



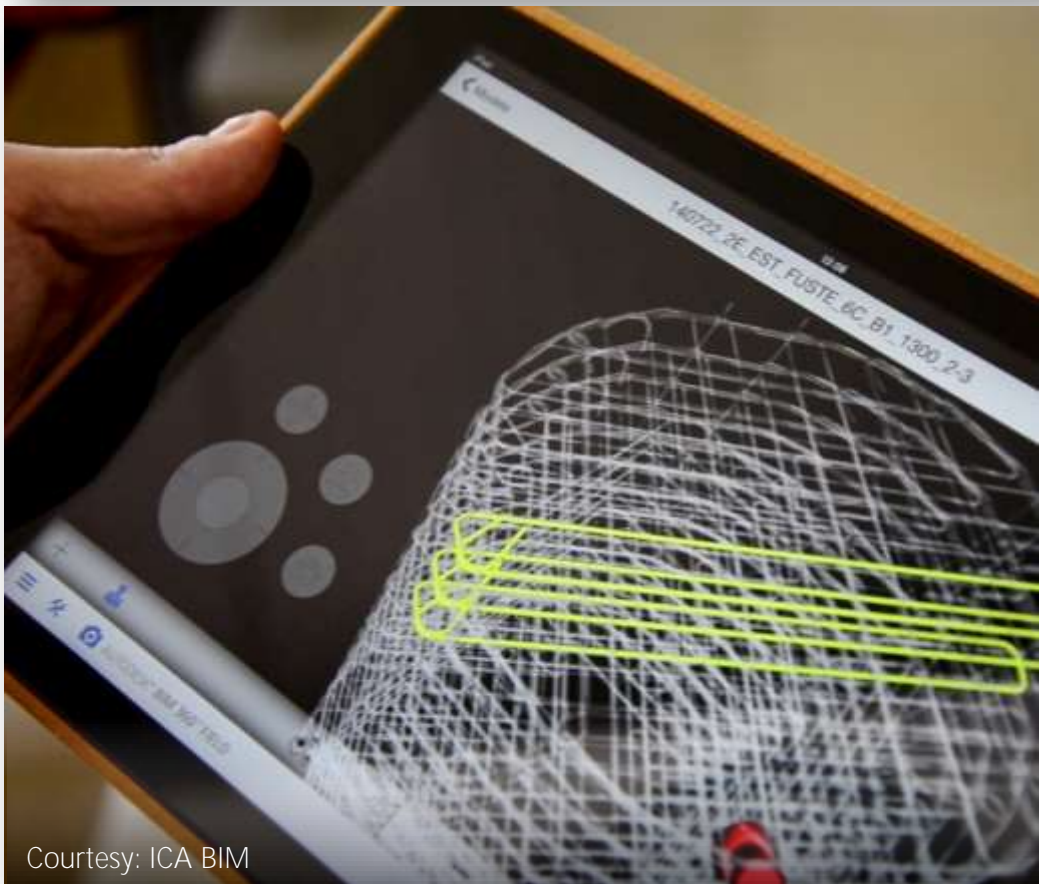
BIM and Technology's Impact on Fabrication & Construction

BIM技术对预制建造、施工和运营的影响

Jim Lynch, Vice President – AEC Product Group

欧特克公司工程建设行业产品集团副总裁





Courtesy: ICA BIM



Courtesy: Erik Mårtensson/NCC



Courtesy MX3D



Design
设计

Pre-Con
预建

Construction
施工

Hand Off
交付

Operation
运营



How? 如何?

Who? 谁?

When? 何时?

What?

是什么?

