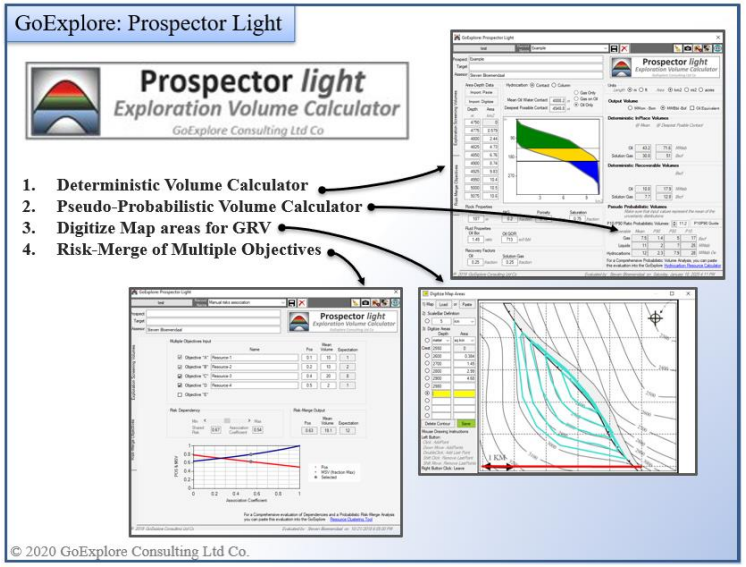
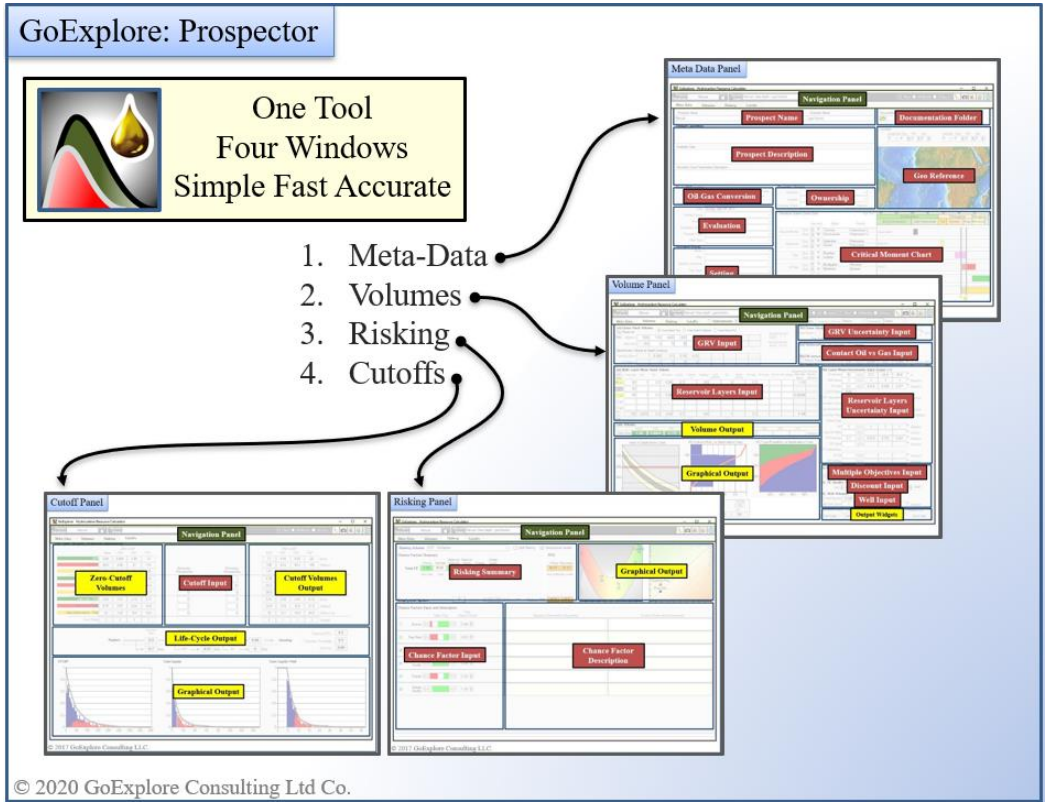
GoExplore Consulting
Free Friday Webinars
Probabilistic Volumes with Prospector
April 24th 9am Houston Time

