

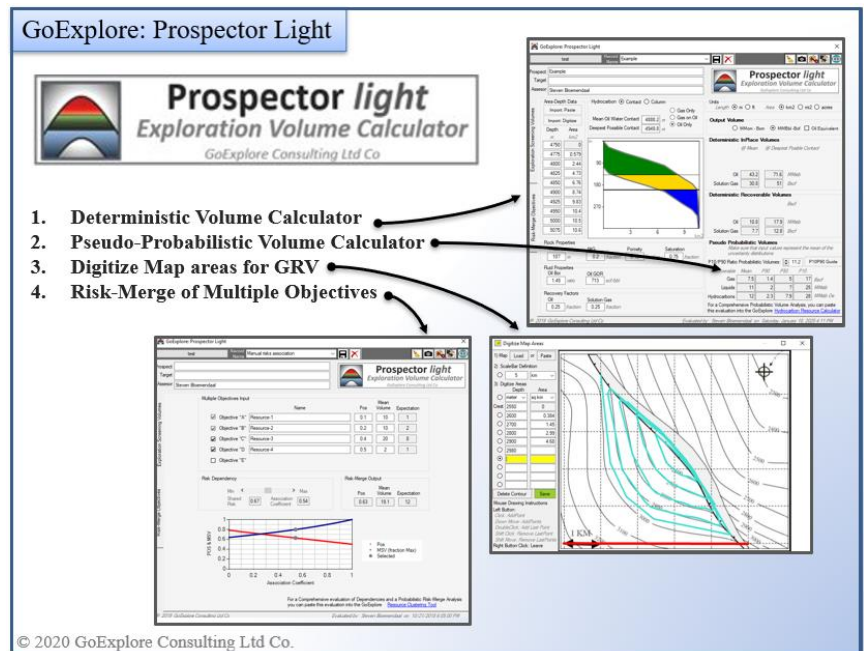


GoExplore Consulting

Free Friday Webinars
Exploration Volumes with
Prospector-Light
April 17th 9am Houston Time

- Introduction to Exploration Volume Calculation
- Area-depth method to calculate Gross Rock Volume
- Deterministic, Probabilistic and pseudo-Probabilistic Volumes
- GoExplore: Prospector Light
- How good are Pseudo-Probabilistic Volumes ?
- Wrap-up

