

P-EDMS 3D VISUALIZATION VIA UPV

USER TRAINING GUIDE

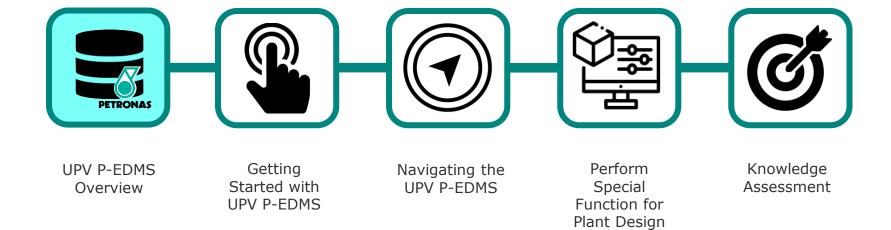
Presentation to DD.MM.YY



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UPV P-EDMS OVERVIEW





Benefits of using 3D model

Visualization

• It provide a visual representation of the plant operation, enabling operators to better understand the layout, equipment placement, and overall structure.

Designing

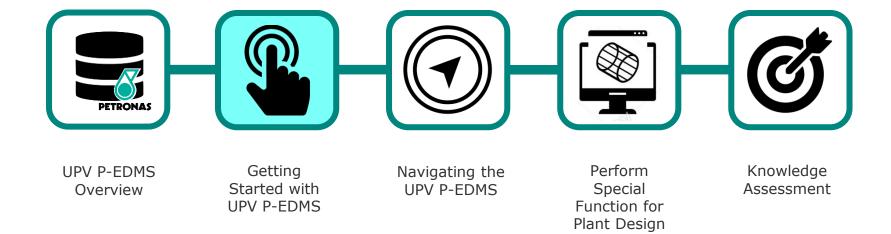
Engineers have the ability to do sketch on 3D model and planning for EMOC

Training

 serve as valuable training tools for operators, allowing them to familiarize themselves with plant layout, equipment, and processes in a virtual environment. This helps in reducing training time and costs while improving operator competency and safety.



GETTING STARTED WITH UPV P-EDMS

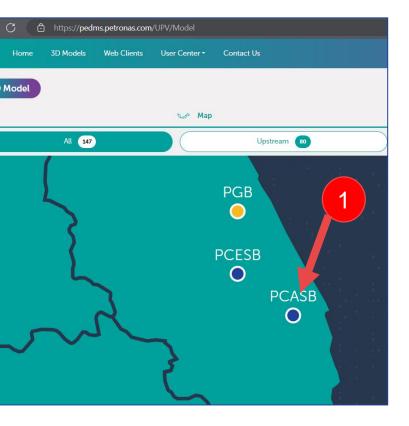


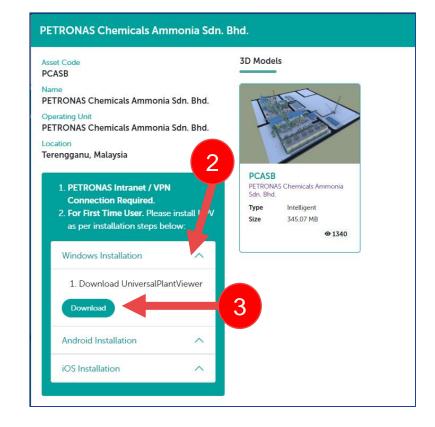


DOWNLOAD (FIRST TIME USER)

For First Time Desktop User

- 1. Navigate to PEDMS homepage https://pedms.petronas.com/UPV/Model and click at any OPU/project site that you want to access
- 2. Expand "Window Installation" on left panel
- 3. Click Download



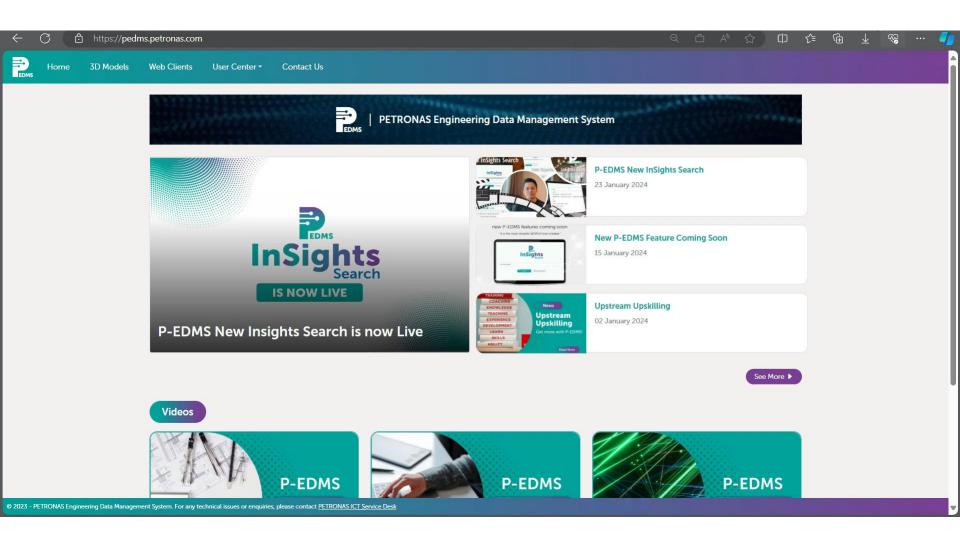




Open

DOWNLOAD (FIRST TIME USER)

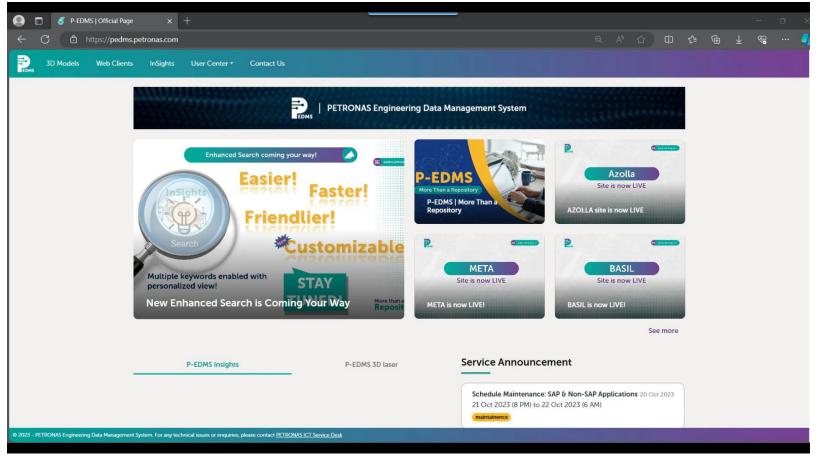






To login PEDMS UPV PEDMS 3D MODEL

- 1. Open a Microsoft Edge browser window.
- 2. Enter the URL P-EDMS | Official Page (petronas.com) > Click at 3D Models on menu bar
- 3. Click PEDMS(or any model)
- 4. Click Open CAXperts Universal Plant Viewer



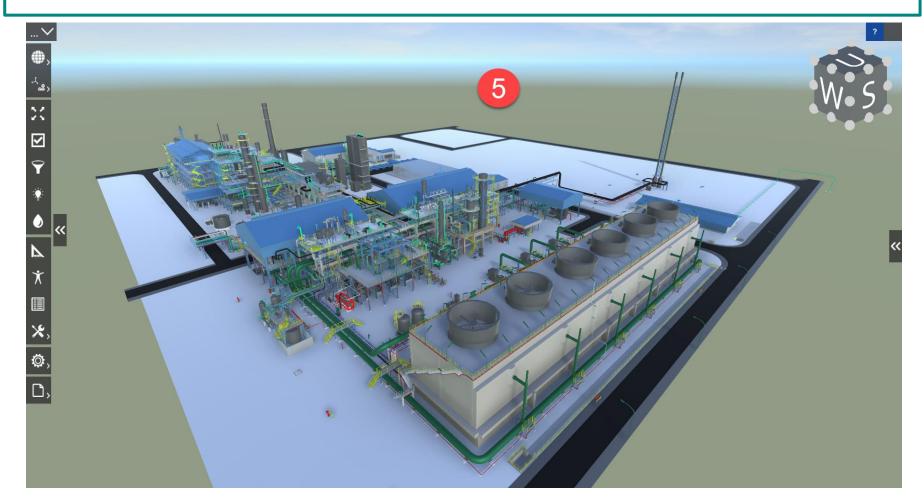


LOG IN PEDMS PEDMS 3D MODEL



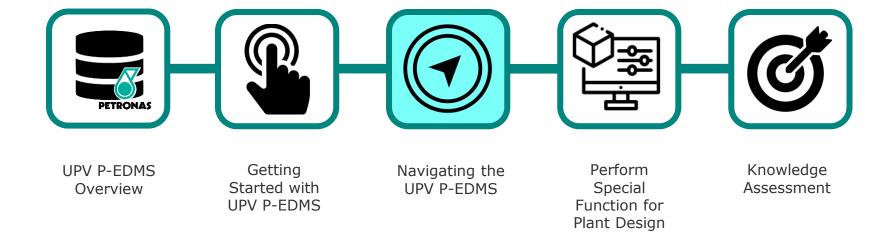
To login PEDMS PEDMS 3D MODEL

5. Universal Plant Viewer will automatically launch on your desktop.





NAVIGATING THE UPV P-EDMS





INTRODUCTION TO THE GRAPHICAL INTERFACE







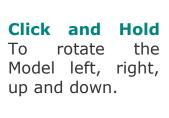


Click and Hold

To rotate the Model left, right, up and down.

