



CASA
SKYLINE

"Building Tomorrow's Skyline Today."

WWW.CASASKYLINE.COM

AGENDA



What is BIM?

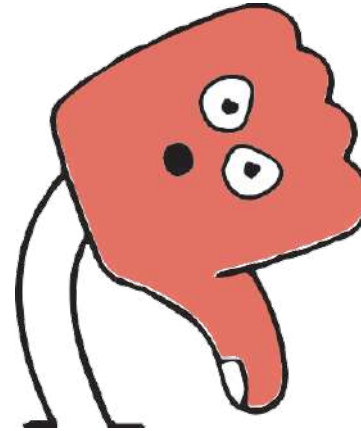
Evolution of BIM

Why BIM?

Industry Trends

How Does BIM work for you?

WHAT IT IS NOT



- Just Software
- Just 3D Cad
- All – in - ONE – solution
- Just for designers

WHAT IT IS

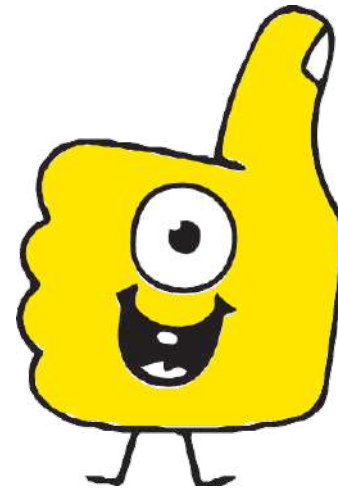
Methodology

- Policies
- Processes
- Collaboration
- Technologies

Managing

Digital information for:

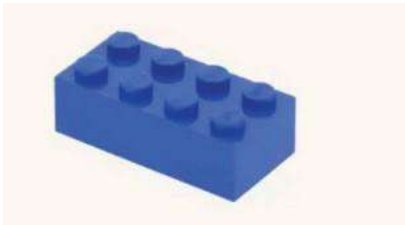
- Design lifecycle
- Construction lifecycle
- Building lifecycle



B as in Bricks

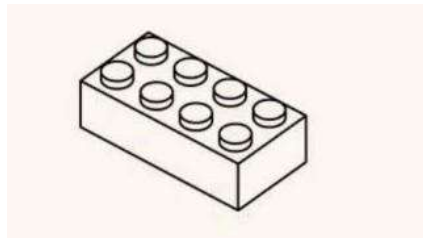
BIM Bricks

Real Bricks

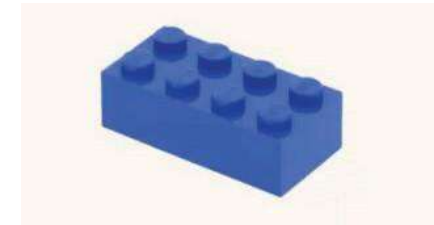


I want bricks
in my designer

CAD Bricks



I can see what
they look like.



