

#### **GEOFIT**

Training on radar technologies for ground inspection and structural health monitoring, thermal load estimation of buildings and use of digital twin management software (GEOBIM)

**11**th **October**, 2022 Online



#### Content

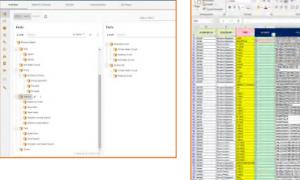
- 1. Digital Twin Overview
- 2. Pilot identification and access
- 3. 3D Viewer: Controls & Navigation
- 4. 3D Viewer: Inventory & Assets
- 5. 3D Viewer: Monitoring
- 6. Further options



### 1. Digital Twin overview

#### **Data collection in Libraries or Excel sheets**







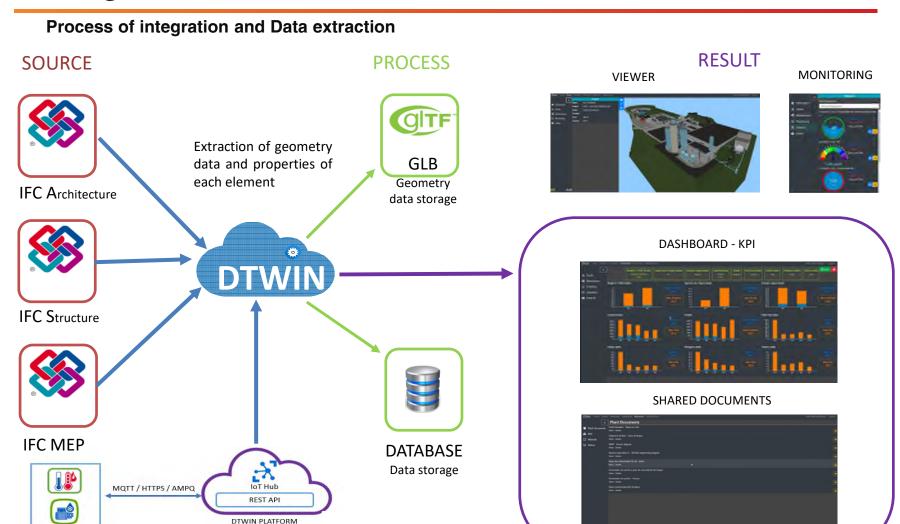
**Database located in Cloud environment** 



Results of the integration of assets for the management and monitoring and KPI visualization



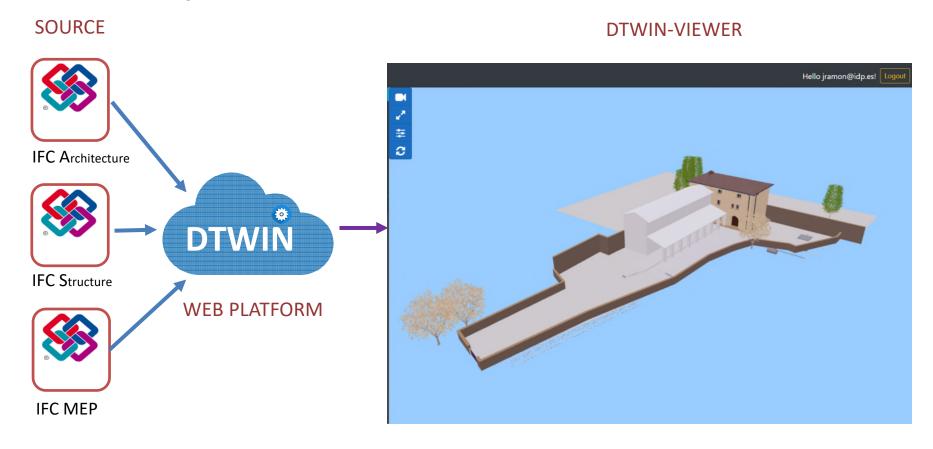
### 1. Digital Twin overview.





