THE BIG 5 International Building & Construction Show

5 - 8 DECEMBER 2022
DUBAI WORLD TRADE CENTRE

The Best Use of Technology in the AEC Industry

Tips and tricks to choose the right tools and Build the right Process

Eng. Billel Dridi

BIM Expert/Digital Transformation Lead

Biography:

1-Bsc Architectural Engineering-Algeria

2- Dual Master Degree in Global BIM Management from Barcelona University and Zigurat Institute Of Technology, Spain

3-Msc in Building Information Modeling and Project Collaboration, University Of Derby UK.

4-Certified Project Manager professional, PMP.

5-Autodesk Certified Professional. Revit Software.

6-BreAcademy Certification in Information Management.

7-Zigurat Institute Of Technology UAE Ambassador.

8-StreamBIM MENA Region BIM Expert.

9-Certified Building Transformations (Can-BIM).

10-SmartLeanBIM partner

11-BIM Dictionary Arabic Language editing team.

12-Founder Of BD Technology HUB.

13-Lecturer in BIM Arabia Magazine.

Content

1-Industrial Revolution 4.0 and AEC Industry .

2- Tech Trends Driving the Construction Industry.

3-Virtual world and gaming industry and movies using BIM model.

UNREAL ENGINE

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1-Industrial Revolution 4.0 and AEC Industry .

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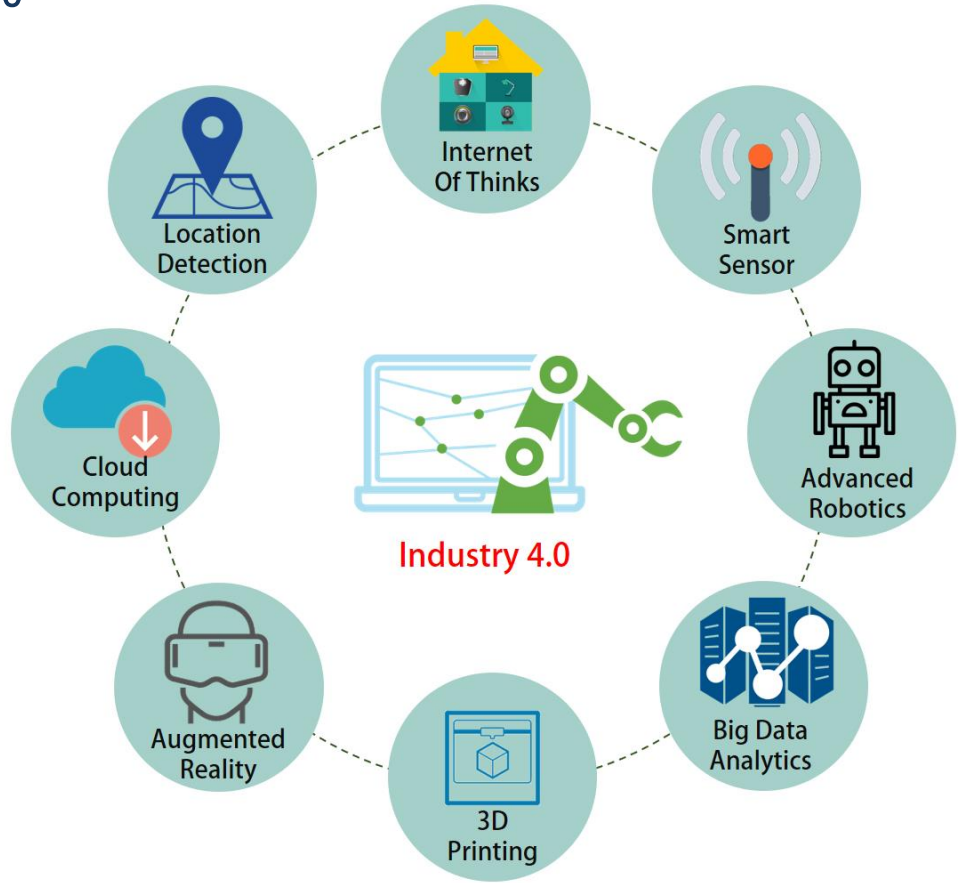
Architecture, Engineering and Construction (AEC) integration with Industry 4.0



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Talks Technology

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2- Deferent Tech Trends Driving the Construction Industry.

