

KINPRO®

AGRS + X-Vision Technology Platform Exploration Protocol — Four-Stage Algorithm

Application Example: Gaza Province, Mozambique

All exploration work is carried out using remote geophysical sensing, in accordance with internationally recognized **FTG + Magnetics** methods and KINPRO's proprietary **AGRS (Aerospace Geophysical Remote Sensing)** technology — a more advanced, precise, and analytically rigorous alternative to conventional acquisition approaches.

STAGE 1

Preparatory Stage — Space-Based Geophysical Surveys

Stage 1 is conducted prior to license award by INP (Instituto Nacional de Petróleo, Mozambique), using AGRS and X-Vision methods.

NOTE: An oil, gas, or energy company may obtain an exploration and production license under the Petroleum Law of the Republic of Mozambique (2014).

Satellite Platforms Utilized: Landsat ETM+ (archive), Landsat 8/9, Sentinel-2, GOCE, Swarm, CSES-1/2 (China Electromagnetic Satellite), GRACE and GRACE-FO, WorldView-3, WorldView Legion, TerraSAR-X, Gaofen-1, Gaofen-12, and others.

Survey Modalities: Gravimetry, magnetometry, multispectral and hyperspectral imaging across multiple spectral ranges, and radar — conducted at map scales of 1:200,000 and 1:100,000.

Program Duration: 3–4 months, inclusive of primary data processing.

On completion, a Technical Report and supporting geophysical materials are delivered to the client. Results are presented and discussed at a technical conference with the client's specialist team.

Stage 1 Deliverables:

- Geological, geophysical, lithological, and stratigraphic characterization of the study area;
- Identification and delineation of geophysical anomalies constituting direct hydrocarbon indicators;
- Predicted quantitative characteristics of hydrocarbon raw material (natural gas) contained within GPS-referenced traps and structures;
- Catalog of all identified traps and structures containing predicted hydrocarbon resources, including natural gas;
- Estimated depth range of hydrocarbon-bearing structures;
- Prospectivity ranking of all identified structures by commercial potential;

- Recommended sequence for follow-on geological exploration and appraisal of identified gas-bearing structures.

Stage 1 pricing is agreed with the client immediately prior to contract execution.

STAGE 2	Airborne Geophysical Surveys — Regional Exploration & Resource Assessment
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Stage 2 is conducted following license award. AGRS airborne surveys are executed at high resolution as part of the regional exploration program, at map scales of 1:50,000, 1:25,000, and 1:10,000.

Survey Modalities Executed:

- Gravimetry;
- Magnetometry;
- Airborne electromagnetics (AEM);
- Airborne gas geochemistry — detection and analysis of hydrocarbon gases migrating through the rock column to surface;
- Gamma-ray spectrometry — applied to liquid hydrocarbon and gas accumulation exploration;
- Additional proprietary geophysical survey methods (details withheld as confidential).

Stage 2 Objectives & Deliverables:

- Definition of the tectonic framework of the study area;
- Characterization of basement structure and depth;
- Structural modeling of sedimentary cover horizons;
- Salt tectonic analysis;
- Construction of a high-precision topographic and structural model of the study area;
- Localization and spatial delineation of hydrocarbon-prospective targets (deposits and traps) in GPS coordinates, with prospectivity ranking;
- Construction of three-dimensional reservoir and structural trap models for all identified targets;
- Assessment of prospective gas and oil resource volumes in accordance with PRMS criteria;
- Establishment of a tectonic framework for oil and gas geological domain classification;
- Elimination of lowest-potential areas from further investigation;
- Optimization of the subsequent 3D seismic program design;
- Integrated processing of all geological and geophysical data from Stage 1 and Stage 2 using the X-Vision technology platform and KINPRO's proprietary hardware-software complex;
- Delivery of a prospective resource estimate for natural gas, prepared in accordance with PRMS criteria using KINPRO's proprietary methodology, accompanied by a risk assessment;
- Definition of technical requirements for the 3DHD (High Definition) seismic acquisition program.

The Stage 2 Technical Report is delivered to the client in the ArcGIS system and in hard copy, and contains all primary and processed airborne geophysical data — including all maps (geological, geophysical, topographic) and interpreted diagrams produced during the program.

Program Duration: Maximum 7 months from mobilization to report delivery.

Operational Constraints:

- Minimum survey area: 1,000 km²;
- A cost supplement of up to 20% applies in areas with complex terrain (mountainous topography, limited airfield access) or for offshore operations. Details are agreed with the client at the project definition stage.

STAGE 3

3DHD Seismic — High-Definition Structural Imaging

Stage 3 3DHD (High Definition) seismic surveys are conducted at a detailed scale of 1:25,000 or finer.

Stage 3 Deliverables:

- Integrated processing of all data from Stages 1, 2, and 3;
- Construction of three-dimensional geophysical models of traps and structures;
- Characterization of reservoir and seal lithology and petrophysical properties;
- Integrated X-Vision processing of the full Stage 1–3 dataset to define technical requirements for the Drilling Plan;
- Preparation of the exploration target for first parametric well spudding;
- Designation of the surface location of the first well;
- Definition of the drilling program and technology;
- Preparation and delivery of the Stage 3 Technical Report, including all exploration program materials;
- Presentation and discussion of Stage 3 results at a joint KINPRO–client technical conference;
- Definition of geological objectives, technical parameters, and administrative requirements for parametric drilling;
- Finalization and client approval of the Drilling Plan.

Program Duration: Maximum 7 months.

STAGE 4

Drilling Operations

Drilling operations are executed by the client's contractors in accordance with the client-approved Drilling Plan and using client-supplied equipment and facilities.

The required number of parametric wells is agreed between INP, the client, and an international reserve auditor. The auditor evaluates drill-confirmed gas reserves and determines whether the discovery qualifies for formal field recognition.

Indicative Timeline: Approximately 2 months (60 days) per onshore well. Total program duration is determined by the required number of wells.

Following successful international reserve audit of KINPRO's gas resource estimate, KINPRO's scope of services is formally concluded. Final financial settlement is completed and an **Act of Completed Work** is executed between the client and KINPRO.

Antony Schur

KINPRO® Chief Operations Director