Engineered

FIRE PIPING

WHAT IS BIM?

Building Information Modeling (BIM)

Building
It refers to a construction, which can be a building, a road, etc. It is anything that we are going to build

Information Modeling
Graphic and Non-Graphic Information that we must contribute to the model, so that the design, construction, and maintenance of this construction can be carried out.

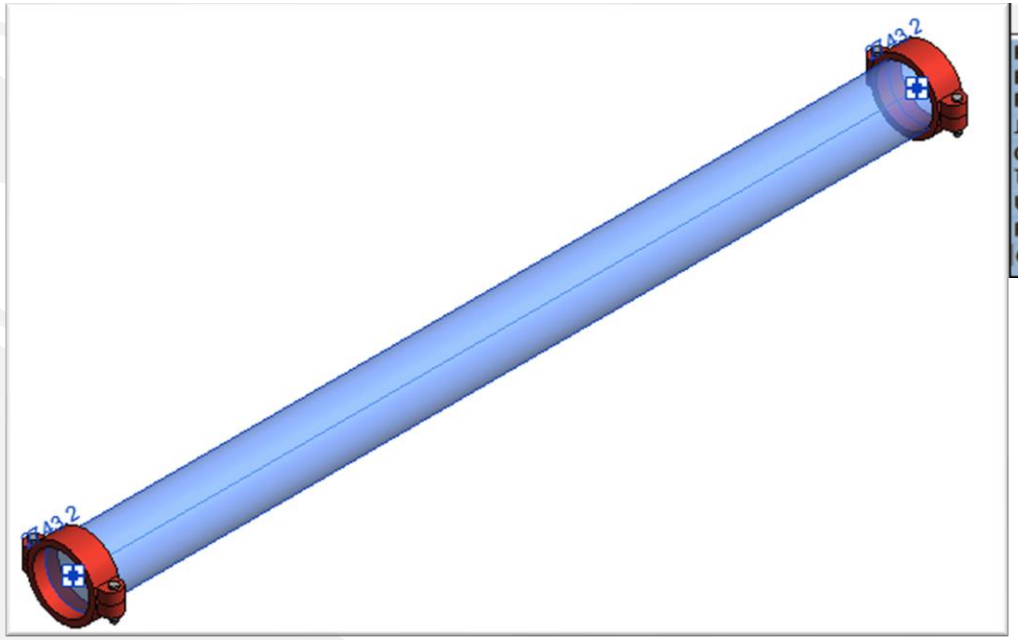
What Is BIM ?

BIM is a methodology that facilitates collaborative work.

To construct something, we need to involve a large number of disciplines and individuals to whom we must provide updated information from the model we are going to build

What Is BIM ?

In BIM, the objects in the model communicate with each other, share information, and how we can obtain information from the model, as well as the reverse process of introducing information into the model.



Content	Min. Size
Pipe Segment	
Elbow	
Preferred Junction Type	
Junction	
Cross	
Transition	
Union	
Flange	
Cap	

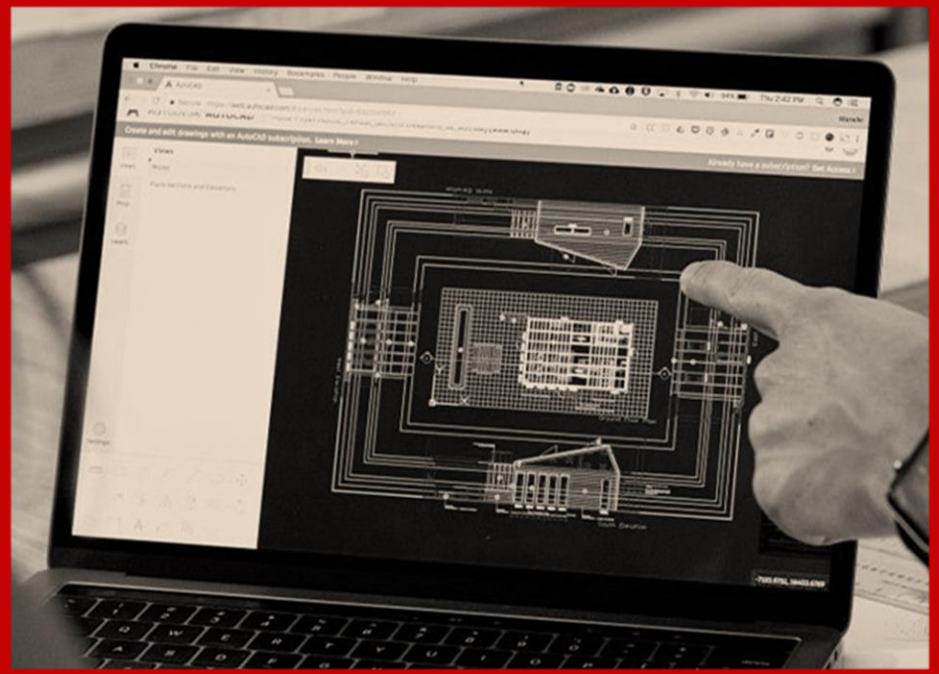
BIM REVOLUTION

DT [Drafting Table]

- The most basic form of conveying information.
- The designer sketches on paper the necessary information to build the object.
- The information we've inputted is very limited; it cannot be updated, edited, or linked to other entities, etc..."

BIM REVOLUTION

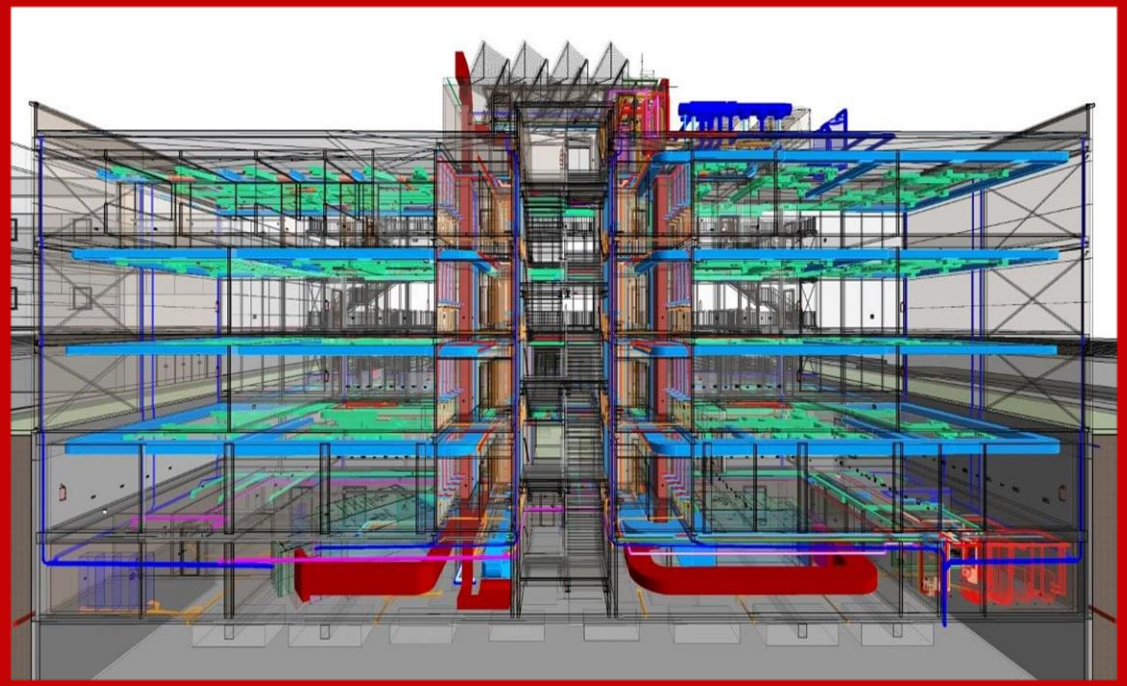
CAD [Computer Aided-Design]