Agenda

GoExplore Consulting Ltd Co

- Introduction to Exploration Volume Calculation
- Deterministic, Probabilistic and pseudo-Probabilistic Volumes
- GoExplore: Prospector
- Compare Prospector and Prospector-Light Calculators
- Widgets
- Demo
- Wrap-up





Download at: www.goexplore.consulting

Deterministic / Probabilistic / Pseudo-Probabilistic

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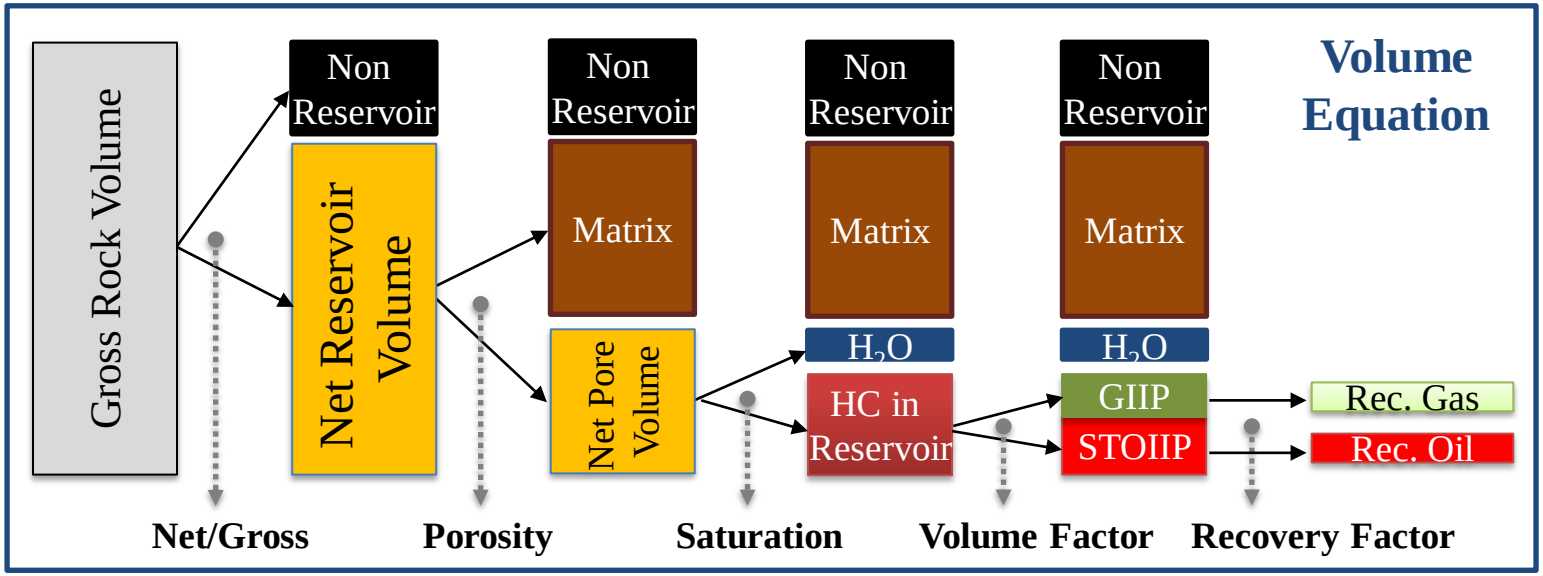


