

# ResInsight Advanced User Course Q2 2023

## Agenda

- 1. Welcome, course layout and introductory remarks
- 2. Hands-on Exercises
- 3. Summary and feedback





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## Main help page

https://resinsight.org/

#### **Yammer**

Internal Equinor Yammer channel "ResInsight users" https://web.yammer.com/main/threads/eyJfdHlwZSI6IlRocmVhZCIsImlkIjoiNzM3MzA5MDI1MjgwMDAwIn0

#### **Tutorials – introduction**

We have started building a tutorial site for ResInsight. We will use some of these tutorials in addition to some located only on file system in Equinor.

https://github.com/CeetronSolutions/resinsight-tutorials https://www.youtube.com/channel/UCEJoH\_ti1YZXz4hPMeAKMgw

#### Overview of the interface for 3D visualization

https://github.com/CeetronSolutions/resinsight-tutorials/blob/main/tutorials/graphical-user-interface/graphical-user-interface.md

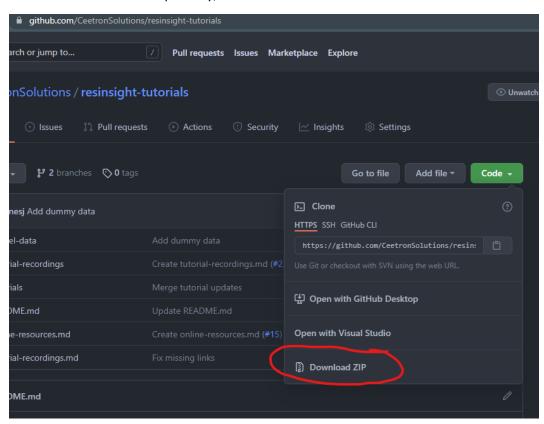




## **Preparations**

Test models used in tutorials are available from <a href="https://github.com/CeetronSolutions/resinsight-tutorials">https://github.com/CeetronSolutions/resinsight-tutorials</a>
The data to be used in tutorials is in the folder **model-data**.

Either clone the GitHub repository, or select "Download ZIP" from the Code menu





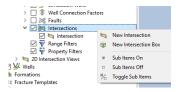


#### Conventions

In this document, **bold text** indicates an object in the property tree. Menu item text is "written in quotes".

#### **Example**

Select "New Intersection" from Intersections.



#### Tips and tricks

Please close the existing project ("File->Close Project") before starting a new tutorial. This will help you to avoid confusion caused by data from previous tutorials.

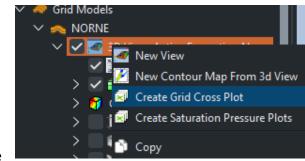




## a) Grid Cross Plot with formations

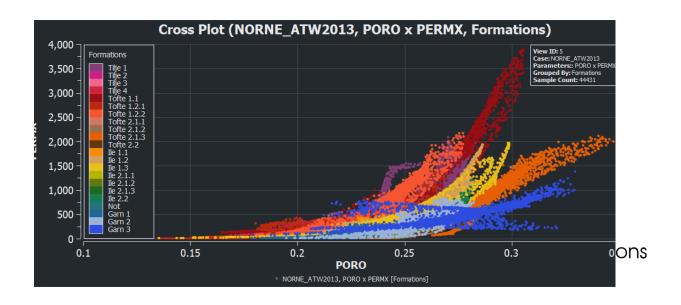
Objective: Create grid cross plot with automated categories based on formations

- 1. Import grid data using "Import Eclipse Case" from folder "model-data/norne"
- 2. Import formations from folder "model-data/norne/Norne\_subZones.lyr"
- 3. In Cell Result, select Static->PORO
- 4. In the **Project Tree**, open the right-click menu of the view, Select "Create Grid Cross Plot". The default **X-Axis Property** is defined by the **Cell Result** in the 3D view, and default **Y-Axis Property** is **Depth** with the Y-axis inverted with increasing values at the bottom of the plot



