

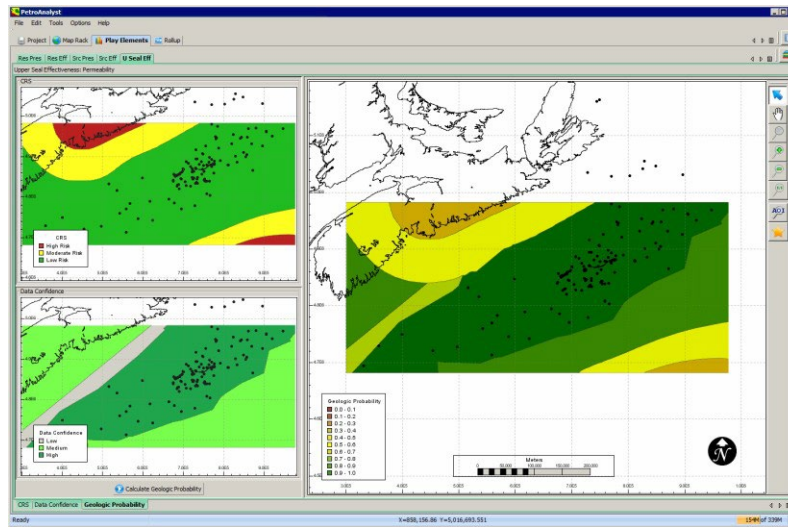
PetroAnalyst®

Play Fairway Mapping and Analysis

PetroAnalyst provides a framework for the consistent, spatial evaluation of geologic risk in all types of plays from frontier areas, with sparse analog data, to mature areas with multiple grids, fields and wells.

Confidence estimates, derived from Data Density and Data Quality, can be integrated into the analysis to generate maps of Geologic Probability or Chance of Geologic Success (COS). This enables the geoscientist to avoid communicating unsupported estimates of high or low COS without sufficient data.

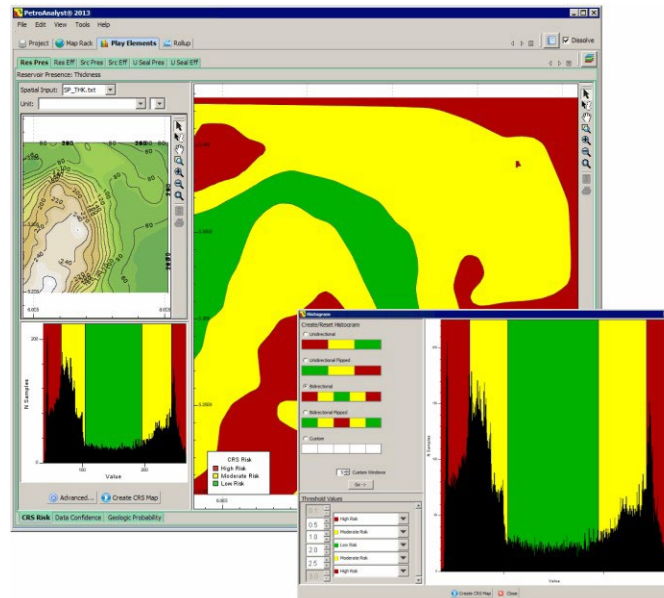
Composite Risk with Optional Data Reliability can be used instead of Geologic Probability for the final composite.



CRS MAP + DATA CONFIDENCE = COS

The PetroAnalyst interface includes a guided workflow to set up the project, load/prepare all the data (polygons, grids, and/or point data), evaluate the play elements, integrate estimates of data confidence and produce a final COS map.

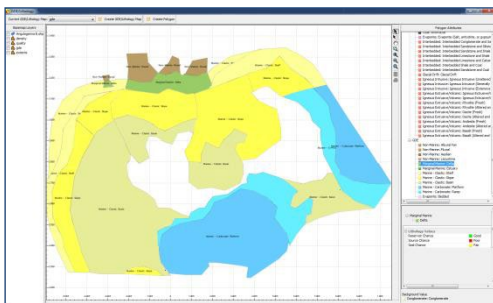
PetroAnalyst can be used for both unconventional and conventional play fairway analysis. With the former, many parameters that may control the producibility of an unconventional reservoir such as maturity, brittleness, pressure, thickness, etc.