- Evolution
- Simple entities.
- Basic info: Coordinates, Lenght,, Color, Lawyer.
- A line may be a wall or pipe.
- Simple pipe drawing: Joint– Line – Text
- NO RELATIONSHIP

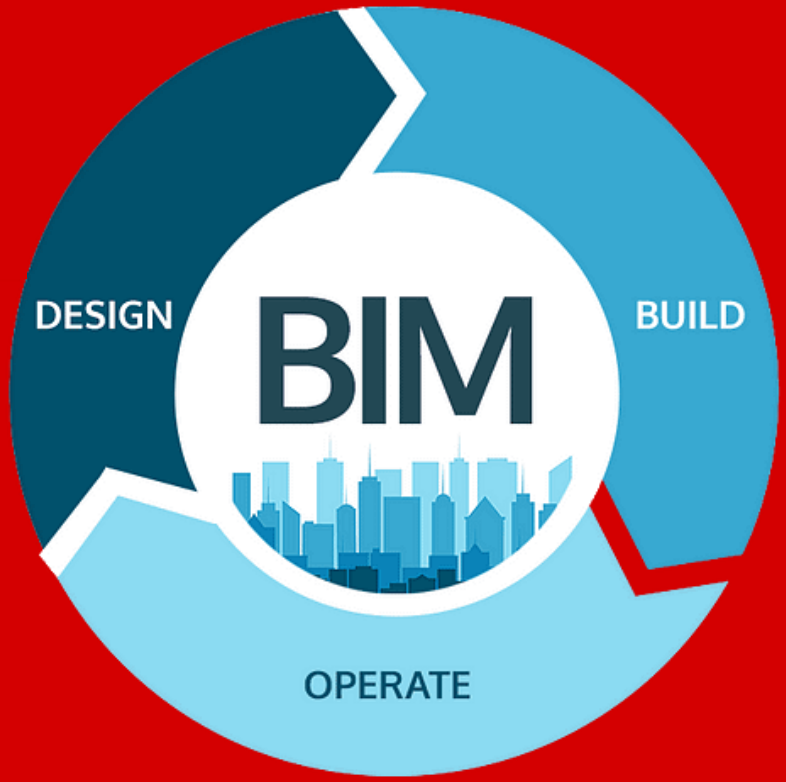
BIM REVOLUTION

BIM [Building Information Modeling]

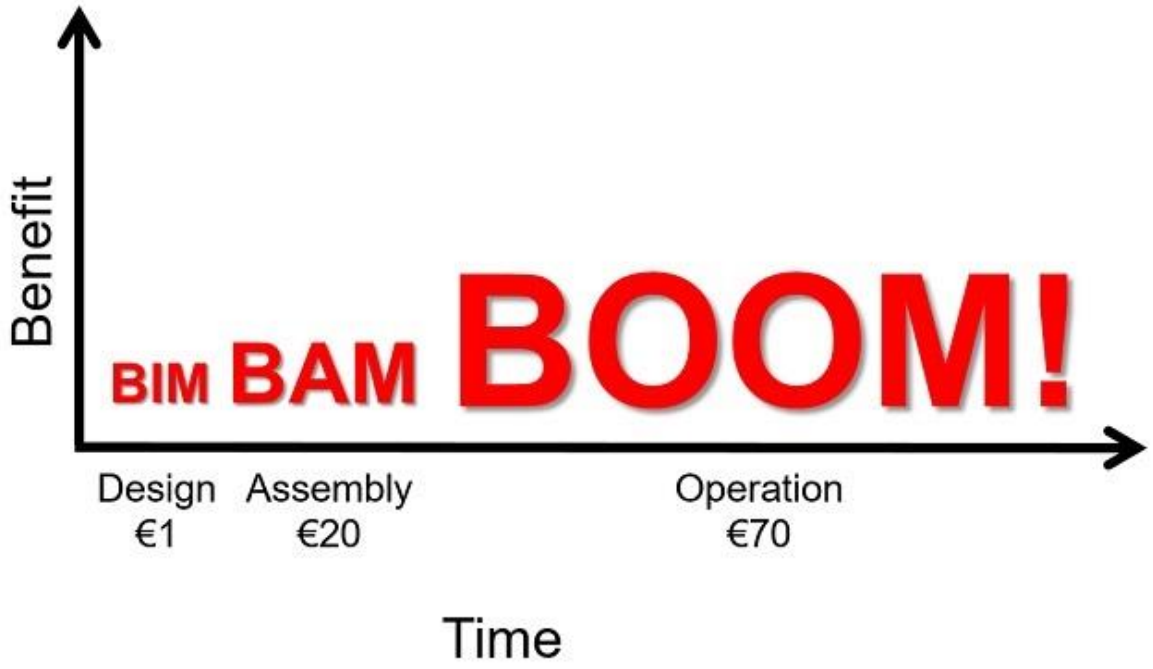


- Revolution
- Real Objets Models.
- Pipe Objet Real Properties DN, DE, DI, Slope, Color, Position 3D, etc….)
- Objets Sharing Info with Related Ones.
- Objets Changes Update Others.
- Smart Objects.