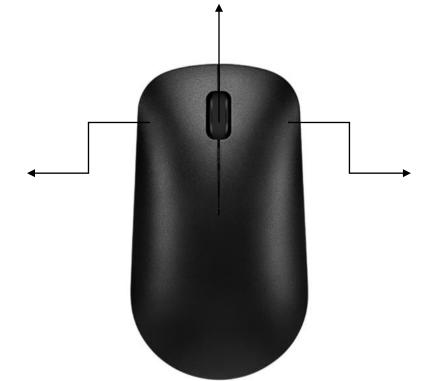
Scroll Up and Down

To zoom in and out.



Double Click

To center the selected object.



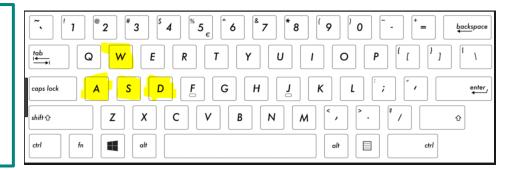
Click and Hold To zoom in and zoom out.

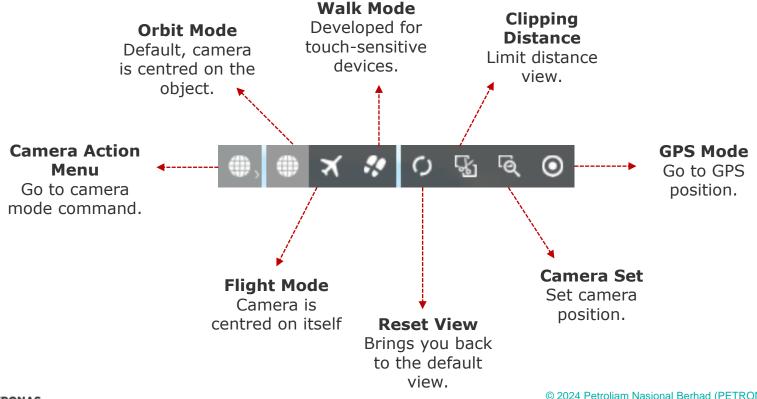


CAMERA MODES

Camera Movements

Notes: Navigate the camera with click and drag on your mouse, W, A, S, D, and the arrow keys on your keyboard and one to three fingers on your touch-sensitive device. Select an object by clicking on it. Centre it with a double click. The camera will rotate around the selected object.







Corner on Screen

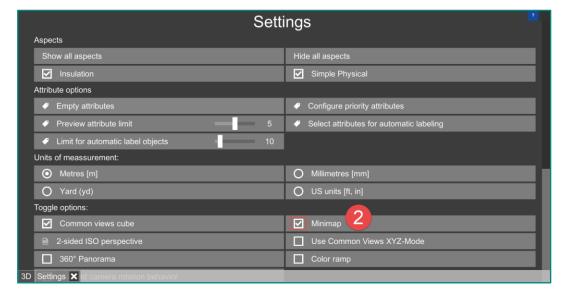
Add Mini Map to Lower Right

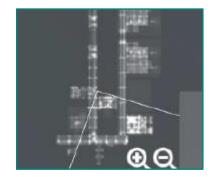
- 1. Click Settings Action Menu Button > click open settings tab.
- 2. Tick 'Minimap' under toggle options at settings menu to quickly navigate through your model.

Notes: Move (left mouse button) and rotate (right mouse button) the camera, zoom in and out with the magnifying glass icons and adjust the camera's height with the bar on the right. By default the mini map is switches off.



Open settings tab









UI Options

- 1. Click Settings Action Menu Button > click open settings tab.
- 2. Adjust your 'UI scale' under UI options at setting menu.

Notes: Click 'Reset UI scale' brings you back to the default UI scale.

3. Adjust your 'Attribute font size' under UI options at setting menu.





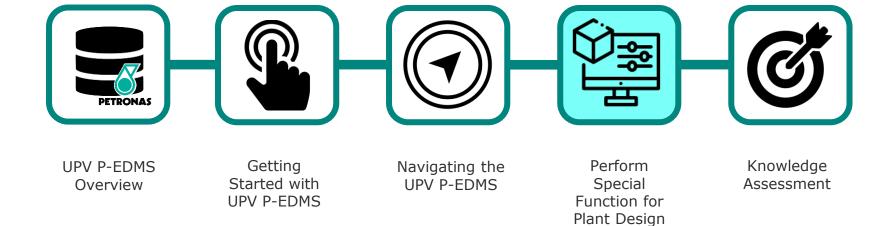








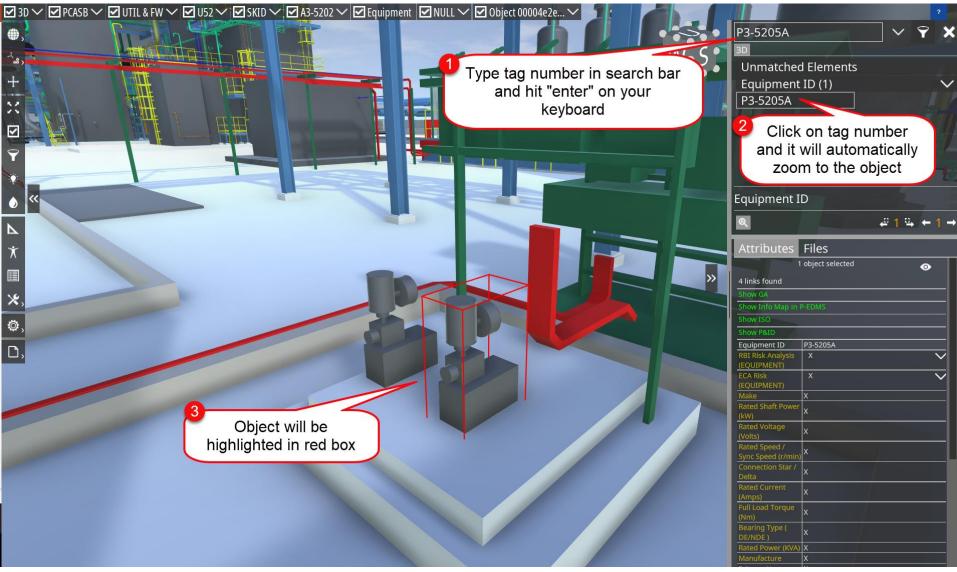
PERFORM SPECIAL FUNCTION FOR PLANT DESIGN





SEARCH FOR TAG (EQUIPMENT)







SEARCH FOR TAG (EQUIPMENT)

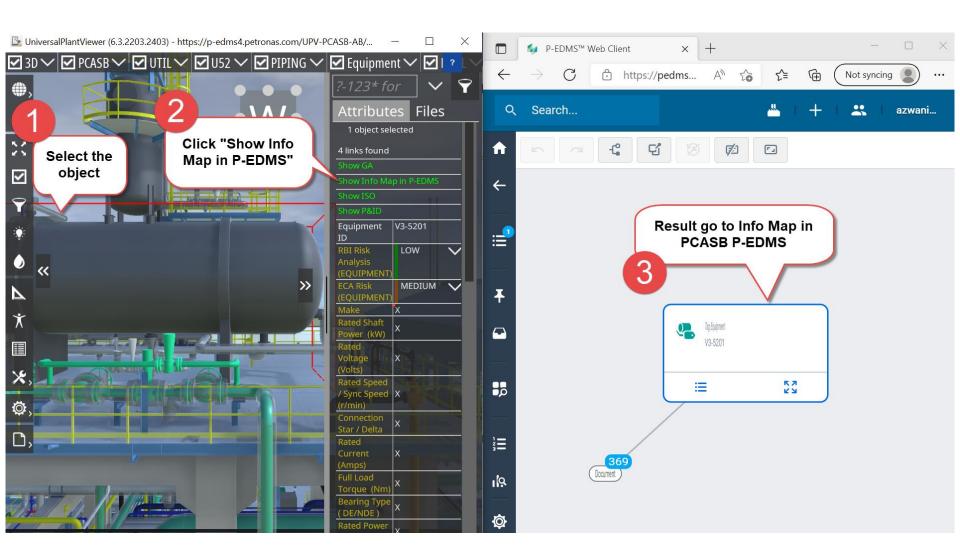






LINKING WITH TECHNICAL DOCUMENT

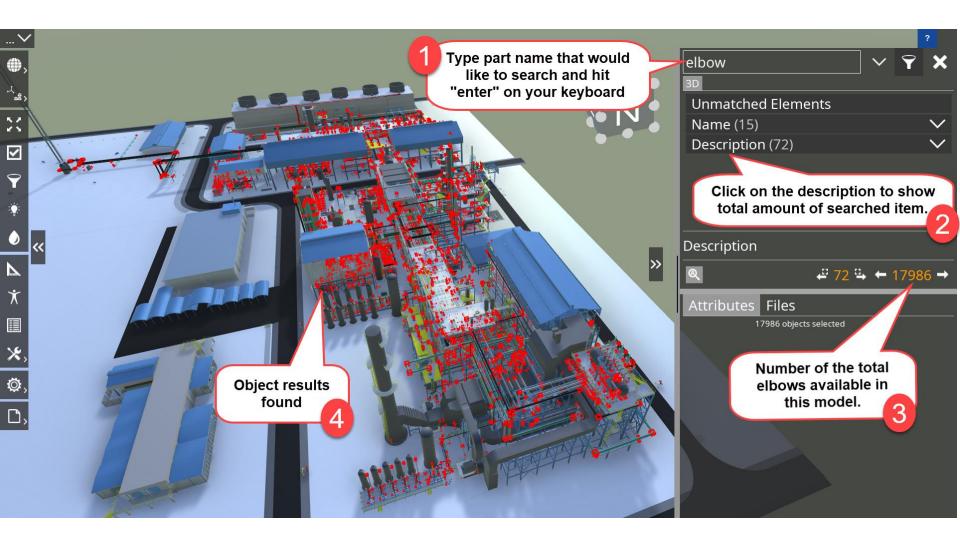






SEARCH FOR PART (ELBOW)