### 1. Digital Twin overview.

**Process of integration and Data extraction** 



**IFC MEP** 

**HTTPS CALLS** 

**RESULT** 



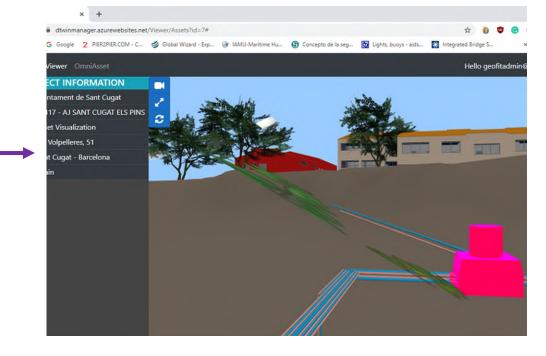
### 1. Digital Twin overview.

#### **Process of integration and Data extraction**

# NATIVE INFORMATION



#### **DTWIN-VIFWFR**





### 1. Digital Twin overview.

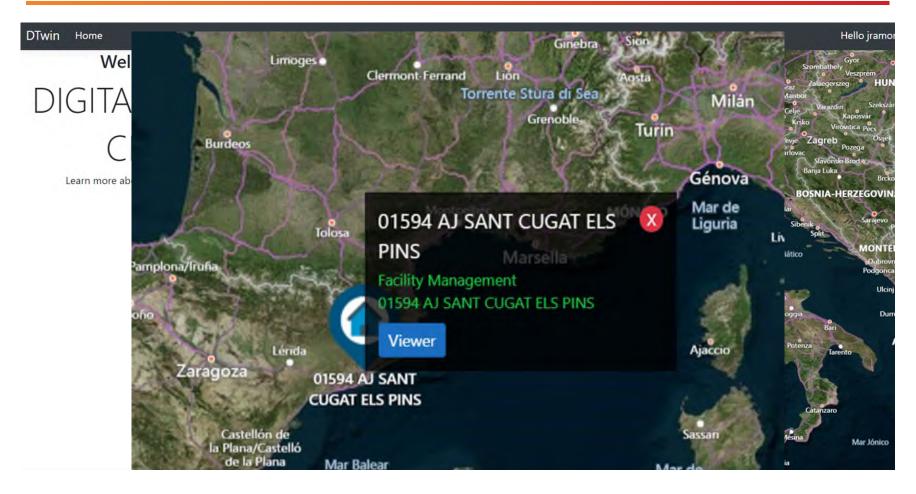
#### 3D Viewer

#### **DTWIN-VIEWER**

- Allows the user to interact with the model and get data from each element selected.
- Each inventory can have associated basic data sheet, manuals, layouts and safety plans documentation.
- The inventory can have associated a list of preventive task than needs to be executed following the periodicity applied.
- Creation and execution of corrective / preventive task
- Monitoring (Sensors) for performance and assets' management



#### 2. Pilot identification & access



Click on Pilot - Select "Viewer"

