPS receiver

GPS receiver unit set up at each Ground Control Point to calibrate the GPS before Drone Flying



Control Points

Base point and Ground Control Points set up at openspaced surface before the Drone Flying and LiDAR Laser Scanning



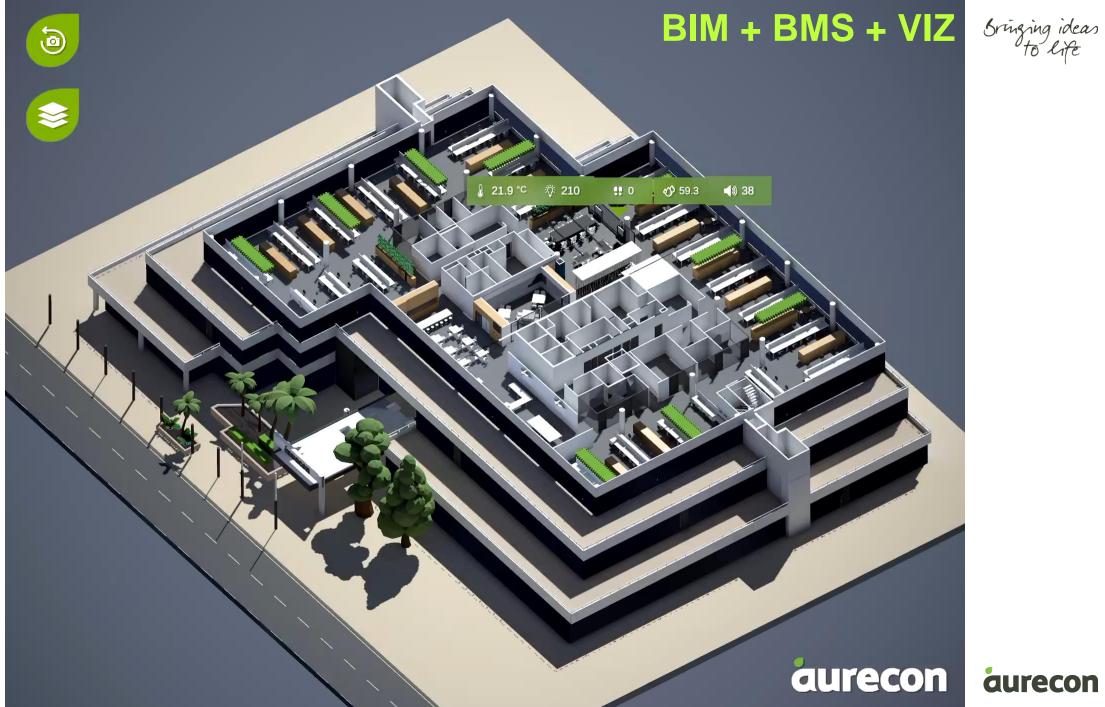
LiDAR Laser Scanner

Operation of a Lidar Laser Scan & Photogrammetry



Bringing idea





aurecon



Consultancy Services for Building Information Modelling (BIM) Standards of Statutory Plan Submission to the HKSAR Government for the Construction Industry Council (CIC)

Ir Francis LEUNG
Executive Director (Structural Engineering &
Digital Delivery), Greater China
Founding Chairman, HKIBIM





Software Specific

BIM Standards

Template

User Guide

Sample Project BIM Model

- (i) BIM models in native editable file format,
- (ii) drawings and schedules generated from and maintained in the BIM models in native editable file format, and
- (iii) drawings and schedules generated from the BIM models and exported to PDF file format