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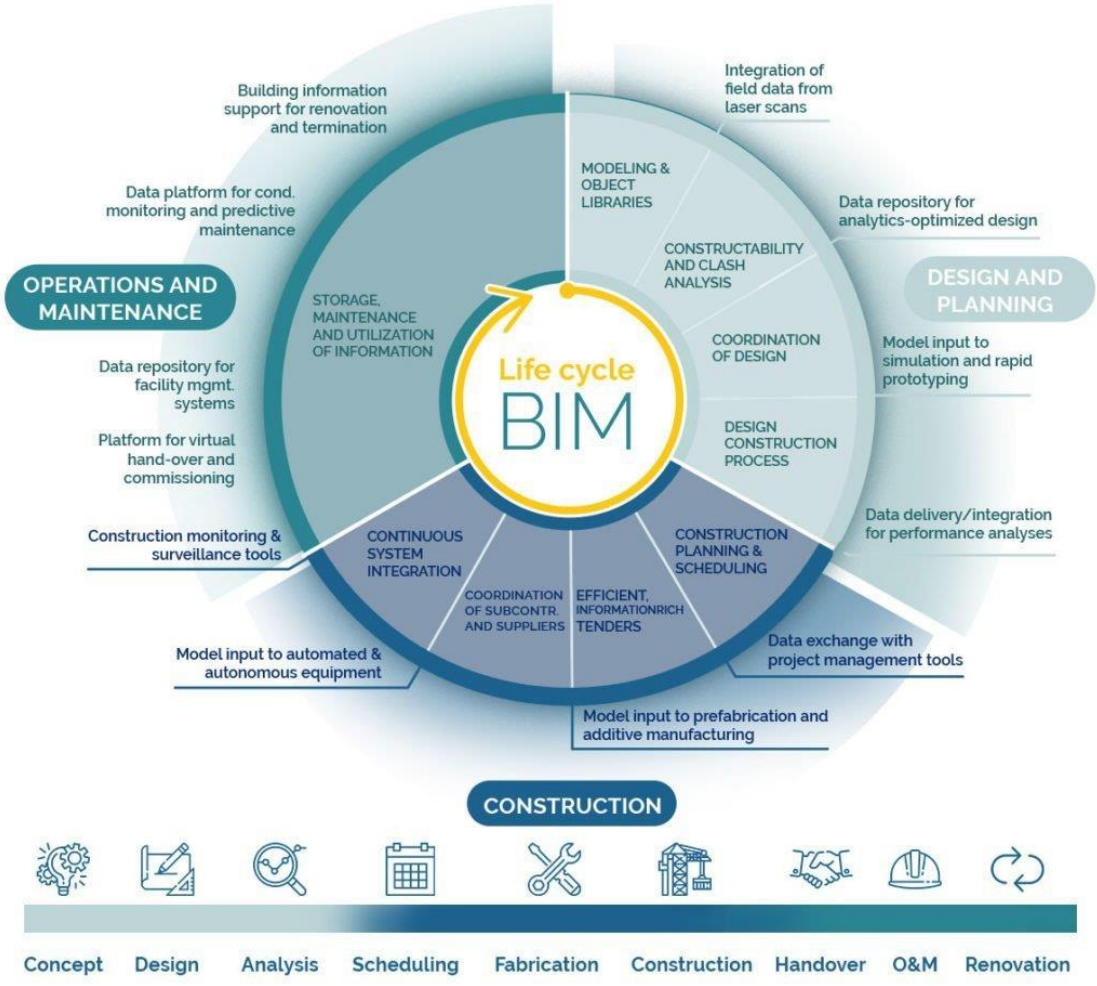
1- BIM & Beyond



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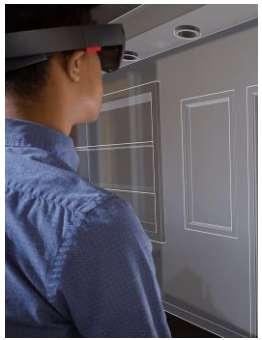
2- Augmented and Mix Reality

SiteVision
SketchUp Viewer



Architects

Design Review
Stakeholder Buy-In

SiteVision
Trimble Connect

GC's

Model Coordination
Preconstruction
Training
Model Sequencing
3D Task Management
Install Verification

SiteVision
Trimble Connect

Pre-Fabricators

Design Review
Guided Assembly
Remote Assistance

SiteVision
Trimble Connect

Subcontractors

Preconstruction
Model Sequencing
Guided Install
Remote Assistance
3D Task Management
Install Verification

Maintenance

Hidden As-Built View
3D View of IoT Data
3D Task Management
Remote Assistance

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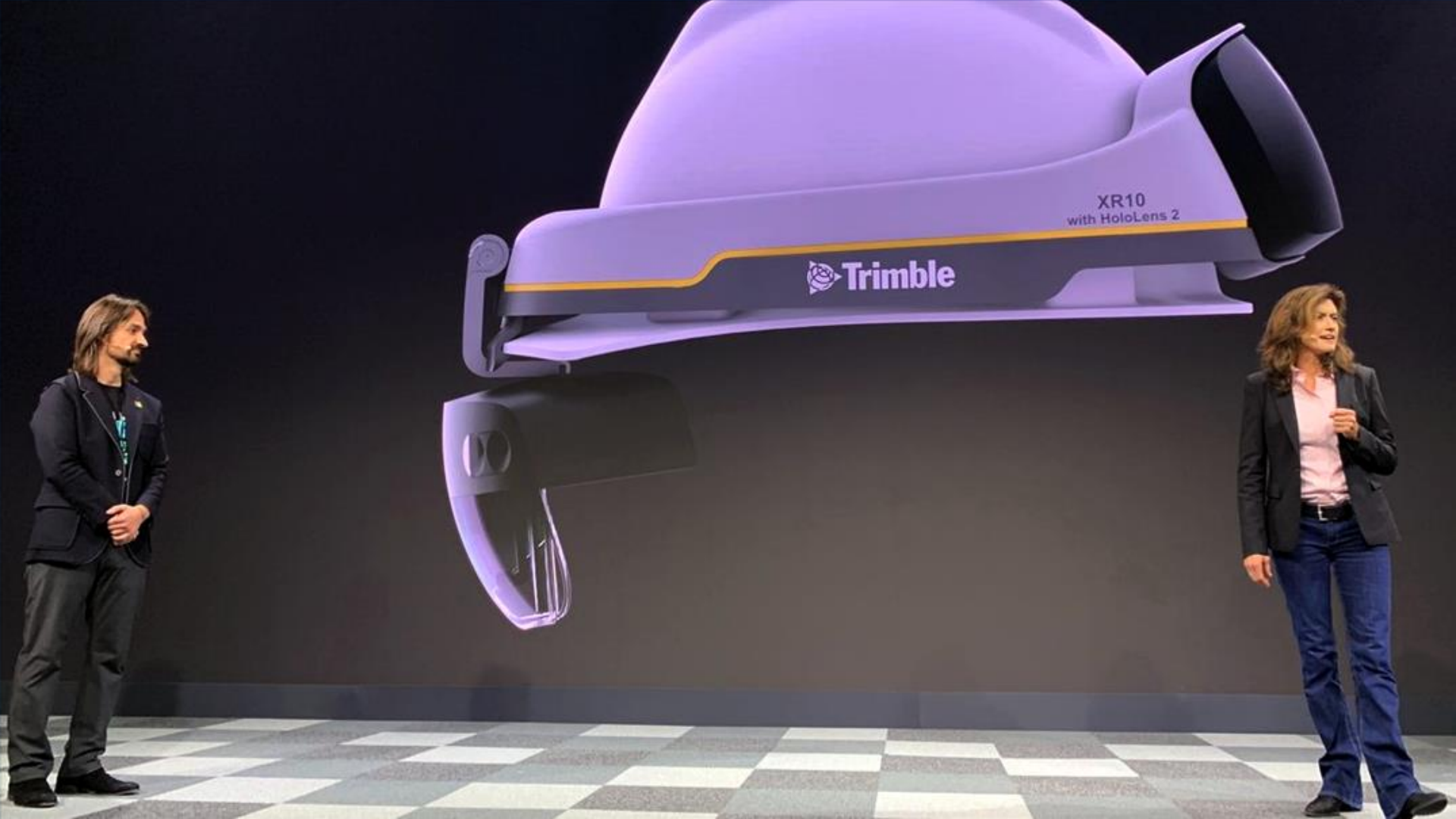
2015