SEARCH FOR PART (ELBOW)

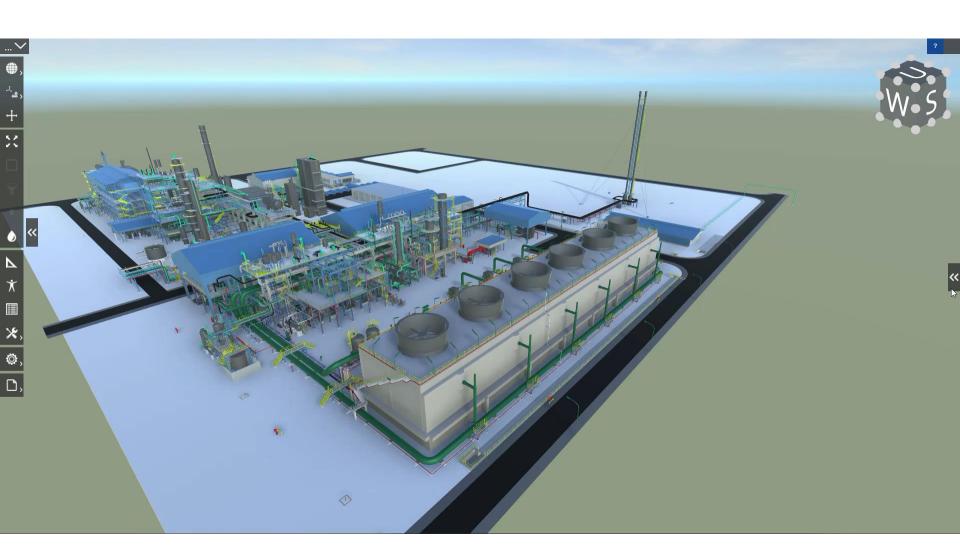








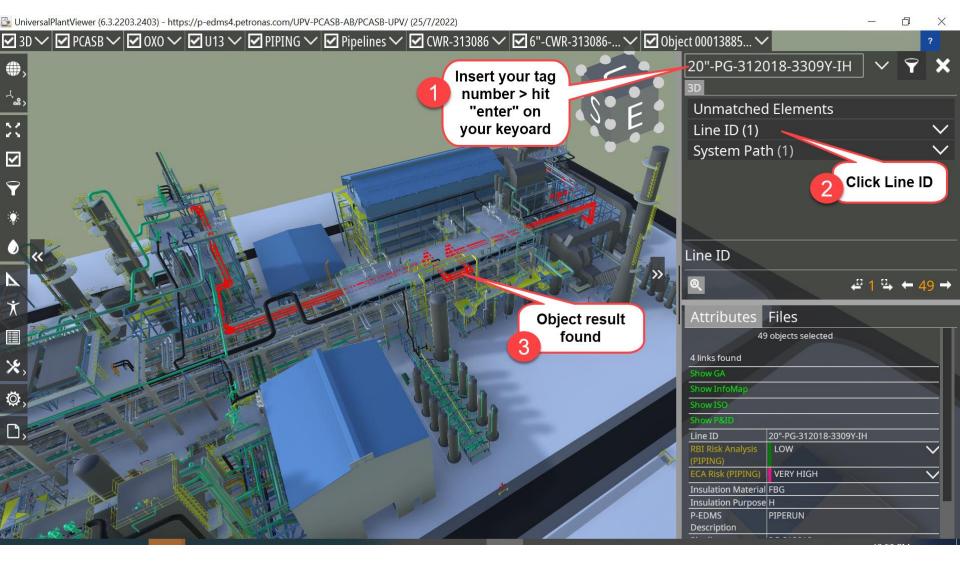






SEARCH FOR TAG (PIPING)







SEARCH FOR TAG (PIPING)