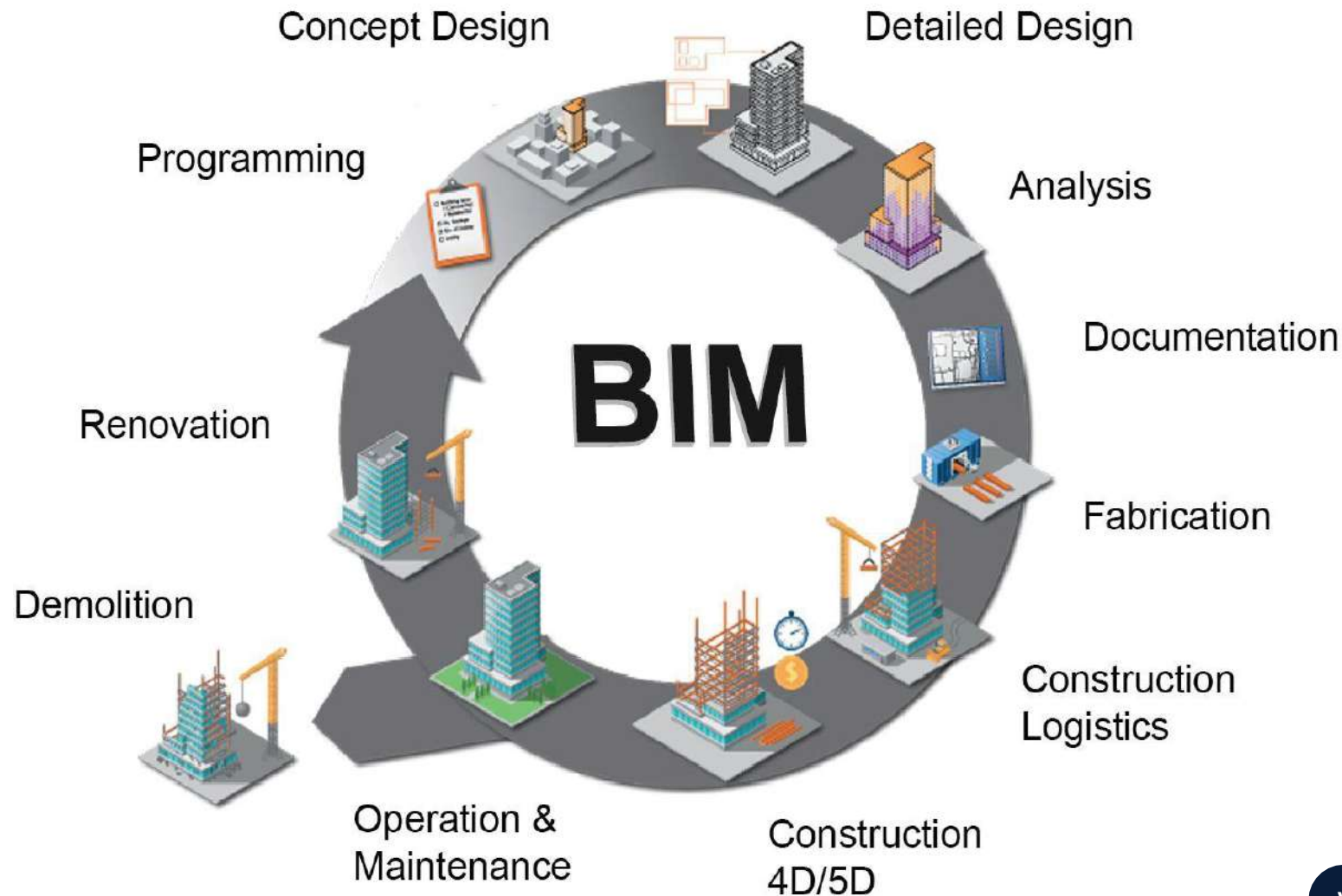
I can see what they look it.
I can see the weight.
I can see the origin.
I can see meterials.
I can see the CO²content.
I can see the life expectancy.

BIM

(BUILDING INFORMATION MODELING)



BIM is a collaborative tool that allows construction professionals to manage a project from design to construction and beyond.



EVOLUTION

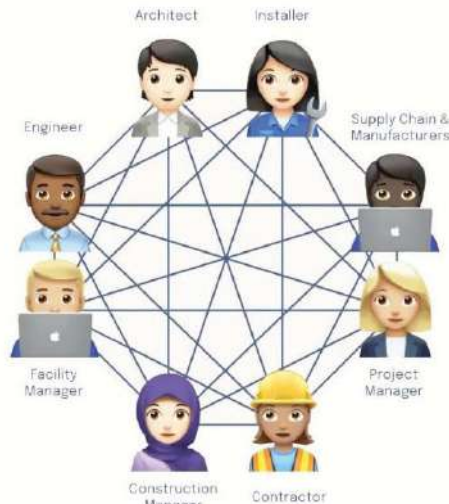
How did we get here ?



