

# PETROSYS PRO

## ADVANCED SUBSURFACE MAPPING SOFTWARE

 **PETROSYS** |  **INTERICA**

[www.petrosys.com.au](http://www.petrosys.com.au)

# PETROSYS PRO

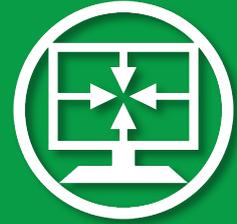
The Petrosys PRO software suite is the industry-leader in mapping and surface modeling software solutions for petroleum E&P – delivering direct connectivity with the most popular exploration, production and GIS data sources. Petrosys PRO produces high quality maps and surface models, it manages seismic, well, geoscience and other specialised data used in the search for oil and gas.



Surface Modeling  
& Volumetrics



Mapping &  
Visualization



Direct Connectivity  
& Data Exchange

## Produces high quality maps quickly

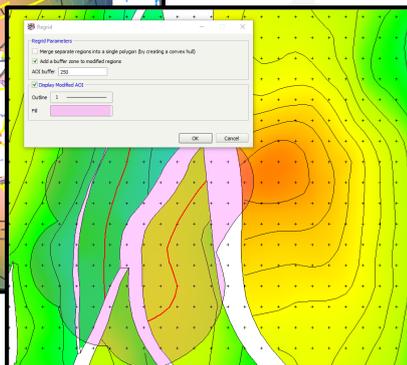
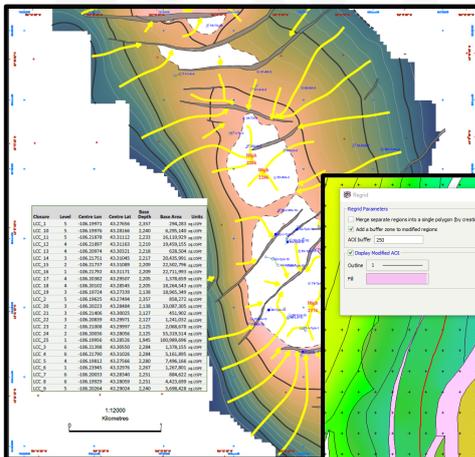
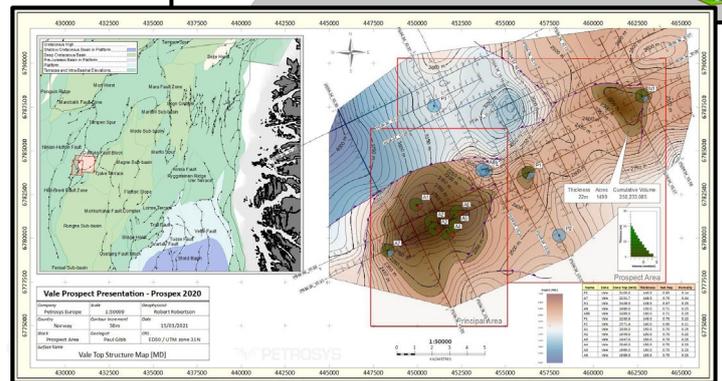
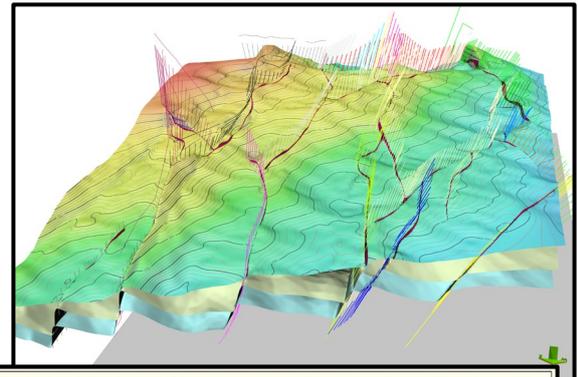
- Map templates allow the geoscientist to reproduce professional cartography quickly

## Rapid computation of geologically realistic surface models

- Controllable merging/management of regional grid data
- Time to depth conversion algorithms
- Fault polygons and fault sticks used to constrain grids
- Lowest closing contour identification of structural traps

## Manipulates subsurface structural and attribute grids

- Contour editing and surface manipulation tools allow us to apply geological opinions to grid outputs



## Computes accountable volumes

- Established and flexible gross rock volume algorithms
- Reproducible reserves computation workflows

