

NIKO GRAPSAS

EXECUTIVE BRIEF

Niko Grapsas works where incomplete physical evidence must support increasingly consequential exploration, autonomous action, infrastructure, capital, and institutional commitment.

Exploration Geophysicist and Scientific Entrepreneur
Founder, Sustainable Exploration
Developing Exploration Systems and From Perception to Permission

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Executive profile

Niko Grapsas combines published geophysical research, enterprise AI company building, energy and infrastructure systems, and the development of a research architecture for exploration under persistent uncertainty. His current work spans Exploration Systems, Evidence-State Sufficiency, and From Perception to Permission—a governed geophysical autonomy program whose GEAE kernel studies how evidence and delegated authority should bound the next exploration action. He is most useful where technical evidence begins carrying operational, infrastructure, capital, or mission consequence.

Science B.S. Geophysics & Planetary Science; Argonne beam-time operations; first-author porous-media research. M.Sc. Sustainable Energy Futures	Executive record Co-Founder, Chief of Strategy & Co-CEO, Inpleo; Fortune 500 programs; multi-million-dollar revenue scale.
Research Exploration Systems, Evidence-State Sufficiency, and From Perception to Permission / GEAE across lunar, marine, and selected subsurface cases.	Institution Founder of Sustainable Exploration, translating selected research into bounded applied reviews around consequential physical commitments.

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02

Distinctive Combination and Relevance

A concise basis for introduction, conversation, or referral.

Capability	Evidence
Physical-system inference	Geophysics, indirect sensing, experiment design, remote sensing, and subsurface uncertainty.
Exploration systems research	Evidence sufficiency, plausible-state reasoning, disturbance, optionality, commitment, formal architecture, and validation design.
Governed autonomy / decision systems	Decision-dominant uncertainty, disturbance-adjusted measurement selection, authority envelopes, Exploration Action Permits, and historical-replay validation.
Company and institution building	Six years building Inpleo; current formation of Sustainable Exploration and controlled research programs that connect technical evidence to organizational use.

Representative relevance

- Research and exploration programs that need an integrated scientific object, evidence strategy, governed-autonomy architecture, or cross-disciplinary research program.
- Space agencies, laboratories, autonomy and robotics teams, and frontier operators testing how evidence should bound sensing, disturbance, sampling, placement, or dependency.
- Operating companies, infrastructure developers, investors, and boards navigating consequential decisions before physical uncertainty is resolved.

Current emphasis: research leadership, exploration systems, governed geophysical autonomy, and senior strategy / institution-building roles, alongside bounded Sustainable Exploration engagements.

Primary next step: A focused conversation around the specific research, exploration, autonomy, operating, or commitment problem the receiving institution is trying to solve.

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