Microsoft HoloLens


XR10
with HoloLens 2
Trimble

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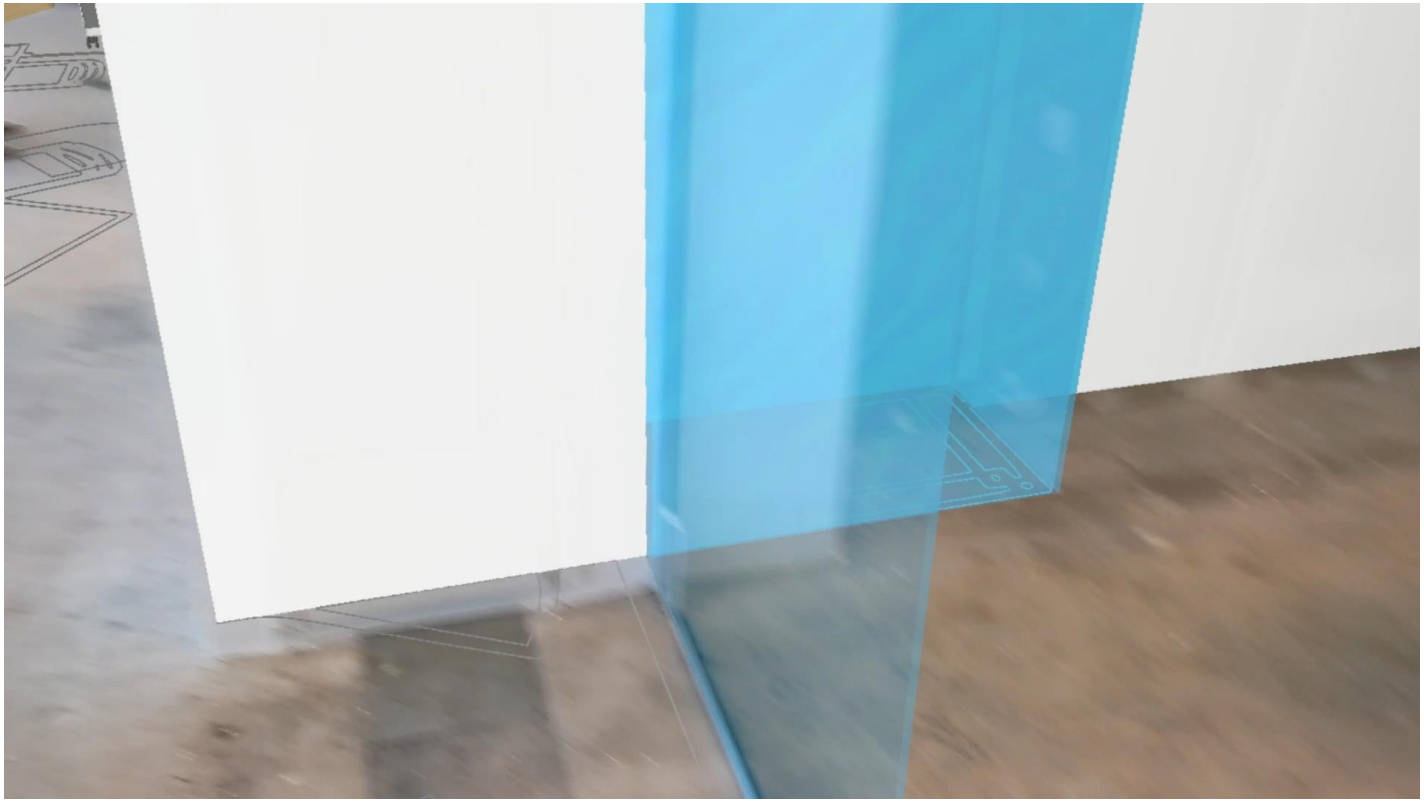

