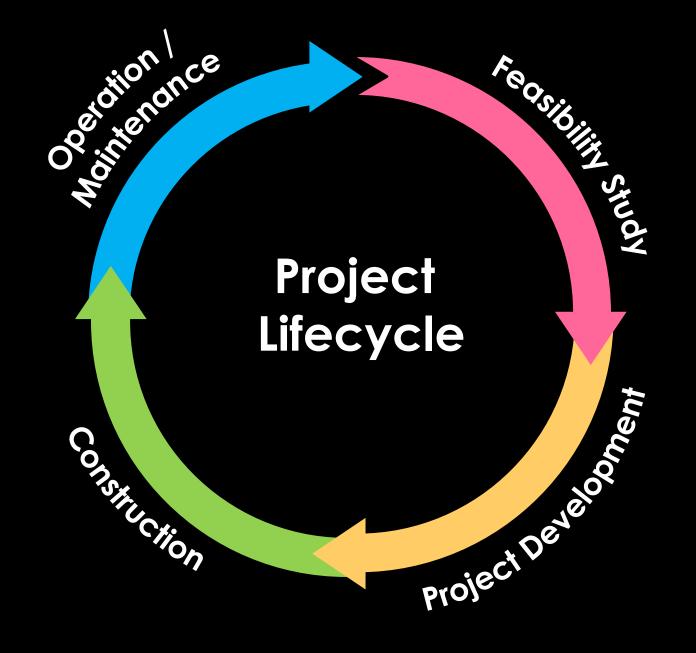




# Project Lifecycle

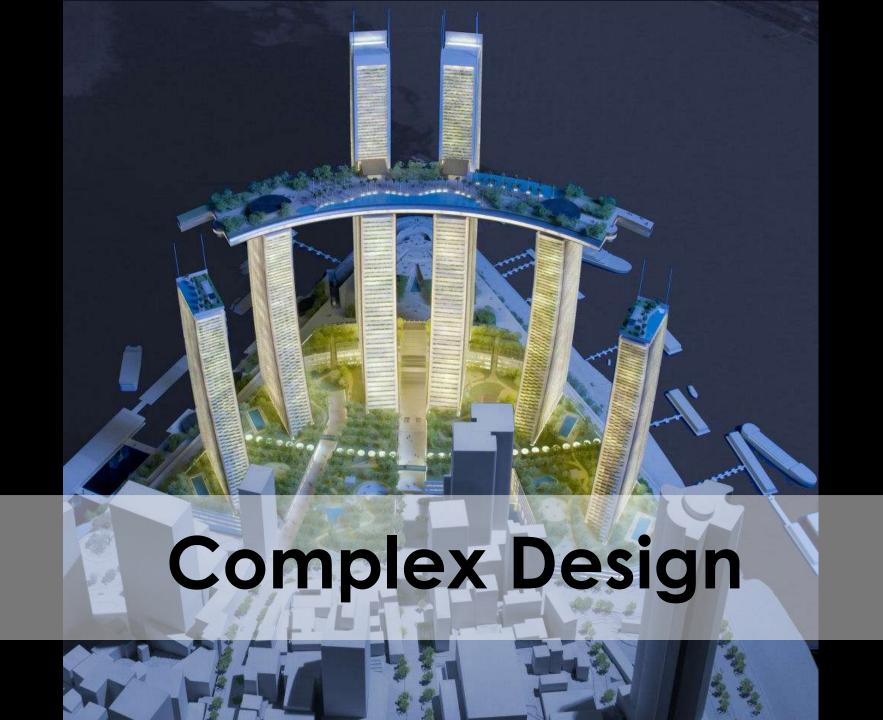


# Problems



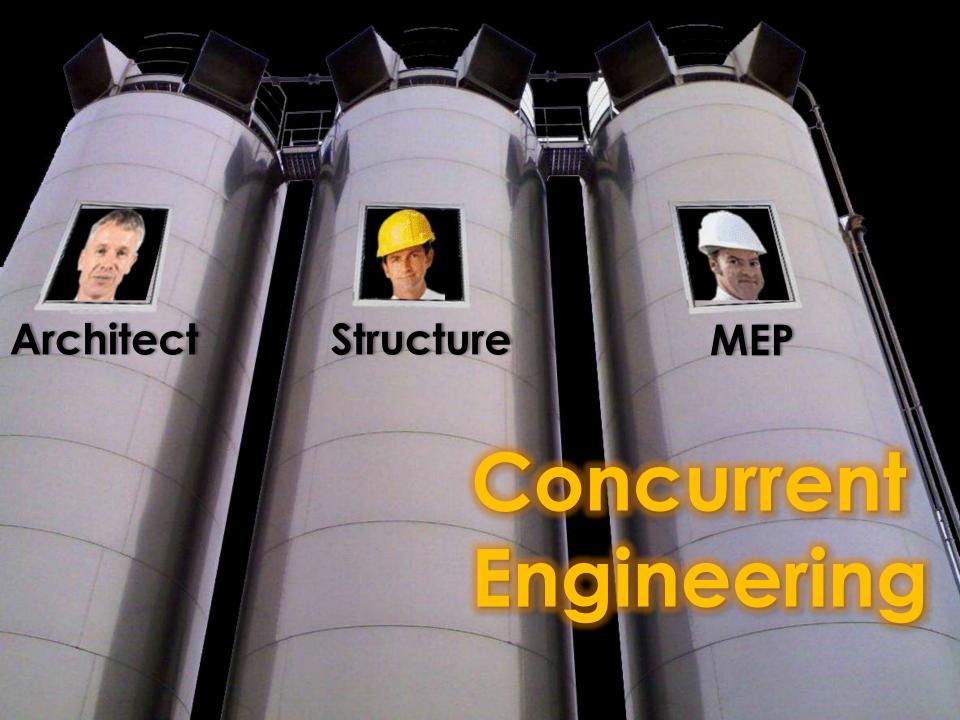
# Guesstimate





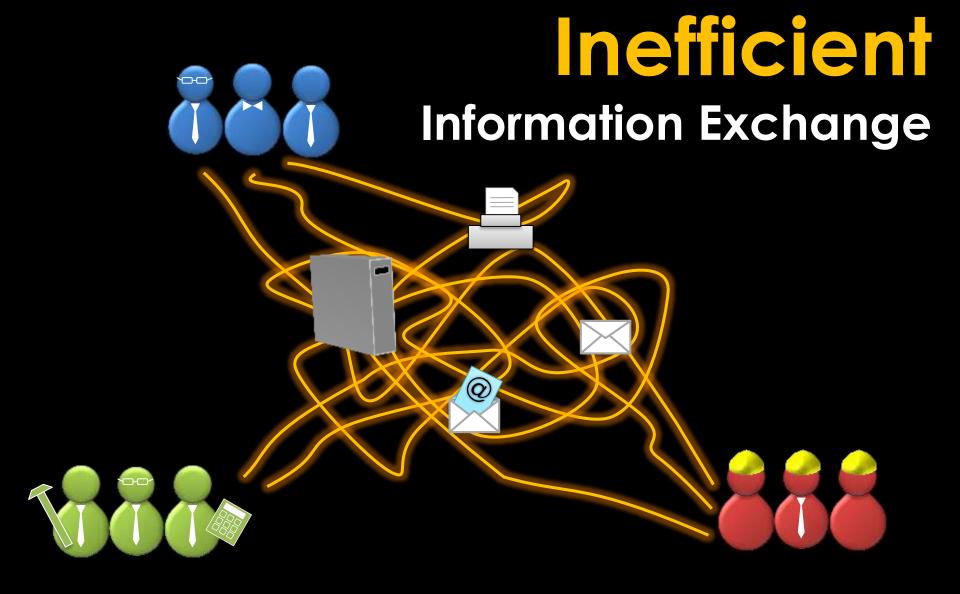