BIM Yesterday

BIM的昨天

BIM Today

BIM的今天



Designer
设计师



VDC
Engineer
VDC工程师



Estimator /
Scheduler
造价工程师 /
施工组织



Project
Manager
项目经理



Trade
Contractor
分包商



Super-
intendant
监理



Site
Operative
现场工人



Owner
业主



Facilities Manager
物业经理

From BIM Yesterday 从BIM的昨天

To BIM Today 到BIM的今天

What 是什么



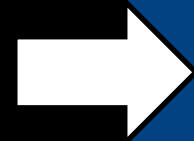
How 如何

Design Intent 设计意图



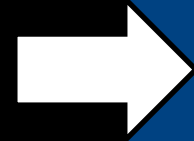
Delivery Intent 交付意图

Model 模型



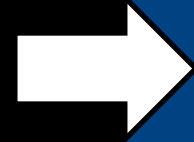
Project 项目

Files 文件



Data 数据

Desktop 台式机



Cloud, Mobile, Desktop 云、移动设备、台式机

Local Team 本地团队



Extended Team 延伸团队

BIM Technology Trends | Driving Process Transformation

BIM技术趋势 | 推动流程变革



Reality Capture
现实捕捉



Fabrication & Modular
Construction
预制&模块化建造



BIM in the
Field
施工现场的BIM



BIM in Operations
运营阶段的BIM



Digital Cities
数字城市

Reality Capture

现实捕捉







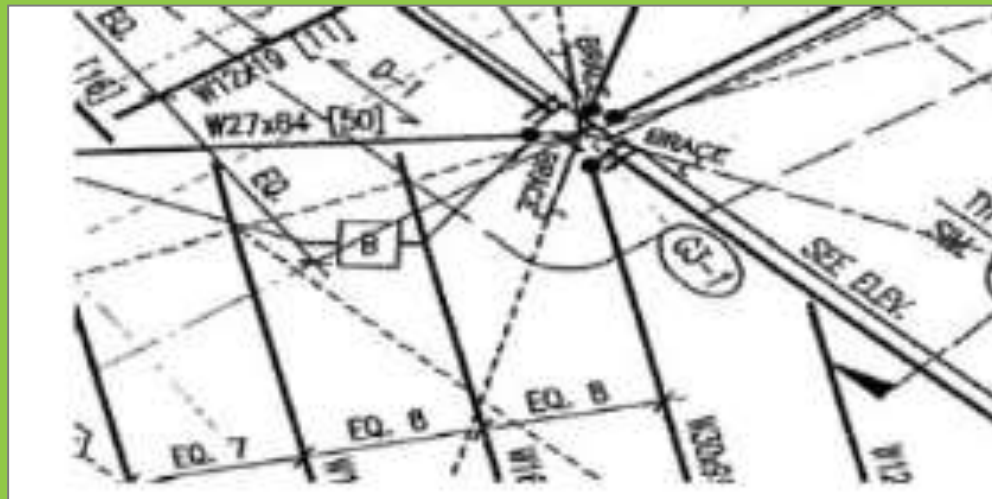
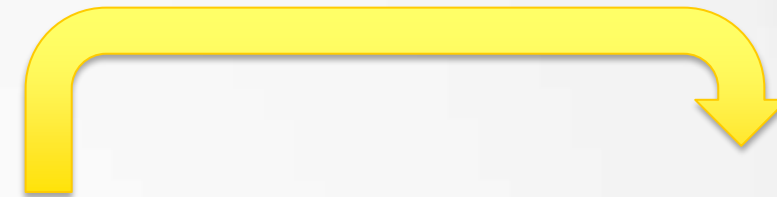
Prefabrication & Modular

