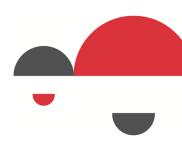


25-Oct-2022 Edmund Leong

# EMBRACING IDD IN CONSTRUCTION STAGES FOR STRAITS CONSTRUCTION







TRANSFORMING THE WAY WE BUILD WITH

**INTEGRATED DIGITAL DELIVERY (IDD)** 

Digital Design

Digital Construction

Digital Fabrication

Digital Asset Delivery & Management

## IDD builds on the use of BIM and VDC





### **IDD: Diversified Implementation Opportunities**

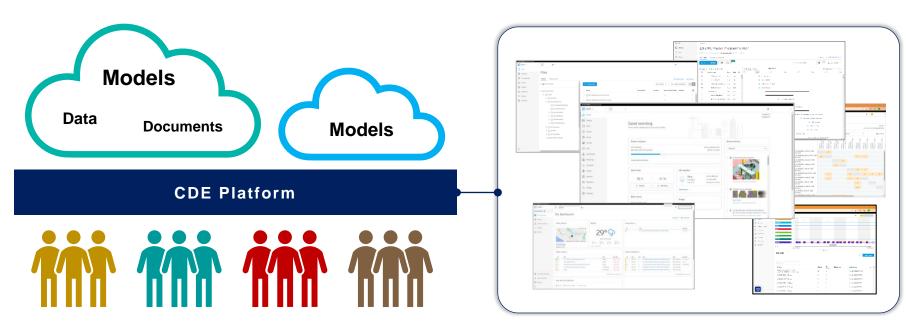
		DESIGN	CONSTRUCTION	FABRICATION	FM
Time	$\bigcirc$				
Manpower	iii				
Safety	•				
Quality	<b>✓</b>				
Cost	\$				
Others	• • •				

https://www1.bca.gov.sg/buildsg/digitalisation/integrated-digital-delivery-idd/idd-implementation-plan





#### Foundation → Common Data Environment









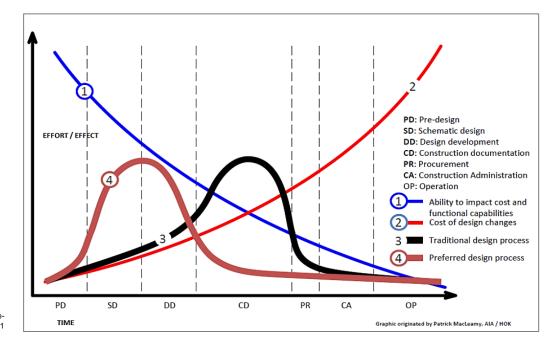
applications







- Design & Development, and Construction
- Applying "Macleamy Curve"

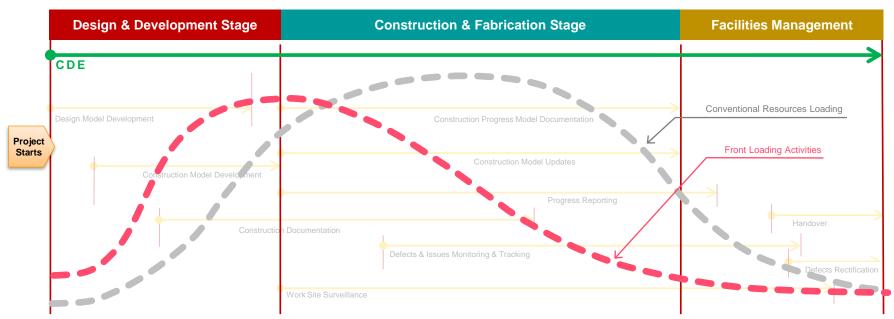


https://www.researchgate.net/figure/Figure-213-The-Macleamy-curve-Source-Wang-2014-The-Macleamy-curve-appeared-in fig7 349380801