Deterministic Volumes = GRV x N/G x Ø x Sat x 1 / FVF x R_f

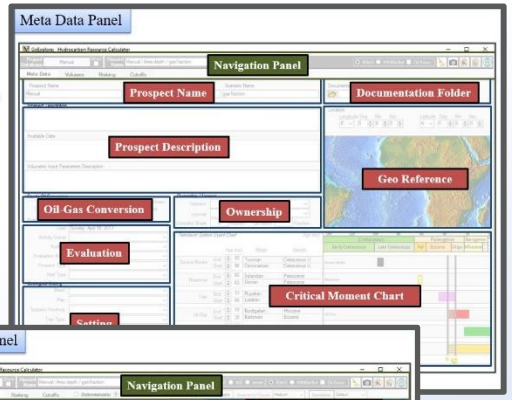
Probabilistic Volumes = **Prospector**

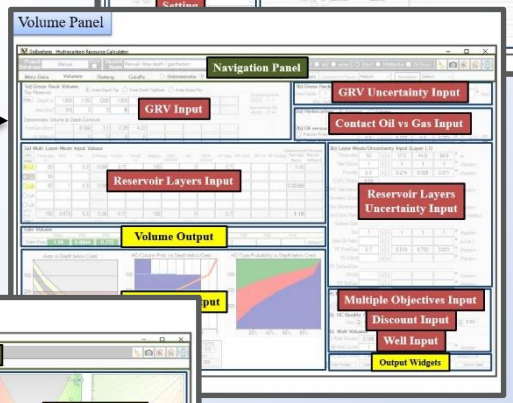
Pseudo-Probabilistic Volumes = **Prospector Light**

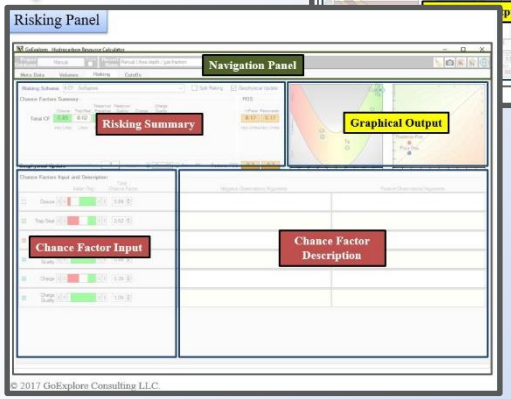
GoExplore: Prospector

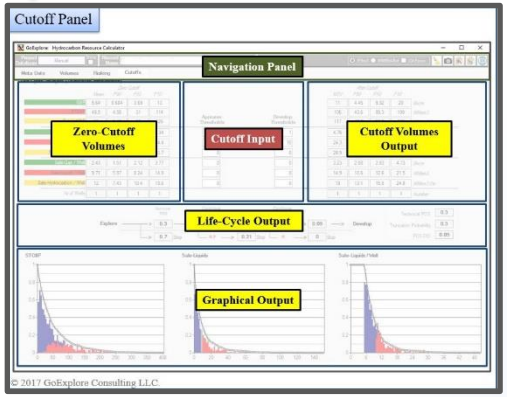
One Tool
Four Windows
Simple Fast Accurate

1. Meta-Data
2. Volumes
3. Risking
4. Cutoffs









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GoExplore: Prospector Volume Panel