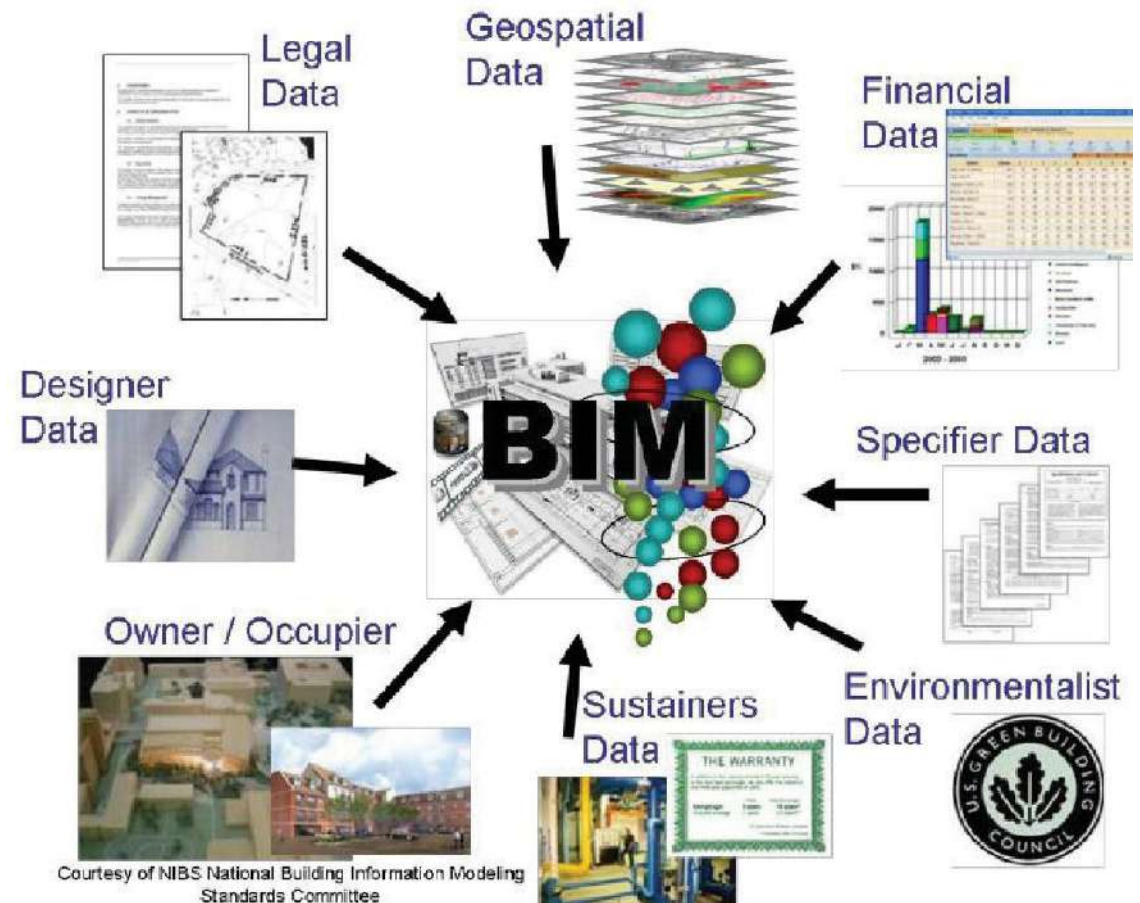
COLLABORATION:

Promoting Collaboration between all stakeholders involved in a project.