- 5. Select PERMX as the Y-Axis Property
- 6. Uncheck Invert Axis from the Y-Axis object in Property Editor
- 7. Click in the plot to highlight all samples for a group (Currently not working, will be fixed in next release)

https://resinsight.org/plot-window/gridcrossplots/

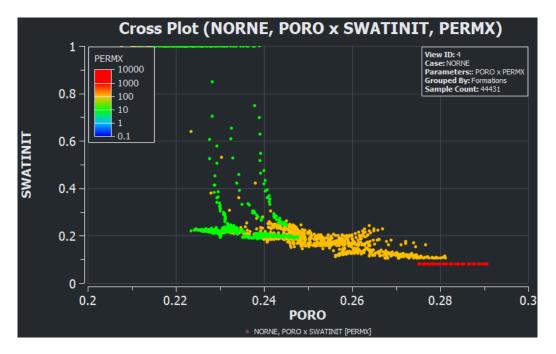




## b) Grid Cross Plot with filtering

## Objective: Create grid cross plot with filtering

- 1. Import grid data using "Import Eclipse Case" from folder "model-data/norne"
- 2. Import formations from folder "model-data/norne/Norne\_subZones.lyr"
- 3. In the 3D view, set Cell Result to Static -> FIPNUM
- 4. In the **Project Tree**, open the right-click menu of the view
- 5. Select "Create Grid Cross Plot"
- 6. Set Static **PORO** as x-axis
- 7. Set Static **SWATINIT** as y-axis
- 8. Set Group Data by "Result Property", select Static -> PERMX
- 9. Select color legend in Project three
  - a. See how manipulation of "Number of intervals" affects the plot
- 10. In the grid cross plot, select Filter by 3D view
- 11. Go back to the 3D view, and create a property filter based on **FIPNUM** 
  - a. Select FIPNUM value 6 the category selection (multiple selection is supported)
  - b. Hide faults to see the filtered grid cells
- 12. Make sure both the 3D view and the plot window are open at the same time. Modify the selected FIPNUM values in the property filter and see how the plot is updated as visible cells in the 3D view changes.
- 13. Right-click the **Cross Plot** in the Plots tree view, and select "Show Plot Data" to see the plot values.





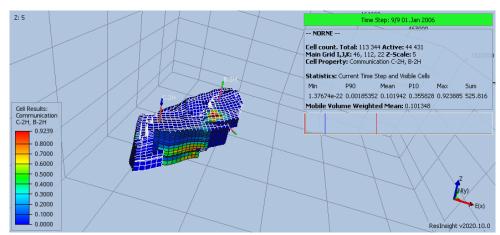


## c) Sector model export

## Objective: Export a subset of the grid based on visible cells

- 1. Import grid data using "Import Eclipse Case" from folder "model-data/norne"
- 2. Move to the last time step as there is no flow at the first time step
- 3. In the 3D view, set Cell Result to Flow Diagnostics
- 4. Select "By Selection"
- 5. Select injector **C-2H** and producer **B-2H**
- 6. Select Injector Producer Communication
- 7. Create a property filter on communication between C-2H and B-2H
- 8. Hide the faults to see the cells
- 9. In the right-click menu in the 3D view, select "Export Eclipse Sector Model"
- 10. Select Export Folder and additional settings, and click **Export** button
- 11. Import the exported data
  - a. Select "Import Eclipse Input Case"
  - b. Select all files exported in the previous step (use multiselect in file dialog)
- 12. Compare the imported data with the original binary case
  - a. Select **PERMX** in both views
  - b. In the right-click menu in the 3D view, activate Compare to

## https://resinsight.org/export/sectormodel/







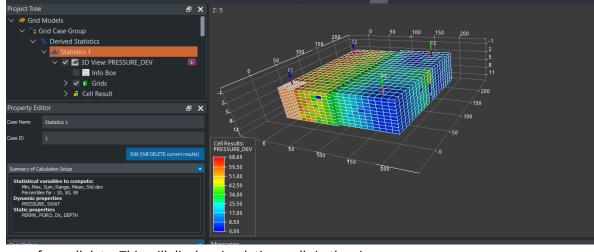
## d) Ensemble Grid Case Statistics

Objective: Import an ensemble of grid cases and compute statistics cell by cell

- Use data located in folder "model-data/grid\_ensemble"
- 2. Import data using "Create Grid Case Group"