#### Design & Development: Overlay Curve at Project Stages

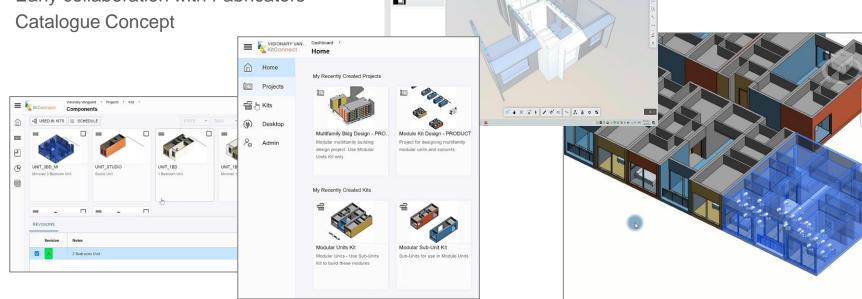






#### Design and Development

Early collaboration with Fabricators



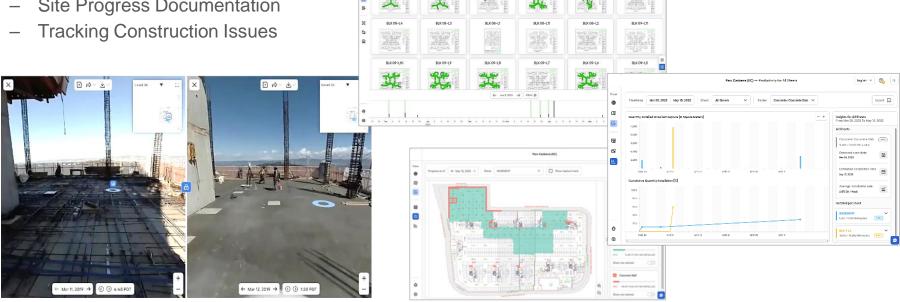




BLK 08-L5

#### Construction

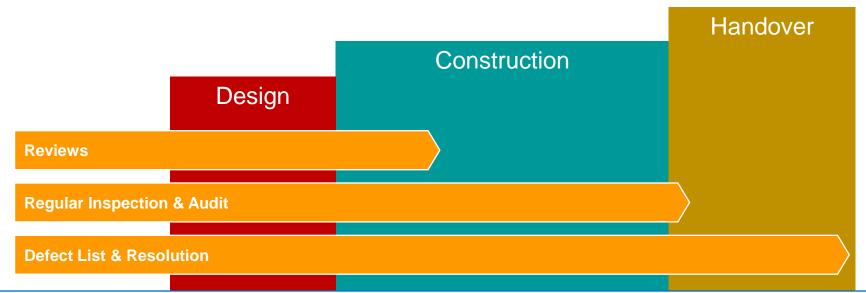
Site Progress Documentation







Facilities Management: Handling Defects







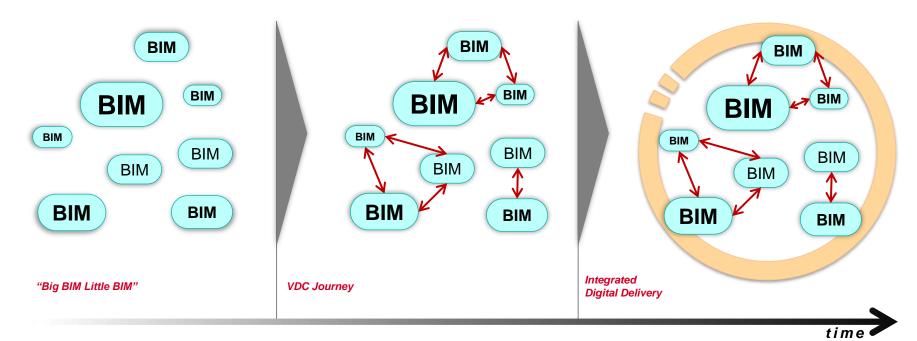
## **Applications in our IDD journey**

DD	CD	Fab	FM				
	Catalogue Applications	atalogue Applications					
	Site Documentation for Progress & Issues Recording						
	Defects Managen	ment — — —	Rectifications				
CDE : Autodesk Construction Cloud							