GoExplore: Prospector Light



Prospector light
Exploration Volume Calculator
GoExplore Consulting Ltd Co

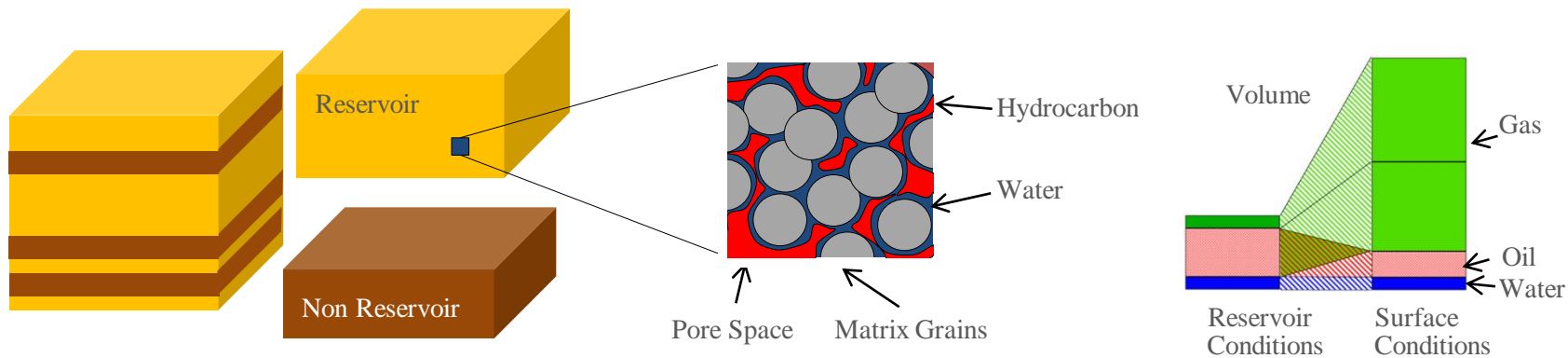
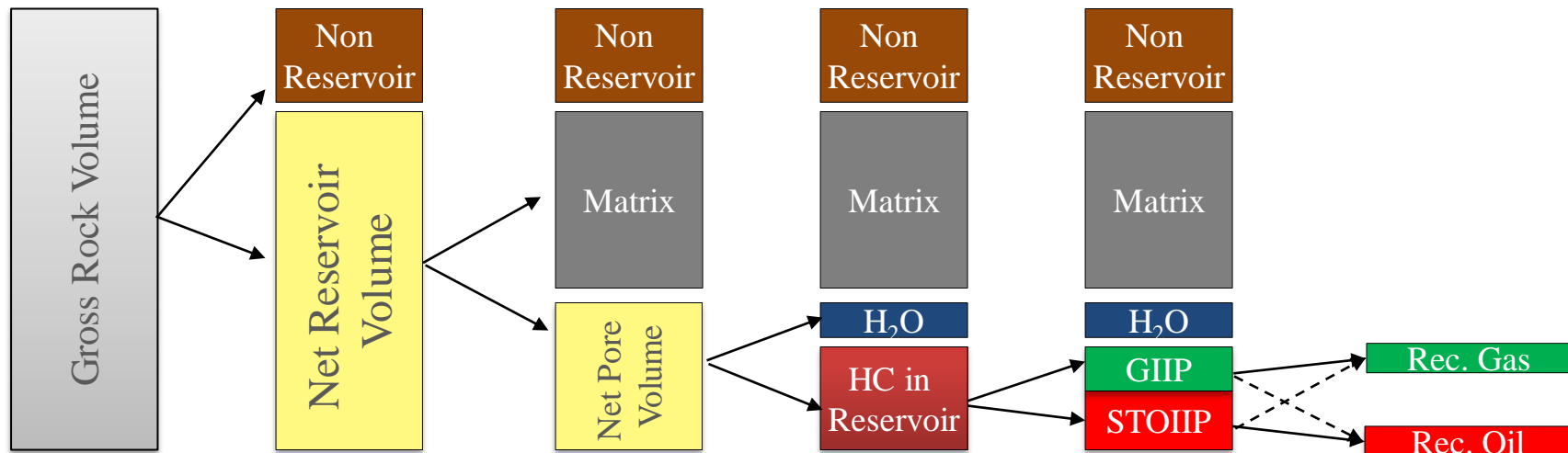
1. Deterministic Volume Calculator
2. Pseudo-Probabilistic Volume Calculator
3. Digitize Map areas for GRV
4. Risk-Merge of Multiple Objectives

The software interface includes several key components:

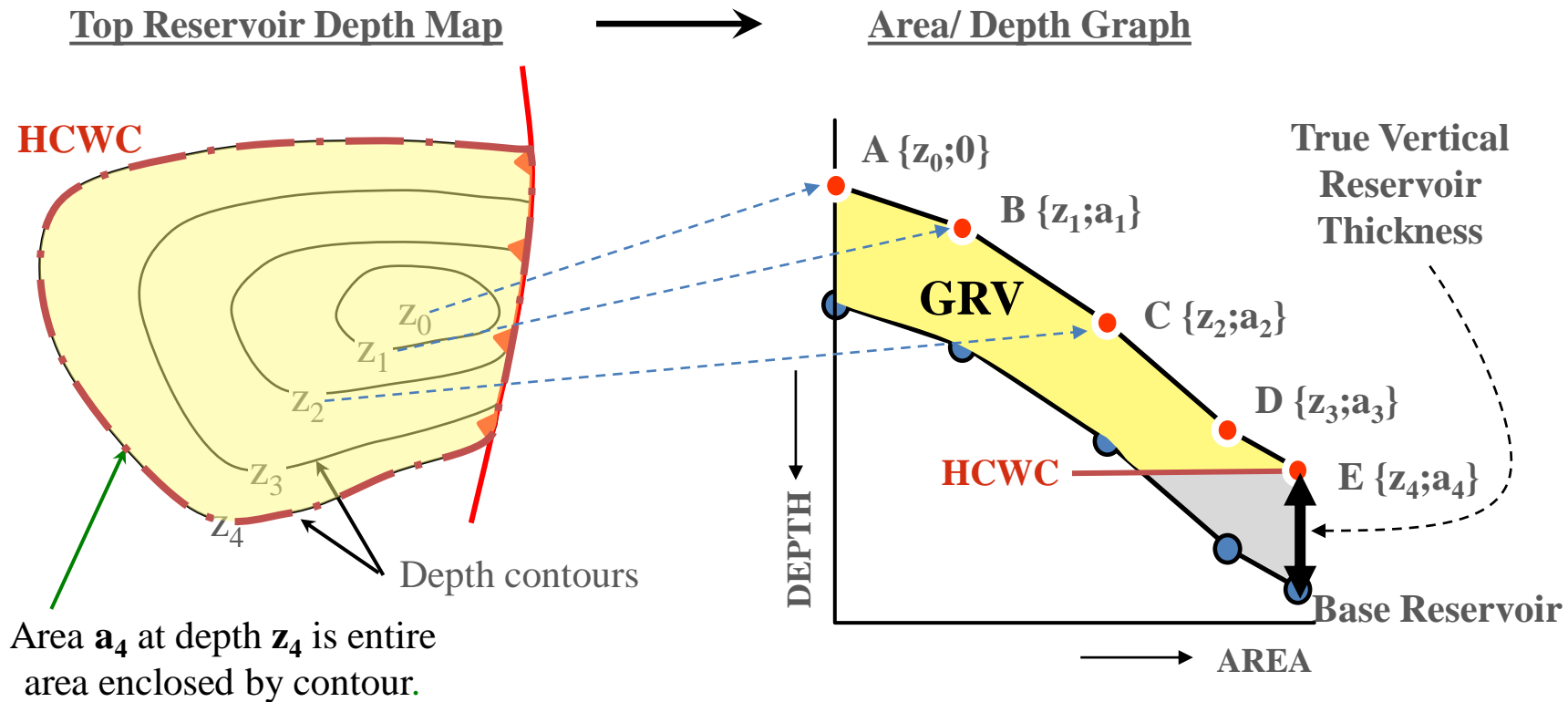
- Input Parameters:** Fields for Name, Depth, Area, and various constants.
- Area-Depth Plot:** A graph showing the relationship between area and depth, with a shaded region representing the exploration volume.
- Output Values:** A table of calculated values for different scenarios.
- Digitize Map Areas:** A map view showing the digitized exploration areas.
- Risk Merge:** A window for defining multiple objectives and their dependencies.