  Use the **Find** button to search the folder for files matching the search filter.
  - The imported cases can be investigated in **Source Cases** folder in the **Project Tree**
- In the property panel, click the button "Compute" to compute default statistics
- 4. Select dynamic property **PRESSURE\_DEV**, move to last time step
  - **PRESSURE\_DEV** represents the standard deviation of pressure based on source cases
- 5. Select **Statistics 1**, and in the **Property Editor in group Case Options**, select one of the source cases to use for well data. This will display simulation wells in the view.
- 6. Create a new view and create a property filter
  - a. Select PRESSURE\_DEV (pressure standard deviation) larger than 40
  - b. If you will set the cell result to match the property filter, open the right-click menu of a property filter and select **Apply As Cell Result**
- 7. **[Optional]** Select **Statistics 1**. In the **Property Editor**, click the button "Edit(Will DELETE current result)" Add **PORV** to the list of static variables. The user interface for selection of properties supports multiselect of items by pressing and holding **CTRL** key when clicking items in the list.
- 8. [Optional] Handling of inactive cells (Use Zero as Inactive Cell Value)
  - a. When computing statistics on PRESSURE, it is usually required to leave this option off (total cell count is active)
  - b. When computing statistics on PORO/PERM, it is usually required to enable this option (total cell count is active + inactive)

https://resinsight.org/3d-main-window/casegroupsandstatistics/







## e) Well Log Extraction

Objective: Plot well log extraction curve in 2D plot window

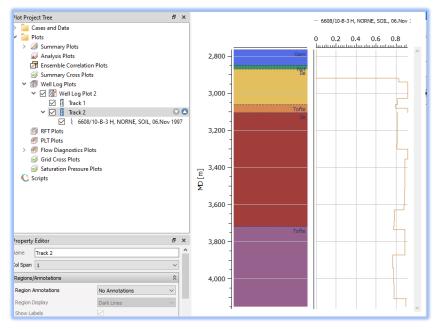
#### 1. In 3D main window

- a. Import grid case from "norne" and import formations from "norne/Norne\_Fm.lyr"
- b. Import well path "model-data/norne-well-logdata/dummy-B-3H.dev"
- c. Select cell result Dynamic -> SOIL
- d. Select well path **DUMMY-B-3H**, and from the right click menu select "Well Plots->New Well Log Extraction Curve"
- e. Activate the plot main window

#### 2. In plot main window

- a. In the project tree, activate right-click menu of the plot and select "New Track"
- b. Select the new track in the Project tree
- c. In the Regions/Annotations group, set Region Annotation to Formations
- d. Make sure Formation Case is set to Norne and Well Path is set to DUMMY-B-3H

https://resinsight.org/plot-window/welllogsandplots/







## f) Well Log Data

## Objective: Plot well log extraction curve in 2D plot window

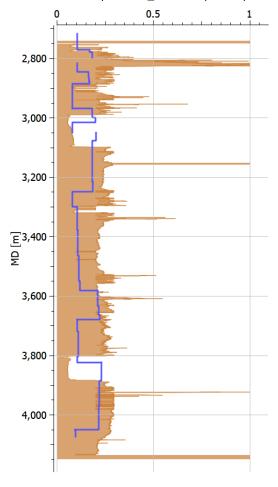
- 1. Import grid case from "norne"
- 2. Import well path "model-data/norne-well-logdata/dummy-B-3H.dev"
- 3. From the right-click menu of well **DUMMY-B-3H**, select "Import Well Logs from File" and select "model-data/norne-well-logdata/dummy-B-3\_H.LAS "
- 4. From the right-click menu of **SW**, select "Add to New Plot"
- 5. From the right-click menu of the track, select "New Well Log Extraction Curve"
- 6. Select Dynamic -> SWAT
- 7. Select the **SW** curve object and enable Area fill. Drag and drop curves to make sure the LAS curve is located at the top of the list and will be drawn behind other curves. You can also toggle the curve visibility to control the drawing order.
- 8. Compare data from the two data sources. They do not have a good match, as the data set contains dummy data

https://resinsight.org/plot-window/welllogsandplots/

## Well Log Plot 1

DUMMY-B-3H, LAS, SW [FRAC], 2011-11-11

— DUMMY-B-3H, NORNE\_ATW2013, SWAT, 06.I





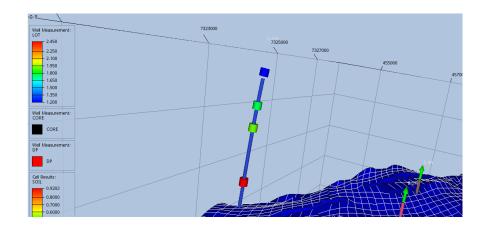


## g) Well Measurements in 3D

Objective: Import well measurements, display in 3D view

- 1. Import norne
- 2. Import formations for norne
- 3. Set Cell Result to Static -> PORO
- 4. Import well paths **C-3H** and **E-3H** from folder "model-data/norne-well-measurements". Use multi-select in the file import dialog to import both in one operation.
- 5. From the right-click menu of **Wells**, select "Import Measurements"
- 6. Show measurements in the view
  - a. Create a new view
  - b. Select Wells in the Project Tree, and disable clipping of wells to be able to see the well path all the way up to the sea surface
  - c. Uncheck Grid Cells and Faults. Optionally uncheck Simulation Wells to make the view cleaner.
  - d. Make sure the checkbox in front of Well Measurements is enabled (Located above Simulation Wells)
  - e. Manipulate the filtering options for each measurement type in the property editor
- 7. Continue to next tutorial without closing the project