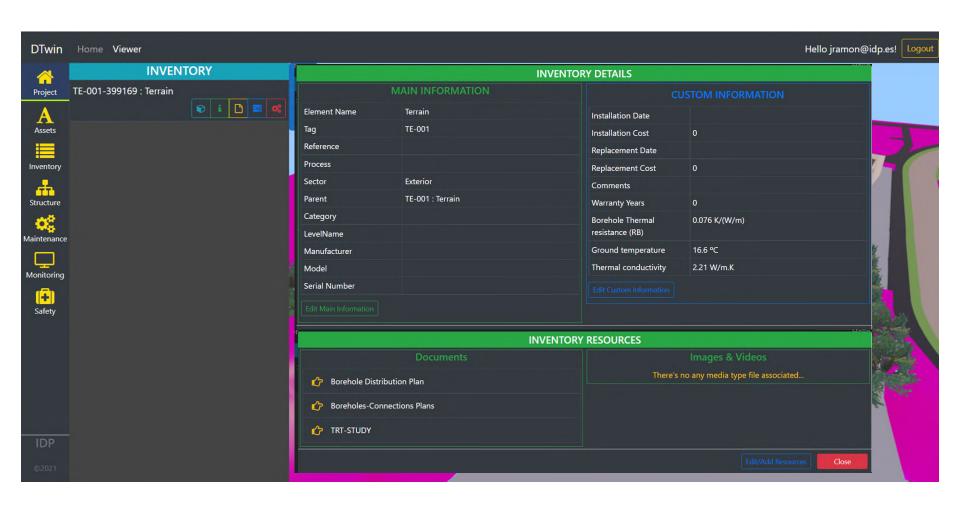


# 3. 3D Viewer: Controls & Navigation



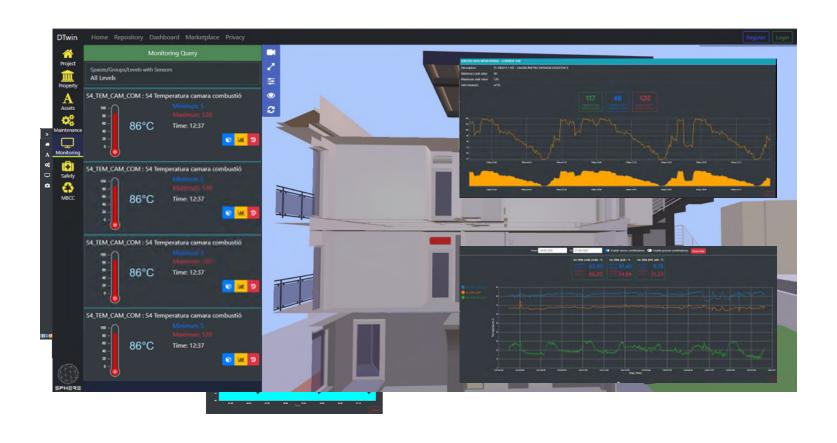
### 4. 3D Viewer: Inventory & Assets

Further Inventories: Geothermal Information





### 5. 3D Viewer: Monitoring



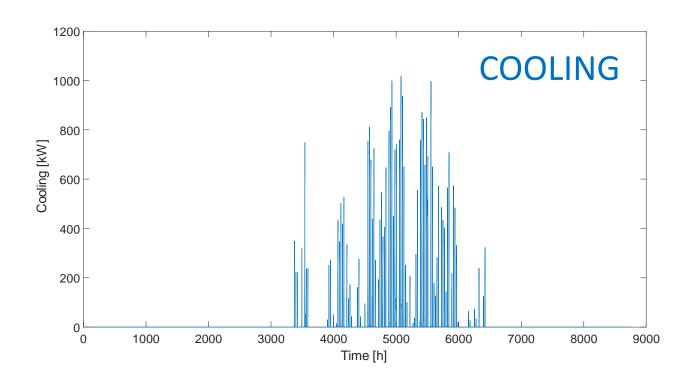


#### 5. 3D Viewer: EcoScada



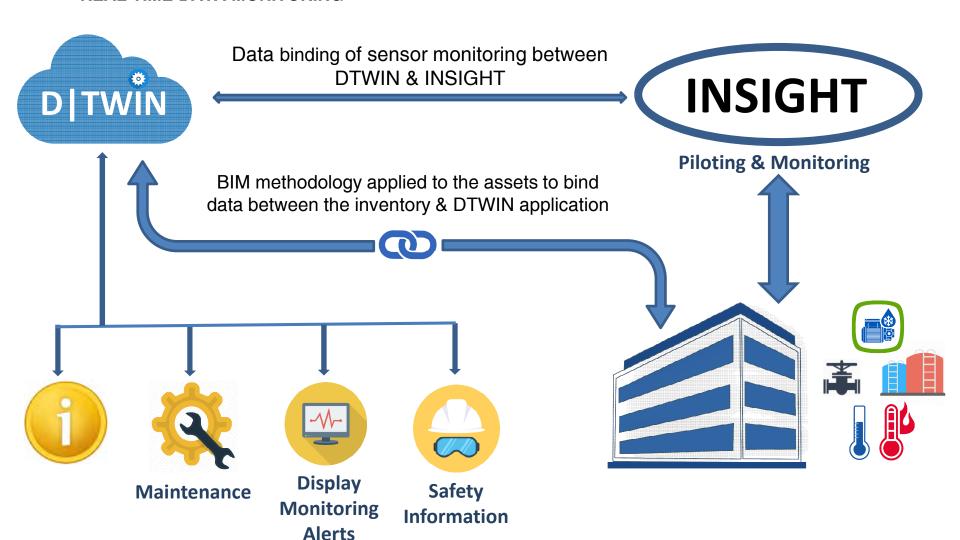