# Lack of Collaboration

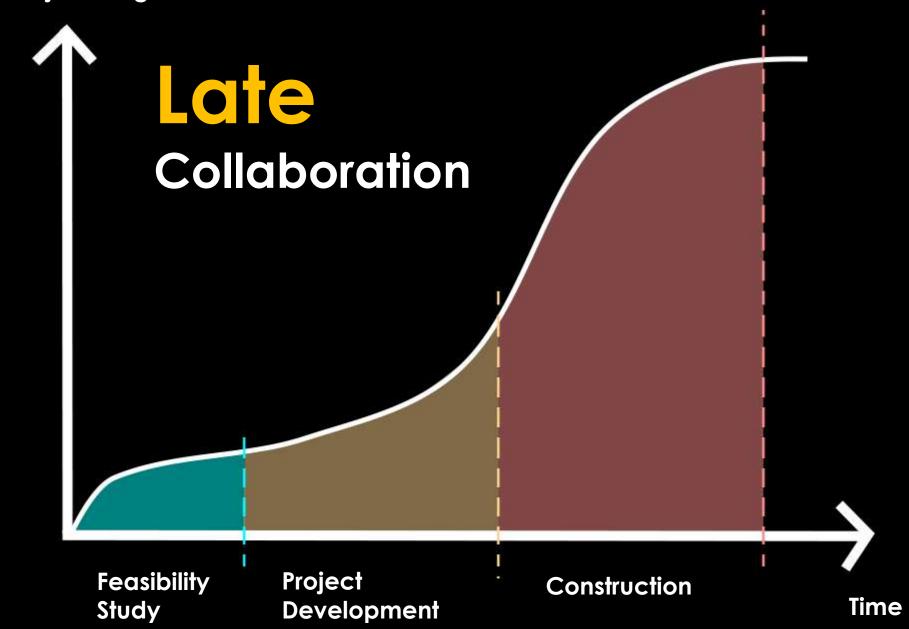






# The Outcome













Operation & Maintenance





# Call for Change

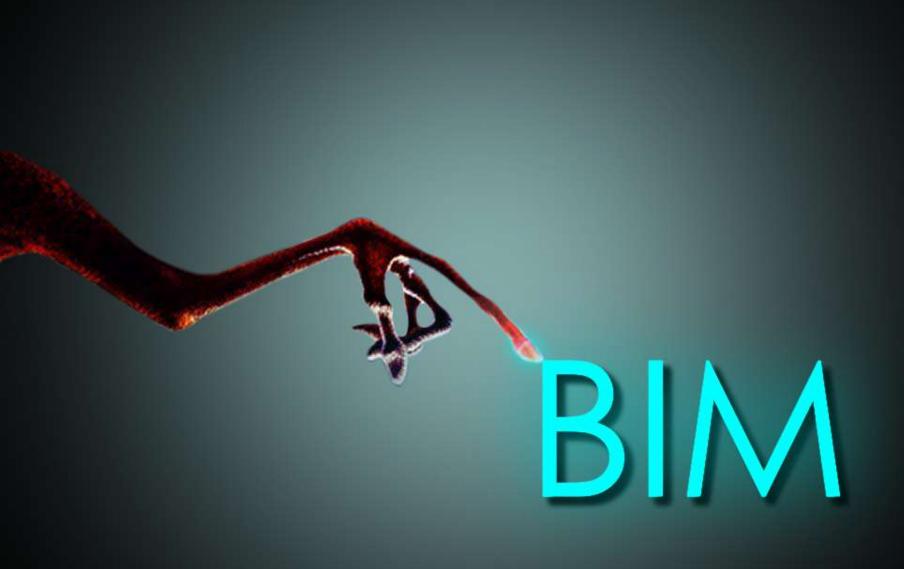




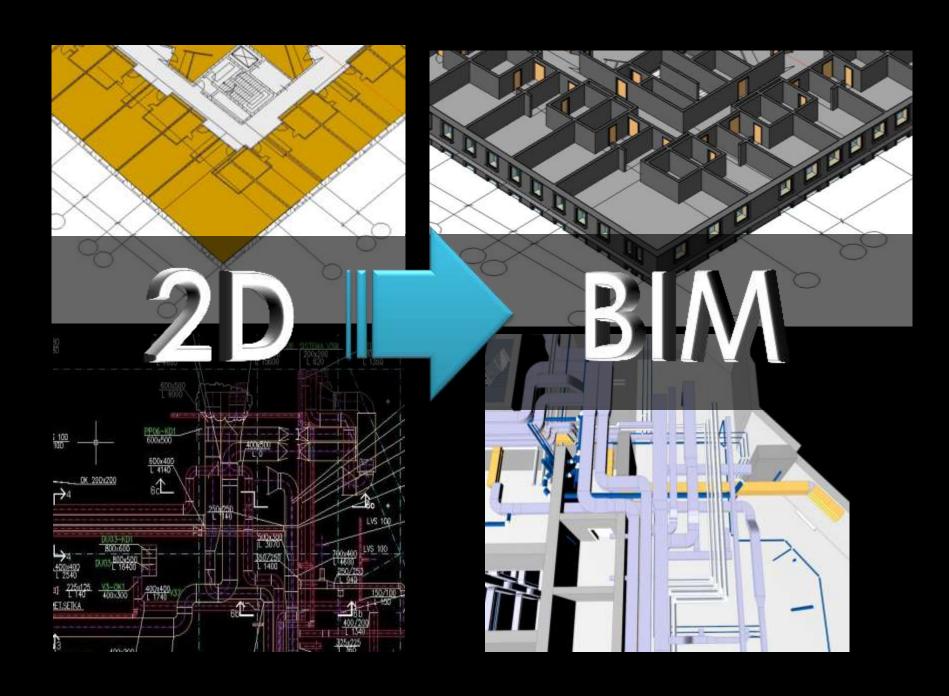