 $\underline{https://resinsight.org/wells-and-completions/wellmeasurements/}$ 







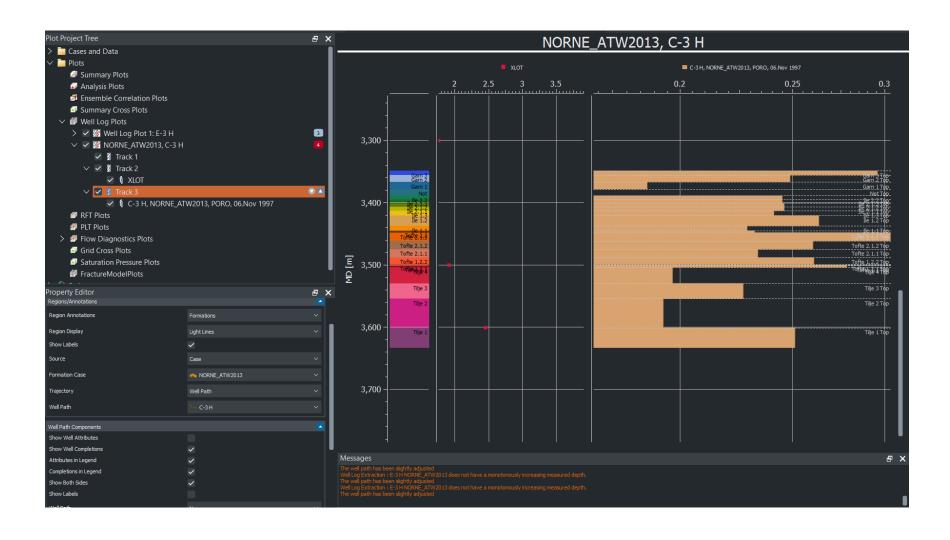
## h) Well Measurements in plots

### Objective: Import well measurements, display in plots

- 1. Import data (see import in previous tutorial or continue with same project)
- 2. Well log extraction curve for well **C-3H** 
  - a. Create a Well Log Extraction curve for C-3H, open the plot window
  - b. Show data for Static -> PORO
  - c. In Curve -> Appearance, set Area Fill Style to Solid Fill
- Create measurement track
  - a. Create a new track
  - b. From the right-click menu of the track, select "New Well Measurement Curve"
  - c. Select well C-3H and XLOT
  - d. Use the zoom all button to make sure all measurements are visible, or toggle visibility of curve to make the well measurements visible
  - e. Make the measurement symbols larger
  - f. The measurements are outside the grid, and the depth axis min/max values can be defined in the **Depth Axis** section of the plot or by zoom using **CTRL**+mouse wheel
- 4. Create formation track
  - i. Create a new track
  - ii. From the property editor of the track, in group Region/Annotation, set the Region Annotation to Formations
  - iii. Select case and well path, the formations appear as colors in the track
  - iv. Change the color legend to the same as the formations, usually "Category"
- 5. Use the up/down arrow to the right of a track to modify the ordering of tracks
- 6. Add formations as lines to the **PORO** track
- 7. Change the track width distribution
  - a. Set col span to 2 for XLOT
  - b. Set col span to 5 for **PORO** track
- 8. See next page for an example plot











## i) Well Picks

## Objective: Import well picks, display in plots

- 1. Import norne case
- 2. From folder "model-data/norne-well-picks", import well path dummy-B-3H
- 3. Open the file "report.csv" in a text editor to see how the well picks are defined
- 4. From the right-click menu of **Wells**, select "Import well picks" and select "model-data/norne-well-picks/report.csv"
- 5. Create a well log extraction curve, use **PORO**
- 6. Use area fill for **PORO**
- 7. Add a new track for formations
- 8. In Region/Annotations, in dropdown **Region Annotations**, select **Formations**
- 9. In dropdown Source, select Well Picks for Well Path
- **10.** Select **DUMMY-B-3H**
- 11. The well picks are displayed as horizontal lines

https://resinsight.org/3d-main-window/formations/#well-picks

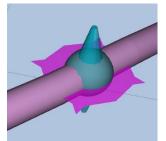




## j) Well Path Creation

### Objective: Create a new well path using well targets

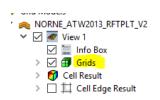
- 1. Import grid data using "Import Eclipse Case" from "model-data/norne"
- 2. Create intersection
  - a. From the right click menu in 3D view, select "Intersections->Polyline Intersection"
  - b. Add points to intersection, and click button "Stop picking points" when you have added all points
  - c. Disable Grids and Faults to see the intersection in the 3D view
- 3. Select "Create Well Path" from right-click menu of Wells
  - a. Click on several locations on the intersection to create target points