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The Volume Equation

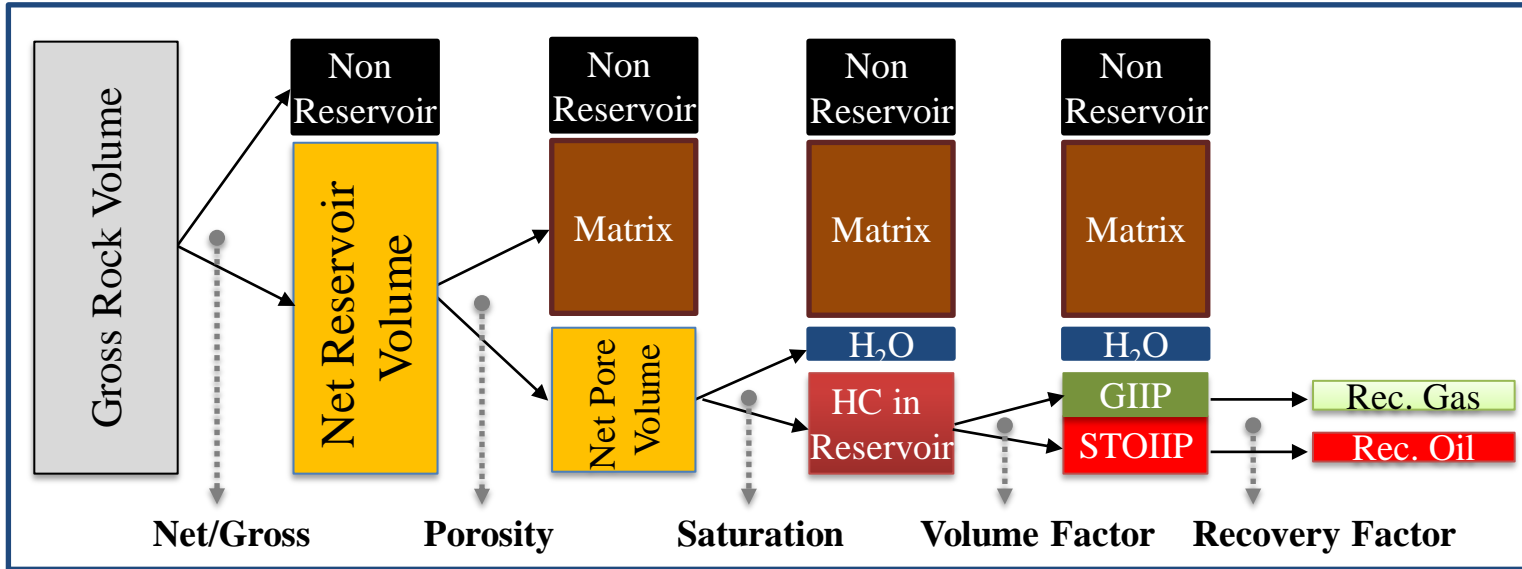


Area-Depth Method: 2D representation (area plotted versus depth) of a 3D geological structure, used to estimate the GRV of the HC-bearing rock



NB. Area/depth graphs are NOT geological cross-sections!

Deterministic / Probabilistic / Pseudo-Probabilistic



Deterministic Volumes = **GRV** x **N/G** x **Ø** x **Sat** x **1 / FVF** x **R_f**

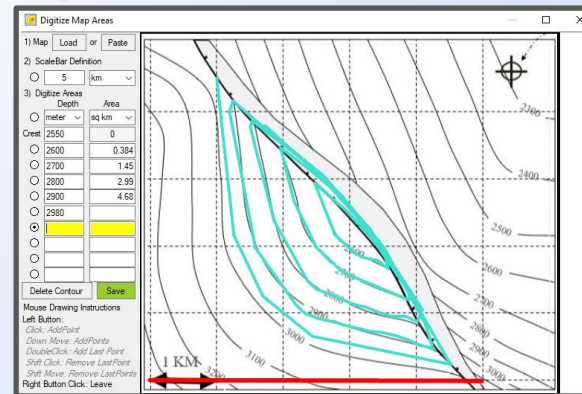
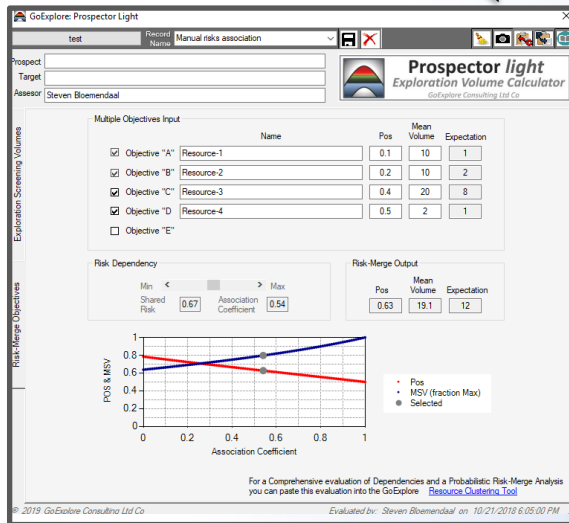
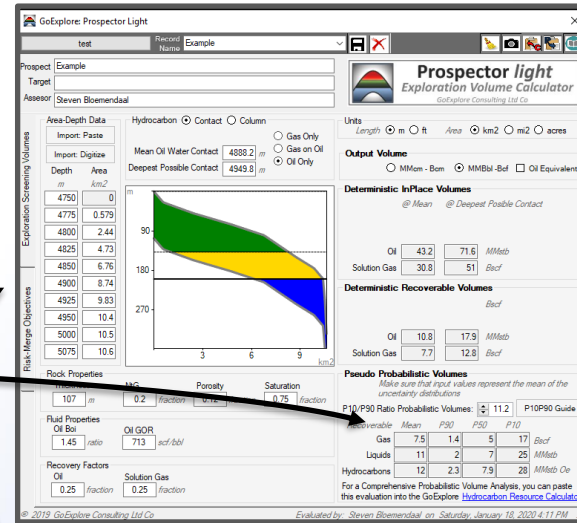
Probabilistic Volumes = x x x x x x