BIM LIFE CYCLE



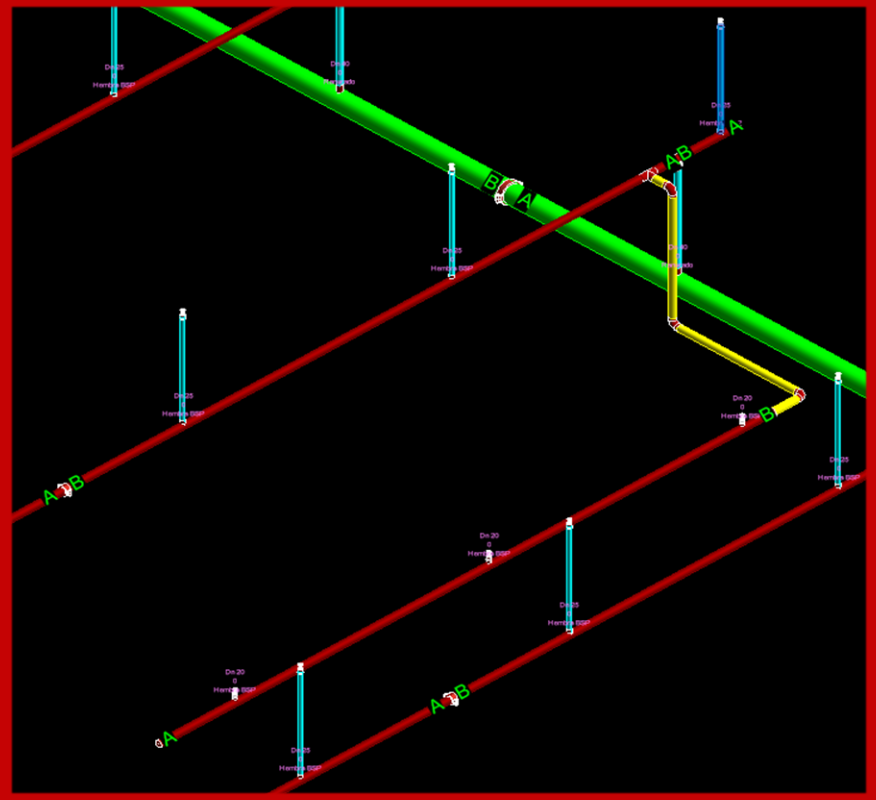
BIM PROFIT



BIM ADVANTAGES

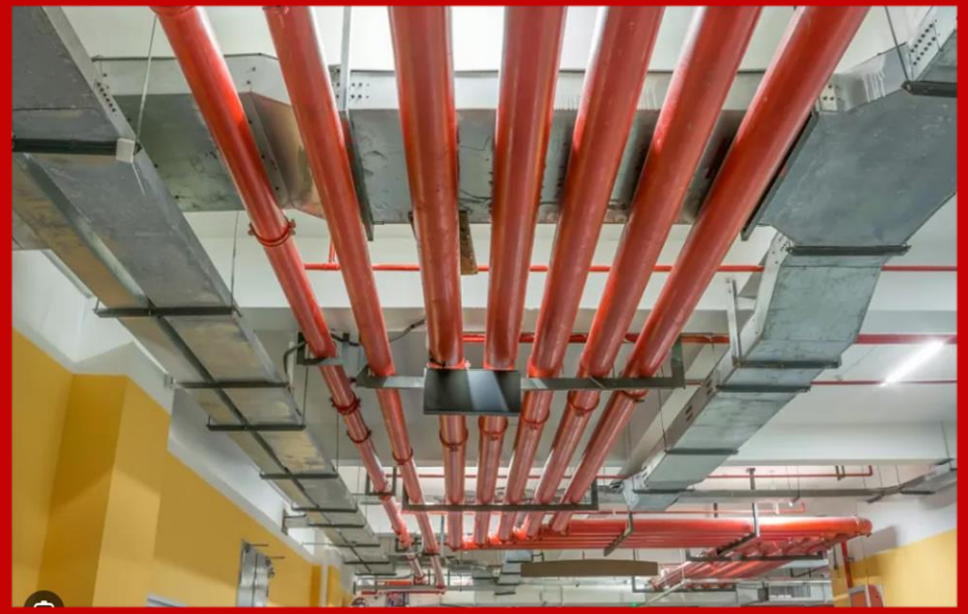
BIM ADVANTAGES ; DESIGN

3D Viewing for a better understanding



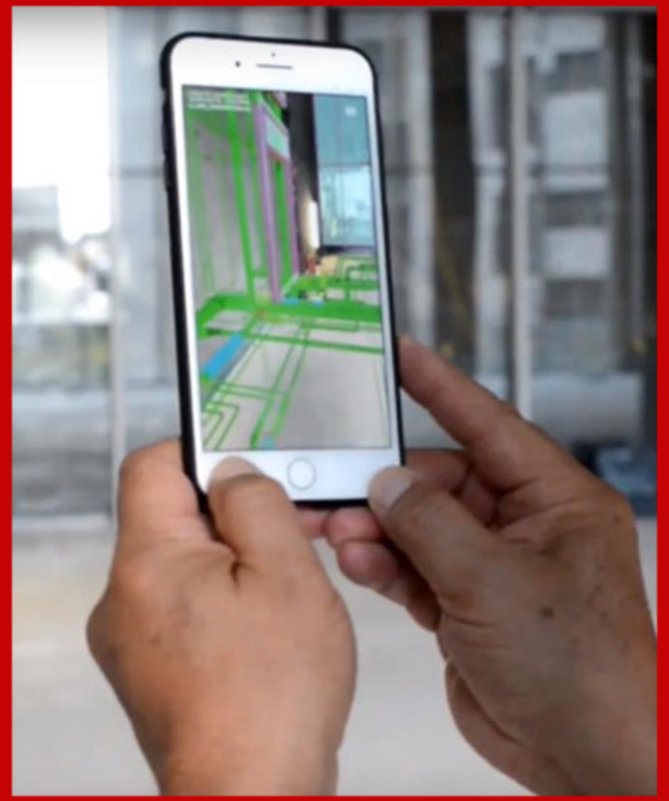
BIM ADVANTAGES ; DESIGN

Tools to avoid interferences between instalations: Building structure-HVAC-Fire portection



BIM ADVANTAGES ; BUILD

Augmented Reality

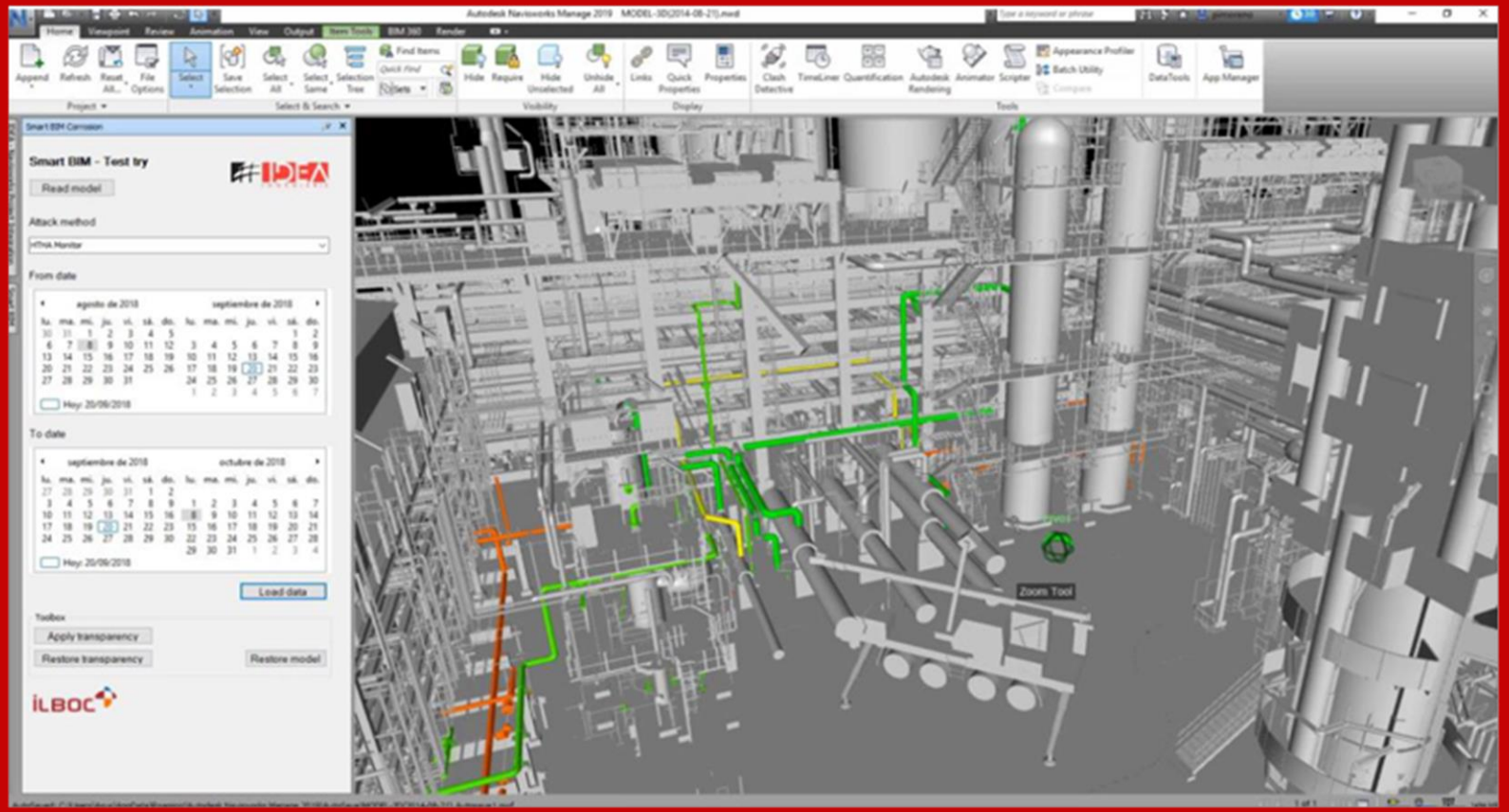


BIM ADVANTAGES ; BUILD

Tools for Quality

BIM ADVANTAGES ; OPERATE

Tools for building maintenance control and send info to Maintenance team for planing tasks.