预制&模块化



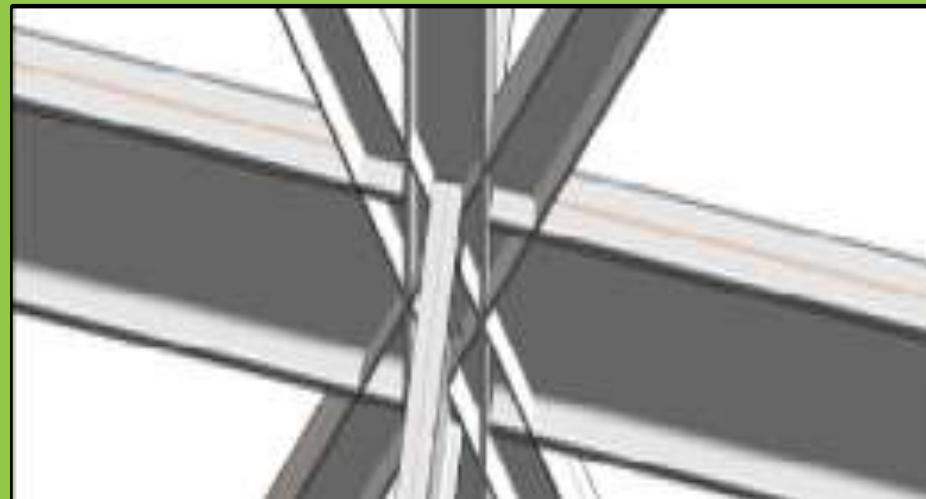
Design Intent to Delivery Intent

从面向设计到面向交付



2D

二维



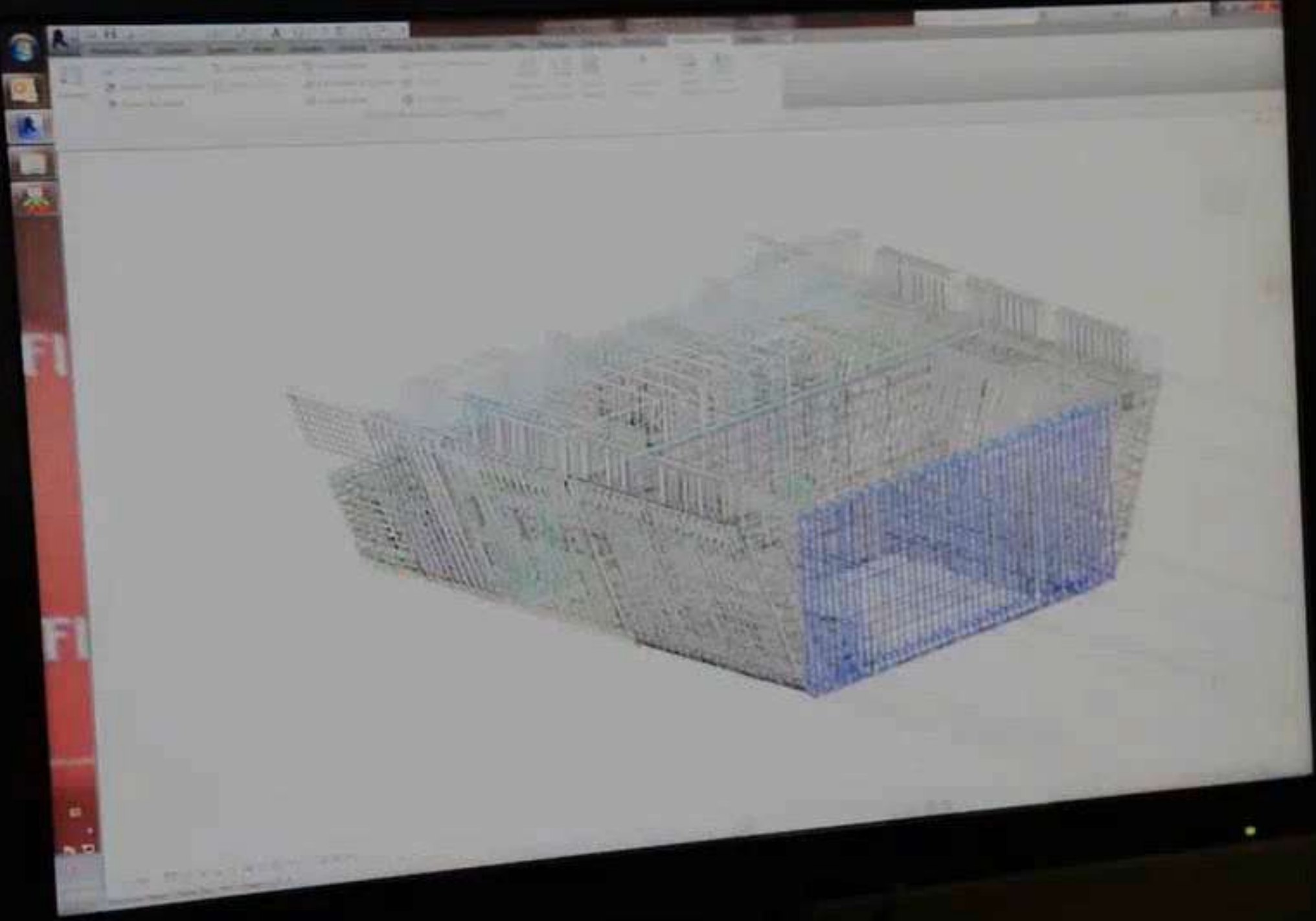
Model Based Design

基于模型的设计



Model Based Fab+Construct

基于模型的
制造+施工



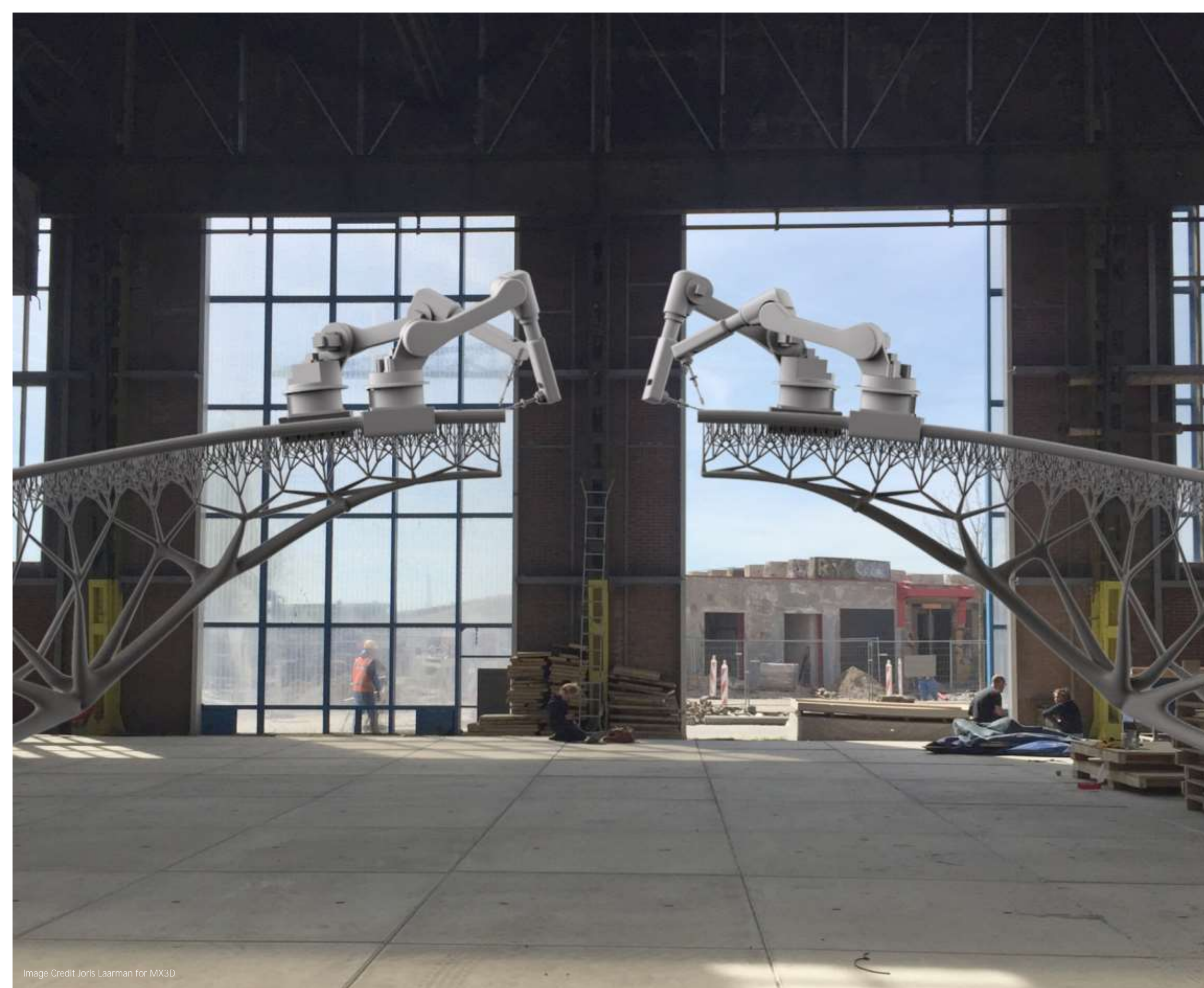


Image Credit Joris Laarman for MX3D

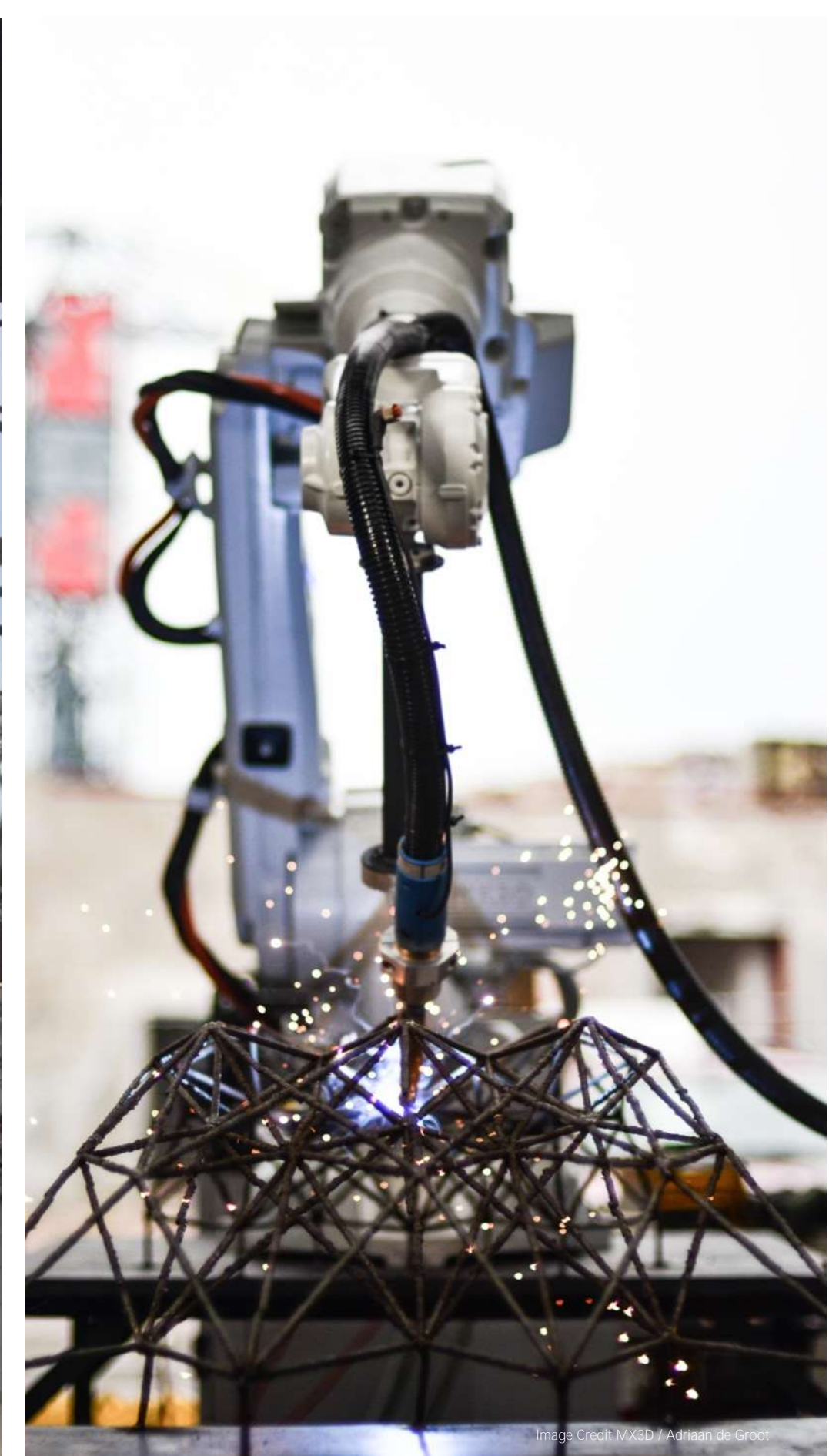