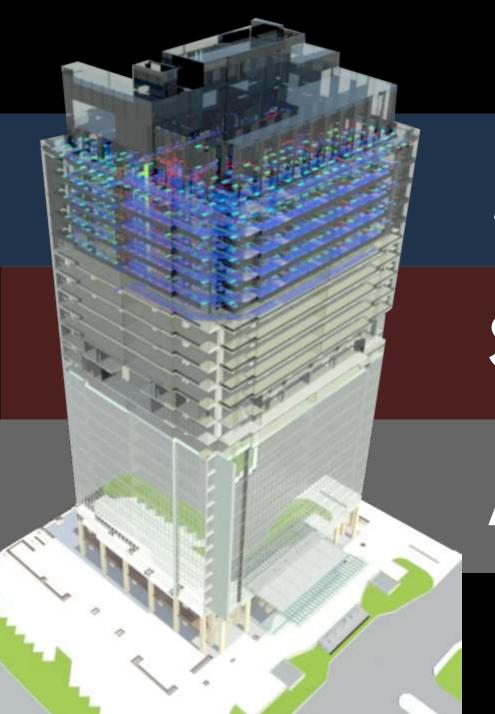






# Core Team





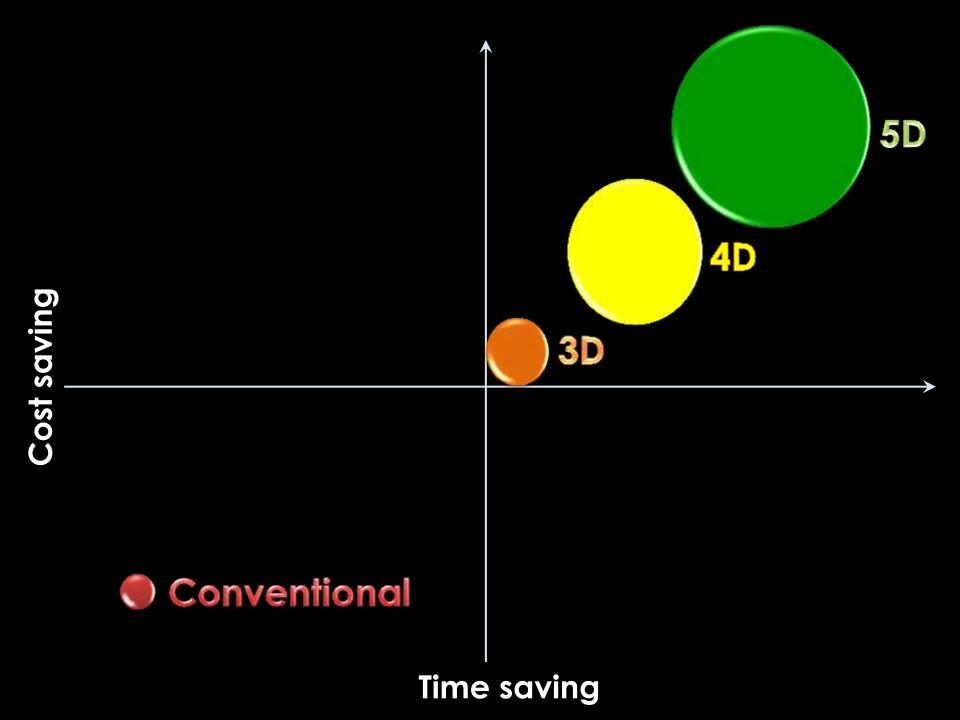
3D

**MEP** 

Structure

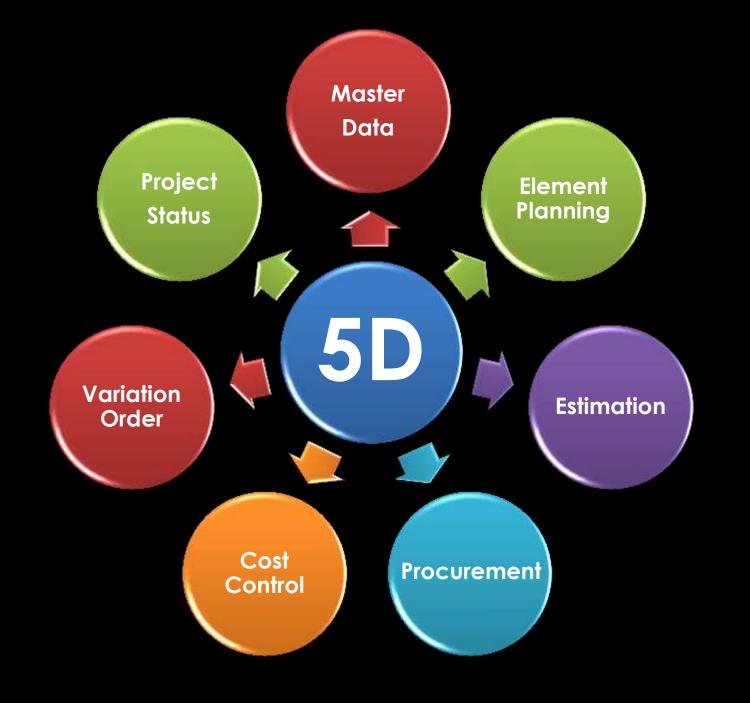
Architecture



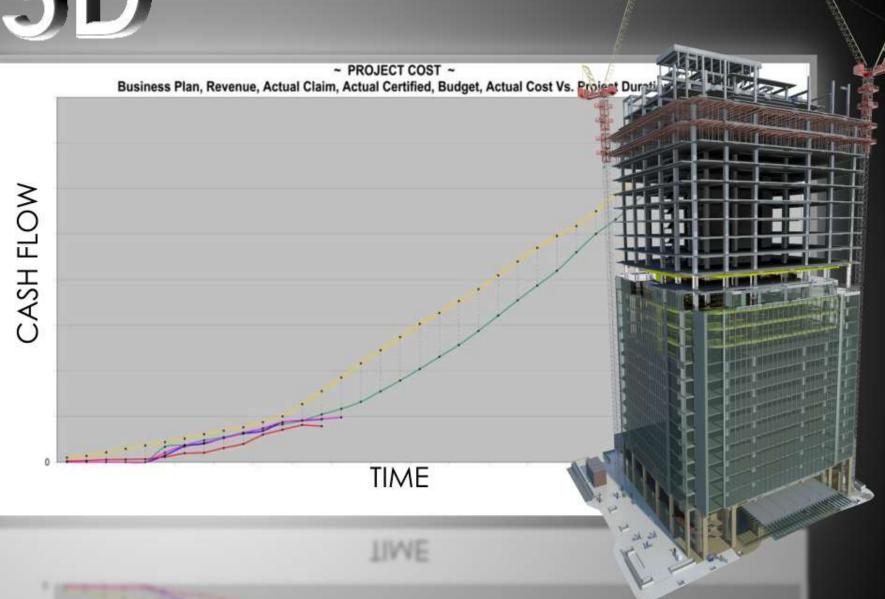