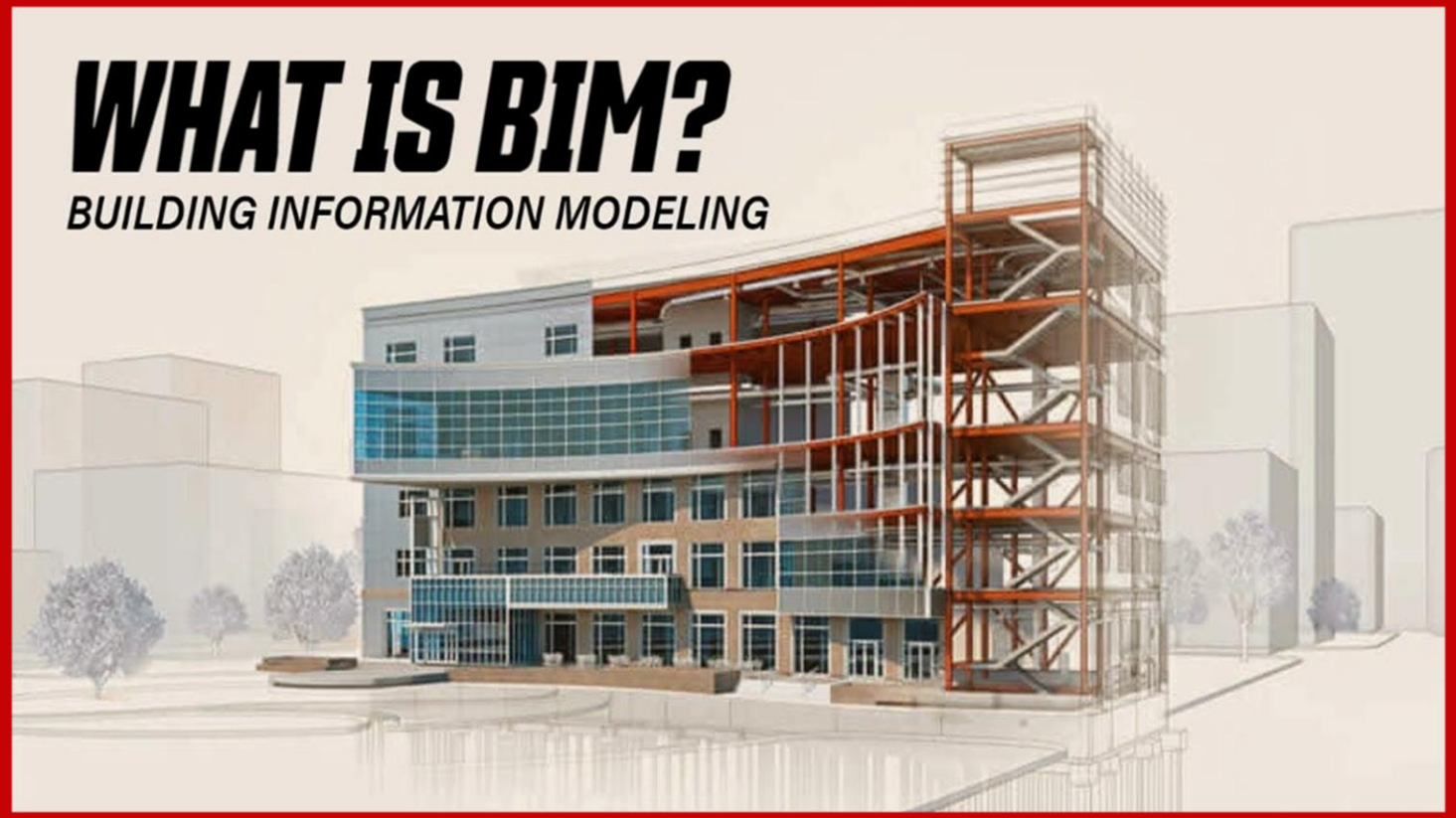


BIM Resume

What Is Not BIM

-Software.
-3D Modeling.
-CAD Evolution.

BIM Resume



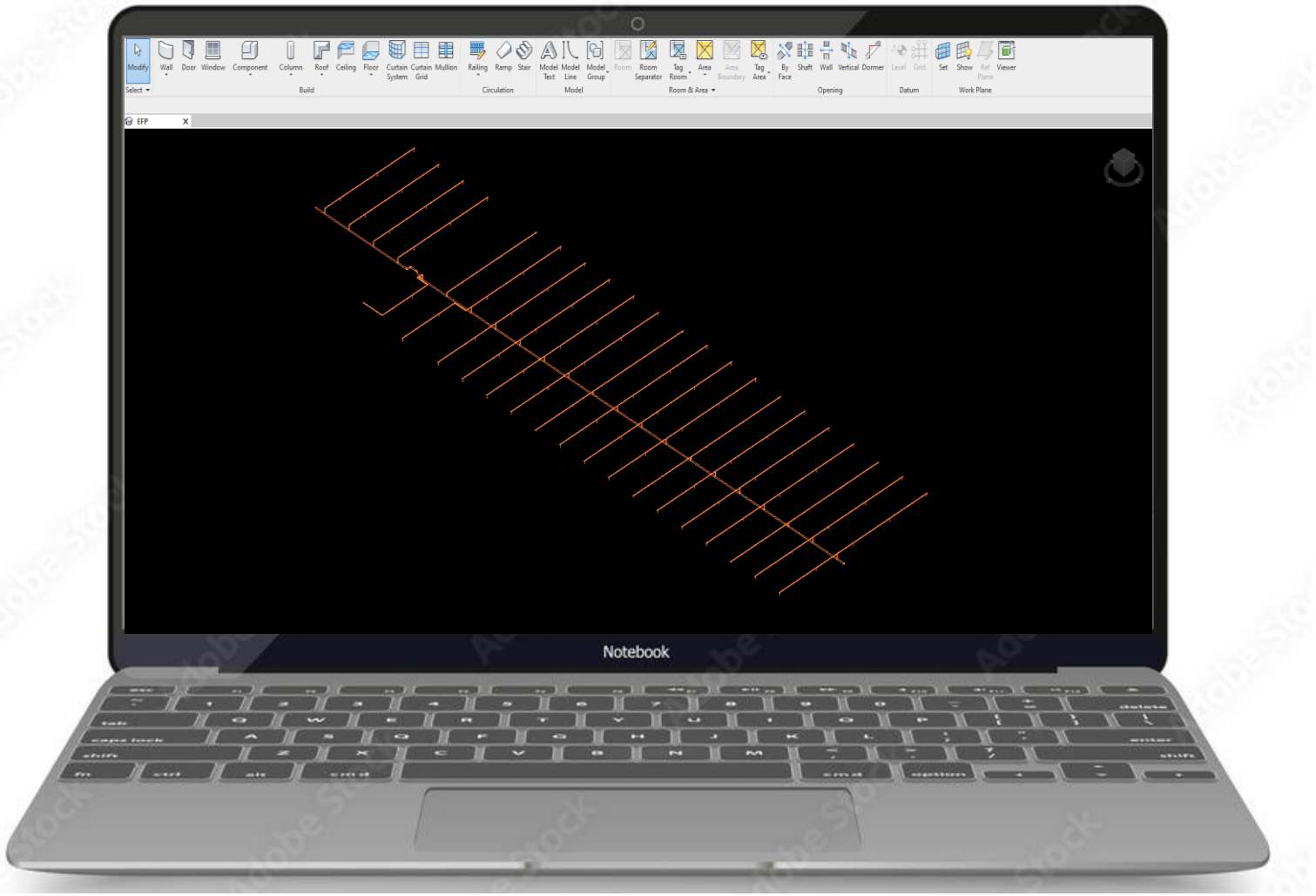
-Information Share.
-Quality info Grafic/Non Grafic.
-Updated Info.
-Multitask Colaboration.
-Present & Future.
-Revolution & Philosophy.
-Avoid Mistakes in Design Stage.
-Virtual & Upgraded Reality.
-Project Execution Control.
-Building Maintenance
-Many aplications……