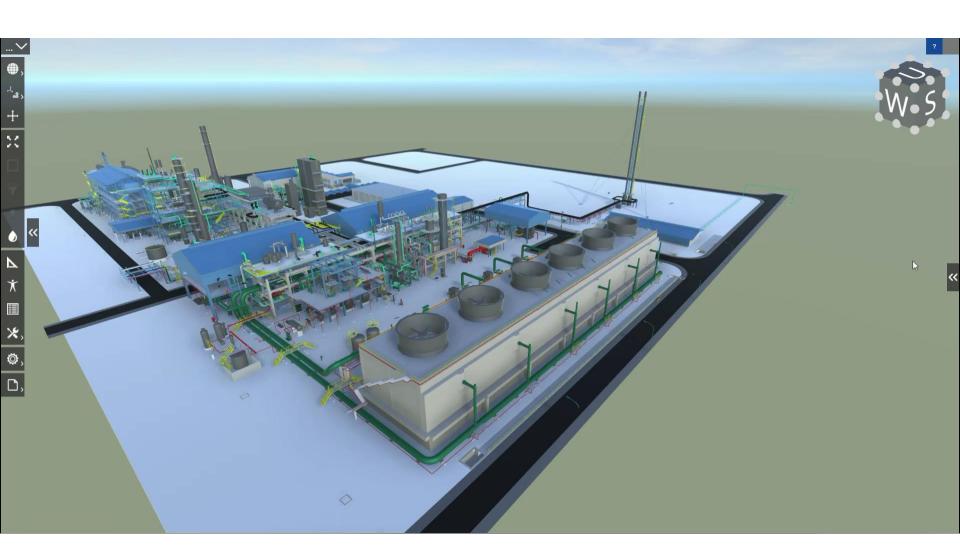










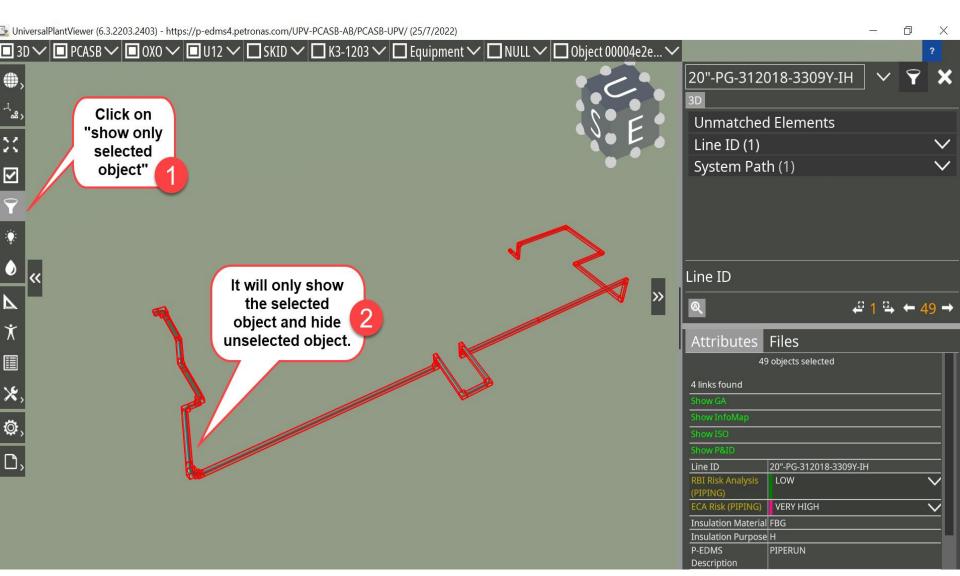




Open

SHOW SELECTED OBJECT







SHOW SELECTED OBJECT

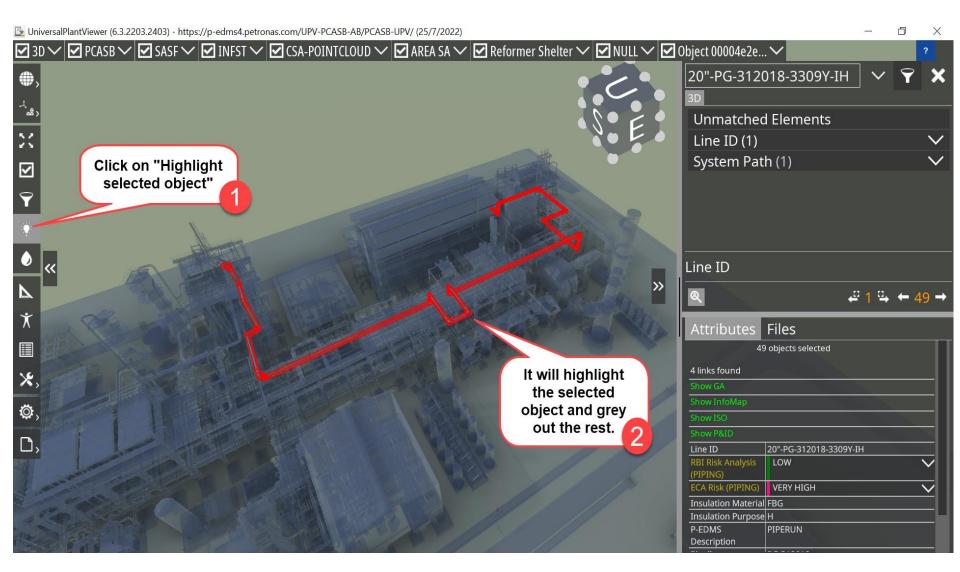






HIGHLIGHT SELECTED OBJECT

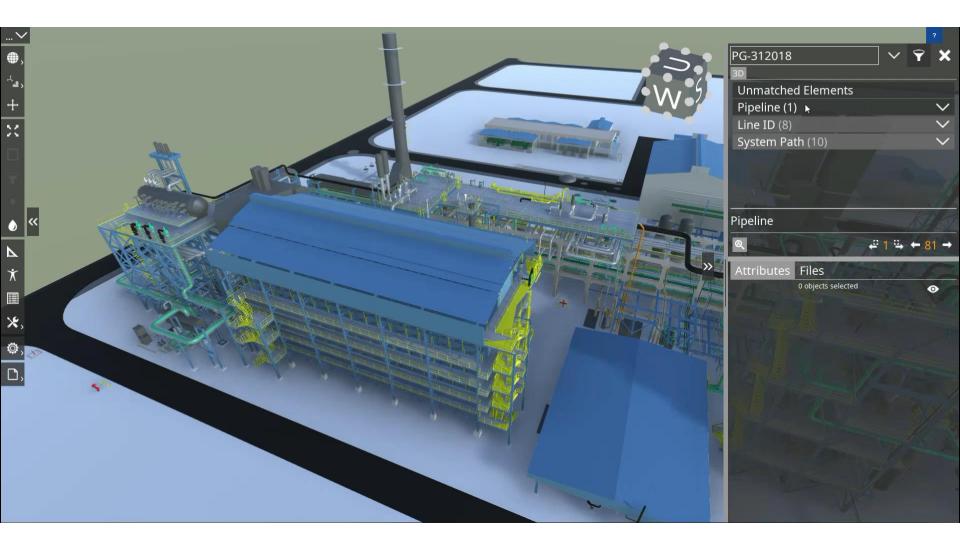






HIGHLIGHT SELECTED OBJECT









COLOUR OBJECT

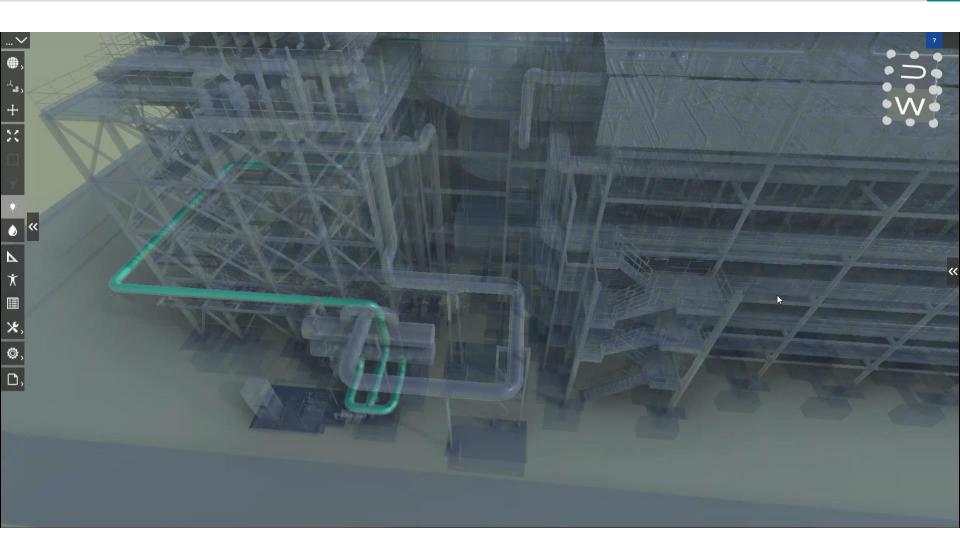








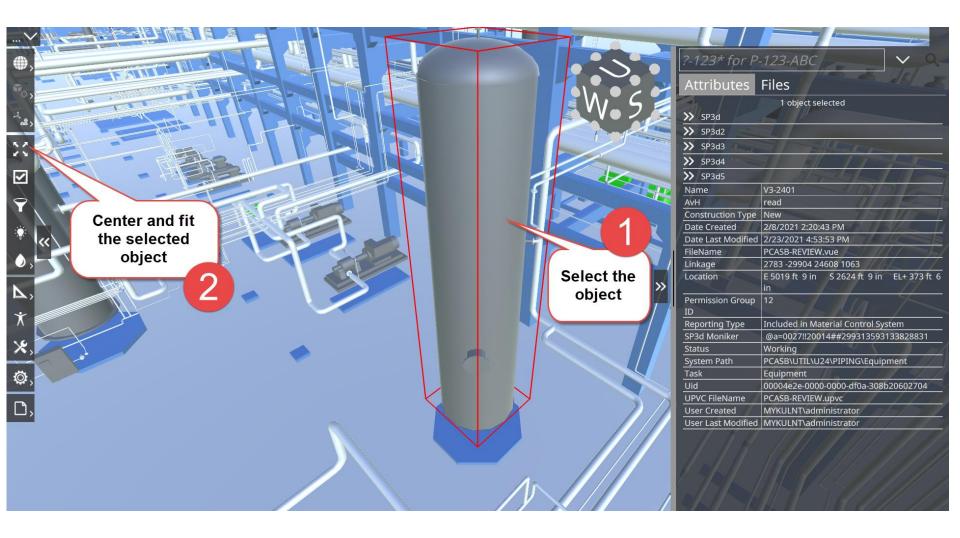






CENTER & FIT OBJECT



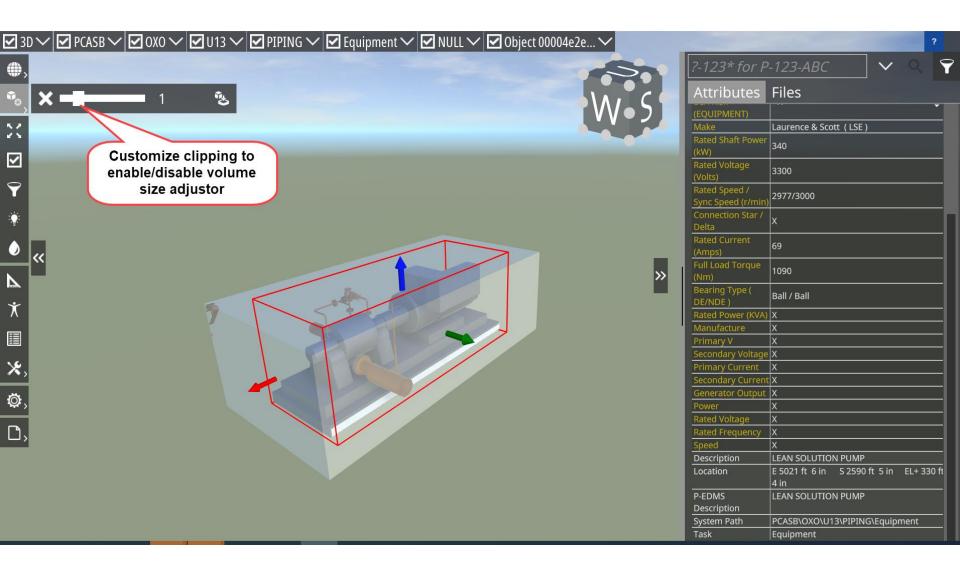






CLIPPING OBJECT (Volume Clipping)