# 4D

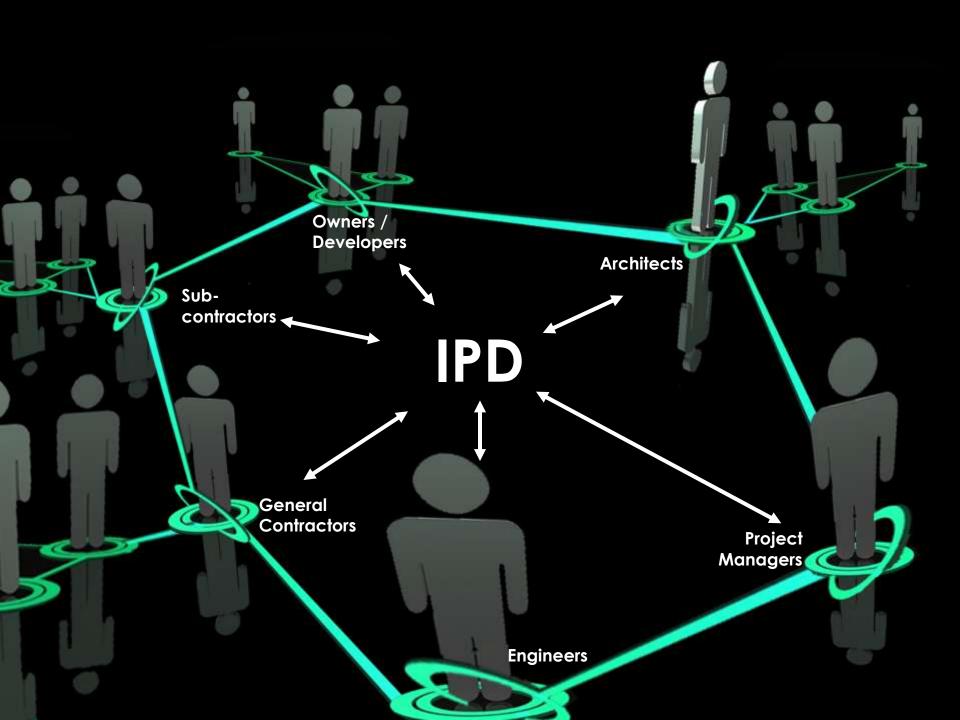






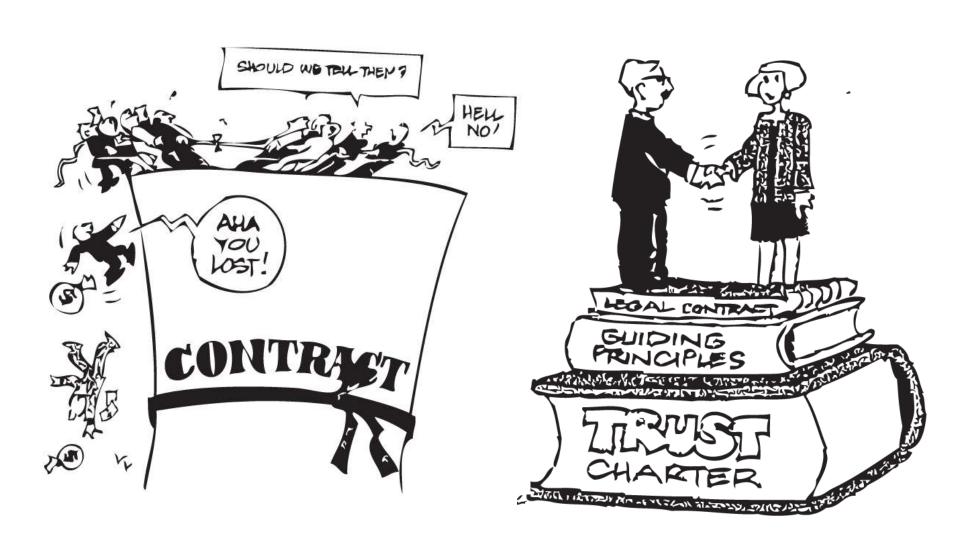






## Conventional

## Collaborative



#### Change of Mindset & Culture







## VDC

#### Virtual Design & Construction

BIM + IPD