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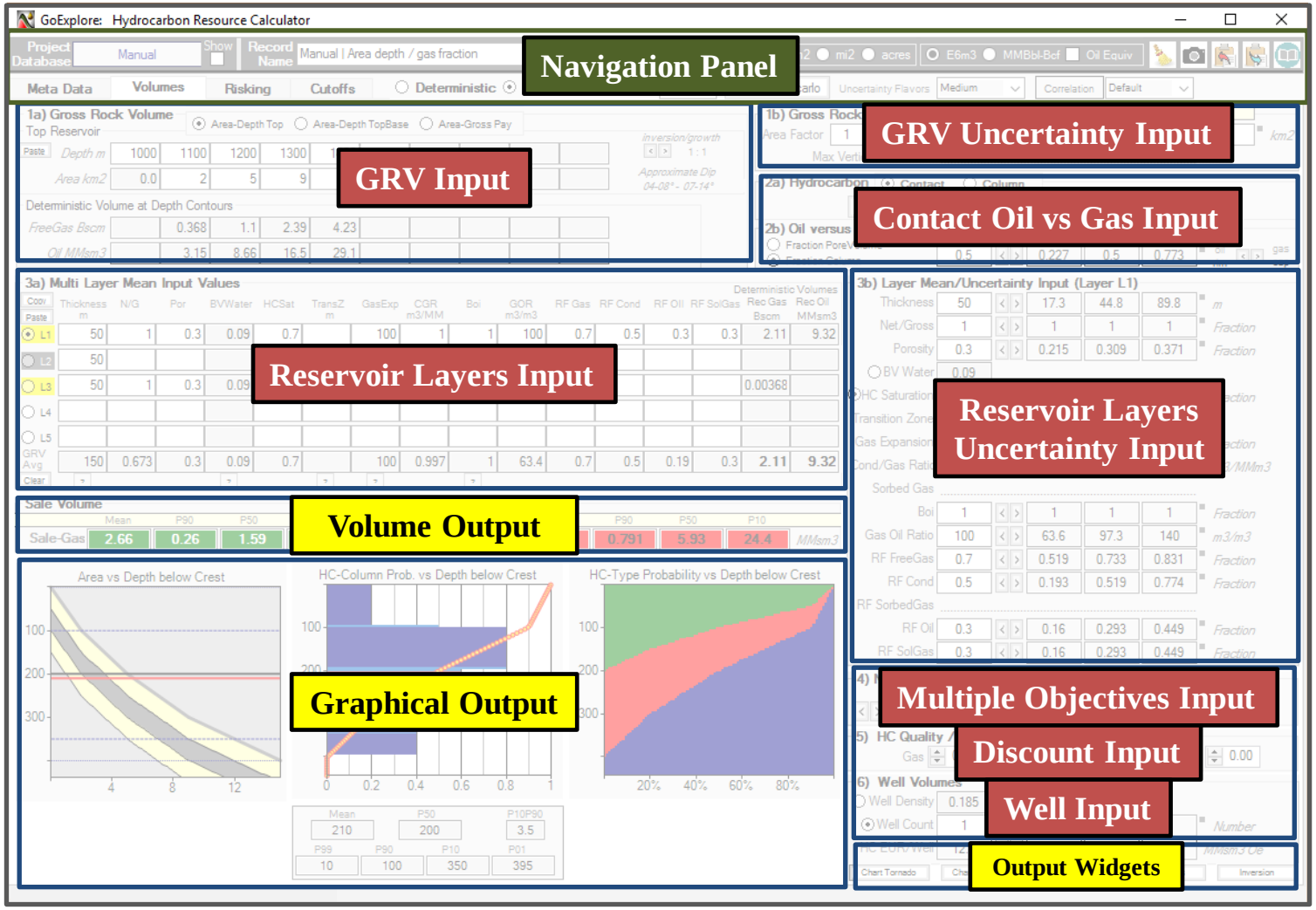

Entire Calculation is on one page (no hidden input)

Compare Volume Calculators Prospector vs. Prospector-Light

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	Prospector	Prospector Light
Volumes	Deterministic & Probabilistic	Deterministic & Pseudo-Probabilistic
Gross Rock Volume	• Top Area-Depth-Contact • Base Area-Depth-Contact • Area-Gross-Pay • Multi-Layer Reservoir • Thickening / Thinning • Onlap / Truncation / Wedge • Column Height Probability Fill-to-Spill • Seal Capacity Column Constraint	• Top Area-Depth-Contact
Inputs	• Uncertainty Distributions • Correlations between Distributions	• Single Numbers
Additional Inputs	• Saturation Height Curve • Sorbed Gas (Unconventional) • HC Quality / Sale Discount • Well Volume calculation • Multiple Reservoir-Seal-Pairs	
Outputs	• Uncertainty Distributions of multiple output Parameters of MonteCarlo Model • Sample Viewer	• Deterministic & Pseudo-Probabilistic Volumes
	• Volume Inversion	
	• Widgets	
License	Lease	Free

