OPENMIND 2.0 - GLOBAL COMMERCIALIZATION Development plan (draft)



OPENMIND

NextGen

SPENMIND Think volumes, not maps!

For centuries the Oil & Gas industry has relied on maps. At IMAGE, 2025 GeoMind will release a new stratigraphical volumebased exploration toolbox called **StratCracker**.

This fully volume-based approach will inspire stratigraphers and geophysicists to work as an integrated team, by cracking the stratigraphic understanding early on. The key is the integrated co-work, immediate access to a combination of seismic data, AI clustering and a volume-based 3D process, extracting more vital information from your precious seismic volume.

StratCracker allows the user to separate and extract individual stratigraphic units down to the finest level. However, start simple with major sequences and faults first. Once you have the key unconformities and maximum flooding surfaces (or its equivalents) interpreted together with major faults, you can move on to the next level of sub-zonation.

Maps will still be needed but more for guidance and final output/documentation.



OPENMIND NEXTGEN Import data – Run SeisFlow





Interpret or import any interpreted horizons and faults from your project, iterate with fault probability model and let StratCracker use FlowLines to create a zone probability volume, bringing out important sequences for attribute analyses, volume estimation and detailed 3D understanding.



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StratCracker Process with SeisFlow

- Extract dip from seismic data
 - Seismic to dip field.
 - Dip field to flowline representation
- Workflows utilizing the flowline representation
 - Extraction and ranking of seismic sequence boundaries
 - Cluster based extraction of sequence boundaries and subsequences.
 - Tracking conformable reflections
 - Moving towards 3D







StratCracker Process with SeisFlow

Dennis Adelved: https://imageevent.aapg.org/portals/26/abstracts/2024/4099879.pd





11/28/2024

OPENMIND NEXTGEN Flowlines with Faults



Some Mind Well Correlation

Import your wells via Landmarks OMX format or Petrel multi well export option.



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Efficient angle stack conditioning using a convolutional neural network (huff, EAGE 2024)



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https://geomind.tech





The cropped volume is used to limit the volume where calculations are run

Input to the calculations are the input angle stacks, within the cropped volum

Limiting the calculations to the data that is currently visualized (either on plane(s) or horizon(s), or the sides of the cropped volume)

OPENMIND NEXTGEN Advanced AVO Analysis (draft)



When the "AVO Interpretation" operation is active, it is great to use the mini window to display where the current point is in the Intercept vs. Gradient plot OR

Show the angle stack traces along with an amplitude versus angle plot



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Some Mind Monte Carlo Simulation (draft)





OpenMind Rental Model



OPENMIND NEXTGEN OpenMind Rental Model (preliminary)

Currency USD	1 Week	1 Month	1 Year
3D Visualization	Free	Free	Free
Base Module *	300	1000	10000
OpenMind GoProbe **	300	1000	10000
OSDU	100	300	3000

 Includes all features except GoProbe
Includes StratCracker (SeisFlow) RGT and Advanced AVO Companies with < 10 employees ½ price Universities Free