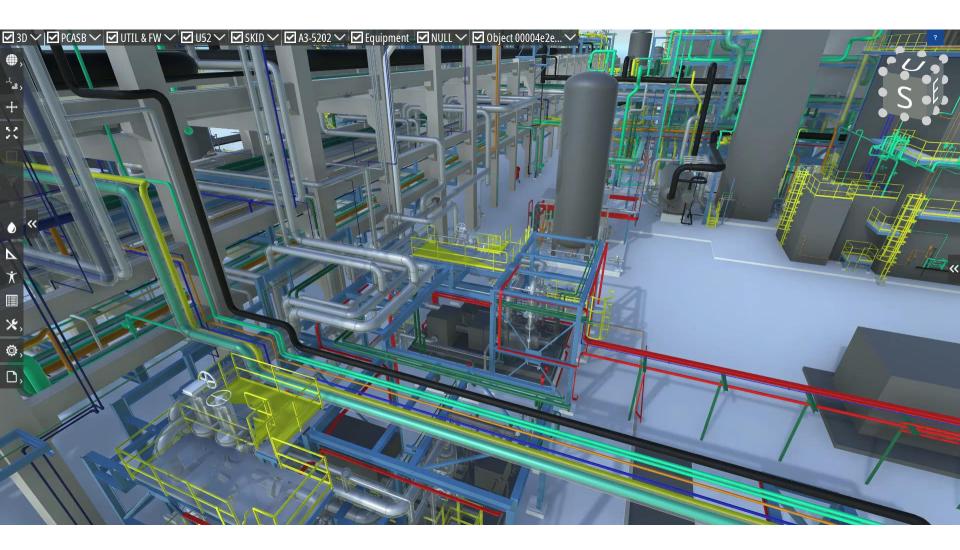






CLIPPING OBJECT (Volume Clipping)

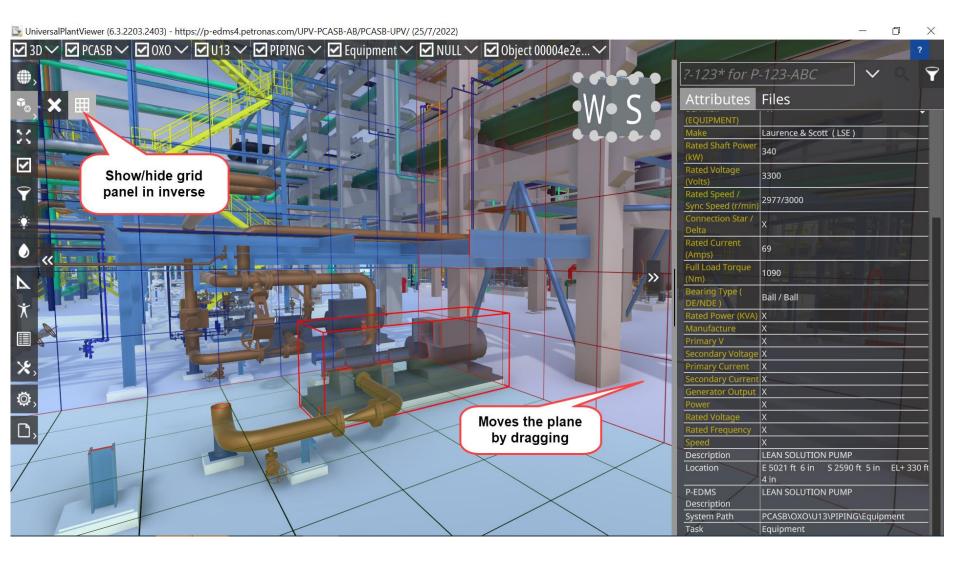






CLIPPING OBJECT (Inverse Clipping)

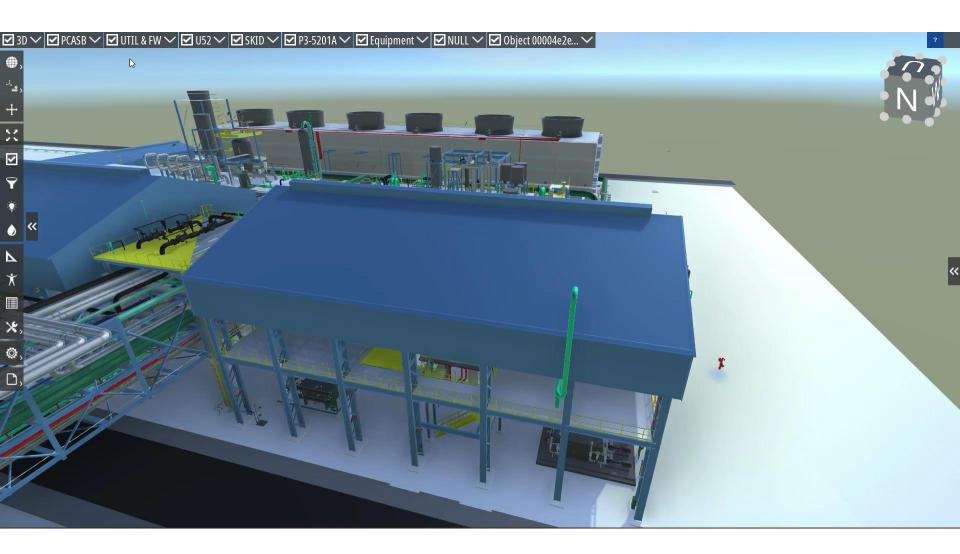




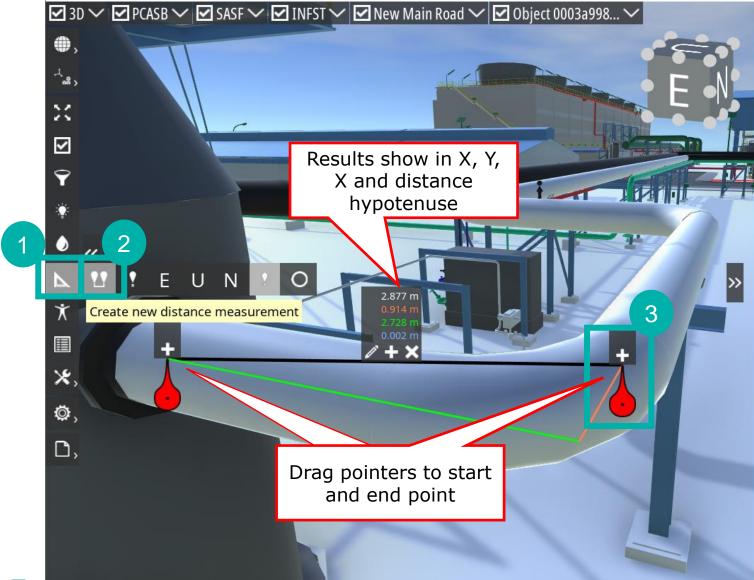


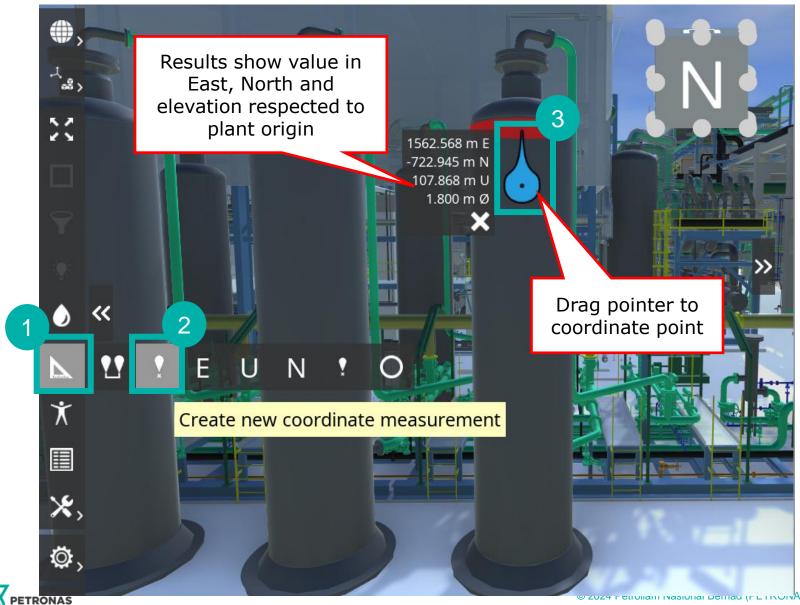
CLIPPING OBJECT (Inverse Clipping)