GoExplore: Prospector Widgets

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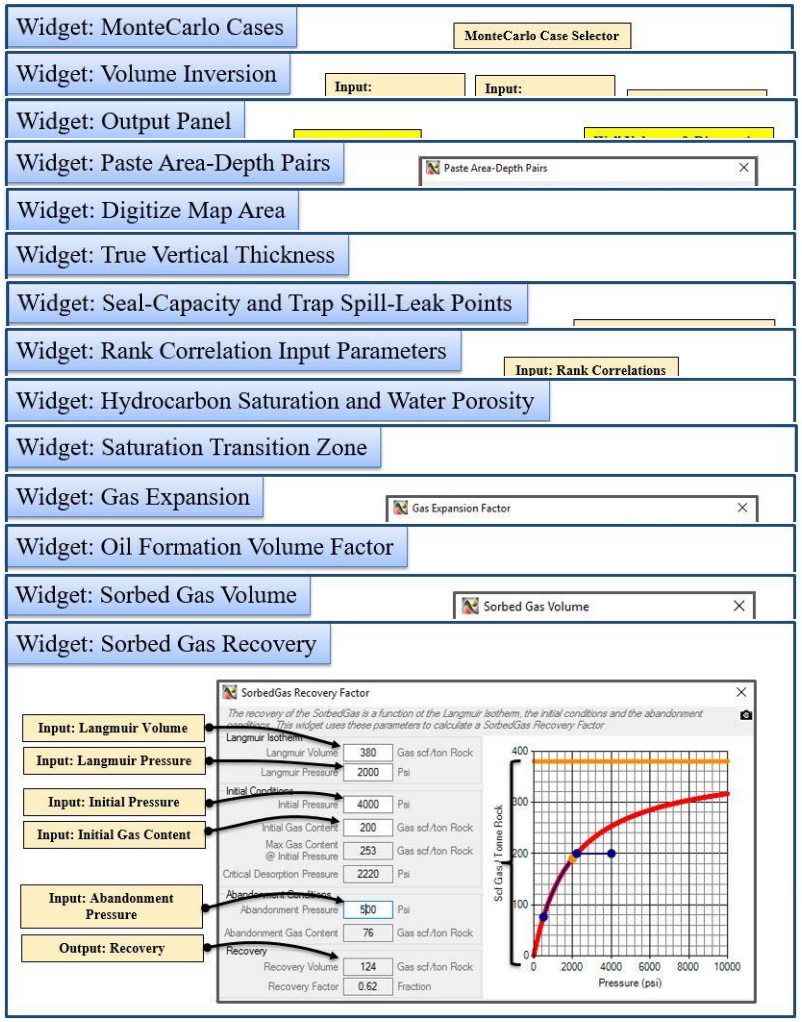
*"small **optional** side applications that facilitate **insight** and a **more efficient and accurate** assessment"*

1. MonteCarlo Cases
2. Volume Inversion
3. Output Panel
4. Paste Area-Depth Pairs
5. Digitize Map Areas
6. True Vertical Thickness
7. Seal-Capacity/Spill-Leak Probability
8. Rank Correlation Input Parameters
9. HC-Saturation and Water Porosity
10. Saturation Transition Zone
11. Gas Expansion
12. Oil Formation Volume Factor
13. Sorbed Gas Volume
14. Sorbed Gas Recovery