**TECHNOLOGY** 

## VDC

PROCESS

ORGANISATION



#### GAME CHANGER





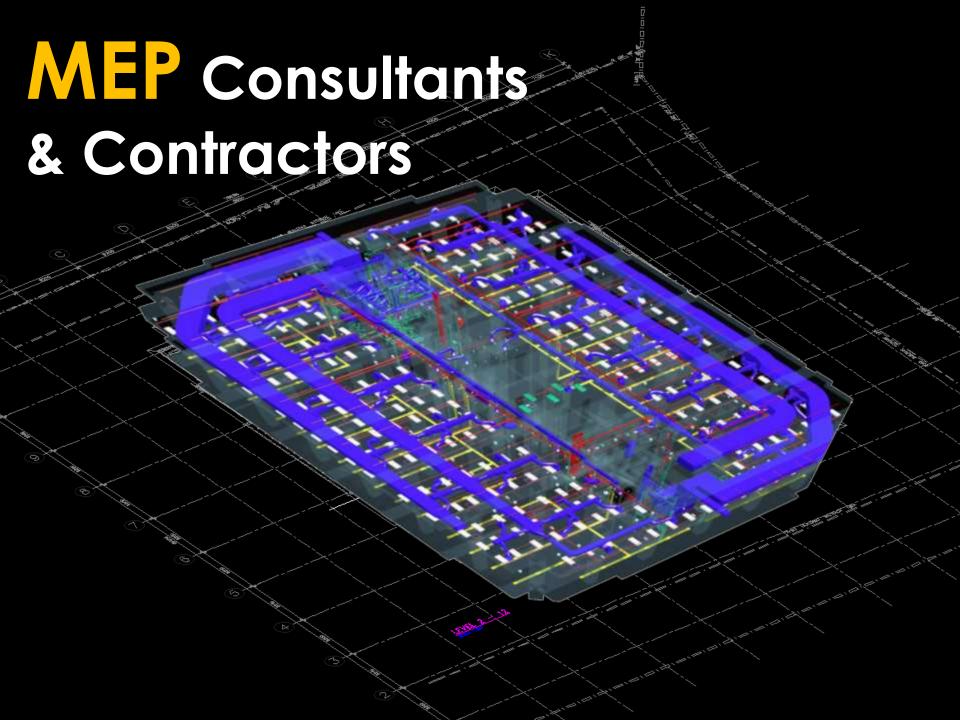
#### GAME CHANGER





#### Owner

- Manage Risks
- Increase Yield Potential
- Reuse Data For Operation
   And Maintenance