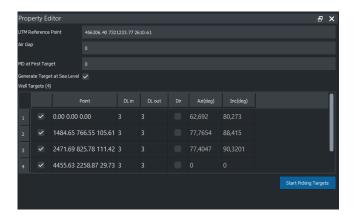


- b. Manipulate the location by using dragger items in 3D
- 4. Investigate data when selecting "Show well plan" from the right-click menu of Well-1
- 5. Export the well path to a text file from **Well-1**, "Export Visible well path". Investigate the exported text file.
- 6. Import the exported well path using "Import Well Path", investigate the potential geometry differences as the exported file is discretized
- 7. Save project, as the created well path is intended to be used in other tutorials

#### Well target move operations

https://resinsight.org/wells-and-completions/createnewwellpaths/#well-target-interaction-operations









## k) Well Path Completions

Objective: Export computed transmissibility factors based on completion along a well path

Continue with the user defined well path from previous tutorial.

- 1. Find a location along the well path inside the grid, and from right click menu when clicking on the well path in 3D view select "Completions->New Perforation Interval"
- 2. From **Well Targets**, select "Export Completions for Visible Well Paths". Create a new folder as destination for the export operation. Open the **Messages** window to see the location of the exported file.

  Inspect the exported file in a text editor and try to match the exported data with the perforation intervals in the 3D view.
- 3. Add one more perforation interval
- 4. Export completions, and investigate exported text file
- 5. Combined export
  - a. Create fracture template
    - i. Select "New Stim Plan Fracture Template" from the right click menu of **Fracture Templates**
    - ii. Import template from "/model-data/norne-well-hydrfrac/StimPlan HydrFrac.XML"
    - iii. Find a location for the template, and launch the right click menu in the 3D view when clicking on the well path geometry
    - iv. Select "Completions->New Fracture"
    - v. Select "3D View"->Fractures"
       Toggle the view if "Fractures" object is missing.
       Select "Result Color->Conductivity [md-ft]"
  - b. Add a fishbones section "Completions->New Fishbones"
  - Export completions, and select File Split "Split on Well and Completion Type"
  - d. Investigate the exported files in export folder

File Edit View Windows Help - d d ll Q & & & ✓ 

MORNE\_ATW2013\_RFTPLT\_V2 ☑ Ø View 1 2D Intersection Views ₩ Wells V V I V UWell-1 Import Well Targets ## Completions Well Plots ✓ ✓ 

Perforations Create Well Path \*\*\* Fracture Templates New Intersection Scripts Export Completion Export Completion Data for Visible Well Paths Property Editor Show Well Plan Export Completion Data for Selected Well Path Create Multiple Fracture Show Well Path Label Create Casing Design Well Path Color Export Well Paths Import Fishbone Laterals Create Temporary I GR X Delete Well Path(s) Memory Used: 338 MiB Total Physical Memory: 32669 MiB

陯 D:/Models/Statoil/!kurs og opplæring/UserCourse2019/Demo1\_3Dviz/norne\_single\_well\_path.rsp - ResInsight - [NORNE\_ATW2013\_RFTPLT\_V2 - View 1]

https://resinsight.org/wells-and-completions/completions/



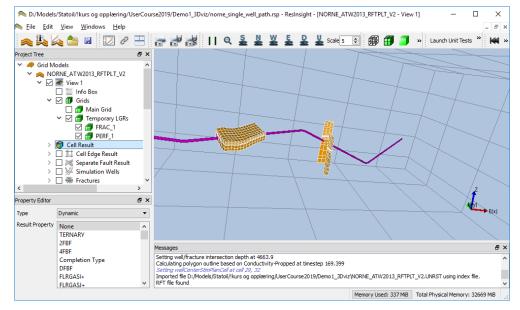


## I) Export LGR for Completions

Objective: Create and export local grid refinement (LGR) based on completions

Continue with the user defined well path from previous tutorial.