MATURITY CRS MAP DERIVED USING HISTOGRAM ANALYSIS OF GRIDDED DATA

PetroAnalyst Key Advantages:

- A consistent methodology to communicate play risks across different business units for corporate decisions
- Repository for storing all corporate memory for a play yet can rapidly integrate new data or replace erroneous interpretations, well tests and alternate scenarios
- In areas of sparse data, a library of over 200 Gross Depositional Environments (GDEs) provides the facility to define polygons and assign relative probabilities to the play elements

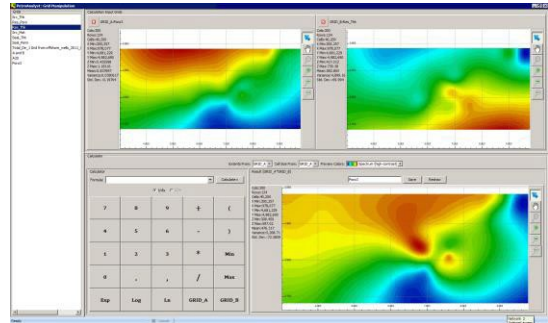


GDE ASSIGNMENT FROM IMPORTED SHAPE FILE

- Supports the identification and evaluation of the critical play element or ‘proxies’ that control the presence and effectiveness for the

play elements. Proxies can be used to support the evaluation of both conventional and unconventional plays

- Grid to Grid Manipulation Tool – Perform simple to complex mathematical functions on input grids with the ability to recall and use any previous equation

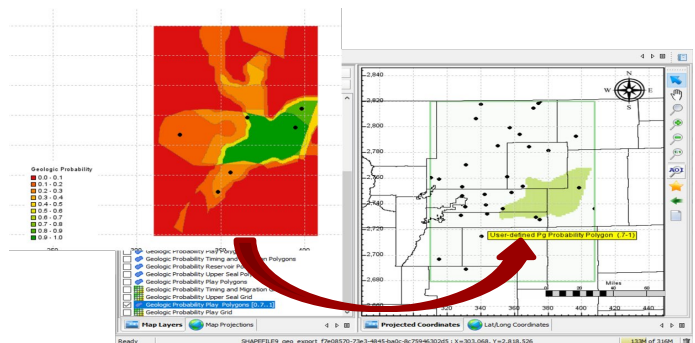


GRID TO GRID MANIPULATION TOOL

- Integrates with analog or third party databases to provide an initial framework for play analysis. This can be used in PetroAnalyst’s GDE library to assign relative probabilities
- An extensive lithology library is also included where GDE’s are unknown or lithology can be better used to represent the risk of presence or effectiveness of a play element

Key features:

