

PROFESSIONAL DIVISION

AFTERNOON Talk



Beyond a Single GRV – Why Geostatistics is Essential for Reliable Gross Rock Volume Estimation, Opportunity Ranking and Avoiding Value Destruction

DATE : Tuesday, 27 October 2026
TIME : 15:00 – 17:30 (Jakarta Time)
VENUE : Hotel Aloft Jakarta Selatan,
Jl. TB Simatupang Kav. 8-9, Cilandak Timur, Jakarta Selatan
SPEAKER : Alessandro Mannini (CEO – Seisquare)
COST : IDR 350K + 11% VAT (IPA Individual. Member)
IDR 450K + 11 % VAT (Non IPA Individual. Member)

SUMMARY:

Gross Rock Volume (GRV) is often reported as a single deterministic number, yet it is controlled by uncertain structure, depth conversion, contacts and spatially variable geometry. In complex geological settings, velocity uncertainty can translate directly into structural mis-positioning and material volumetric risk. This talk explains why geostatistics provides the rigorous framework needed to quantify GRV together with its uncertainty, rather than relying on one apparently precise structural realization.

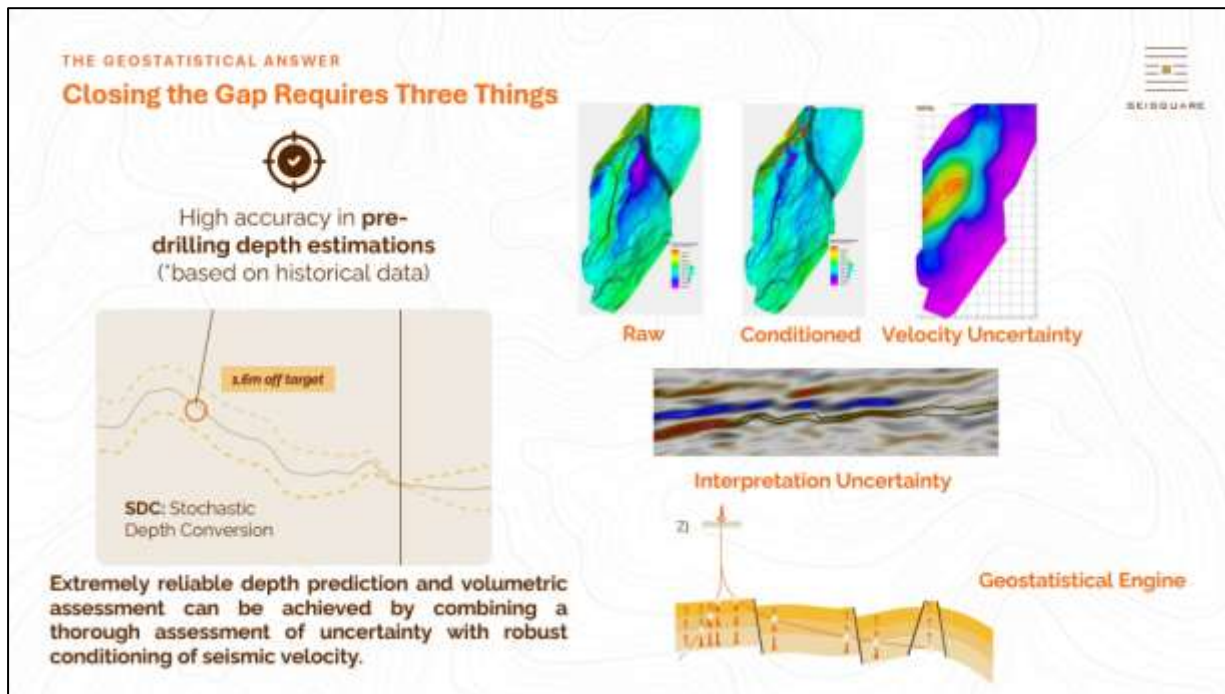
Using practical subsurface examples, the presentation will connect velocity-model uncertainty, geological consistency and spatial correlation to stochastic structural modelling and GRV distributions. Additional slides will introduce the fundamental theory of geostatistics, including spatial continuity, variograms, conditional simulation and uncertainty propagation, and show how multiple geologically plausible realizations support P10/P50/P90 volumetrics and better decisions.

Who Should Attend:

- Geoscientists, geophysicists, geomodellers and reservoir engineers involved in volumetrics and resource estimation.
- Exploration, appraisal and development professionals who use depth maps, structural models or GRV in decisions.
- Technical leaders and decision-makers who need to understand the uncertainty behind reported hydrocarbon volumes

What you'll get :

- A practical understanding of why a single deterministic GRV can be misleading and where hidden volumetric risk originates.
- A clear workflow for moving from depth and structural uncertainty to multiple geological realizations and a GRV probability distribution.
- Practical insight into how poorly quantified GRV uncertainty can lead to misallocated capital, incorrect well placement, suboptimal development decisions and value destruction.
- A framework for using GRV uncertainty to support **better exploration, appraisal and development decisions..**



SHORT BIOGRAPHY



Alessandro Mannini is a subsurface and digital-transformation professional with more than 25 years of international oil and gas experience across exploration, appraisal, development and production. His technical background spans quantitative interpretation, rock physics, seismic inversion, deterministic and geostatistical depth conversion, 4D seismic, field development, equity determination and portfolio/decision analysis.

He has held senior technical and leadership roles with major international energy companies and is currently CEO of Seisquare. Alessandro has a background in geology, mathematics and geostatistics and has worked across the North Sea, Gulf of Mexico, Australia, Africa and Asia, with a strong focus on integrating geophysics, geology, geostatistics and uncertainty into better subsurface decisions.

HOW TO REGISTER

- *please contact to Anna Sulistiyarningsih , email address : anna.sulistiyarningsih@ipa.or.id or WA number : +6281292961610*
- *Complete the Registration Form : <https://forms.gle/2KtaBWZPkM2EkmQP6>*

FUTURE TALKS

Suggestions and volunteers for talks are always welcome. Topics should be relevant to Oil and Gas industry in Indonesia.

NOTE:

- *Cash or transfer payments are required at the entrance to the Room*
- *First come first serve*
- *No cancellation after the confirmation, substitute is acceptable*
- *Please make sure that if you hold a reservation and are unable to attend that you notify the IPA Office before the above date otherwise you will be charged for cost of the meals.*