AVATAR NAVIGATION



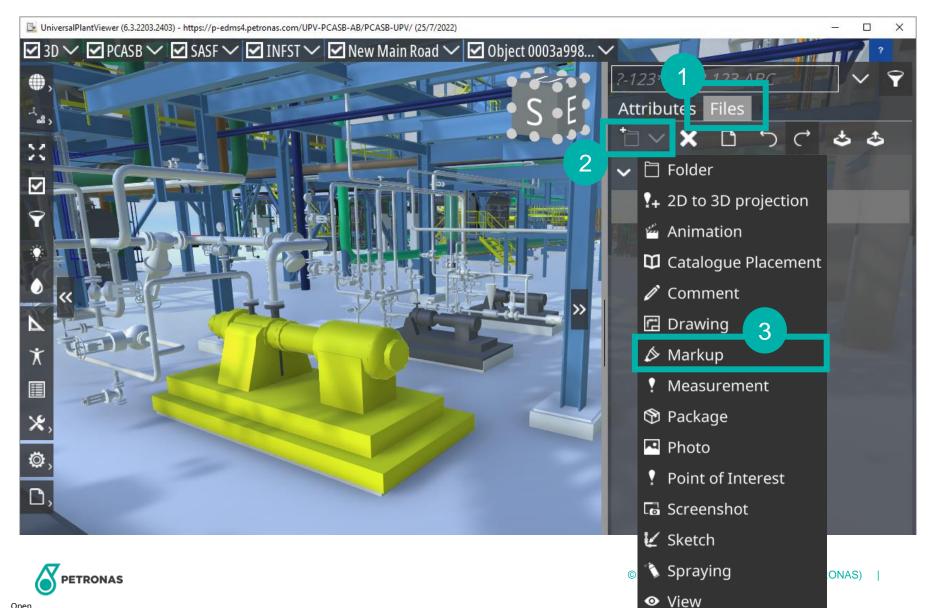


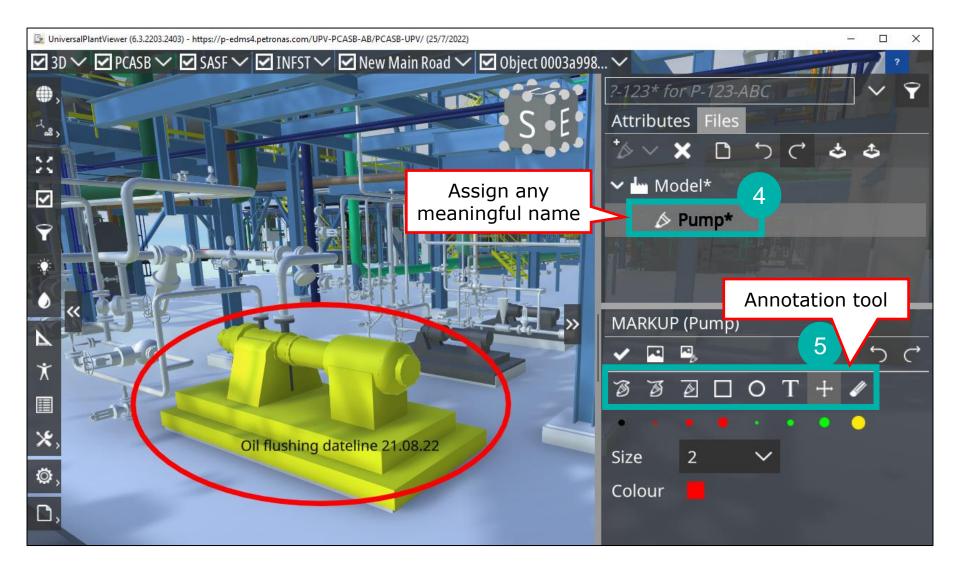
PETRONAS







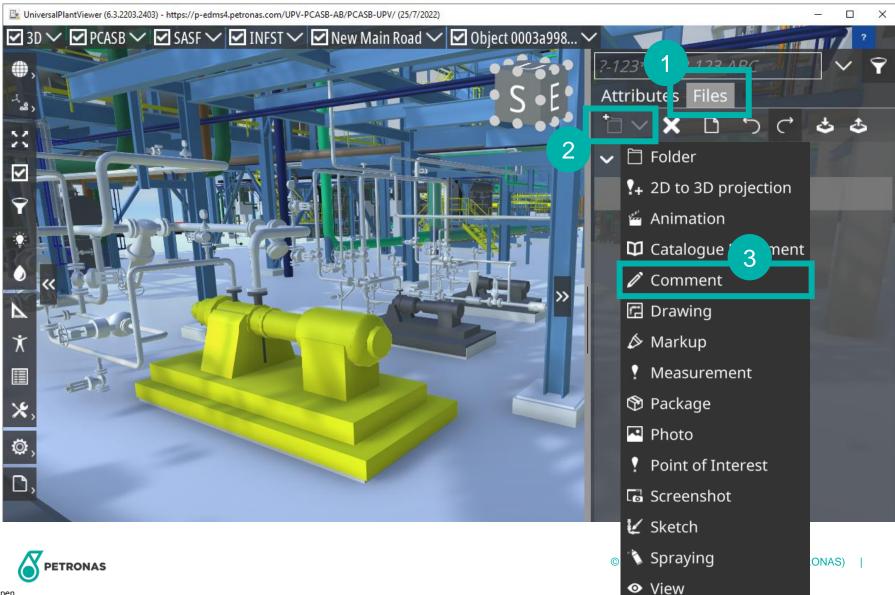












COMMENTING



5.3.2203.2403) - https://p-edms4.petronas.com/UPV-PCASB-AB/PCASB-UPV/ (25/7/2022) ✓ ✓ SASF ✓ ✓ INFST ✓ ✓ New Main Road ✓ ✓ Object 0003a998... ✓ ?-123* for P-123-ABC Attributes Files **∨ -** Model* / leaking* plan for TA / Leaking* Comment 6 COMMENTS 100.63 agging ID: lepe Line ID: 10"-/ M-313023-3309Y-NI Description: PE,CS,ASTM A312-TP304L(SEAMLESS/WELDED Drag pointer to exact location of comment