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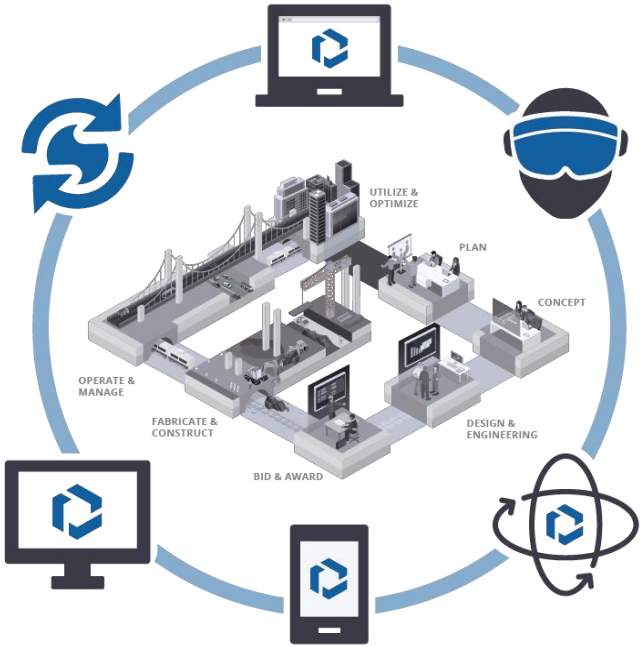
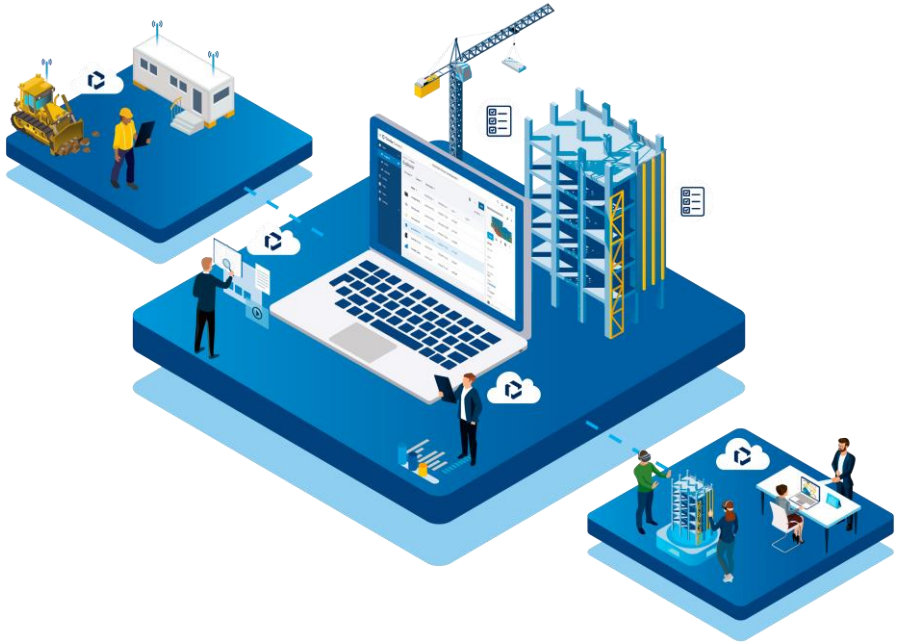
3-Liberation Construction Data





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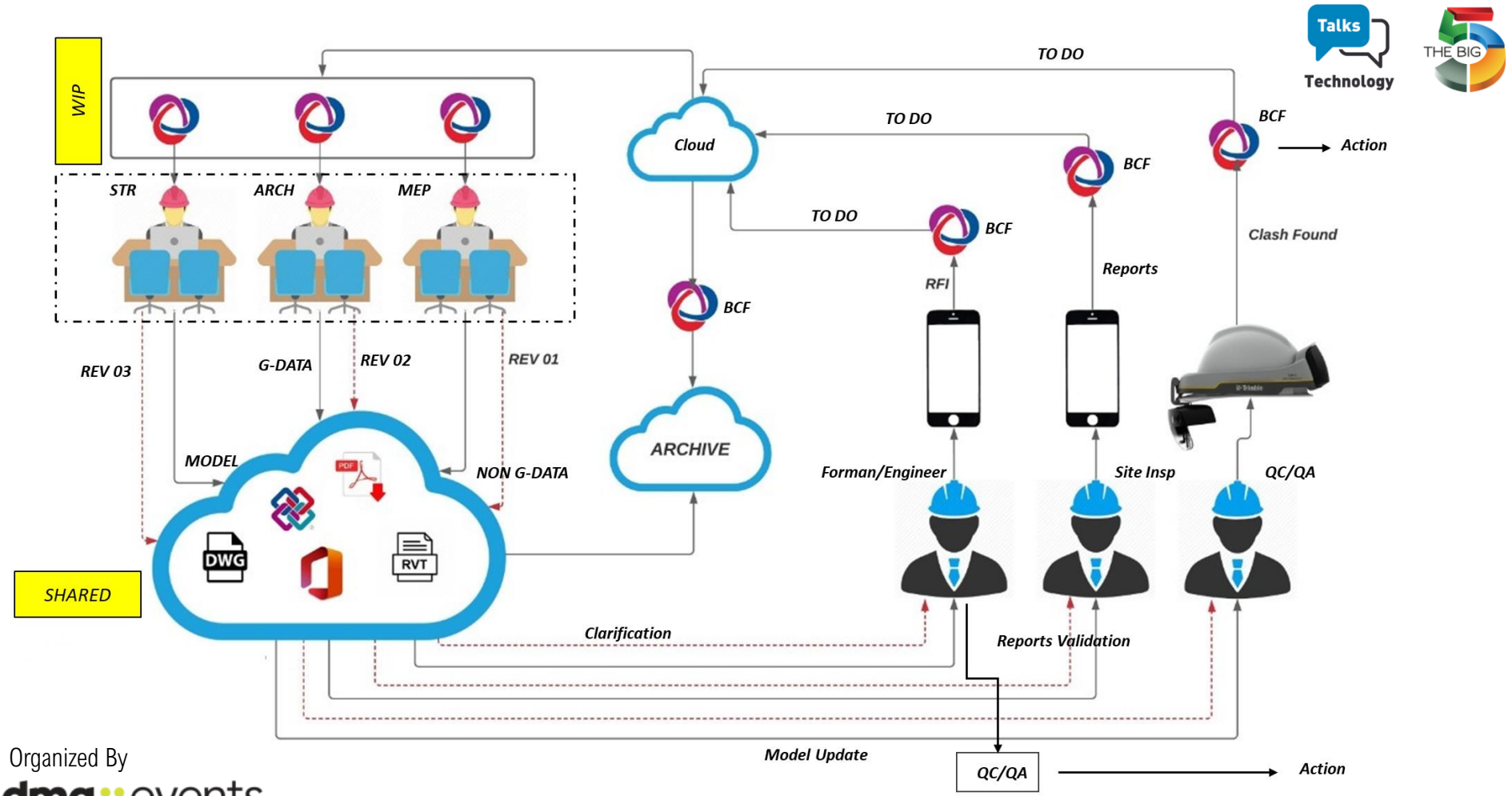

