

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 reduced to a single deterministic estimate, despite being subject to uncertainty arising from structural interpretation, depth conversion and fluid-contact position. GRV is frequently one of the largest—and in many cases the largest—contributors to uncertainty in hydrocarbon In-Place estimates. Even relatively small variations in the velocity model, structural interpretation or fluid-contact position can propagate into significant changes in GRV, ultimately affecting In-Place estimates, project economics and investment decisions.

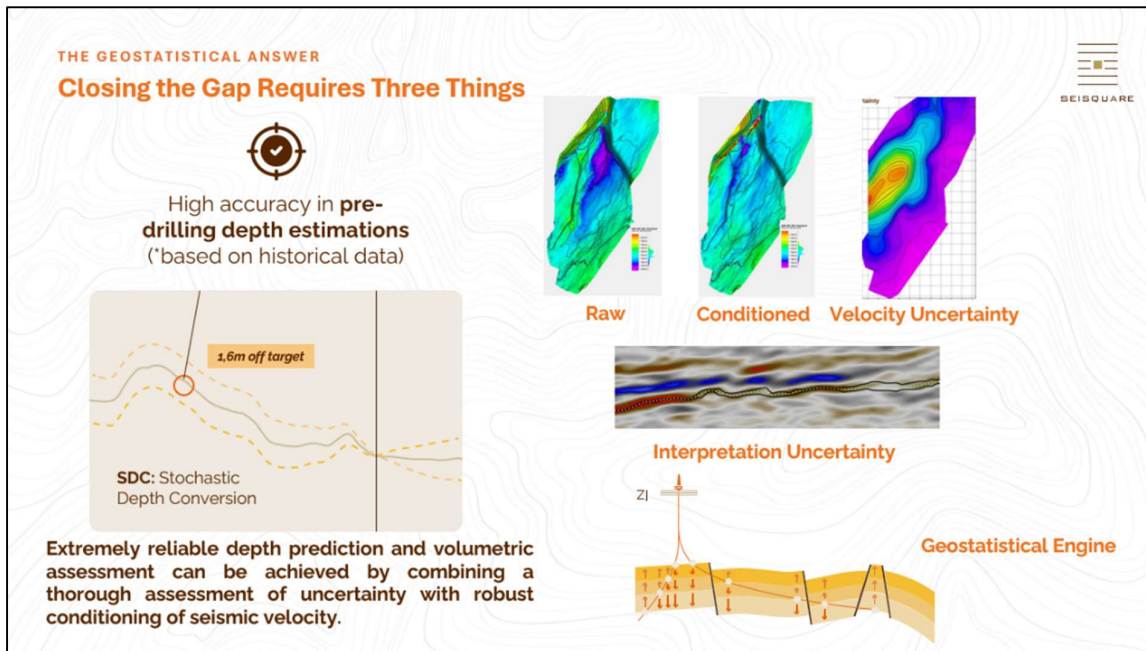
Across a wide range of geological settings, velocity uncertainty can propagate through depth conversion into structural mispositioning and material volumetric uncertainty. Yet, even in today's digital subsurface workflows, while uncertainties in porosity, net-to-gross and saturation are routinely assessed, structural and GRV uncertainty can remain inadequately quantified. This talk demonstrates how geostatistics can integrate velocity-model uncertainty, geological constraints and spatial correlation to generate multiple geologically plausible structural realizations and corresponding GRV distributions. The result is a more rigorous basis for P10/P50/P90 volumetrics, improved risk assessment and better-informed exploration, appraisal and development 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 GRV is frequently a dominant contributor to In-Place uncertainty, and why a single deterministic GRV can be misleading.
- 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.
- Using GRV uncertainty to improve 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 Sulistyaningsih , email address : anna.sulistyaningsih@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.