- 1. Add two perforation intervals and one fracture to the well path
- 2. In the Wells folder in the Project Tree, select the well you are working on. From right click menu of this well, select "Create Completions->Create Temporary LGRs"
- 3. Export completion data into an empty folder
- 4. Investigate **CARFIN** section in generated file **LGR\_Well-1.dat**
- 5. Untick all filters, and untick Main Grid in the Grids folder
- 6. From right click menu of the well, select "Create Completions->Create Temporary LGRs" and set number of cells in K direction to 5
- 7. Export and Investigate **CARFIN** section in generated file **LGR\_Well-1.dat**
- 8. Add fishbones
- Optional: Possible to create multiple fractures using Stim Plan fracture
  - a. From the right click menu of Well-1, select "Create Multiple Fracture"
  - b. Select "Replace Fractures" and close the dialog
- 10. Use the checkboxes in **Grids** to investigate the generated LGR grids



NB! Please note that the temporary LGRs will not be restored if you save the project and open the project again.

https://resinsight.org/wells-and-completions/completionslgr/



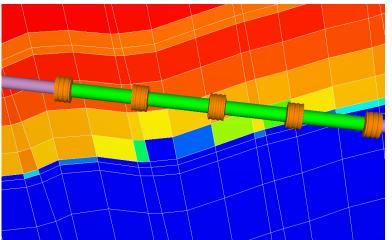


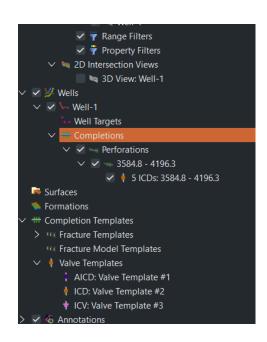
## m) Valve Modeling and Export

#### Objective: Create and export valves

- 1. Create a well or import modeled well path from previous tutorial
- 2. Create a perforation of length 500m
- 3. Add a valve from the right-click menu of a perforation interval
- 4. ICD Export
  - a. Select an ICD template, and click **Edit** for easy navigation to the valve templates
  - b. Set Number of Valves to 5
  - c. Select "Export Completions" from the context menu of the well
  - d. Investigate the exported text files
- 5. Export AICD
  - a. Change valve to AICD template
  - **b.** Set the following values in the **AICD template** 
    - i. Strength of AICD: 1e-5
    - ii. Calibration Fluid Density: 1000
    - iii. Calibration Fluid Viscosity: 1
    - iv. Volume Flow Rate Exponent: 2
    - v. Viscosity Function Exponent: 0.7
  - c. Select "Export Completions" from the context menu of the well
  - d. Investigate the exported text files

https://resinsight.org/wells-and-completions/completions/#perforation-interval-valves









## n) Project file manipulations

Objective: Know how to manipulate selected parts of the project file

- Show path section <ReferencedExternalFiles>
  - Discuss how these can be changed by external scripts
- Show well path targets <WellPathTargets>
  - o Discuss how these can be changed by external scripts
  - Create a copy of the well path target project file
  - Move one target 50 meter in x-direction
  - o Save project as copy with new name
  - Open copy, and investigate the modified location of the well path target
  - o Discuss how to manipulate model from scripting

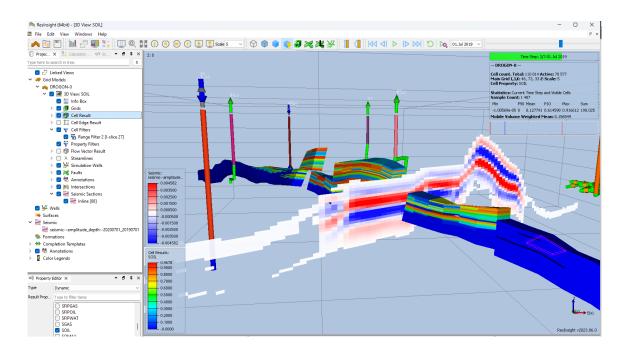




## o) Seismic Data

Objective: Import and visualize seismic data. Compare with reservoir data.