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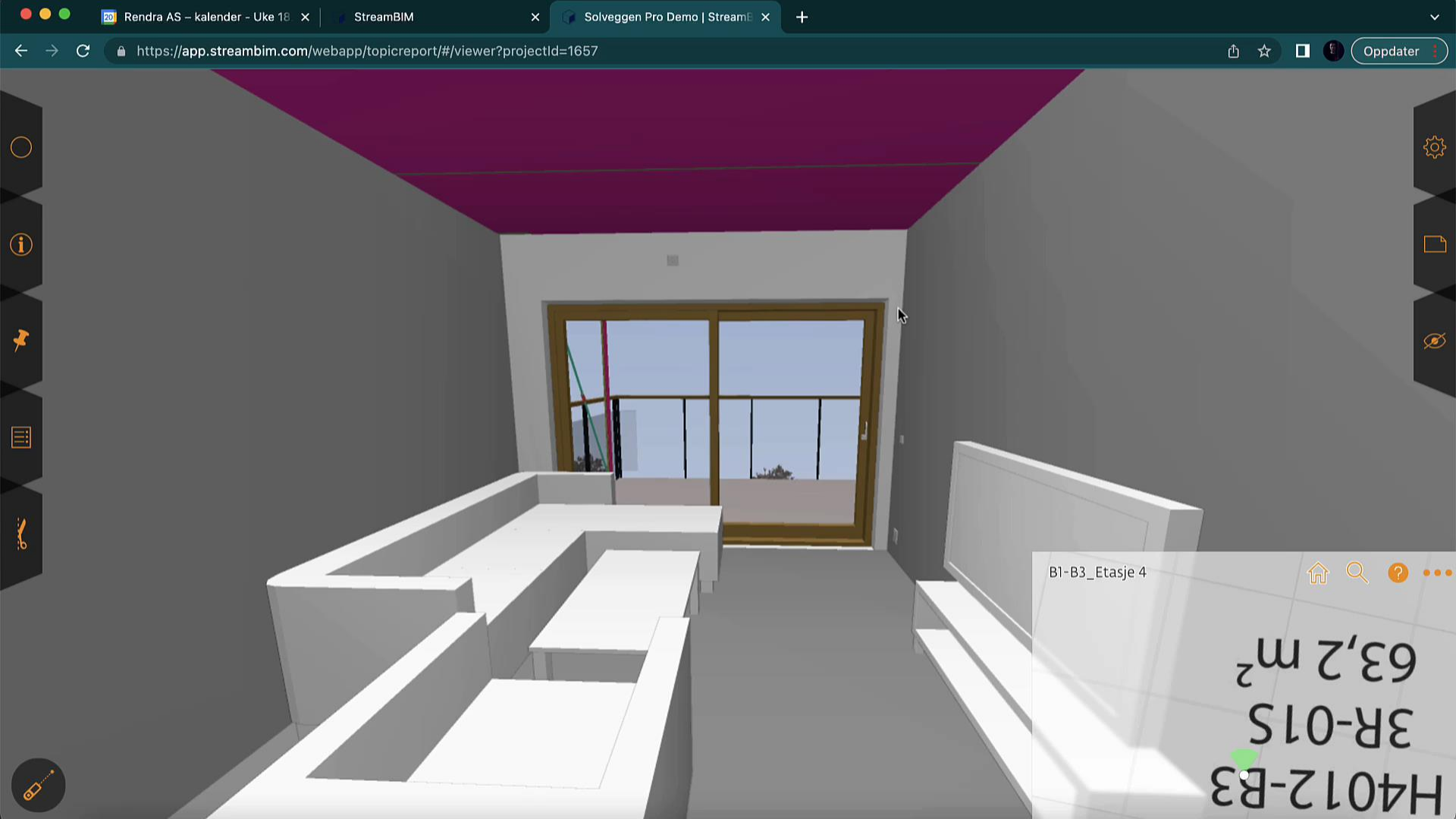