Demo

Prospect Volumes Exercise

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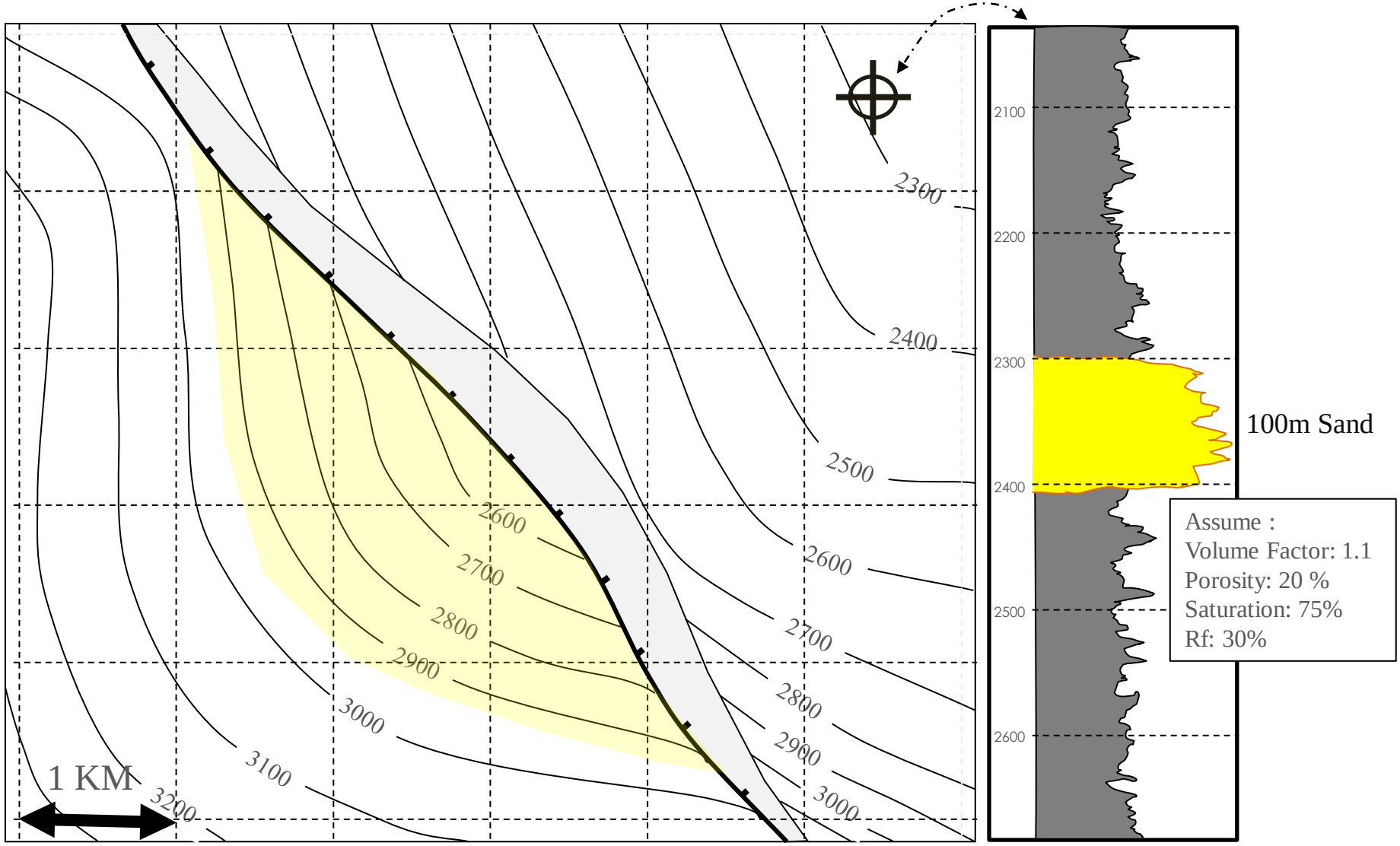

Wrap up (1) Prospector

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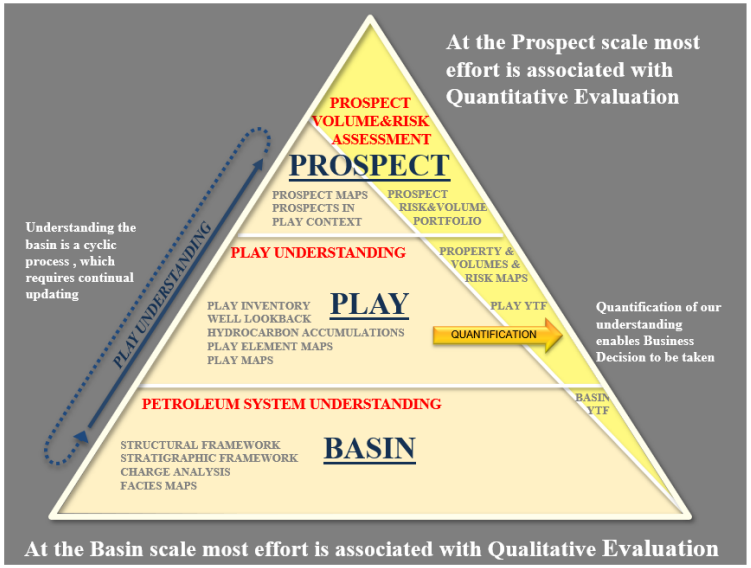
One Tool
Four Windows
Simple Fast Accurate