#### **ENERGY DEMAND CALCULATION**



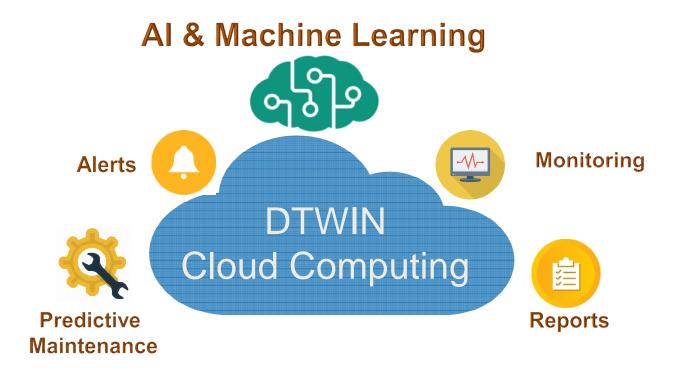


#### **REAL TIME DATA MONITORING**





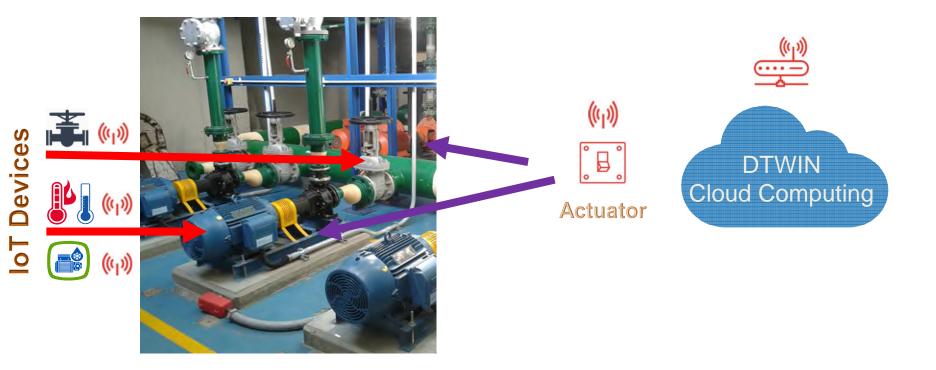
#### OTHER INTEGRATED SERVICES





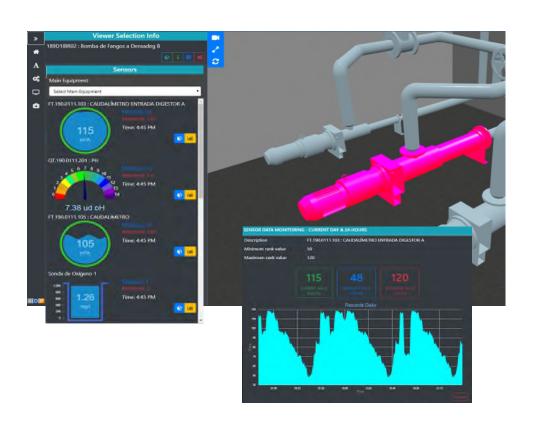


**OTHER INTEGRATED SERVICES** 





#### **OTHER INTEGRATED SERVICES**





# Thank you for your attention



Your WP6 team