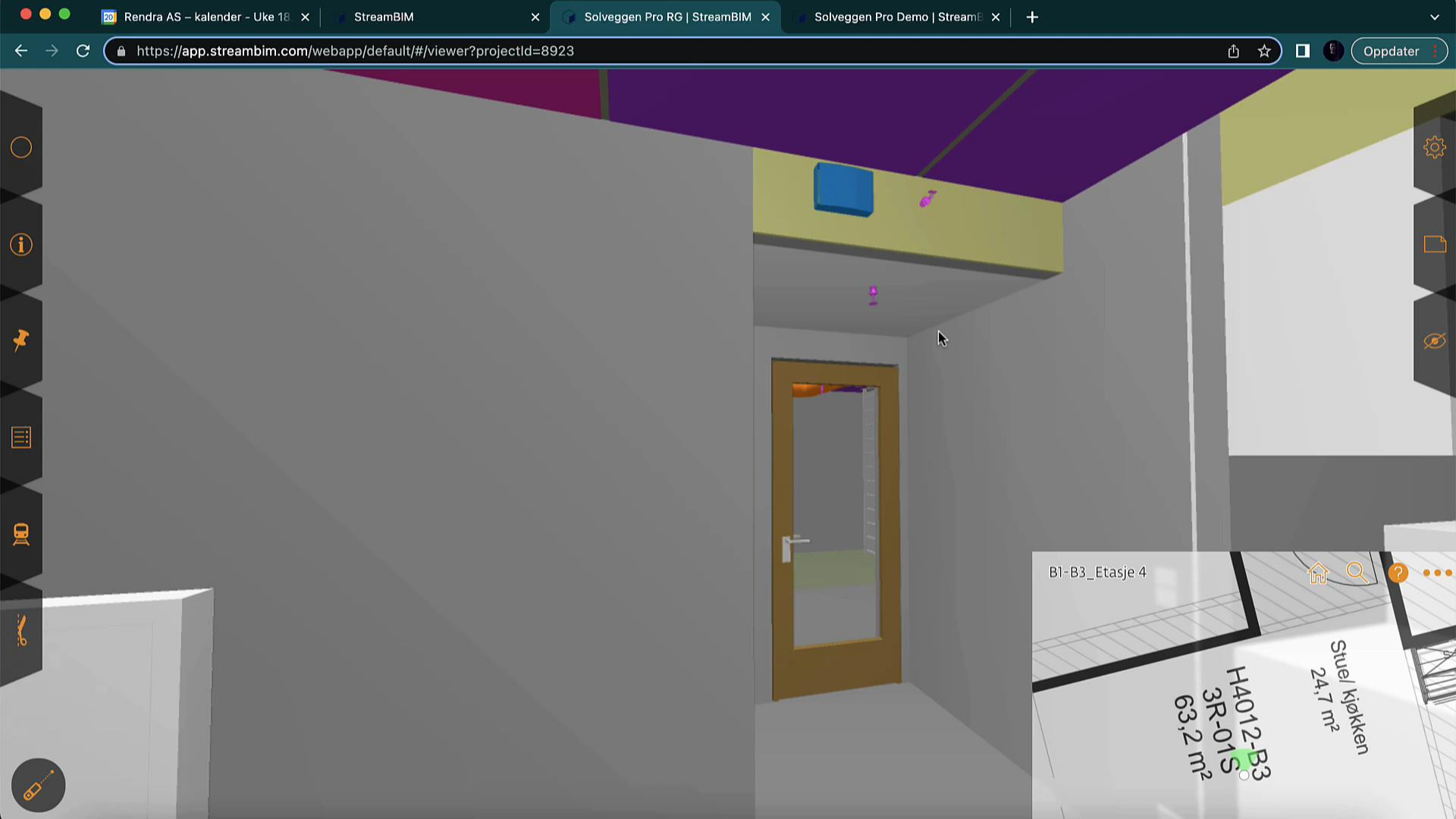
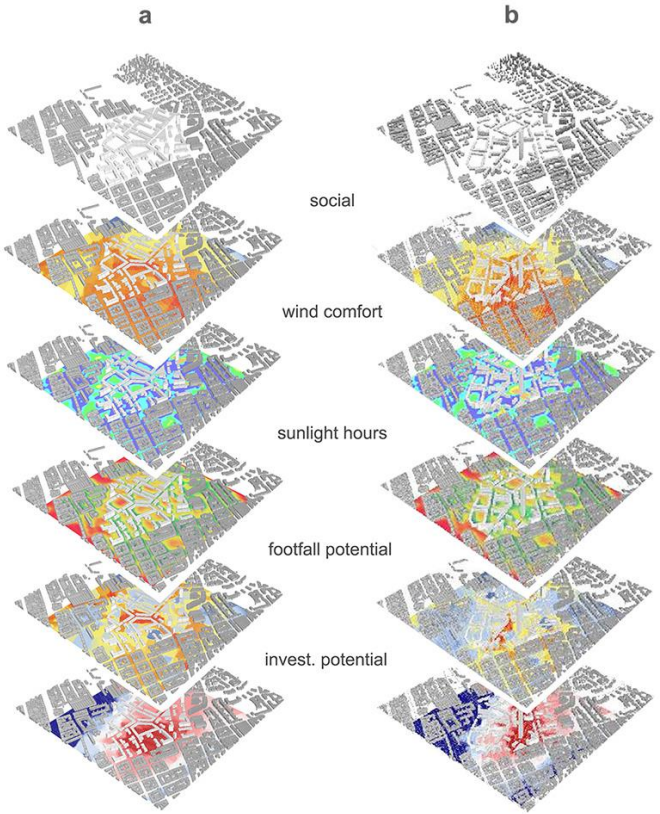
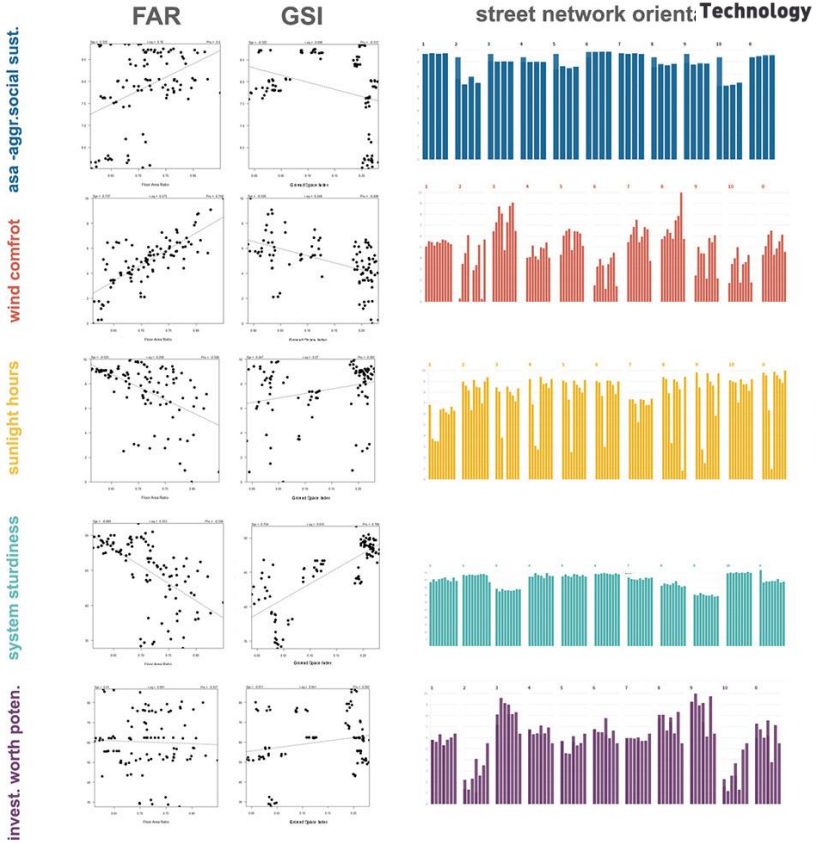

