



Exploration Analyst

Petroleum Play, Mineral & Carbon Storage Assessment

Exploration Analyst is an extension to Esri's ArcMap and ArcGIS Pro software for performing petroleum, mining and CCS favourability analysis; resource assessment; and block, lease and company ranking. Exploration Analyst is designed specifically for oil and gas, minerals and CCS departments, providing essential tools for the energy resource exploration geoscientist.

USES

Exploration Analyst allows you to apply PBE workflows to help streamline your exploration process:

- Create play chance maps to identify play fairways & sweet spots.
- Create favourability maps for CCS aquifers and mineral exploration targets.
- Validate play chance maps against well results.
- Analyse basin/play activity and resources.
- Estimate basin/play yet-to-find volumes.
- Rapidly screen acreage to prioritise blocks/leases and assess competitor positions.

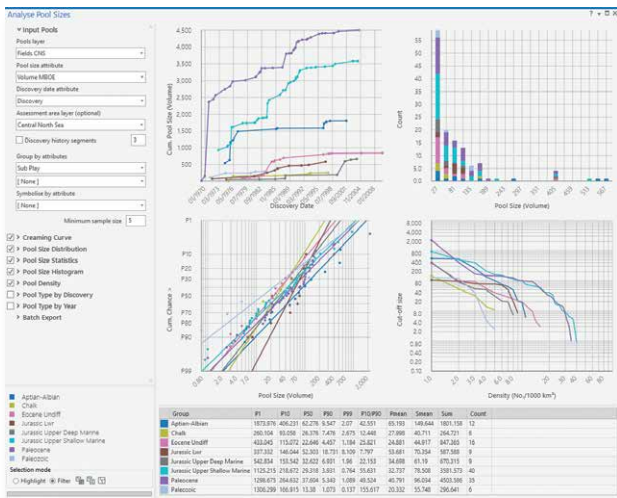
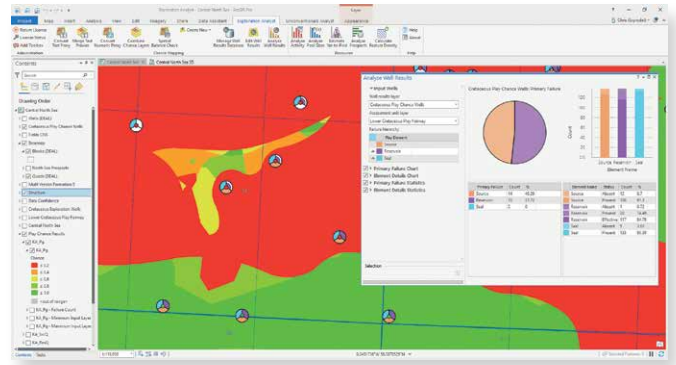
BENEFITS

- Focus exploration at the play or aquifer level, rather than the prospect level, to discover previously unseen exploration opportunities.
- Make better decisions by validating prospect probabilities against the spatial distribution of play chance.
- Make better decisions by validating prospect volumes against play history and maturity.
- Increase efficiency during bid rounds by using multi-criteria analyses that enable you to quickly focus on the best acreage.
- Gain cost savings by focusing expensive geoscience resources more appropriately.
- Improve communication between teams, disciplines, and management by presenting fully auditable results in summary reports and maps.

KEY FUNCTIONALITY & FEATURES

PLAY CHANCE MAPPING

Exploration Analyst provides a toolkit for creating play chance maps within ArcGIS for petroleum plays, minerals and CCS projects. Sketch or create play element chance layers from pre-existing GIS data and then combine these into a play chance model. You can then validate the model against results of wells that have been drilled. Workflows can be standardised and shared using Tasks, as well as run in batch using Exploration Analyst's geoprocessing tools.

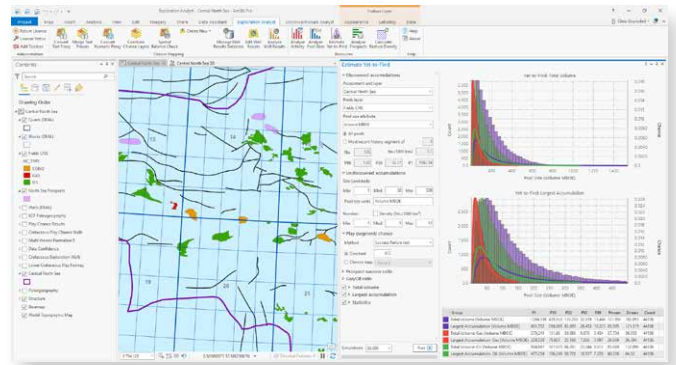


BASIN AND PLAY STATISTICS

Exploration Analyst provides a toolkit for assessing basin, play and prospect volumes. Create and analyse pool size distributions, creaming curves, play statistics and prospect volumes. Validate resource volumes against discovery history and play maturity, analyse your prospect risks and assess the effect that new play concept successes will have on your portfolio.

ESTIMATE YET-TO-FIND

Exploration Analyst provides powerful tools for estimating the amount of undiscovered hydrocarbons in your area of interest. These tools deliver Monte-Carlo simulation workflows based on the USGS Assessment Model for Undiscovered Conventional Oil & Gas and, as well as being tightly integrated with play chance maps generated by the software and fully supporting split-risking approaches.



To learn more about Exploration Analyst email software@getech.com or visit www.getech.com

ABOUT GETECH

Getech applies its world-leading geoscience data and unique geospatial software products to accelerate the energy transition by locating, developing and operating geoenery and green hydrogen projects.