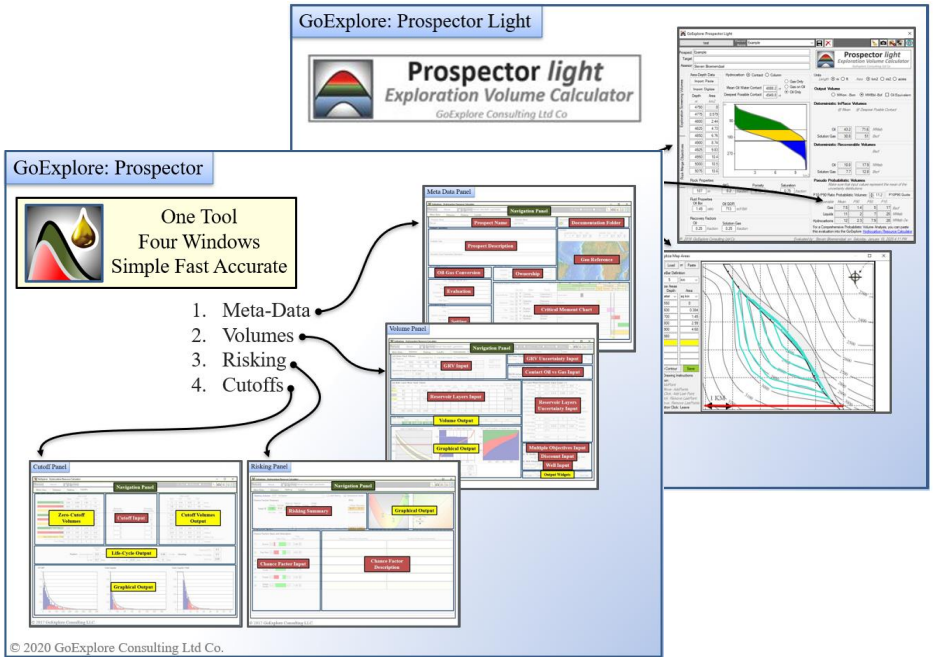
Key Features

1. **Ingeniously Simple:** user interface kept simple, the complexity in the code.
2. **Fast and Accurate**: Get to the right answer fast, intuitive design allows for a very steep learning curve.
3. **Comprehensive**: Form dynamically adjusts to **multiple calculation Methods**.
4. Changes in input give instant output. **Instant Feedback** creates **Insight** (instead of confusion).
5. **Reduced Chance** to have **(unintended) Errors**:
   - **No hidden input**, (all input is visible on one page).
   - **Visualize and Analyze** input and output data instantly.
6. Facilitates the **Auditing** of evaluations (what you see is all the input that resulted in the output).
7. The data can be **Presented as Calculated**, that is in an understandable way.
8. **Quality Control** of Portfolio using Excel and ArcGIS.
9. **Collaboration** and **Quality Assurance** through instant evaluation-sharing.
10. Stand-Alone tool, ability to use on **Business Trips** and **Data-Rooms**.

Wrap Up (2)

- 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.**





Final Slide

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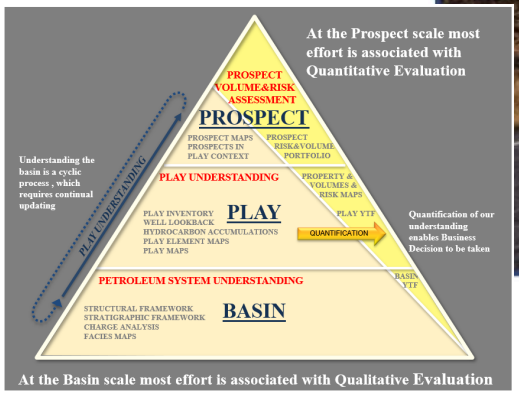
We offer a:

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



You can download the Software at:
www.goexplore.consulting

Contact: Bloemendaal@GoExplore.Consulting

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Any Questions ?

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Thank You