#### Quantity Surveyor

- Automate Quantity Takeoff
- Project Cash Flow
- Real time Cost Control

# Sunway VDC In Action



Property

Construction



33 Storey Office

**USD** 200M

Began in 2010

#### Scenario Analysis



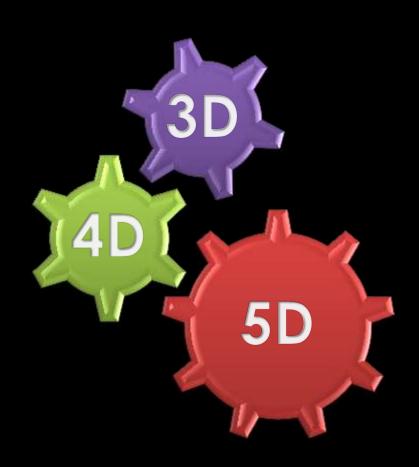


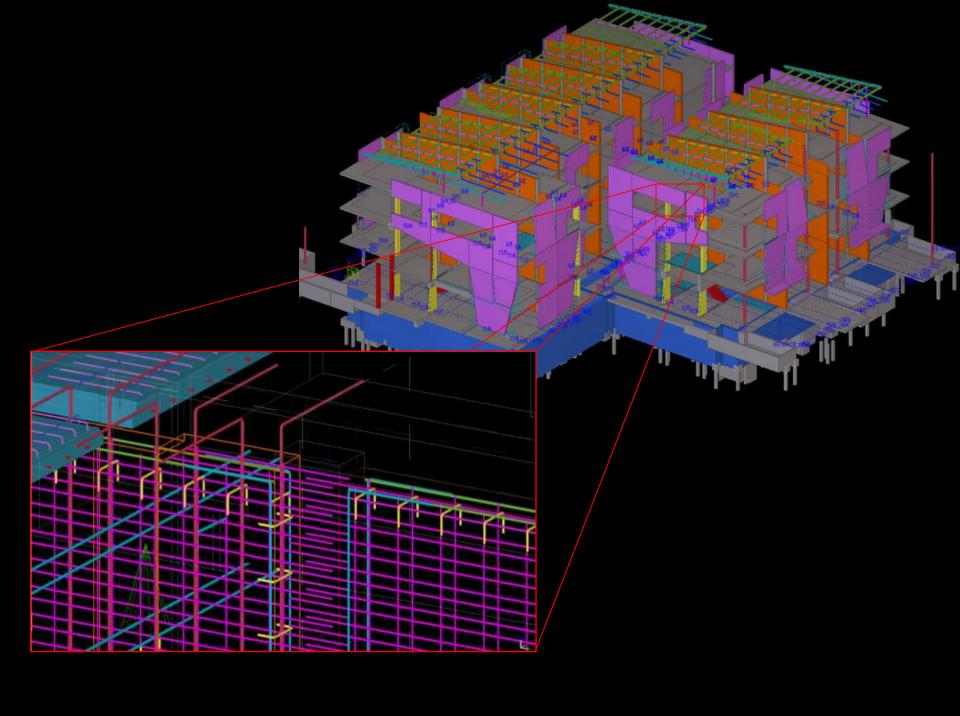




**USD 4.3M** Facade Cost 20% **Installation Time Construction Overhead** Potential yield USD 1.3M pa

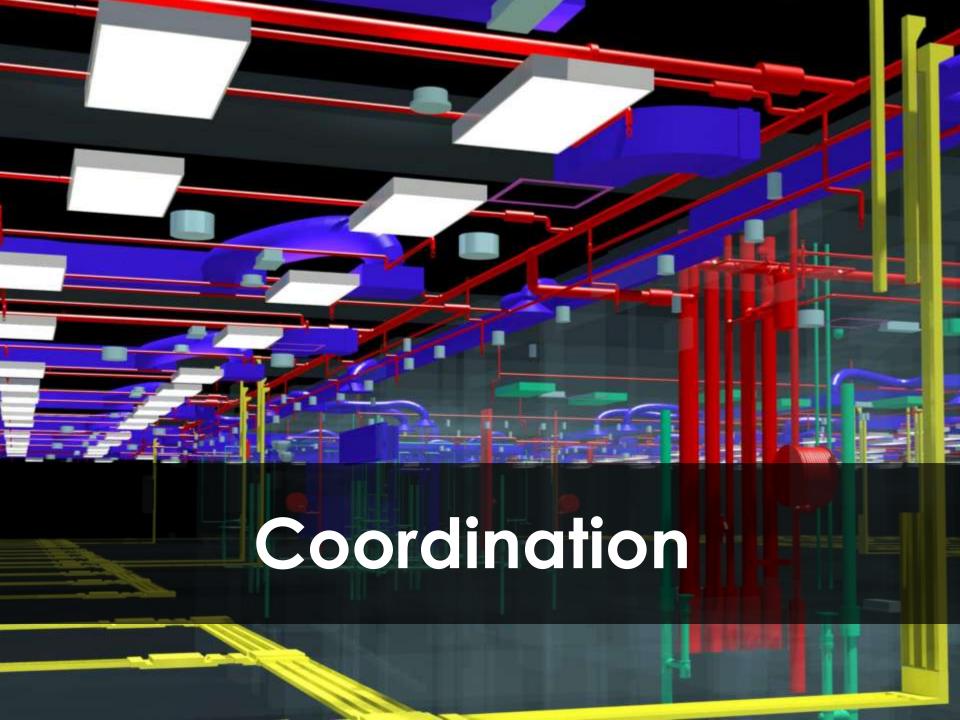