- Import the Drogon grid model from "model-data/drogon/DROGON-0.EGRID"
- Import seismic data from "model-data/drogon/seismic/seismic--amplitude\_depth--20180701\_20180101.vds"
- In the **Project Tree**, toggle off **Grids** to be able to see seismic data (optionally toggle off **Faults**)
- From the right-click menu of Seismic Sections, select "New Inline Section" and investigate seismic data in the view
  - Activate the Seismic Histogram dialog to see the value distribution
  - Click on red and blue parts of the seismic slice to see the associated seismic value in the Result Info dialog, see how the reported values corresponds to the seismic color legend
  - Select the Inline object, and manipulate the Inline value in the Property Editor
- Select the seismic data source, and adjust the mute and clip values to filter seismic data
  - Set Clip Value to 0.003
  - Set Mute Value to 0.001
  - Select the Inline object, expand the Experimental group and activate Transparent
  - Move the inline to see how seismic data correlates to grid model geometry







## p) Seismic Data along a well path

#### Objective: See seismic data along a well path

- Import the Drogon grid model from " model-data/drogon/DROGON-0.EGRID"
- Import seismic data from "model-data/drogon/seismic/seismic--amplitude\_depth--20180701\_20180101.vds"
- Create a user defined well path
- From the right-click menu of Intersections, select "New Intersection". Change intersection type to Well Path, and select the well path
- From the right-click menu of the generated intersection, select "Create as Seismic Section"
- Select the Seismic section, and set it to transparent
- Tile the windows to be able to see both views at the same time
- Show only seismic data in one view and grid model data in the other
- Manipulate the well path targets, and see grid is updated
- Advanced manipulation:
  - o Press and hold CTRL to move the target and all downstream well targets
  - o From the right-click menu in a view, select Compare to





## q) Correlation analysis (taken from ResInsight Intro Course)

Objective: Create and configure a Correlation Plot

- Import a Summary Ensemble, and use import path "model-data/reek\_ensemble/3\_r001\_reek\_50/realization-\*/iter-1"
- From the right-click of a curve, select "Create Correlation Plot from Curve Point -> New Report Plot"
- Click on individual cells in the **Correlation Matrix**, and see how the cross plot is updated Currently selected cell is indicated by a border in green
- Show Pearson calculation
- Change data source to WOPT for all wells OP\_1 to OP\_5
- Click on individual cells in the Correlation Matrix, and see how the cross plot is updated

https://resinsight.org/plot-window/correlationplots/

### Definition of how the Pearson correlation coefficient is computed

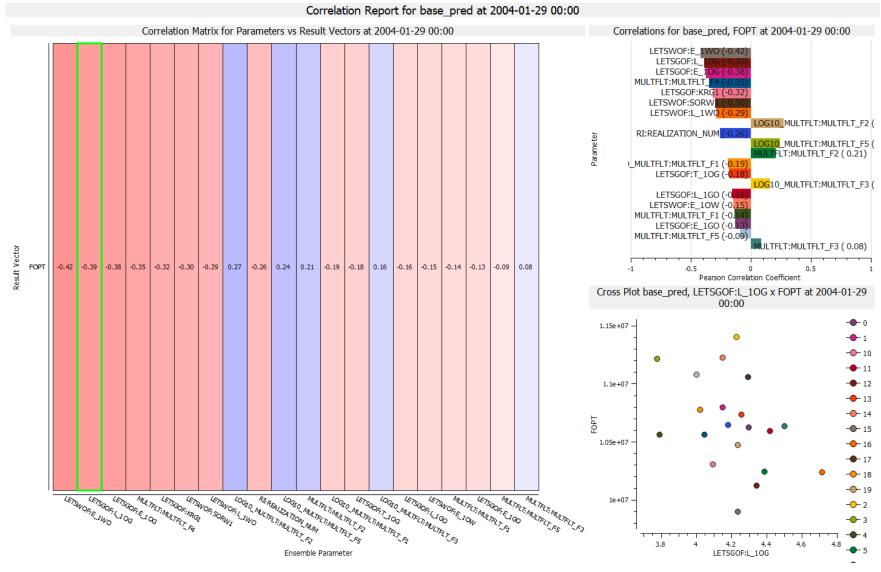
https://en.wikipedia.org/wiki/Pearson correlation coefficient#For a sample

X is input parameter value, Y is simulated value

$$r_{xy} = rac{\sum_{i=1}^n (x_i - ar{x})(y_i - ar{y})}{\sqrt{\sum_{i=1}^n (x_i - ar{x})^2} \sqrt{\sum_{i=1}^n (y_i - ar{y})^2}}$$
 (Eq.3)