BIM Resume

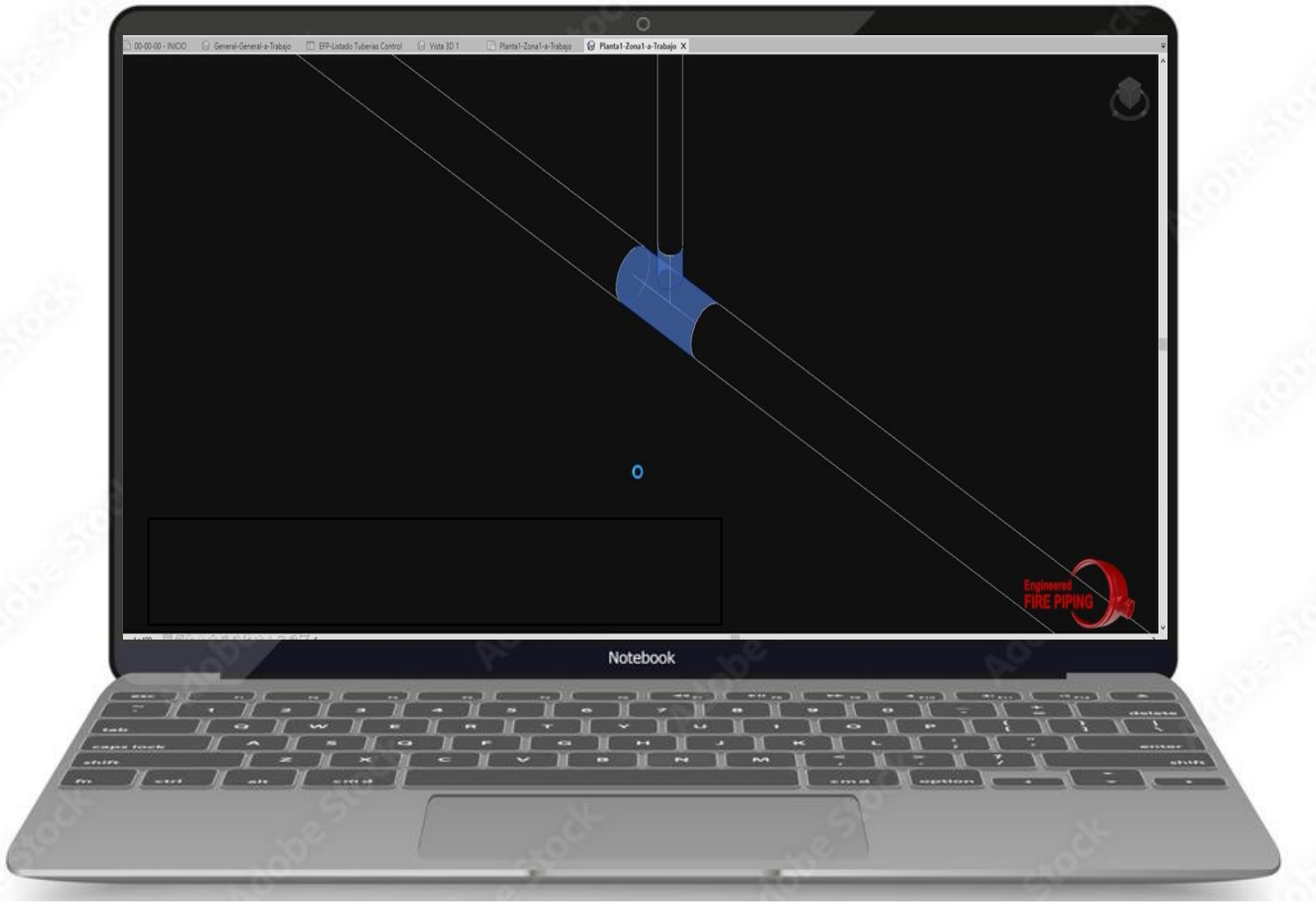
"The CAD era says goodbye in silence,
BIM takes center stage,
It revolutionizes the way we build,
driven by a new era of collaborative and precise information”