#### Automation



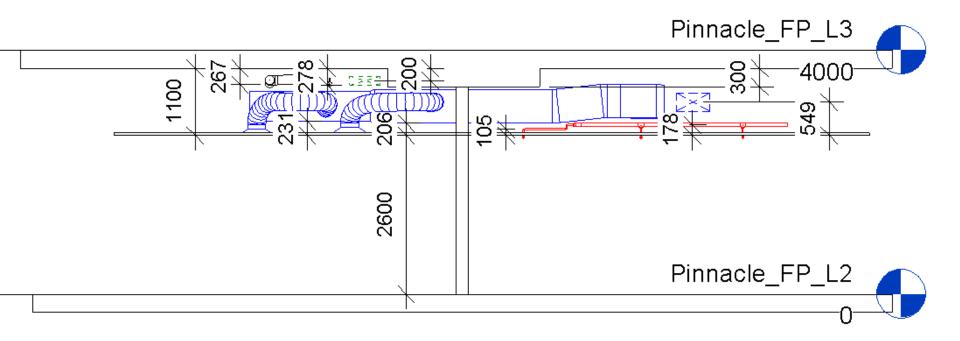


#### Bidding preparation time



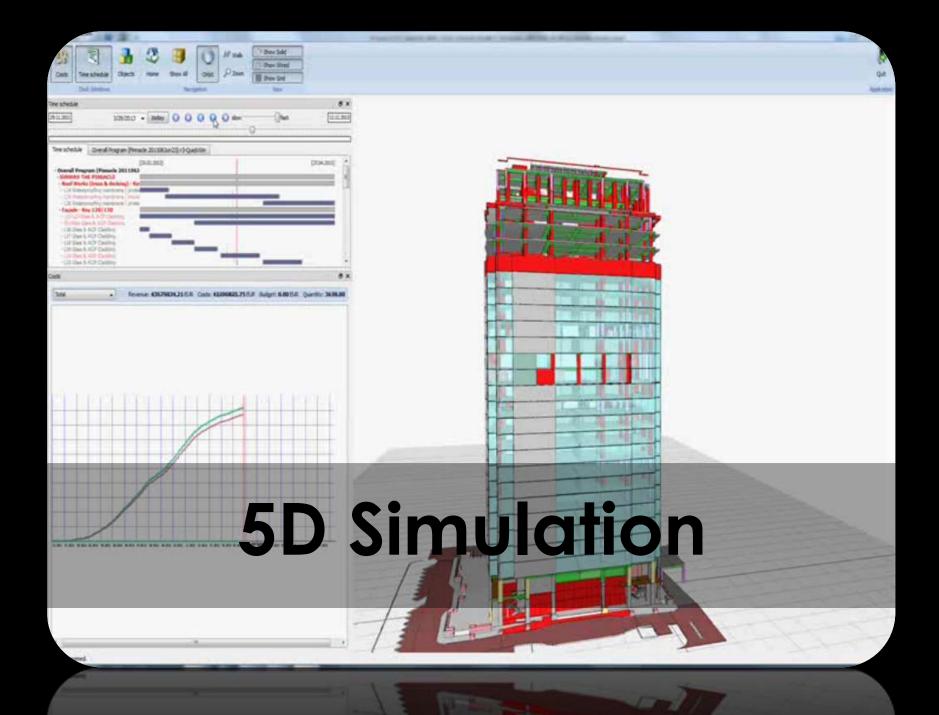


# Visualisation with Subcontractors





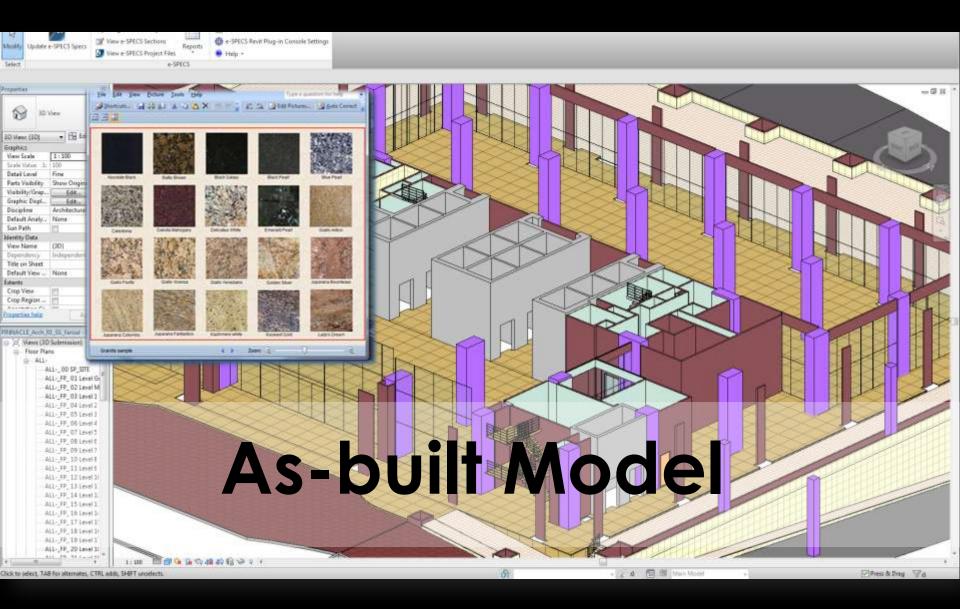
#### Construction



# Procurement Savings by USD 6M



#### Contingency Sum

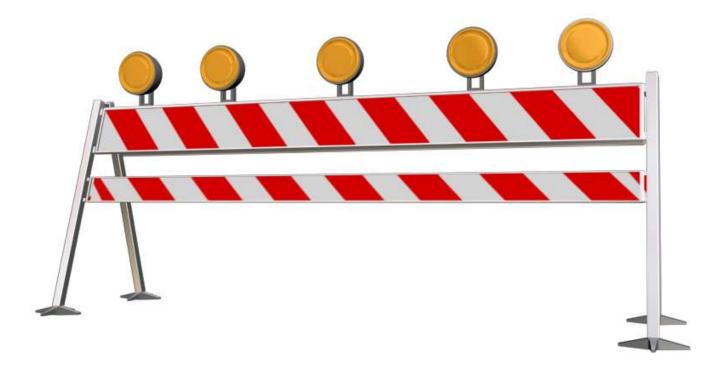


### Intangible

Paradigm Shift

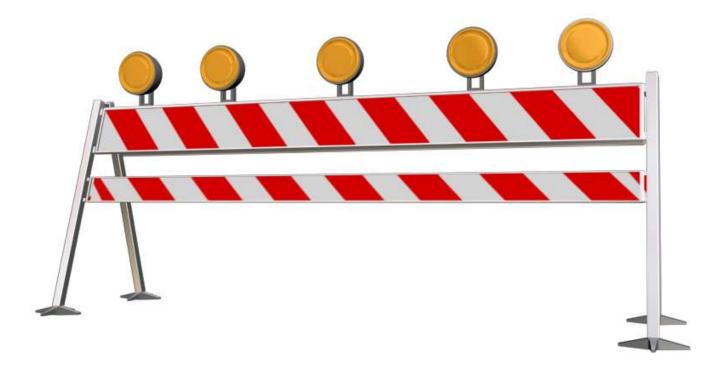