Image Credit MX3D / Adriaan de Groot

BIM in the Field

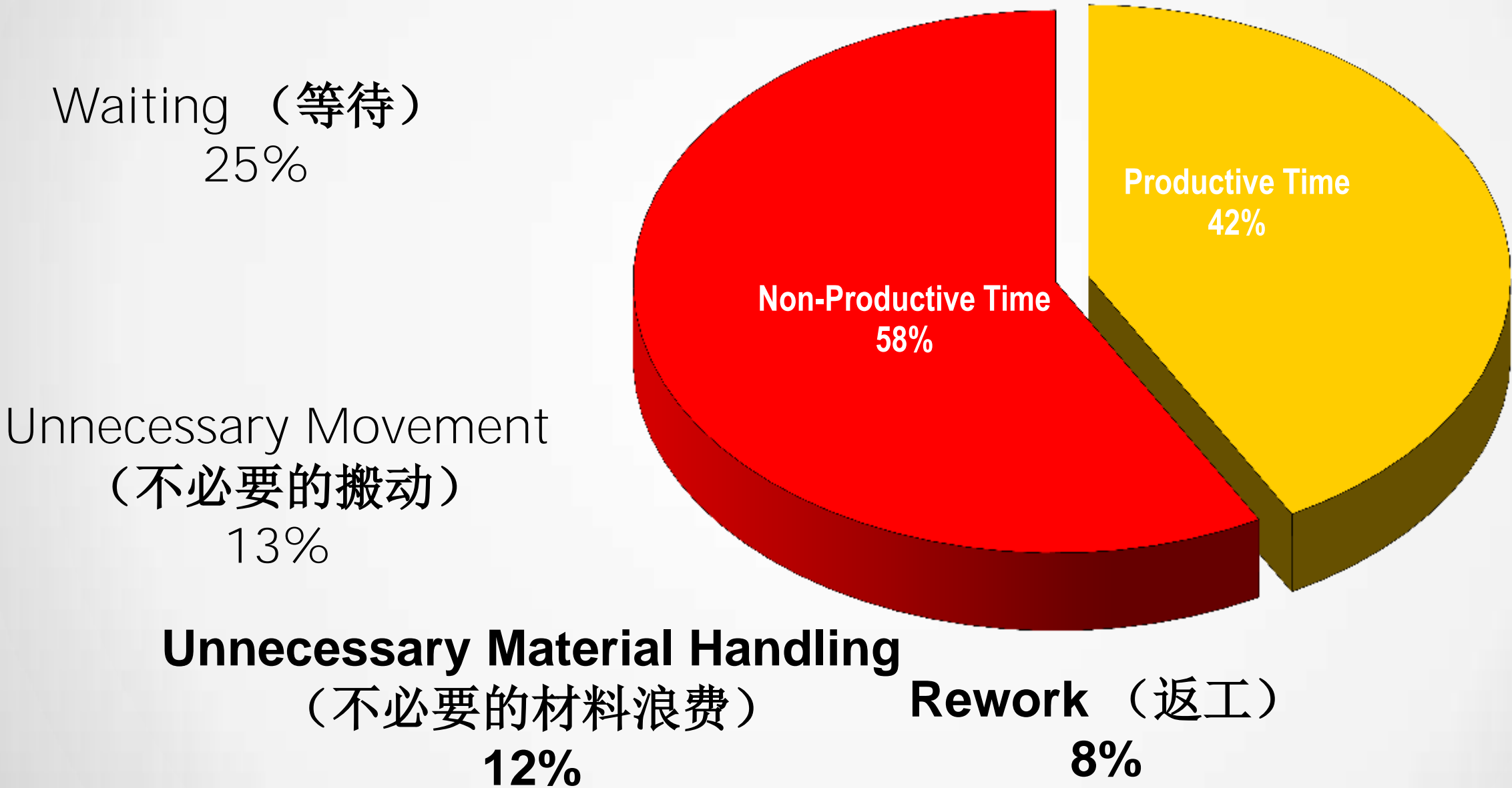
施工现场的BIM





Construction Profits are Wasting Away

施工利润被浪费了



Manufacturing Waste = 26%

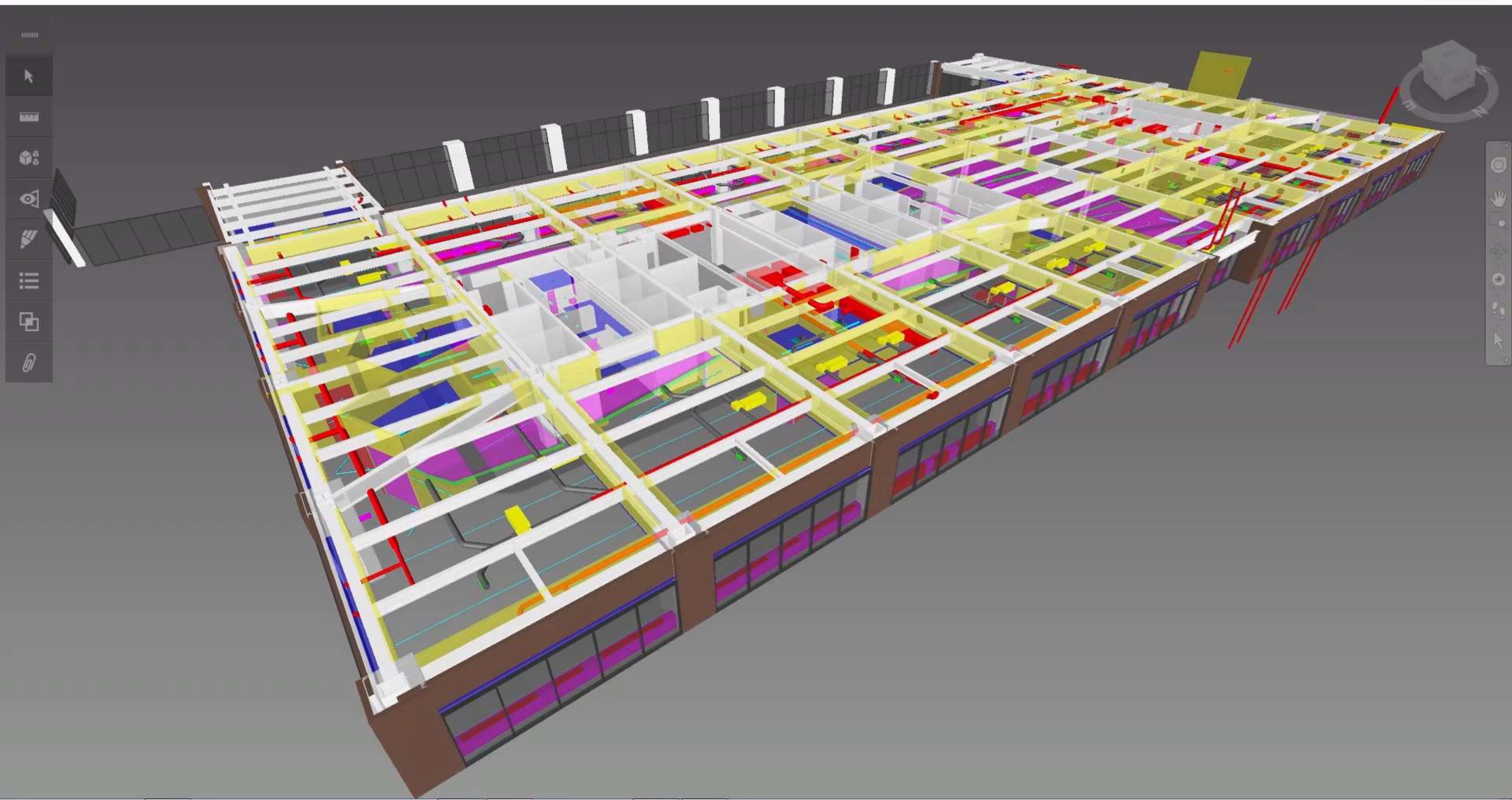
Source: Construction Industry Institute - CII

iPad 9:41 AM 100%

Oakwood Hospital

Group By: Company Filter By: Location Company Tag View Options

	29 Mon	30 Tue	10/1 Wed	2 Thu	3 Fri
ABC Builders	Overhead Inspection Building 1 > Floor 3 > Area B	Screw Inspection Building 2 > Floor 3 > Area B	Overhead Inspection Building 3 > Floor 1 > Area B	Screw Inspection Building 2 > Floor 1 > Area B	
American Plumbing	Install pipes and supports Building 2 > Floor 1 > Area A		Install pipes and supports Building 1 > Floor 1 > Area A		
		Pressure test Building 1 > Floor 1 > Area B			
		Install supports and pipes Building 2 > Floor 2 > Area A			
California Paint	Caulk wall angle Building 3 > Floor 1 > Area A			Caulk wall angle Building 1 > Floor 3 > Area A	First coat of painting Building 1 > Floor 2 > Area A
Ceiling Experts	Install grid Building 1 > Floor 3 > Area A			Install grid Building 1 > Floor 1 > Area A	
	Field measure Building 2 > Floor 3 > Area B	Field measure Building 1 > Floor 3 > Area B	Field measure Building 2 > Floor 1 > Area B	Field measure Building 3 > Floor 1 > Area B	
	No Activity Selected				