Rendra AS – kalender - Uke 18
StreamBIM
Solveggen Pro Demo | StreamB
https://app.streambim.com/webapp/topicreport/#/viewer?projectId=1657
Oppdater
B1-B3_Etasje 4
H4012-B3
3R-01S
63,2 m²


Rendra AS – kalender - Uke 18
StreamBIM
Solveggen Pro RG | StreamBIM
Solveggen Pro Demo | StreamB
https://app.streambim.com/webapp/default/#/viewer?projectId=8923
Oppdater
B1-B3_Etasje 4
H4012-B3
3R-01S
63,2 m²
Stue/ kjøkken
24,7 m²

4-Artificial Intelligence





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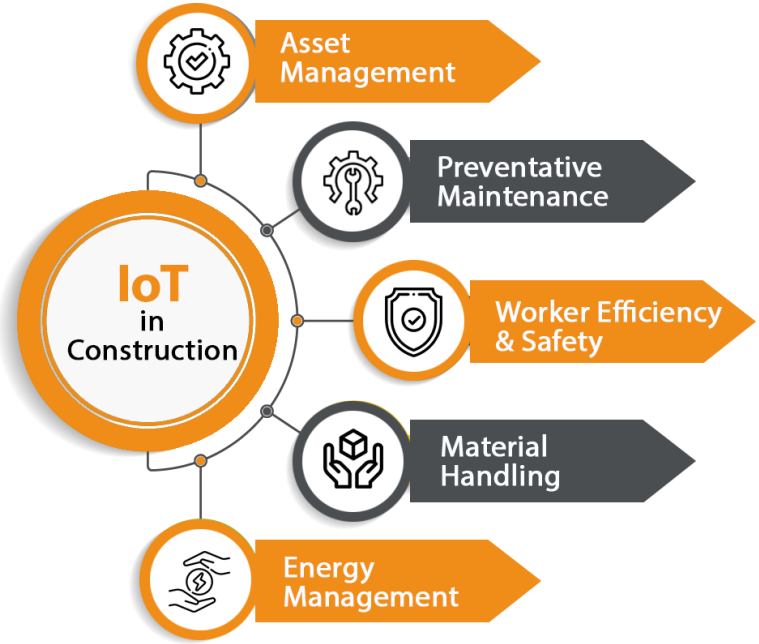
5-Internet of Things



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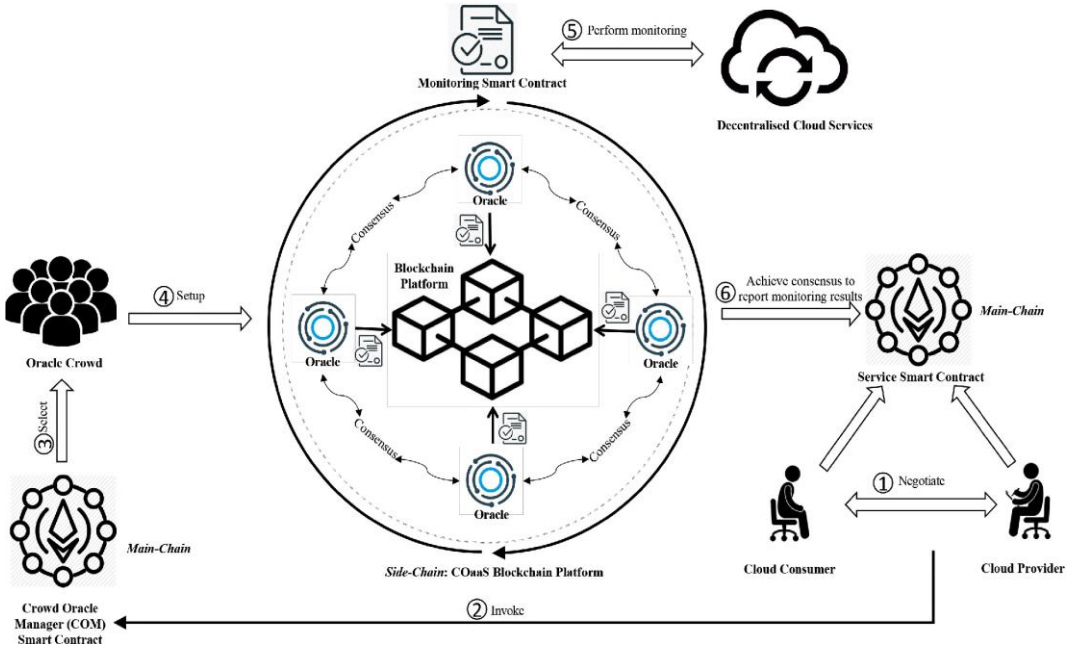
6-Blockchain & Smart Contracts



INDUSTRY INSIGHT

Smart contracts will be used to break down traditional deliverables into smaller stages. This work could then be billed out in incremental portions of the total payment, replacing large, lump sums with continuous cash flow. This can strengthen trust between parties.