#### Challenges



Predominant 2D Market

#### Challenges



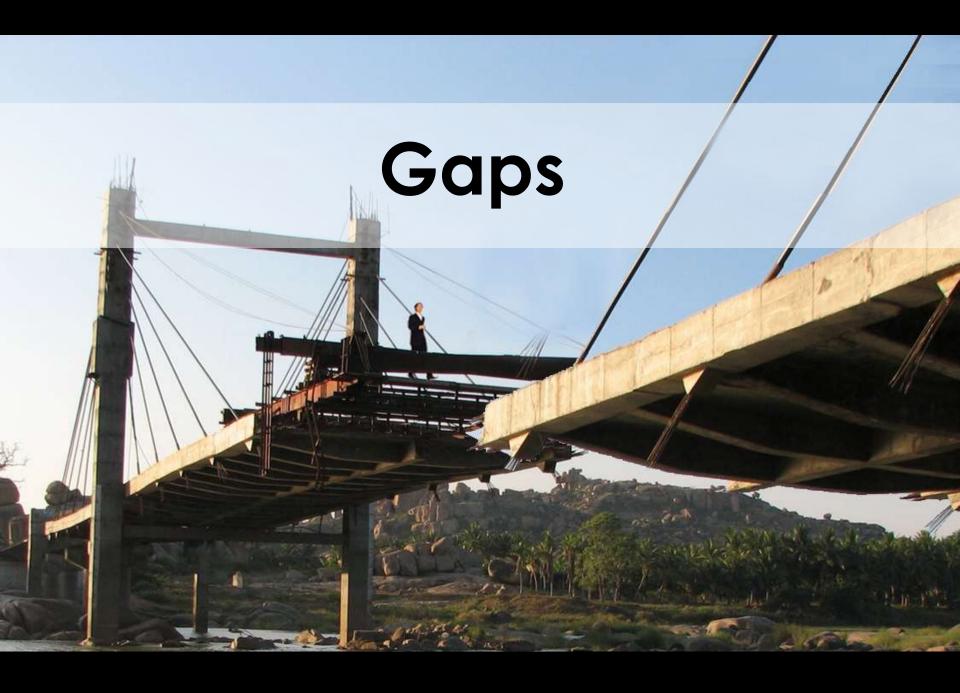
**Talent Pool** 



**Learning Curve** 



**Software Limitations** 







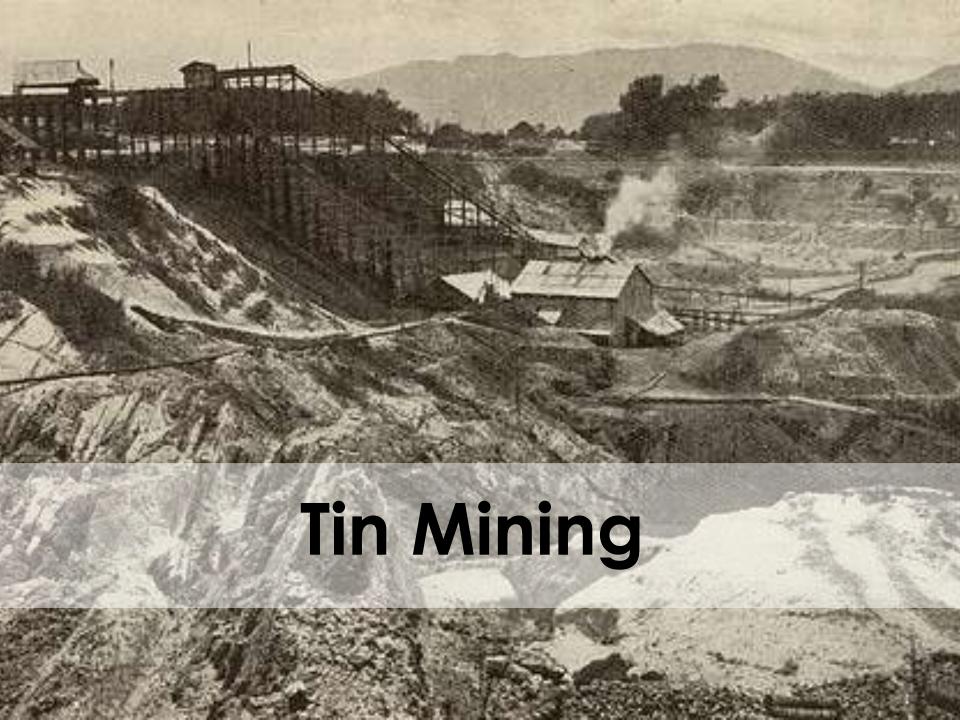


# Expect to make Mistakes

## Key Summary

## One more thing...









## Sunway Township Transformation













## Thank You



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