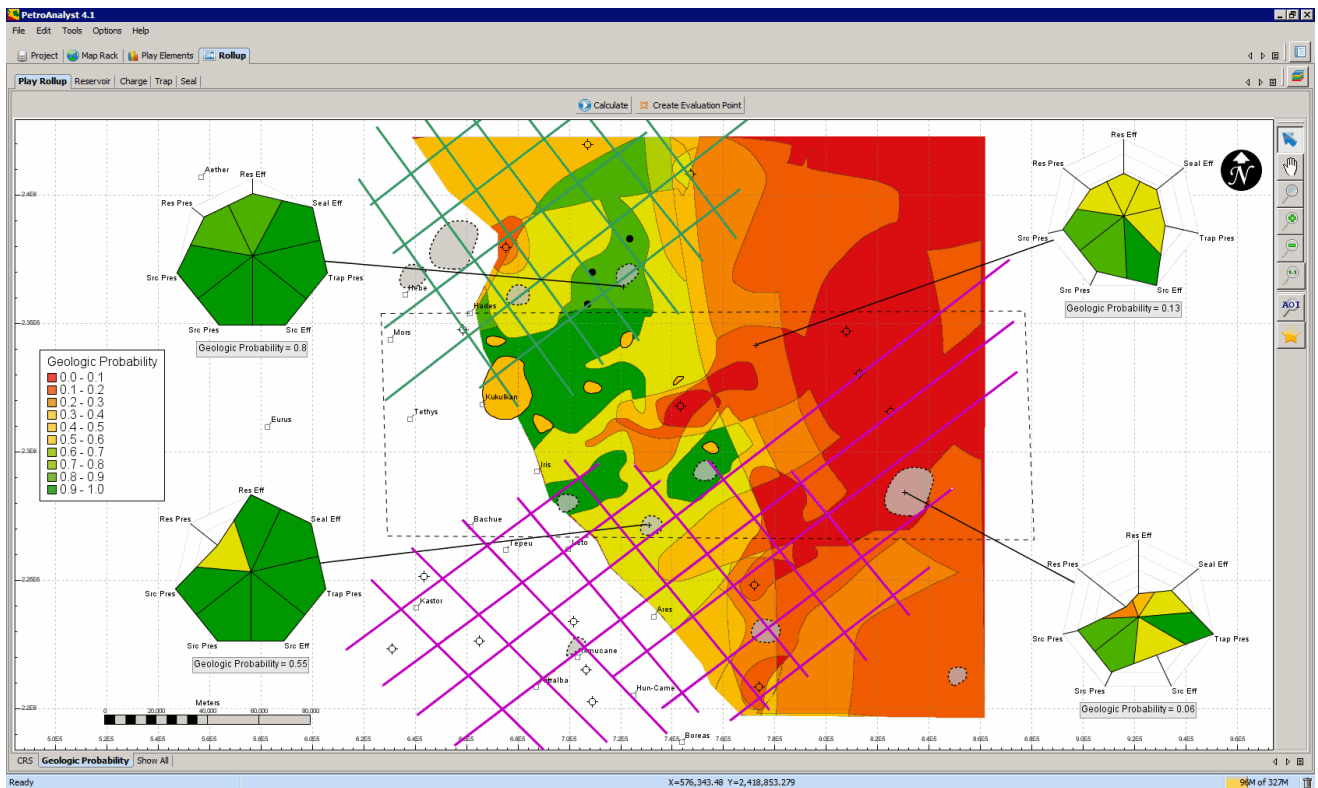
- Customize the interface, including the geologic probability matrix, map names, and assignment of map colors to maintain consistent corporate or group Play Fairway Analysis methods
- “Drag-and-Drop” import into the Map Rack of common data types including grids, shapefiles and spreadsheets
- Manipulate input grids to create missing play element maps (ex. porosity map from a depth grid using porosity vs. depth trend)
- Easily resolve projection discrepancies using the Projection Manager
- Internally construct grids from point data



USER-DEFINED POLYGON OF PG>.7

- Make components (proxies for presence or effectiveness) independent or dependent
- Assign relative risk levels to areas from an included library of gross depositional environments (GDE) and lithologies
- Create polygons of user-defined Pg

- Assign common areas of risk and data confidence with included digitizing tools or conversion of shapefile polygon attributes
- Roll up areas of common risk or chance of success into play element and play level summary maps
- Identify key risks for areas on rollup maps using evaluation points, radar plots, and color filled radar plots
- Generate slides automatically populated with screenshots produced by the maps and definitions in the project
- Automatically create individual images of all maps for use in other software packages
- View a summary of all maps contributing to the final rollup map, including CRS maps, data confidence maps, geologic probability maps, or data reliability input and data reliability result maps
- Export map inputs and results as shapefiles or grids for use by other groups or disciplines
- Multi-core processing for increased speed
- 64-bit application for handling larger data sets
- Built-in PowerPoint generator
- Automated animation tool



COMPOSITE ROLLUP MAP WITH COLOR FILLED RADAR PLOTS SHOWING PROSPECT COS AND INDIVIDUAL PLAY ELEMENT RISK

For more information about PetroAnalyst or to schedule a demonstration, please contact info@platte.com



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