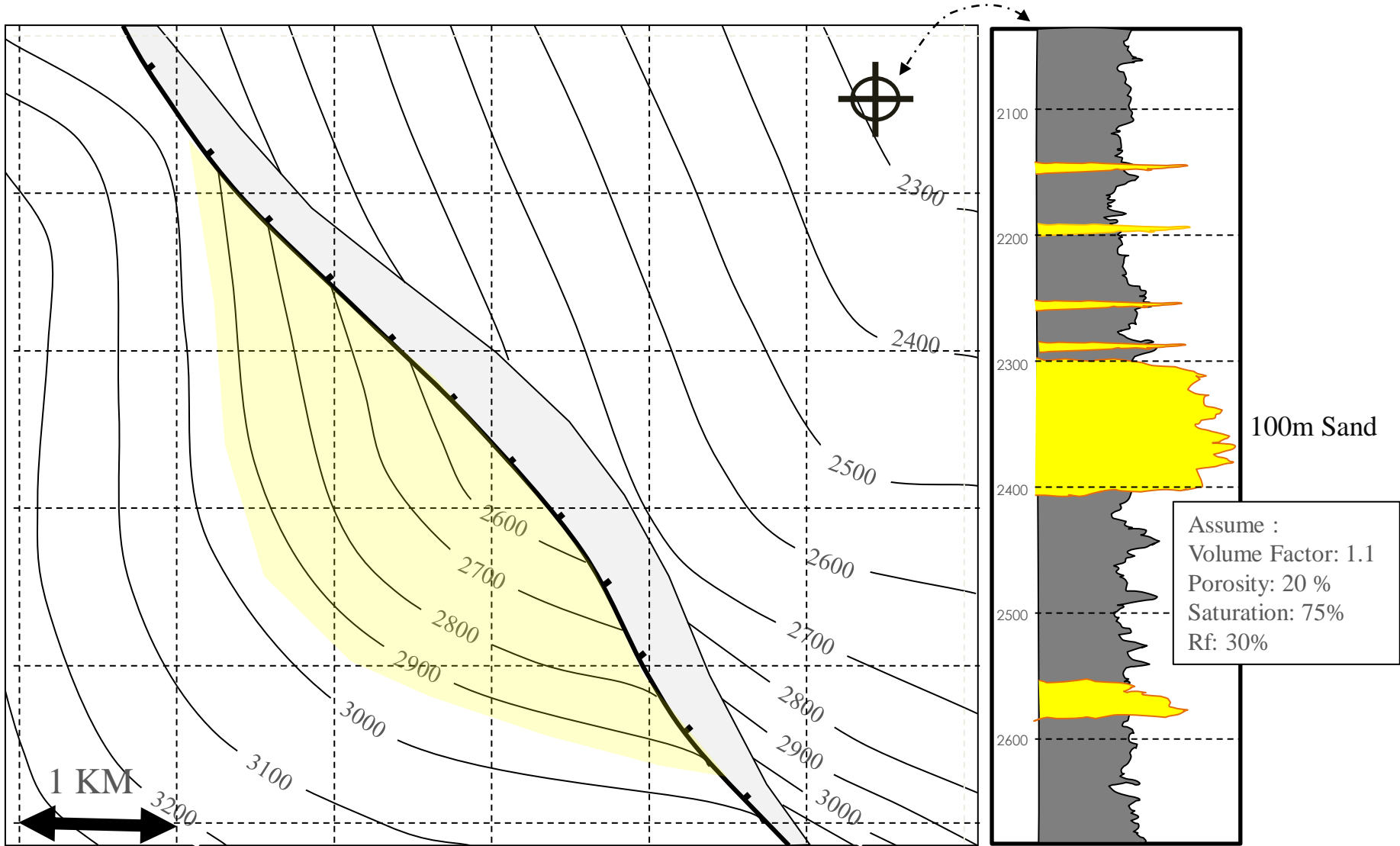
Pseudo-Probabilistic Volumes = **GRV** x **N/G** x **Ø** x **Sat** x **1 / FVF** x **R_f** x **Uncertainty**