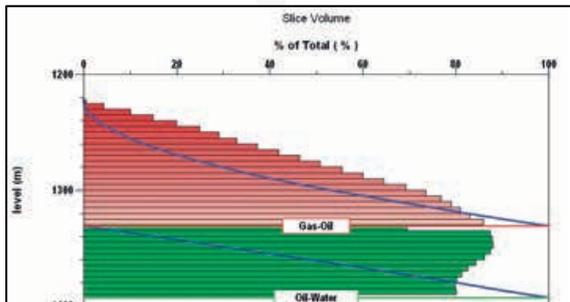
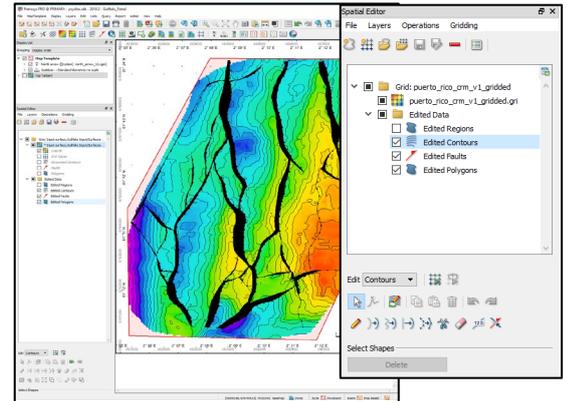
## Integrates data across applications

- Direct use of data from multiple G&G and GIS applications
- Can transfer/convert data across multiple G&G and GIS applications.

# Petrosys PRO Stand Out Features

## Subsurface Mapping Editors

Petrosys PRO subsurface mapping editors are vital tools for geoscientists globally. Their flexibility and simplicity generates a powerful suite of tools to interpret the subsurface more accurately. Users can impose their geological knowledge into subsurface maps where other applications may force the user to accept default generated grid and offer limited control beyond this.



## Volumetrics

Gross rock volumes can be easily calculated from top, top and base, or thickness grids with optional user defined scale factors and volume units. Extensive quality assurance procedures ensure consistent and reliable volume estimates.

Geology	Oil	Associated Gas	Probability factors		Correlation	Results - Oil	Results - Associated Gas		Distribution Type
Variable	Minimum (P99)	Low Side (P90)	Median (P50)	Mean	Constant/Mode	High Side (P10)	Maximum (P1)		
Porosity (fraction)	0.094	0.110	0.133	0.134		0.160	0.196		Lognorm
Degree of Fill (fraction)					1.000				Constar
TGCF (fraction)					1.000				Constar
Pool Area (km2)	57.880	79.284	102.877	103.148	102.000	127.419	153.006		Stretche
Net Pay (m)	29.548	43.000	59.500	59.500		76.000	89.452		Normal
Ave Net Pay <sup>2D</sup> (m)	0	0	0	0		0	0		
100% NRIV <sup>2D</sup> (km2.m)	0	0	0	0		0	0		

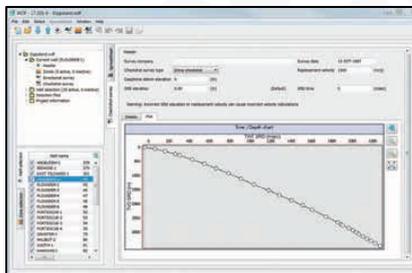
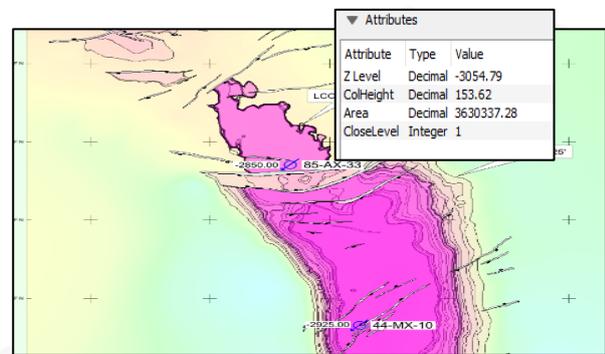
The PRC tool gives all PRO users access to the monte-carlo simulation capability, from the Petrosys Prospects and Leads Database (PLDB).

With access to computational methods for both conventional and unconventional resources, the PRC reduces risk & uncertainty by opening the door to probabilistic modelling.

## Lowest Closing Contours (LCC)

LCC helps users quickly & easily identify prospects within subsurface grids. Changing input parameters allows the user to identify economic prospects and remove smaller, uneconomic closures.

Both leaking and sealing faults can be incorporated to delineate fault bounded structures where the user has the geological knowledge to constrain the model.



## Flexible velocity handling and depth conversion

Petrosys helps geoscientists to perform depth conversions with tools that can use stacking velocities, SEG Y, well checkshots, and velocity depth functions with a range of data sources and formats.

## PETROSYS PRO+ Advanced Visualisation

The best subsurface mapping tools in the industry *plus* the 3D Viewer and X Section tools!

Combining both the 3D Viewer and the new X Section module Petrosys PRO+ gives you access to advanced subsurface visualisation. The 3D Viewer makes it easier to understand the relationship between surfaces, exploration & production assets and activities connected to them. While the X Section module allows you to better see and understand your structure and achieve an accurate representation of the subsurface.

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ADVANCED SUBSURFACE  
E&P SOFTWARE

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