#### **IDD Journey in Straits**



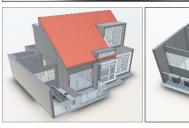




## **How IDD is helping our Projects**

#### **Terra Hills**







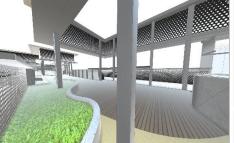




## **How IDD is helping our Projects**

#### **The Continuum**

















#### **IDD Implementation: Building Team Capabilities**

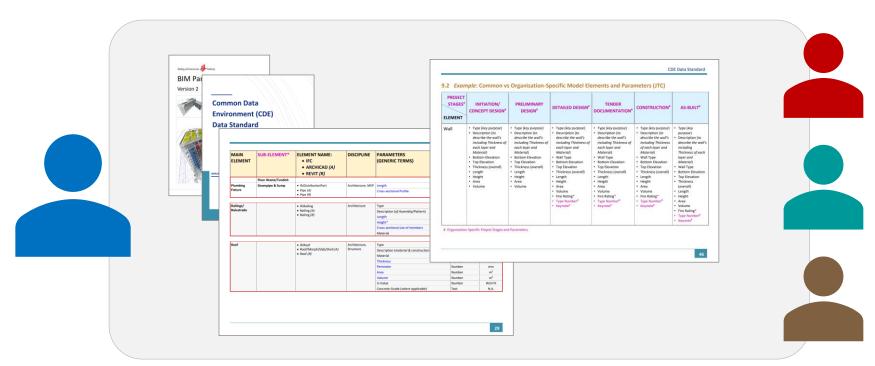


All Stakeholder: Developer, Consultants, Sub-Contractors & Internal Staff





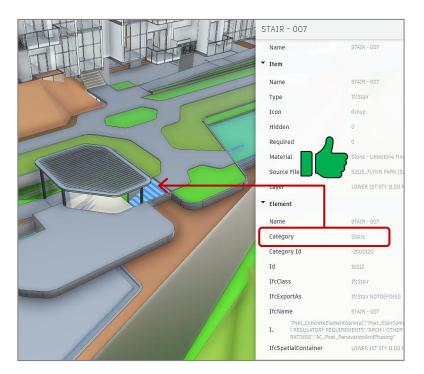
#### **IDD Implementation: BIM Handover**

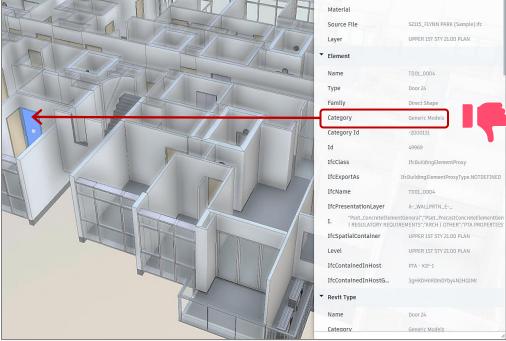






#### IDD Implementation: BIM Handover, harmonizing IFC exchange







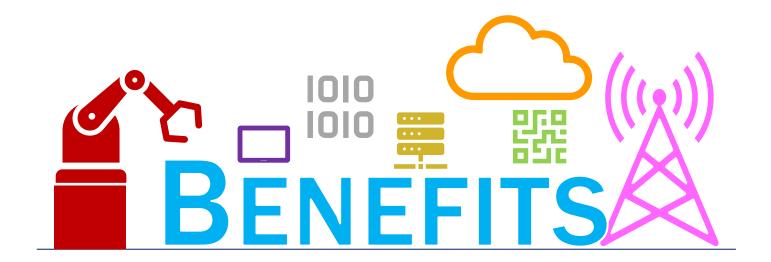


## **IDD Implementation: Integrated Modeling in ICP/PCP**















Optimize Resources

Improving Quality & Safety

Improve Productivity & Collaboration



DRIVERS











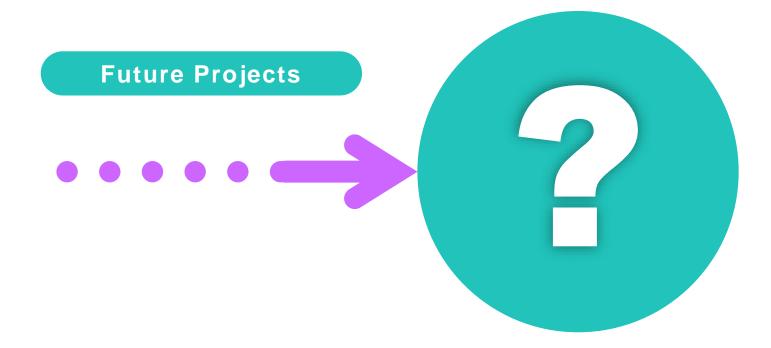
















## **Thank You**