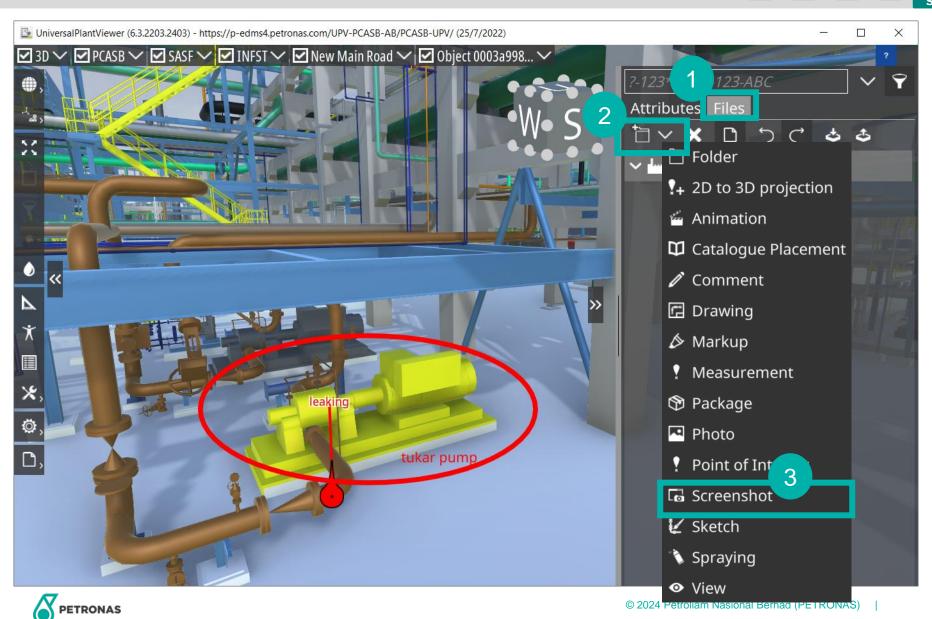






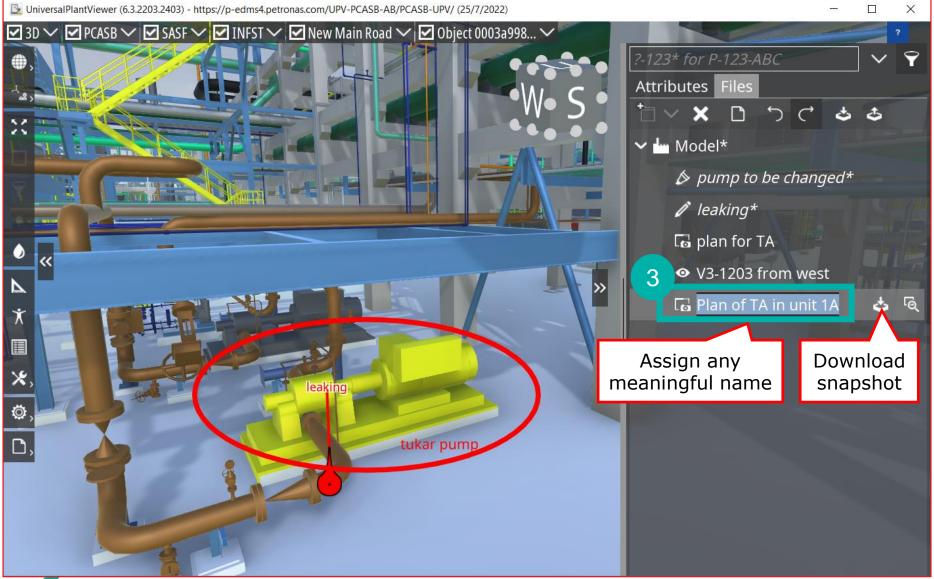


CREATE SNAPSHOT



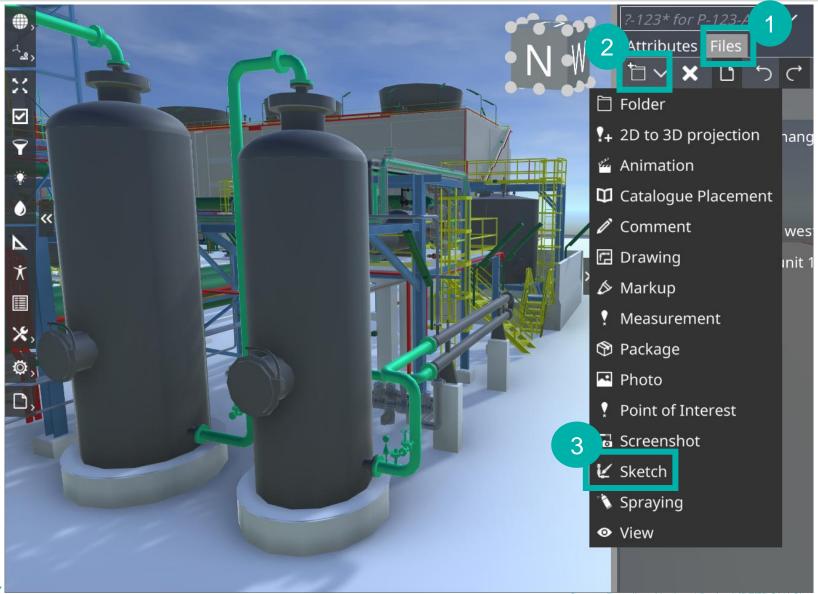
CREATE SNAPSHOT





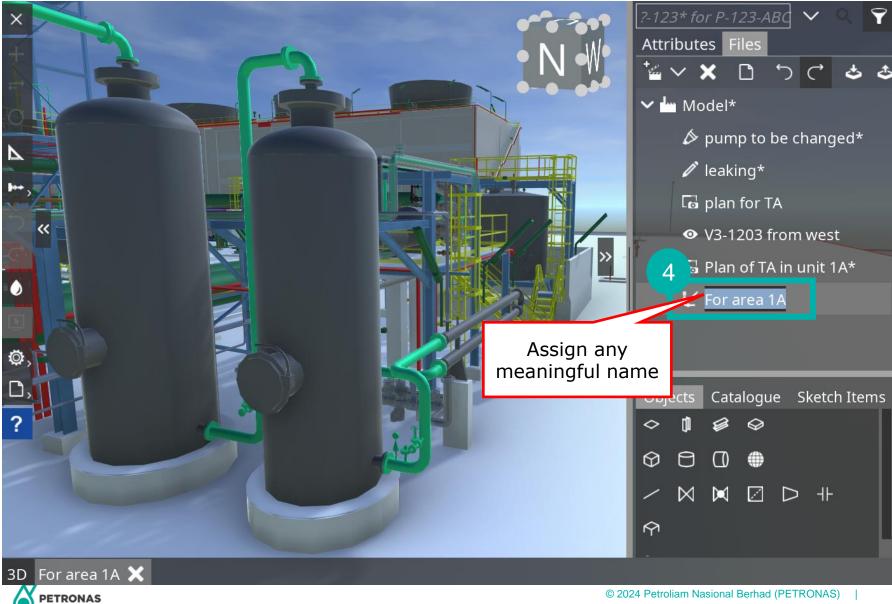
SKECTH CONCEPTUAL DESIGN





SKECTH CONCEPTUAL DESIGN

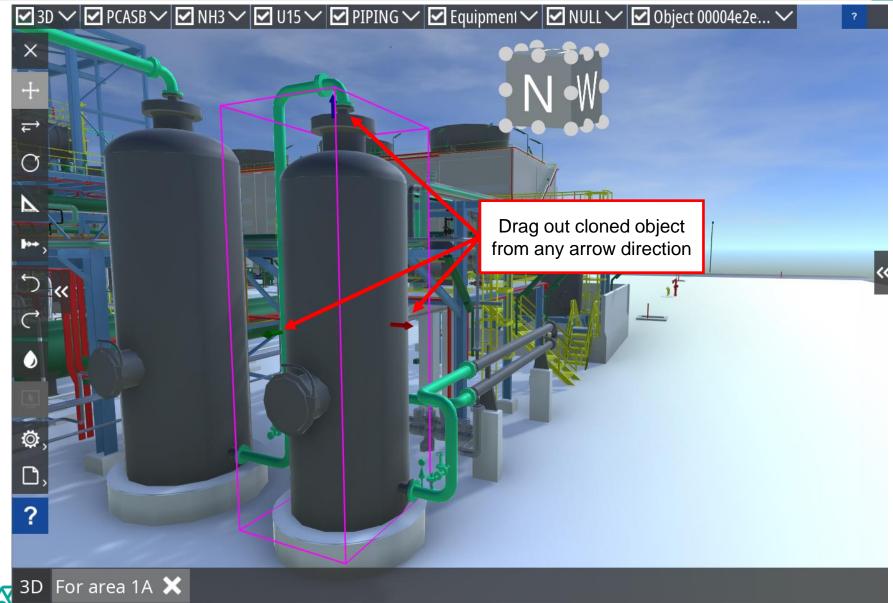






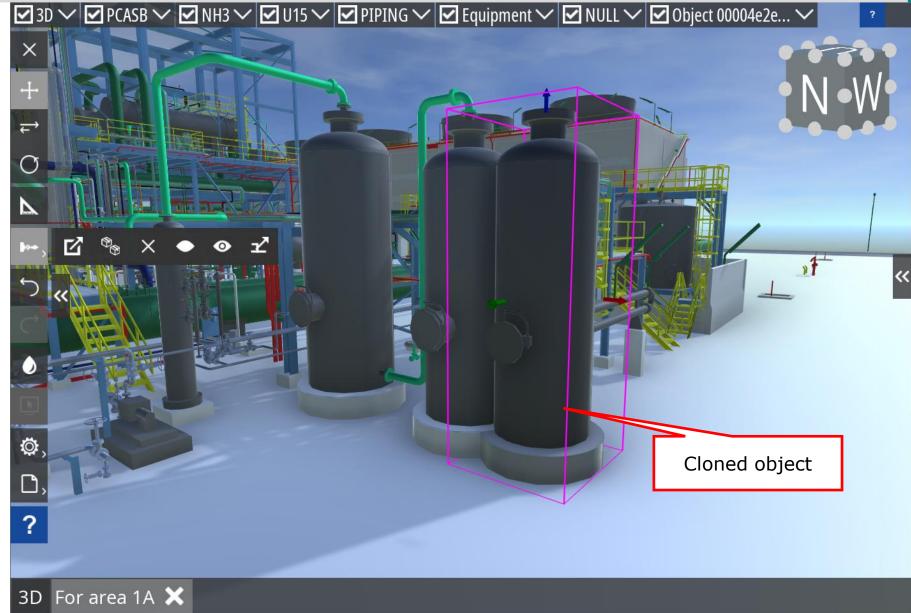
SKECTH CONCEPTUAL DESIGN (CLONING)





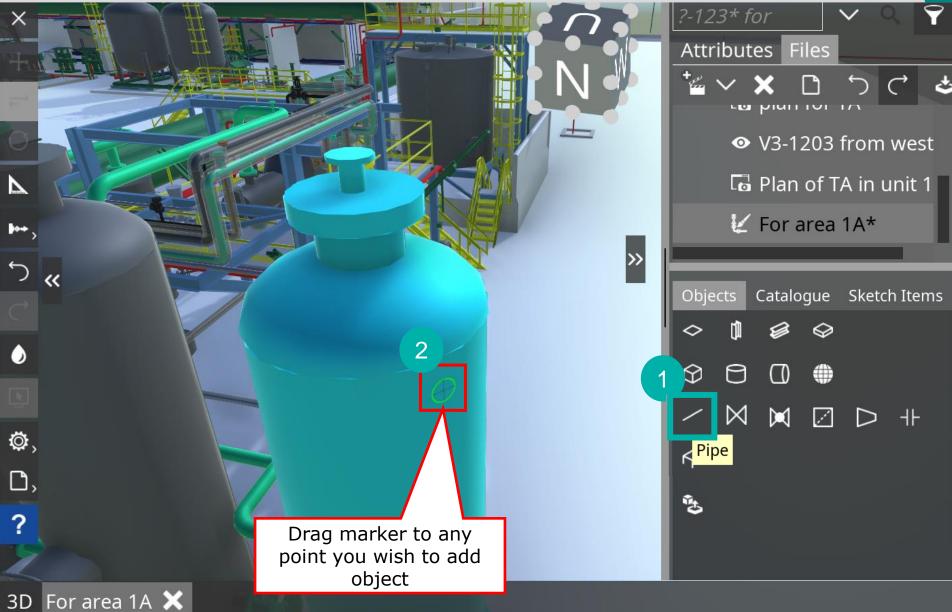
SKECTH CONCEPTUAL DESIGN (CLONING)





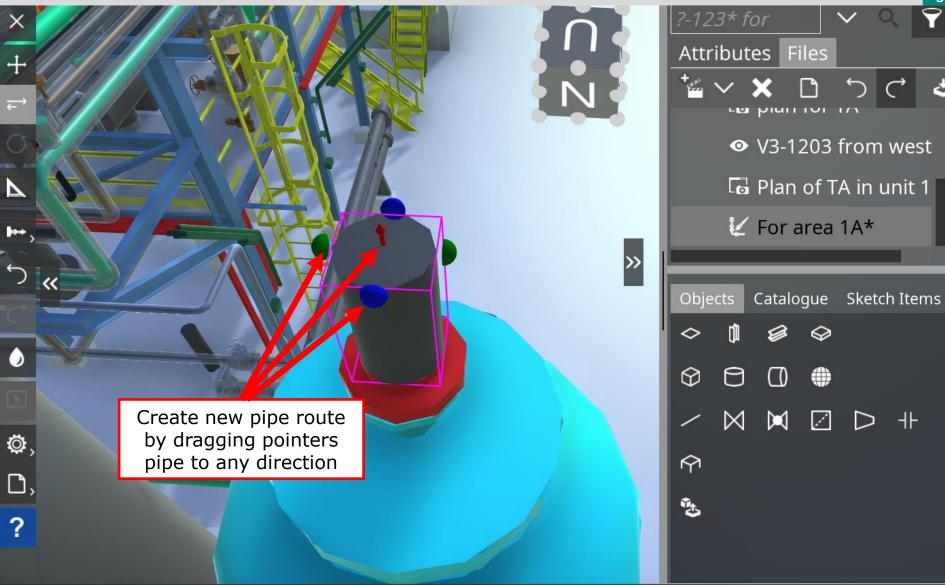
SKECTH CONCEPTUAL DESIGN (NEW PIPE ROUTING)