GoExplore: Prospector Light

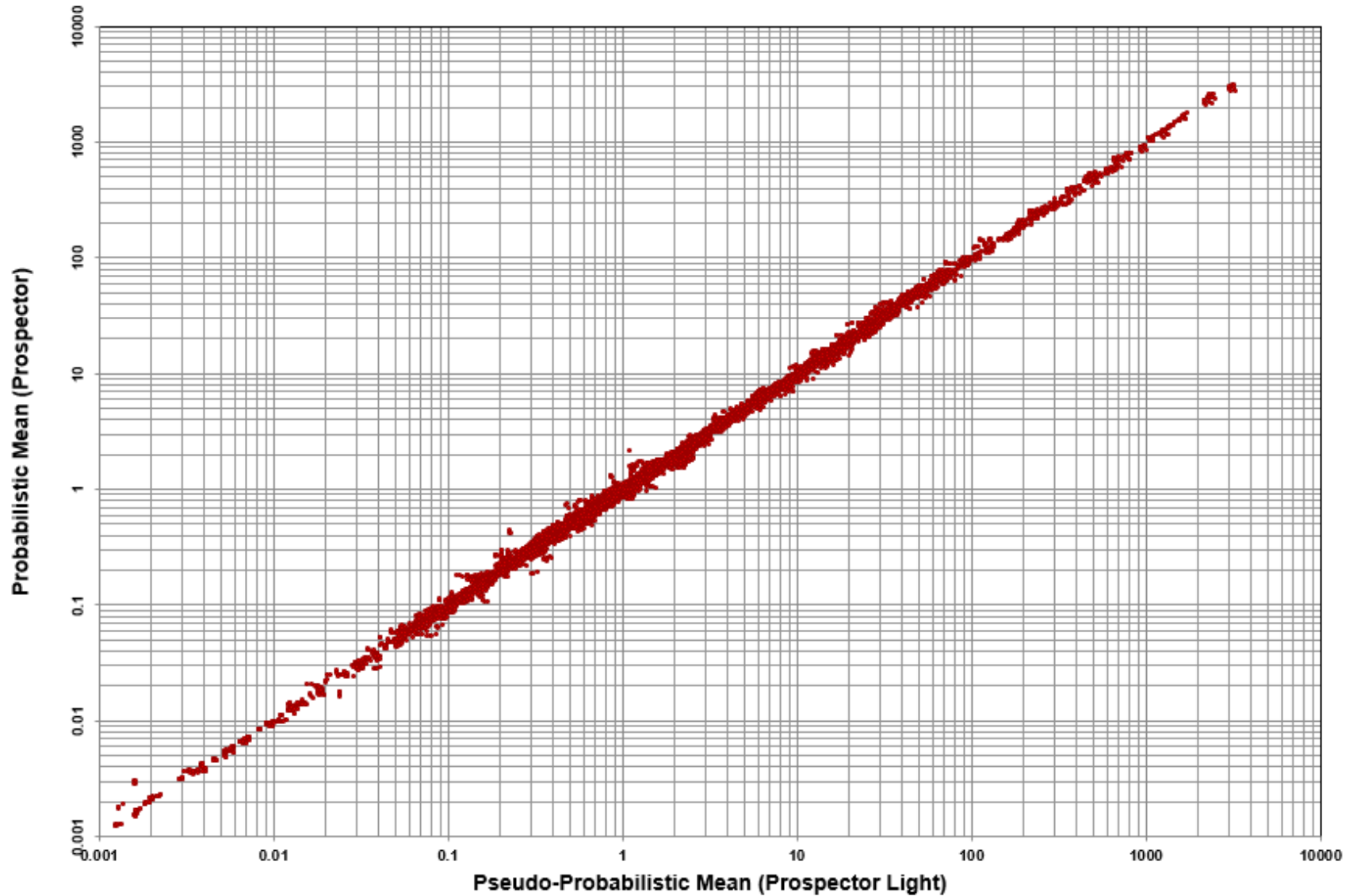