WORKING AT
BIM ENVIRONMENTS

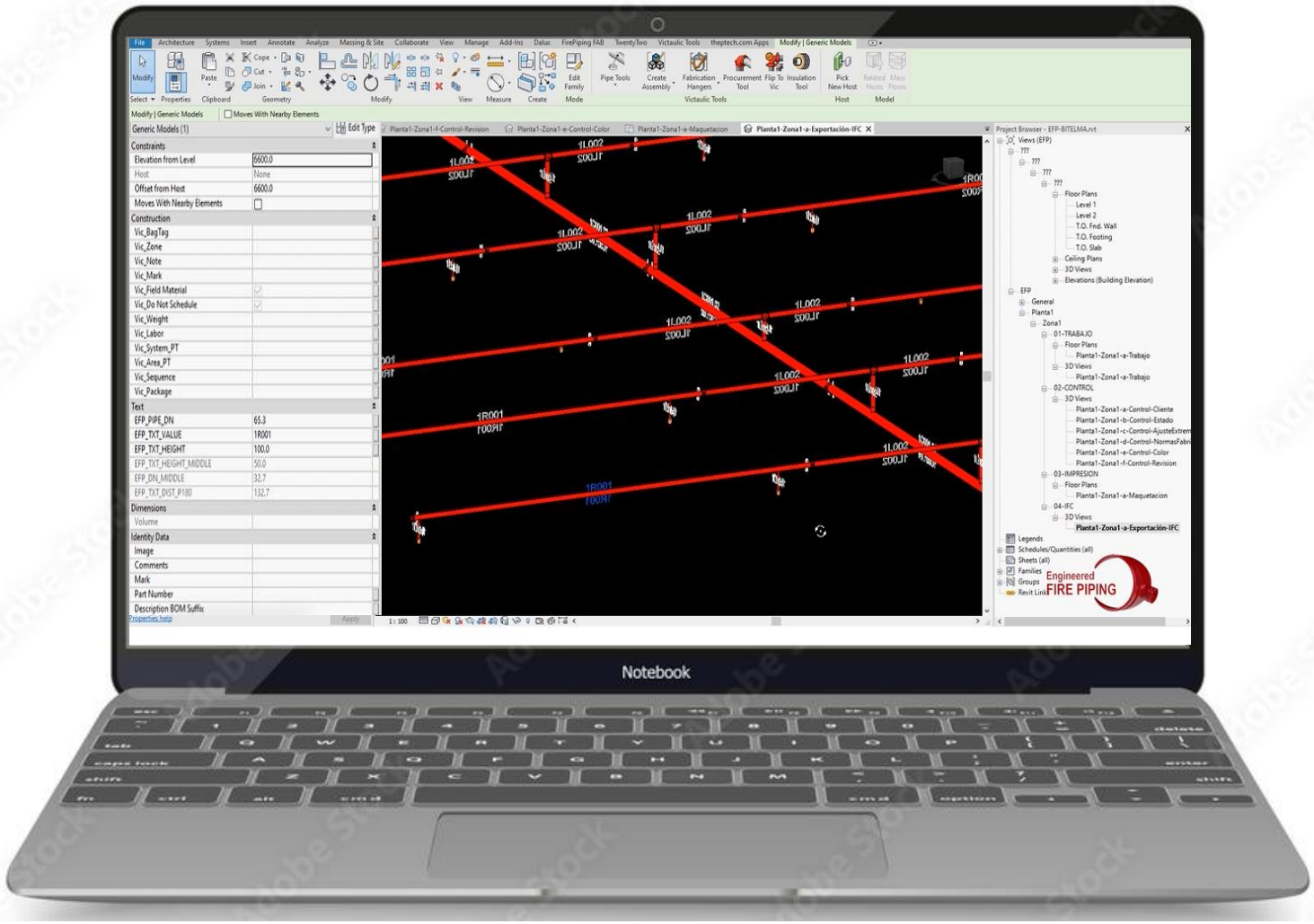
Project´s File Provided by the Customer



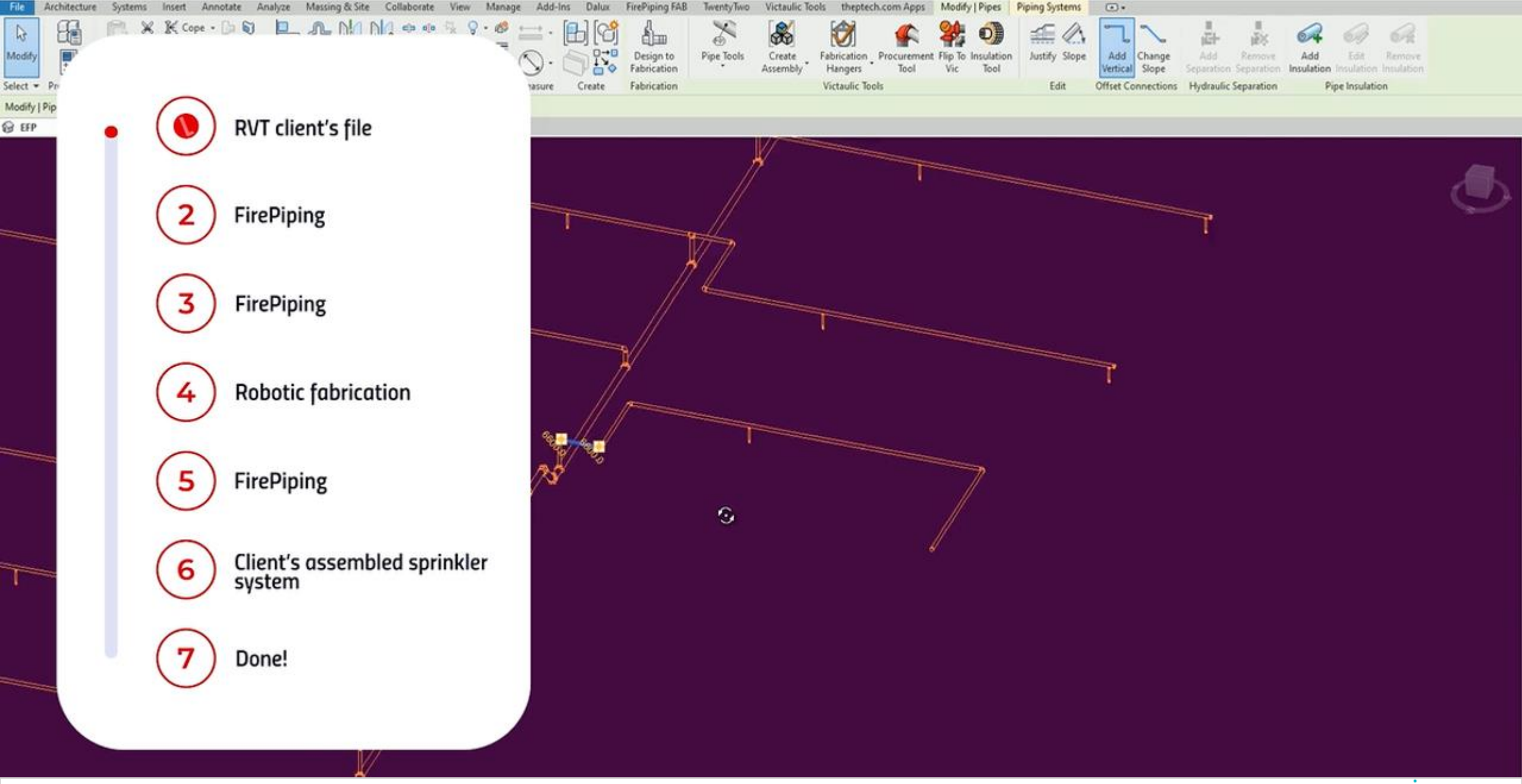
Converting Client´s Drawing into “prefabricated installation”



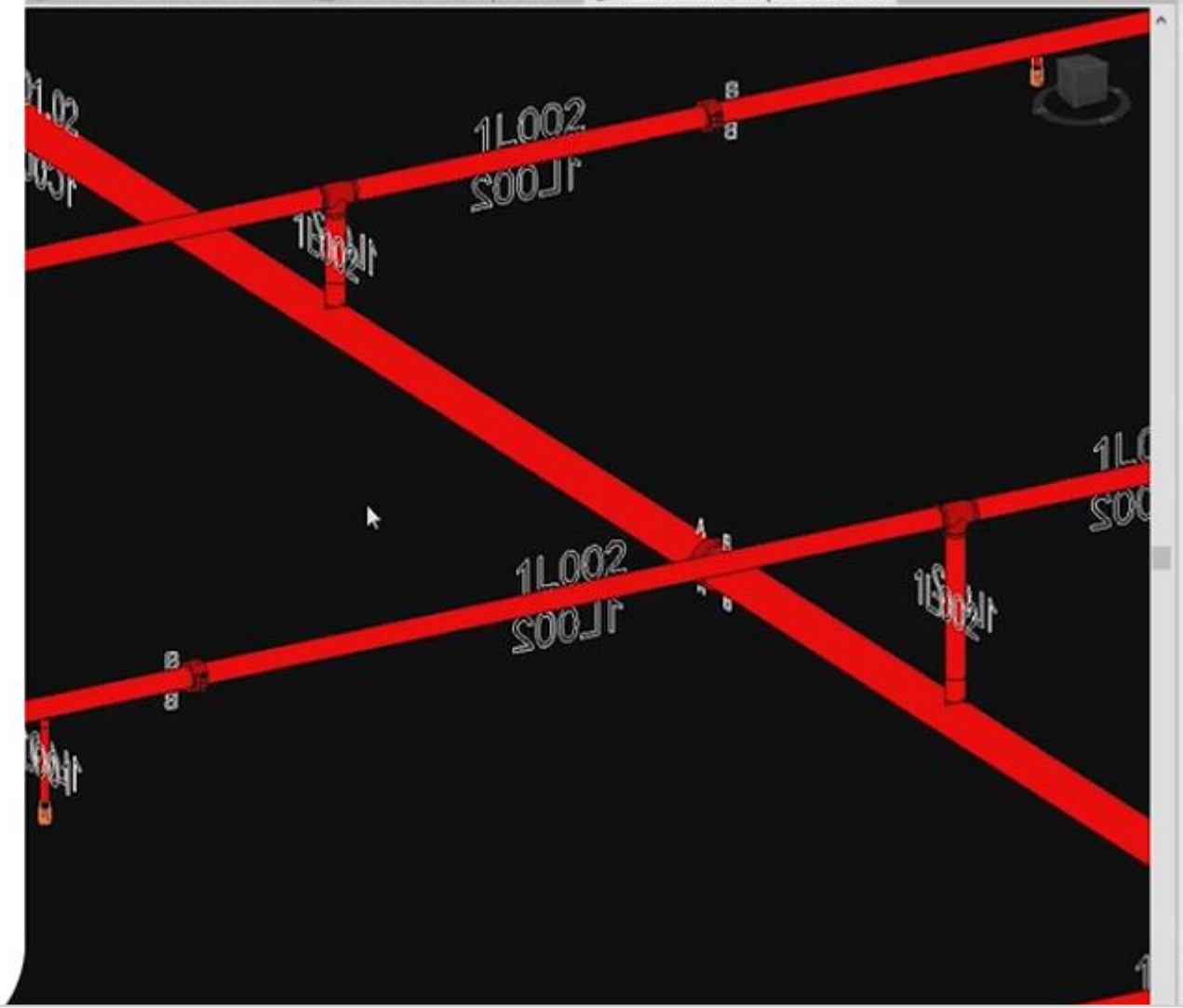
Prefabricated Installation in a BIM Environment.