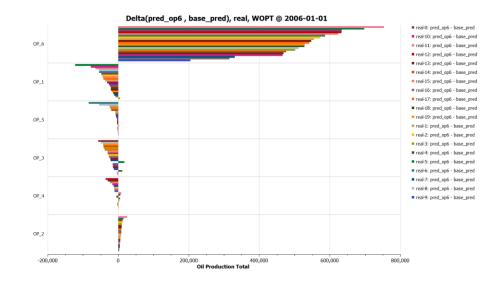


## r) Analysis Plot (taken from ResInsight Intro Course)

## Objective: Create and configure an Analysis Plot

- Import a Summary Ensemble, and use import path "model-data/reek\_ensemble/3\_r001\_reek\_50/realization-0/base\_pred"
- Import a Summary Ensemble, and use import path "model-data/reek\_ensemble/3\_r001\_reek\_50/realization-0/pred\_op6"
- Select New Delta Ensemble from right-click on Summary Cases
   Create a Delta Ensemble as the difference between the two cases (pred\_op6 base\_pred)
- Select new **Analysis Plot**
- In Property Editor, in group Selected Vectors, click on the button with three dots "..."
  - Set source Delta ensemble
  - Select wells OP 1-5
  - Select Summary Vector WOPT
- Bar Orientation: Horizontal
- Select major grouping Summary Item
- Select sort by abs(Value)
- Optionally
  - Show legend
  - Bar labels

https://resinsight.org/plot-window/analysisplots/







## s) Python scripting

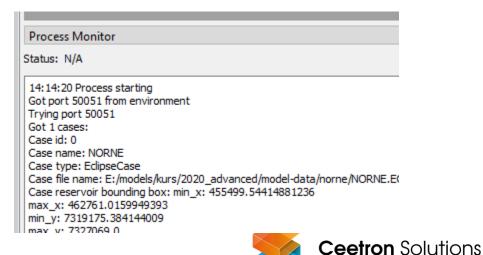
## Objective: Learn how to execute a Python script from ResInsight UI

- Configuration of Equinor internal scripts is described in "ResInsight user Course Preparations 2022.pdf"
- [Optional] Add a folder containing existing scripts
  - o Right-click on Scripts item, and select "Add Script Path"
  - Select script folder
  - o To edit the text content of a **Script**, select "Edit" from the right-click menu
- Use the right-click menu to execute a script
- Investigate the output from the Python script in **Process Monitor**
- It is also possible to execute a Python script directly from a terminal



#### https://api.resinsight.org

https://api.resinsight.org/en/stable/PythonExamples.html





t) Improvements and new features 2023.06

#### **Seismic Data**

Import and display of 3D seismic cubes in the same scene as reservoir grid model.

## **Summary Visualization**

- Summary tables used to see summary data for multiple wells in a table view.
- Producer/Injector connectivity table can be used to get an overview of the communication between wells
- Regression and Decline Curves

#### **Improved visualization of Ensemble Curves**

https://resinsight.org/getting-started/whats-new/releasenotes\_2023\_06/





u) Improvements and new features 2023.03

#### **Calculator improvements**

A calculator expression will by default be available for all wells, all cases, and all ensembles

#### **Radial grids**

Import of radial grids including local grid refinement (LGR) is now supported. Using I and J range filters will filter the grid case based on angle and radius (Theta and R).

#### **Multi Segment Well**

Added optional visualization of valves.

#### Other

- Use Well Allocation Over Time to see the allocation over multiple restart time steps.
- The Depth Plot can be used to display values for all K-cells for one or multiple selected IJ cells.
- Improved custom time axis tick marks
- Pressure Depth Data can be imported from a custom file format.
- Fixed freeze during import of grid model (Progress bar freezes at 28%)
- GRDECL export: Added option to export NOECHO and ECHO to generated text file
- When clicking on a cell: Show center coordinates and corner coordinates [Result Info]

#### More details at

https://resinsight.org/getting-started/whats-new/releasenotes 2023 03/





v) Improvements and new features 2023.01

#### **ROFF Grid Models**

- Import of ROFF files exported from RMS
   Import->ROFF Grid Models->Import Roff Case
   All existing features for Eclipse grid models are also available for ROFF grid models.
- Grid data in text format can be imported into any grid model (Eclipse EGRID, Eclipse GRDECL, Roff). This works if the number of cells matches the destination grid.

#### **Linked Views**

- See property value as text from all linked views in **Result Info**
- Link property filters, works locally on each individual grid model

#### Other

- See multiple result values in Result Info
- Improved documentation for calculations
- Support for display of RFT segment curves
- Horizontal well log plots
- Improved window tiling

#### More details at

https://resinsight.org/getting-started/whats-new/releasenotes 2023 01/