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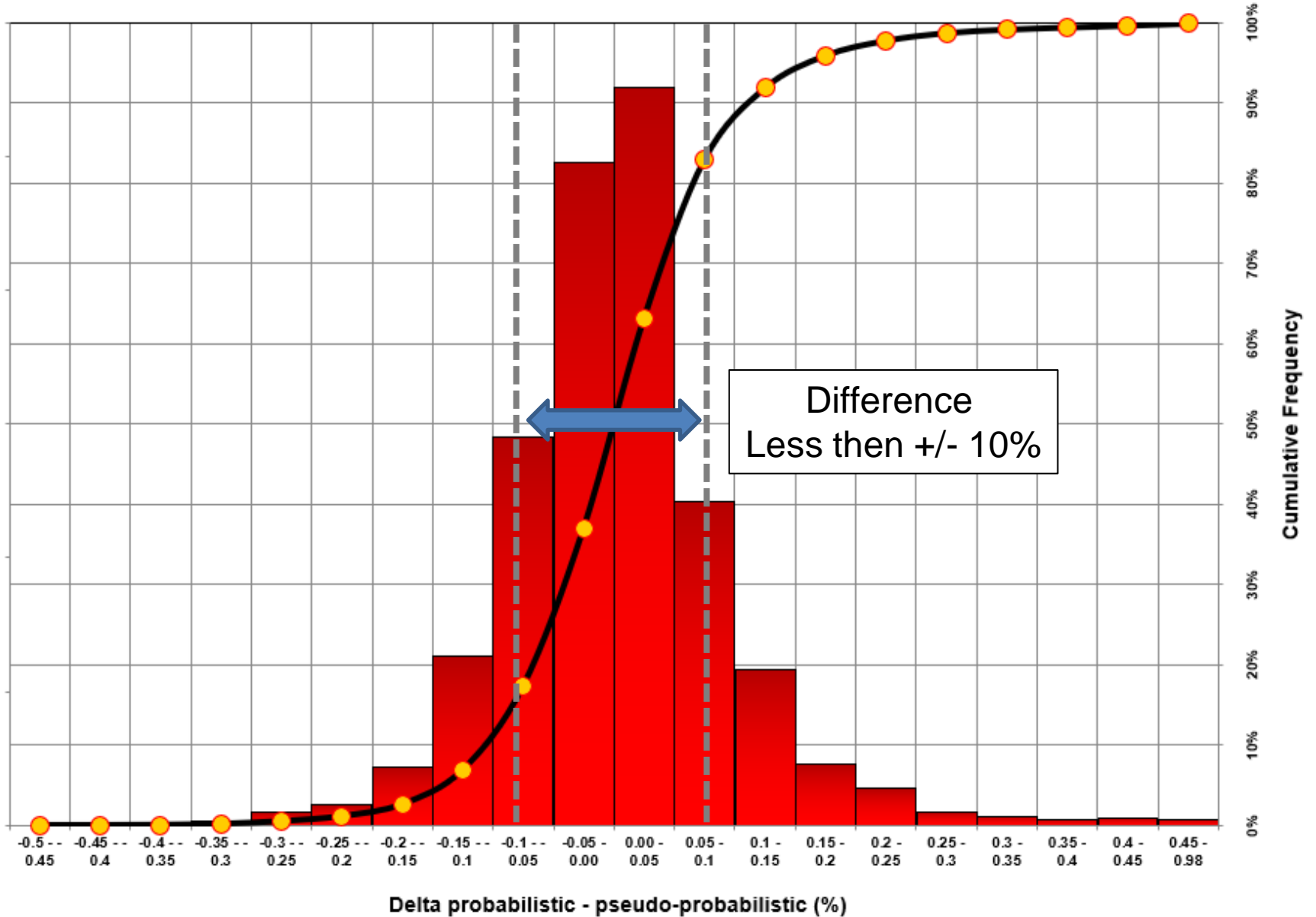