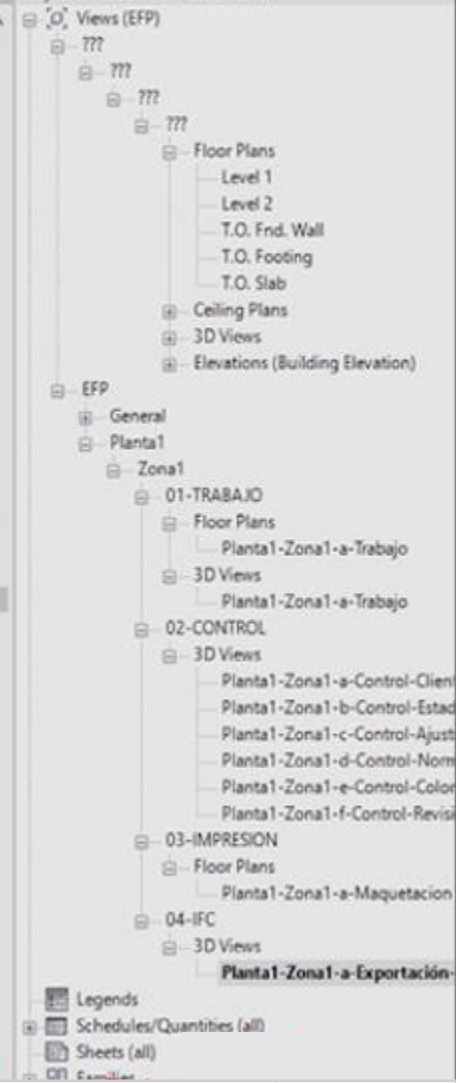


WORK FLOW NO STOP


File
Architecture
Systems
Insert
Annotate
Analyze
Massing & Site
Collaborate
View
Manage
Add-Ins
Dalux
FirePiping FAB
TwentyTwo
Victaulic Tools
theptech.com Apps
Modify | Pipes
Piping Systems
Modify
Select
Design to Fabrication
Fabrication
Pipe Tools
Create Assembly
Fabrication Hangers
Procurement Tool
Flip To Vic
Insulation Tool
Victaulic Tools
Justify
Slope
Edit
Add Vertical
Change Slope
Offset Connections
Add Separation
Remove Separation
Hydraulic Separation
Add Insulation
Edit Insulation
Remove Insulation
Pipe Insulation
Modify | Pip
EFP
RVT client's file
2 FirePiping
3 FirePiping
4 Robotic fabrication
5 FirePiping
6 Client's assembled sprinkler system
7 Done!

1. RVT client's file
2. FirePiping
3. FirePiping
4. Robotic fabrication
5. FirePiping
6. Client's assembled sprinkler system
7. Done!





1. RVT client's file
2. FirePiping
3. FirePiping
4. Robotic fabrication
5. FirePiping
6. Client's assembled sprinkler system
7. Done!

1 RVT client's file
2 FirePiping FAB software
3 FirePiping PIC software
Robotic fabrication
5 FirePiping SHARE software
6 Client's assembled sprinkler system
7 Done!