Yesterday



Today

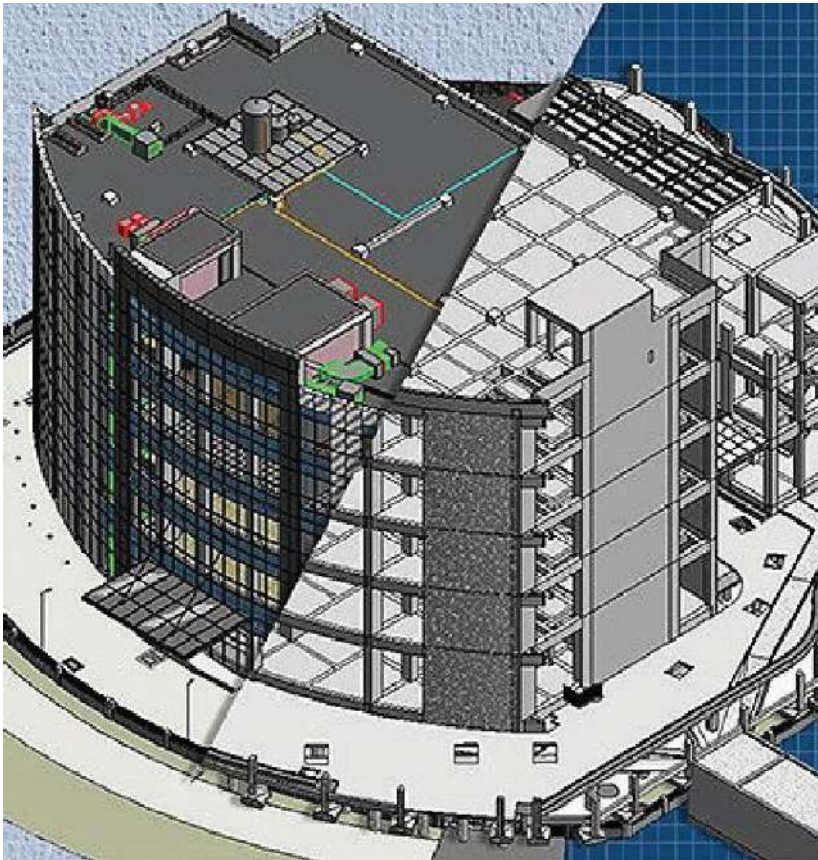


Team Work



3D VISUALIZATION:

Enhanced Client Communication through 3D Visualization.

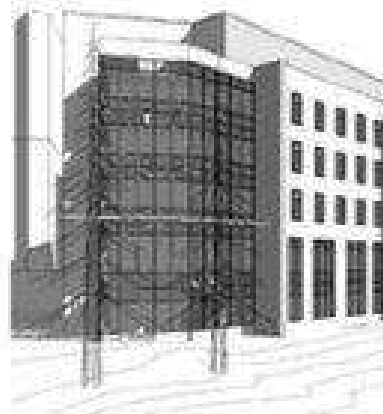


Model and simulate environmental scenarios for improved sustainability.

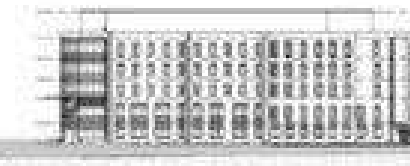
main wall



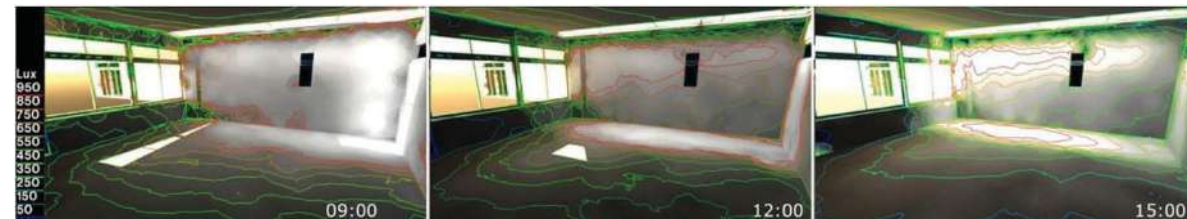
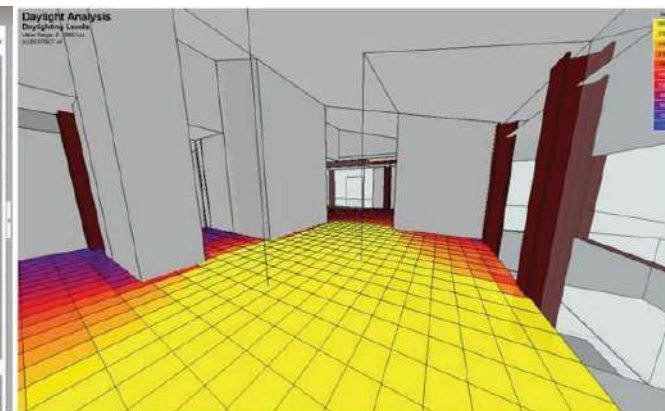
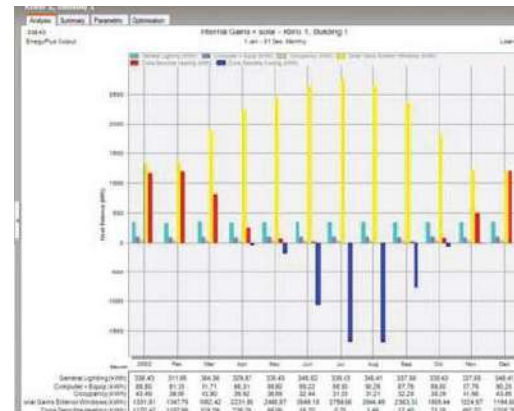
Option 2 - Masonry