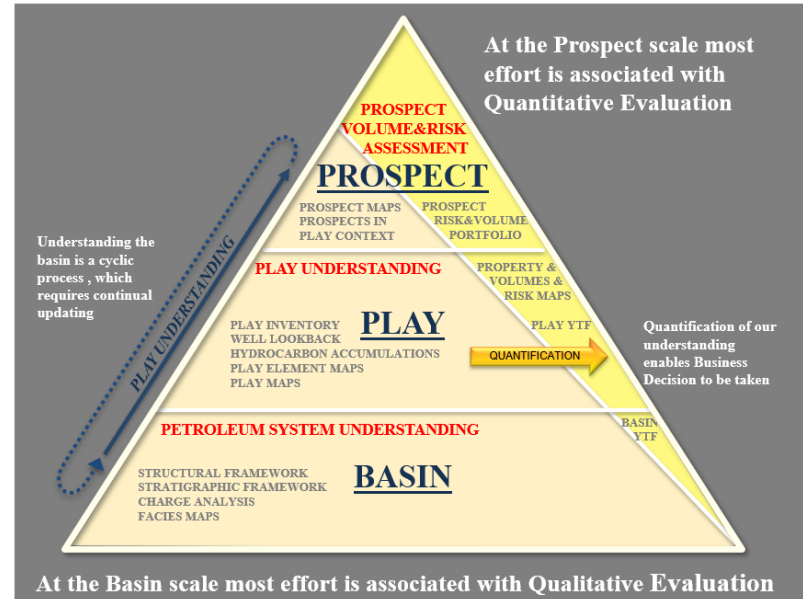
Pseudo-Probabilistic versus Probabilistic



Pseudo-Probabilistic versus Probabilistic



- Understanding the Basin/Plays context is essential for **Quantitative Prospect Evaluation**.
- **Prospector-Light** can help you to get accurate volume estimates for screening purposes.
- **Pseudo-Probabilistic** volumes are a good approximation of Probabilistic Volumes.
- **Prospector** is our **full probabilistic** application, which can be used for a **comprehensive prospect analysis**.



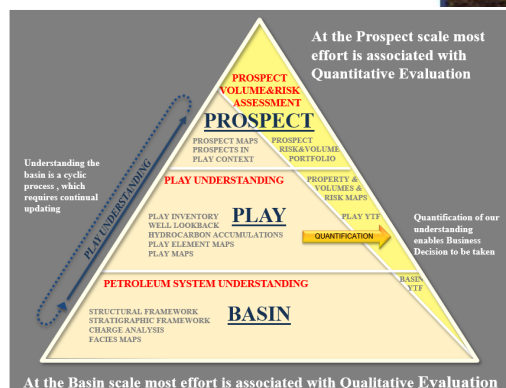
GoExplore: Prospector Light

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We offer a:

- 3-day course on Quantitative Prospect Evaluation
- 3- or 5-day course on Prospect Evaluation in the Play Context (PBE)



GoExplore

Techniques for Quantitative Prospect Evaluation

1. Analyzing a Prospect
2. Prospect Volumetric Methods
3. Prospect Risking Methods
4. Prospect Volume Reporting and Cutoffs
5. MonteCarlo Models and Volume Calculators
6. Distributions and Estimating Techniques
7. Conditional Probabilities ; Bayesian Analysis ; QI uplift
8. Scenarios and Multiple Hypothesis Analysis
9. Multiple Objectives Workflows
10. Learning from Look backs
11. Evaluation Pitfalls

You can download the Freeware at:

www.goexplore.consulting/goexplore-software-suite

Contact: Bloemendaal@GoExplore.Consulting



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Any Questions ?



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Thank You