1. RVT client's file
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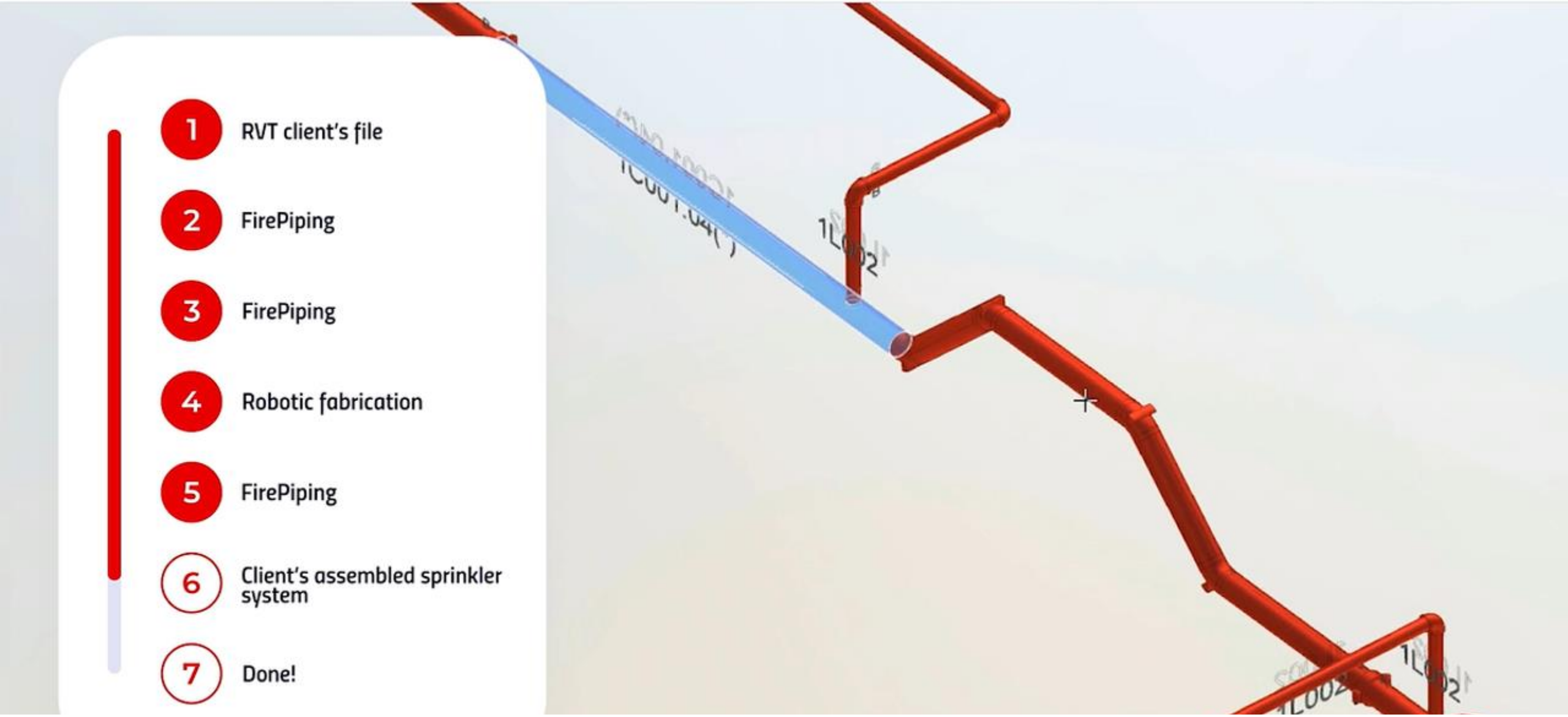

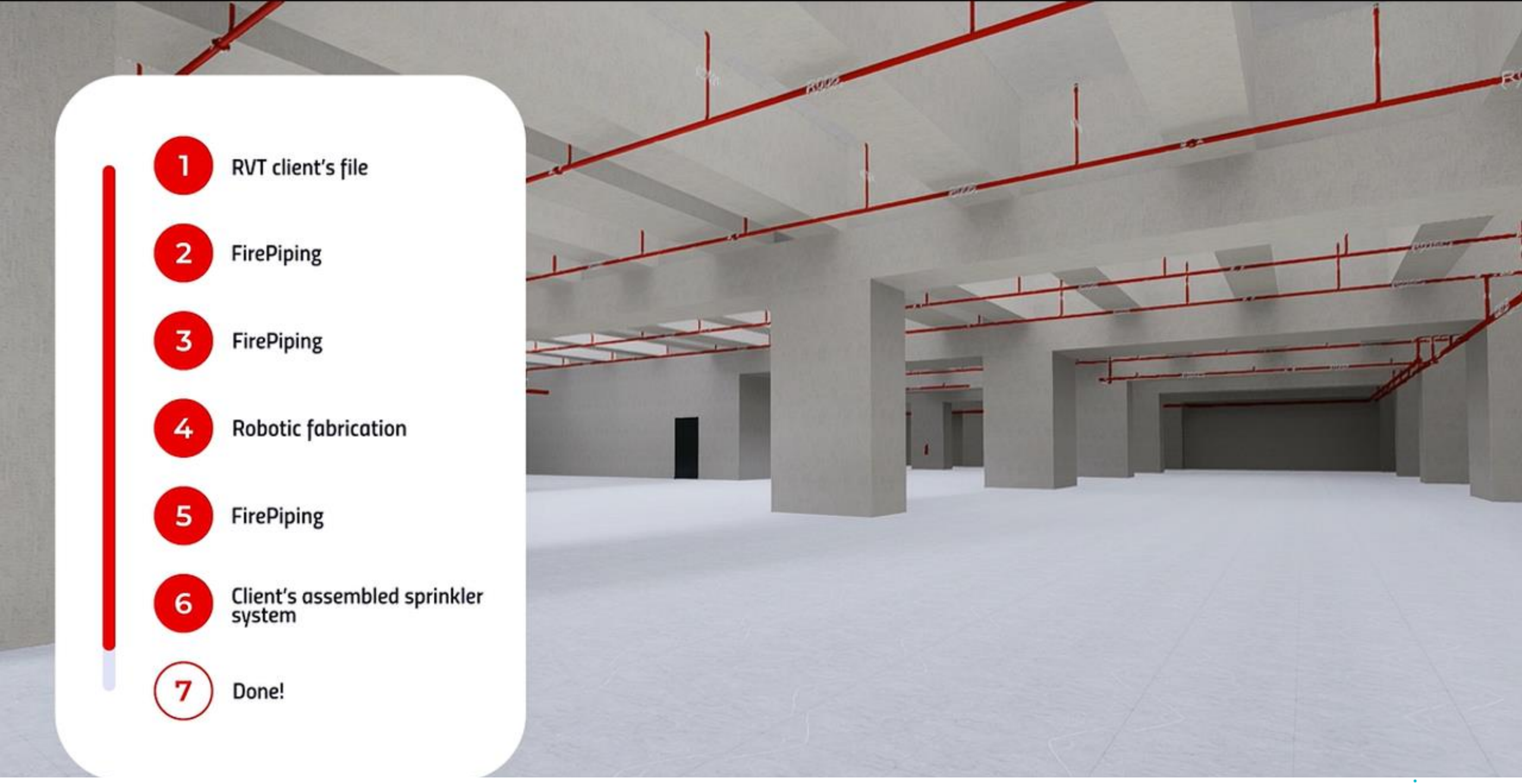
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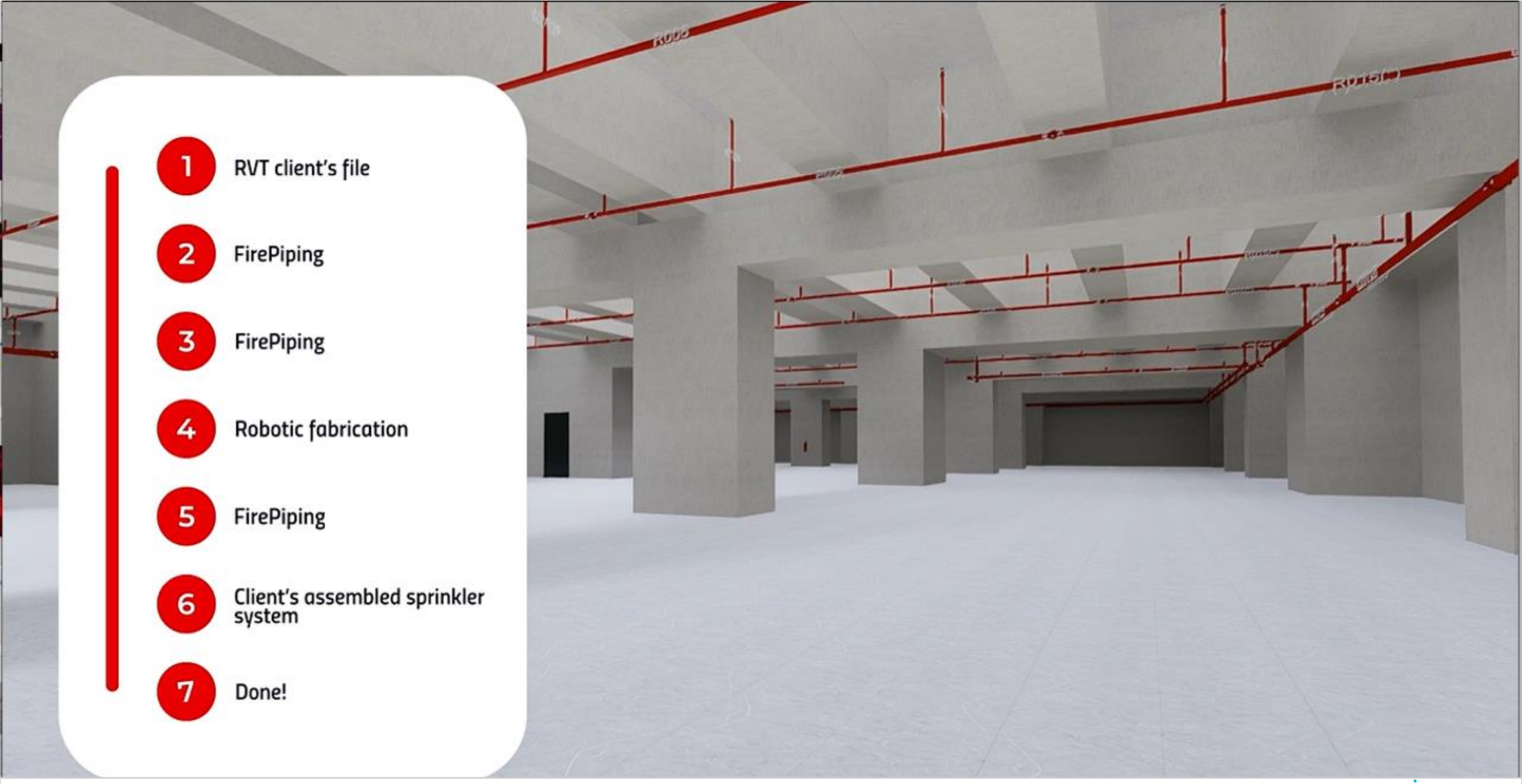
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WE ARE INDUSTRY 4.0

Engineered
FIRE PIPING

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FIRE PIPING

WE ARE BIM

WE SHARE

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FIRE PIPING

WE MAKE IT EASY

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