3D Sun Study

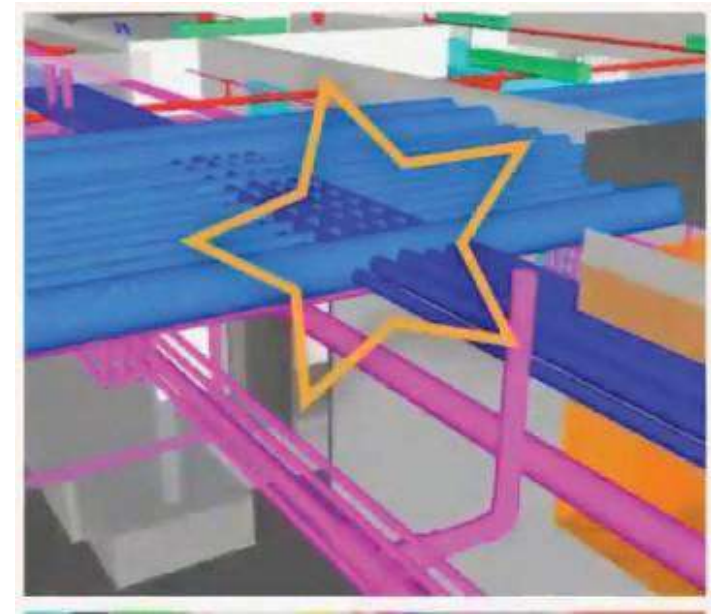
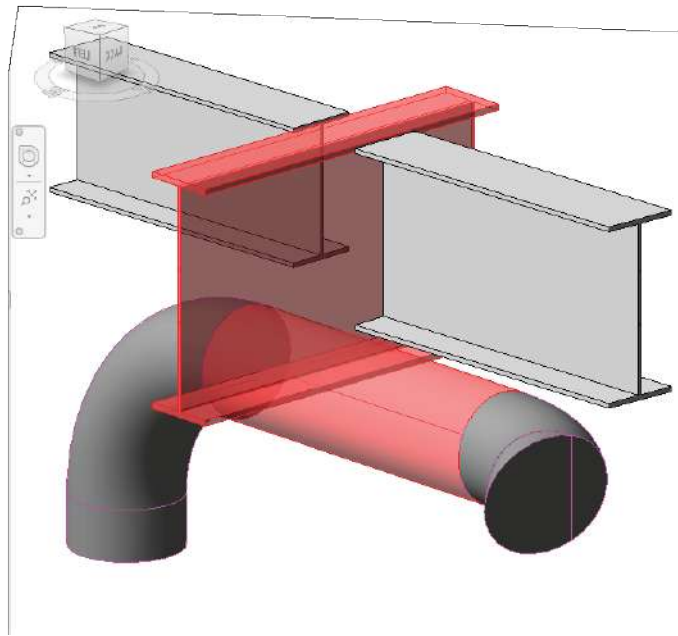
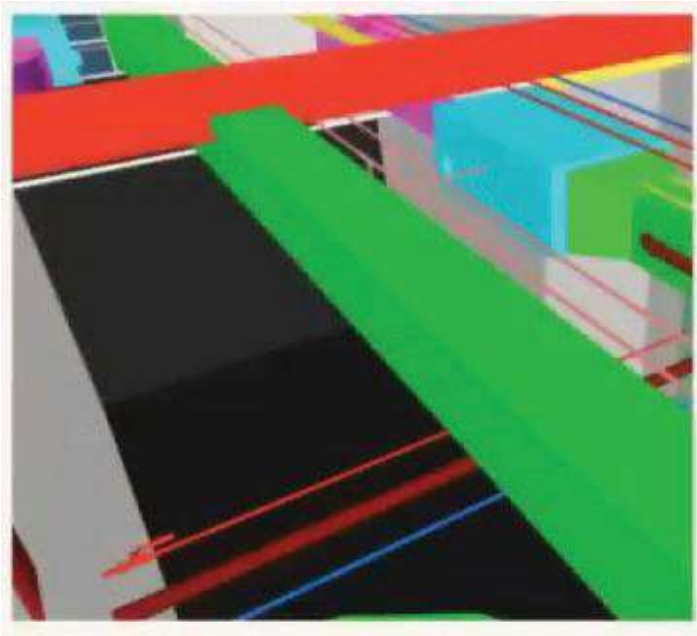