Design for Manufacture and Assembly

DfMA is the combination of two methodologies

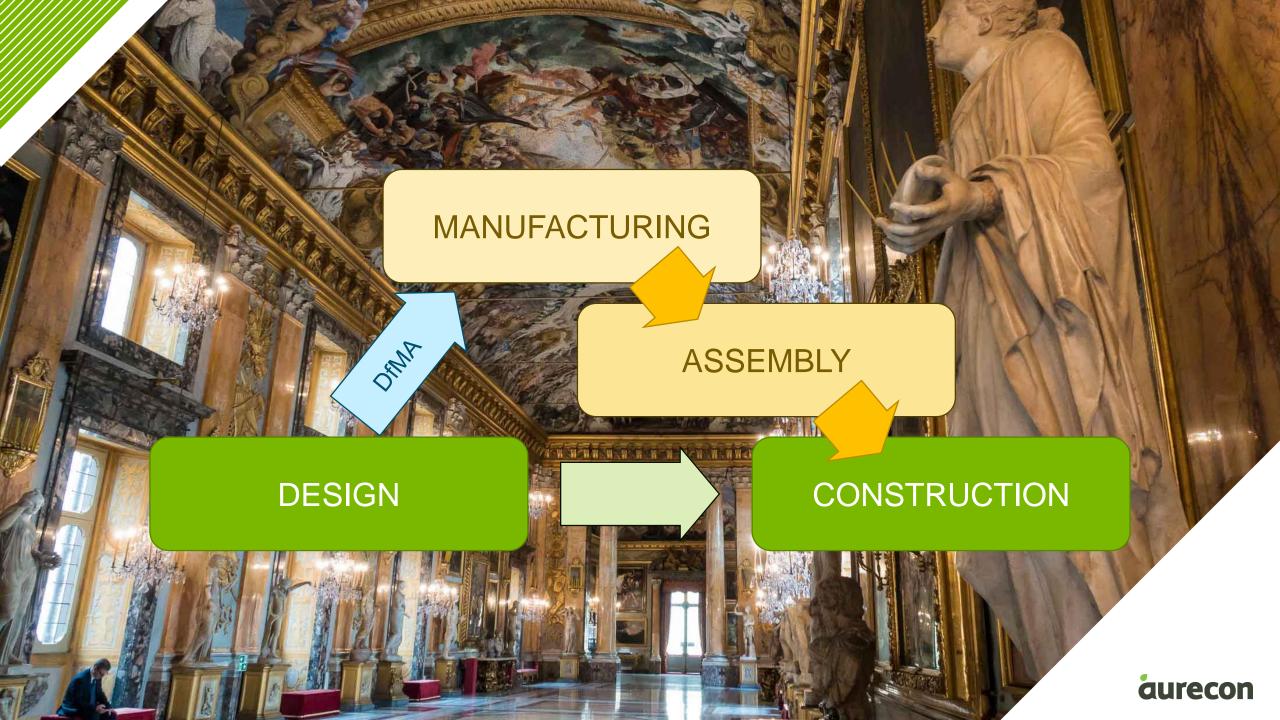
- Design for Manufacture, which means the design for ease of manufacture of the parts that will form a product
- Design for Assembly, which means the design of the product for ease of assembly

DfMA是指在产品设计阶段,充分考虑来自于产品制造和装配的要求,使得机械工程师设计的产品具有很好的可制造性和可装配性,从根本上避免在产品开发后期出现的制造和装配质量问题。

<u>s://en.wikipedia.org/wiki/DFMA</u>

https://baike.baidu.com/item/DFM/







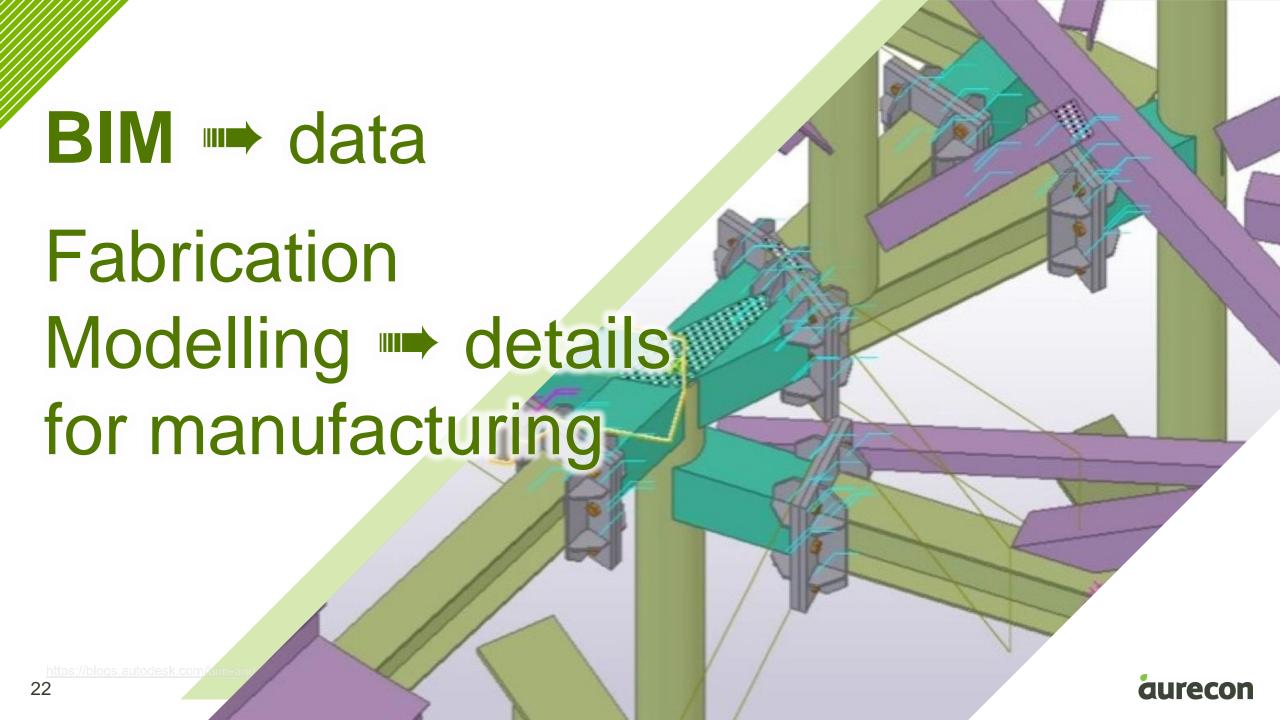












DfMA – Paint the Painting in Studio and Hang it on Site





Thank you

Bringing ideas to life



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