Operations

运营



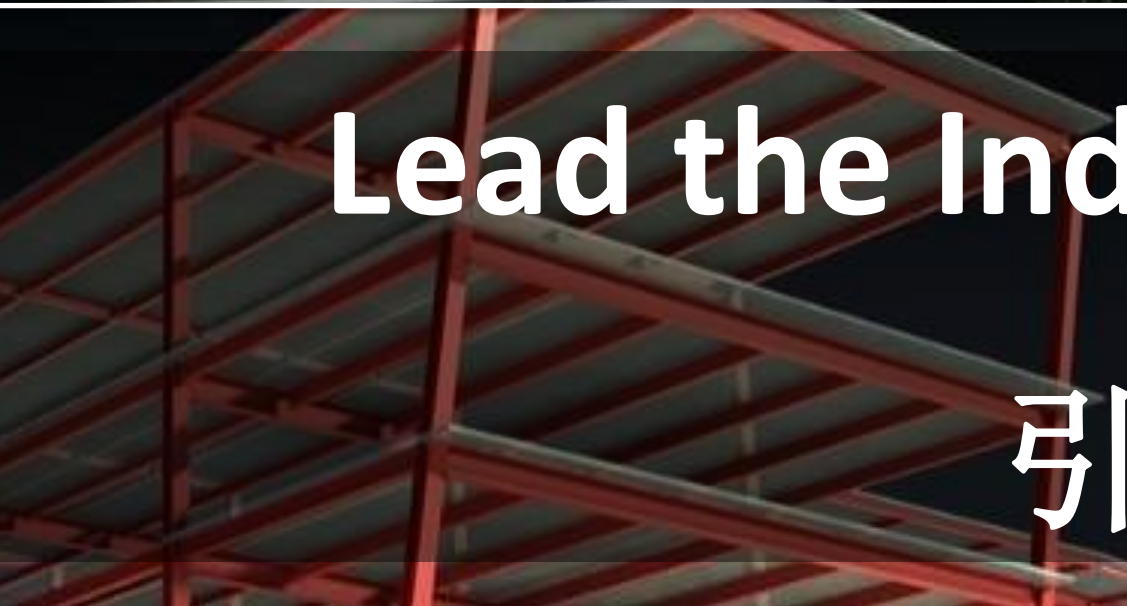




Digital Cities

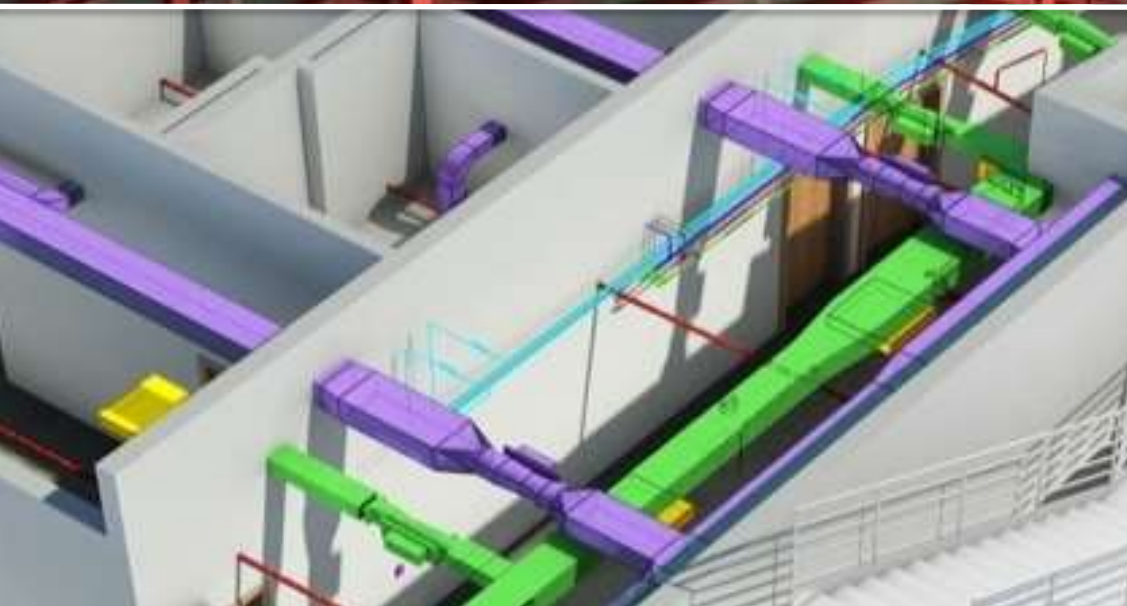
数字城市





Lead the Industry's Transformation to BIM

引领行业向BIM转型





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