West Elevation



3D MODELING & CLASH DETECTION:

Creating 3D models of buildings / Detecting clashes and conflicts early in the design process.



AFTER CLASH

98% mega projects are late and
cost more than planned

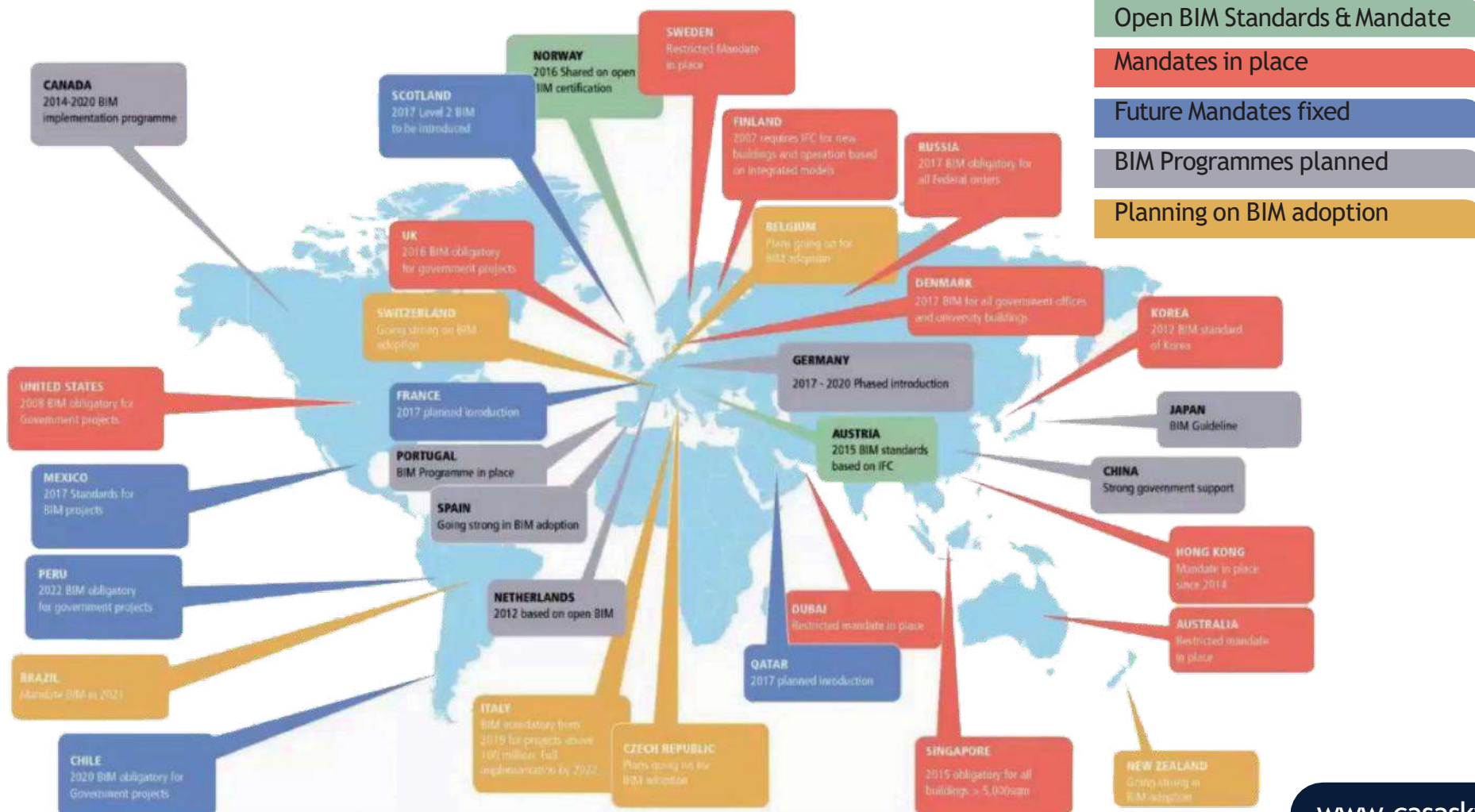
Average 20 months late

698	09	10	21:00	DELA
698	09	10	21:00	DELAYED
07			20:58	LAST CALL
2			20:32	LAST CALL
01	08	21:25		DELAYED
19	20	22:40		DELAYED
29	30	21:30		DELAYED
01	08	22:30		DELAYED



industries/capital projects and infrastructure/our insights/the construction-productivity imperative

GOVERNMENT REQUIREMENTS



TAKE THE INDUSTRY FROM ANALOGUE TO DIGITAL!



ACCURATE COST ESTIMATION AND BUDGET CONTROL.



1D SCRATCH POINT

RESEARCH

- Existing Conditions
- Regulations
- Weather Simulations
- Sun Orientation
- Functional Program

IMPLEMENTATION

- Consulting
- BIM Execution Plan
- Server Repository
- Software

CONCEPT DESIGN

- Strategies
- Area Estimation
- Cost Estimation
- General Volumetry
- Accessibility
- Viability

2D Vector

PRODUCTION

- 2D drawings
- Documentation
- Views & Plans

IMPLEMENTATION

- Programming
- Parameterization
- File Management
- Communications

DS DEVELOPMENT

- Room Data Sheets
- List of Deliverables
- Scope Definition
- Materials
- Structural Loads
- Energy Loads

Sustainability

- Life Cycle Estimation
- Construction Solutions
- Primary MEP Systems
- Energy Production
- Certification Strategies

3D Shape

REPRESENTATION

- Renderings
- Walkthroughs
- Laser Scanning

IMPLEMENTATION

- BIM Object Creation