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7-Enable Projects with Managed Content

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8-Laser Scanning & Reality Capture

Future Vision get robots Involved

1-Preparing BIM Execution Plan
-Level Of Information Need
-Software Used
-BIM Uses and Goals
-Data Drops
.....

2-Collect Existing Data
-Old Survey
-Archeologic Reports
-Geology Reports
-Old Plans, Elevation
-Building Status Reports
-Site Typology (Several Site Visit Mandatory)

3-Laser Scanning of The Historic Building
-Point Cloud Model
-360 Images.

Common Data Environment

Dynamo

6-Modelin Phase
-Create the BIM Model
-Create Parametric Families.

4-Data Processing
-Point Cloud Model Cleaning
-Generate Colored Model
-Transparent Model
-Generate E57 and RCP Model.

5-Create Virtual Tours
-VR & AR.

3DVista

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4-Virtual world and gaming industry and movies using BIM model.

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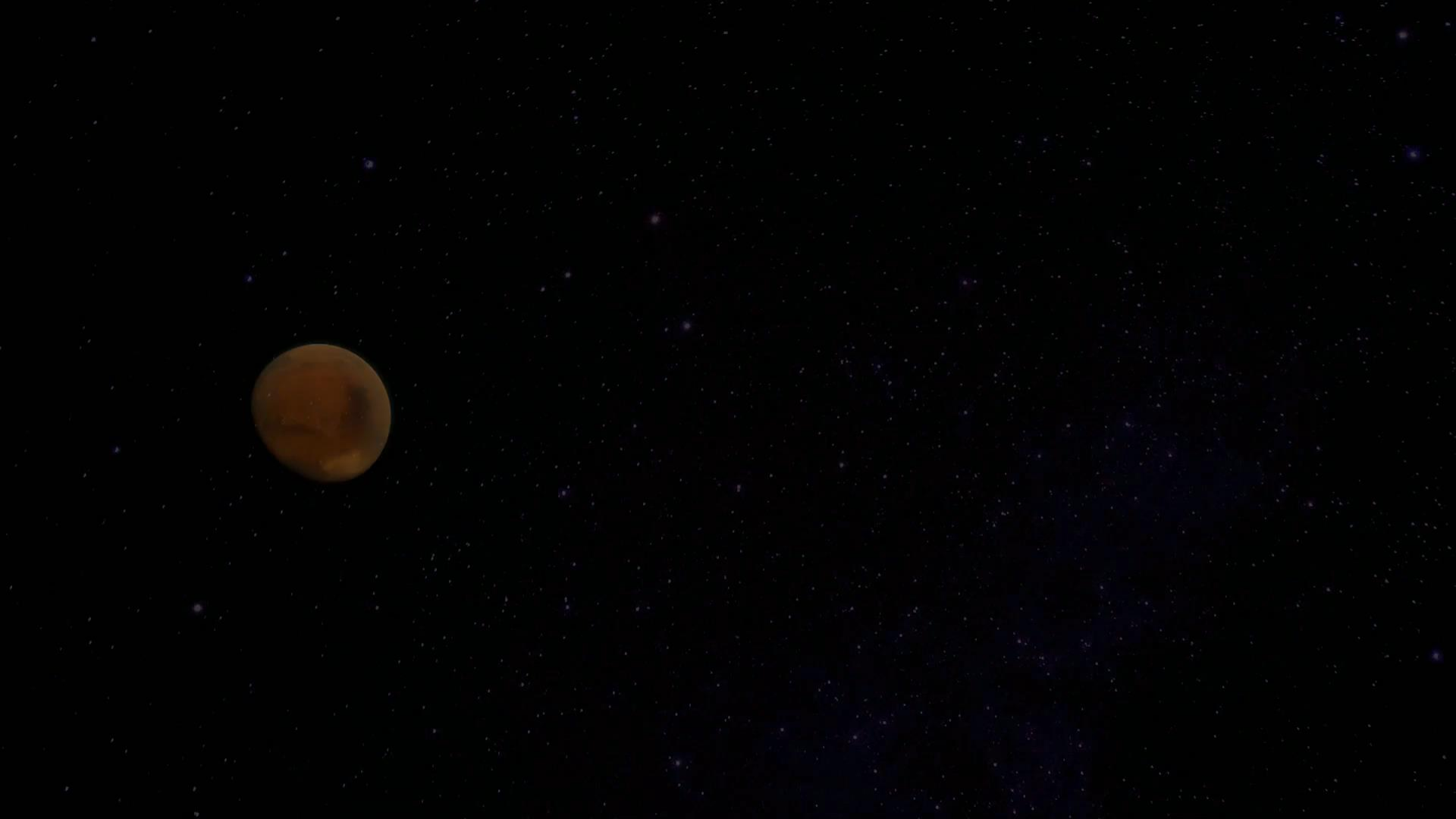

THANK YOU

شكرًا جزيلًا

Talks Concrete

Talks Facilities Management

Talks Geotechnical & Engineering

Talks HVAC R

Talks Offsite & Modular

Talks Project Management

Talks Solar

Talks Stone Design

Talks Technology

Talks Urban Design & Landscape