SKECTH CONCEPTUAL DESIGN (NEW PIPE ROUTING)





For area 1A 🗶

SKECTH CONCEPTUAL DESIGN

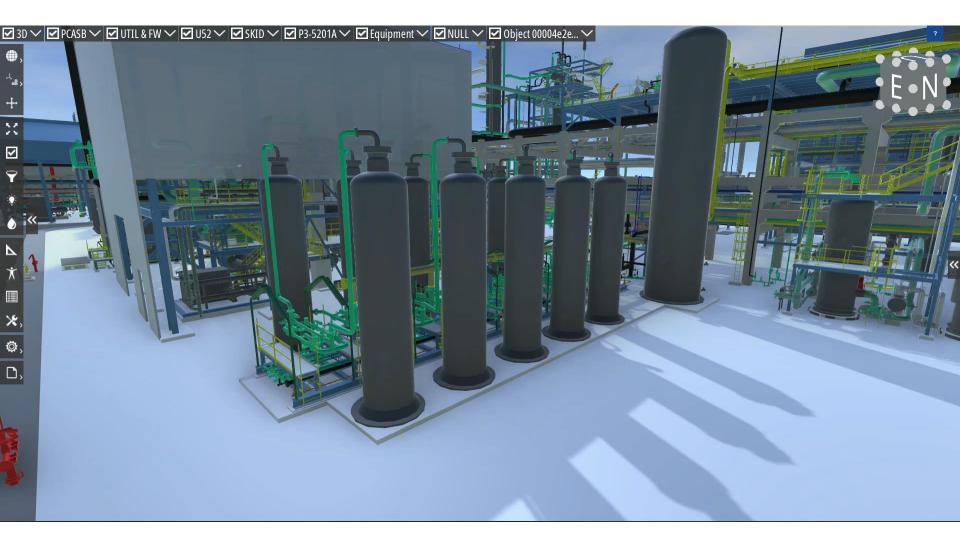






SKECTH CONCEPTUAL DESIGN (CLONING)

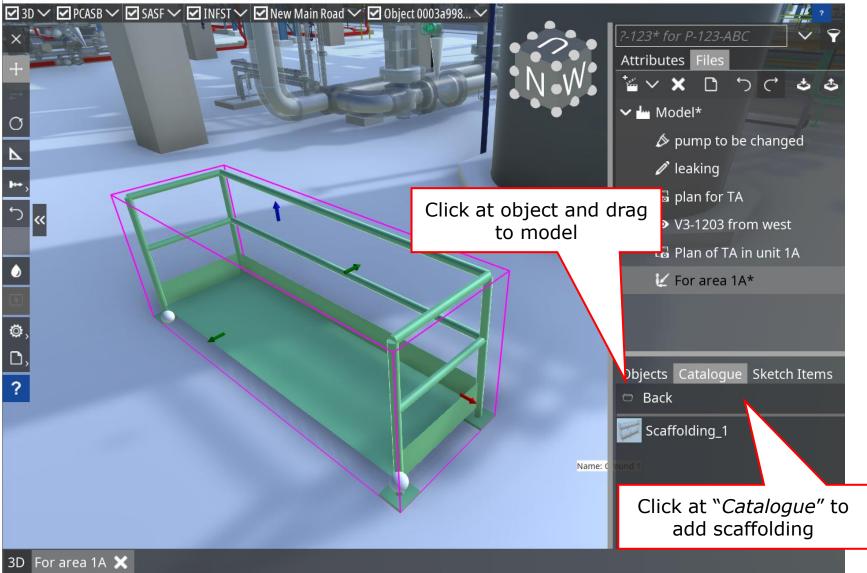






ADDING OBJECT FROM CATALOGUE







ADDING OBJECT FROM CATALOGUE







REPORT







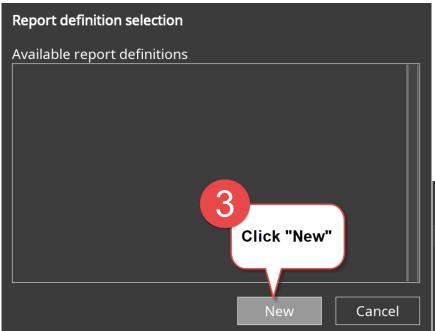


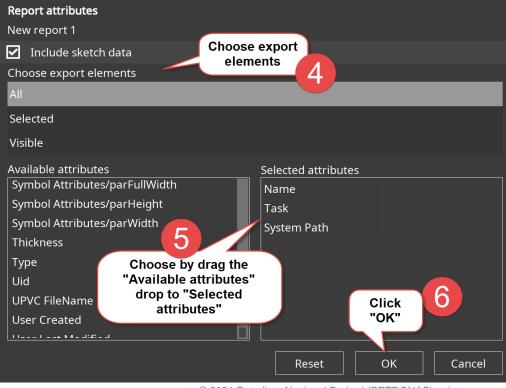


Open

REPORT



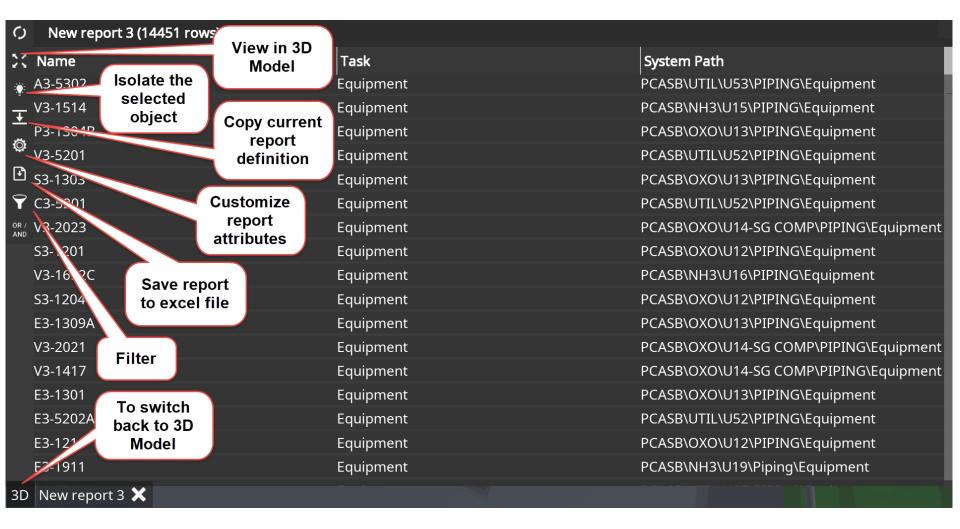






REPORT

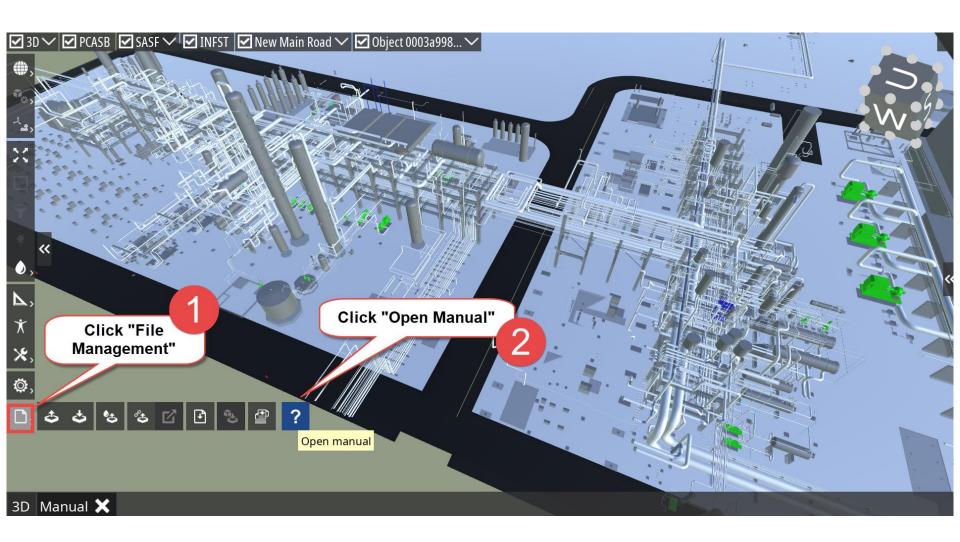






UPV MANUAL







PEDMS SUPPORT SERVICE CENTER



SMART SOLUTIONS

PETRONAS Engineering Data Management System





ict.servicedesk@petronas.com.my



Thank you for your passion!