- Visual Programming
- Class Detection
- Model Checker

FINAL DOCS

- Detailed Design
- Assemblies
- Structural Design
- MEP Design
- Specifications

SUSTAINABILITY

- Insolation Values
- Sun Protection
- Daylight Requirements

4D Time

PRODUCTION

- Model Federation
- Virtual Construction
- Scheduling Phasing
- Time Lining
- Construction Planning
- Equipment Deliveries
- Visual Validation

SYSTEMS

- Prefabrication
- Structural Construction
- MEP Construction

SIMULATIONS

- Life Cycle Simulation
- Sun Simulation
- Wind Simulation
- Energy Simulation
- Certification Check

5D \$ Cost

PRODUCTION

- Quantity Extractions
- Detailed Bill of Quantities
- Fabrication Models

CONTRACTS

- Fees Comparison
- Trade Selection
- Logistics

SUSTAINABILITY

- Certificate Evaluation
- Life Cycle Cost
- Comparative Study

6D PERFORMANCE

RESULTS

- Known Alternatives
- Certification
- Audited BIM Model
- Performance Report

VALUE ENGINEERING

- Simulations
- Energy Performance
- Systems Performance
- Architectural Performance
- Construction Performance

SAVE ESTIMATION

- Comparative Cost
- Construction benefits
- Return on Investment
- Timing risk
- Selected Items to be Optimized

RE-DESIGN

- Certified BIM Model

WELCOME TO META WORLD





Services

- Architectural Design
- Interior Design
- 3D Modelling
- Urban Design
- Immersive Virtual Reality

+971 55 972 3365

iamkhan2828@gmail.com

abdullah@thematrixxgroup.com

Aspin Commercial Tower, Sheikh Zayed
Road, Office 1502, Dubai - U.A.E

www.casaskyline.com