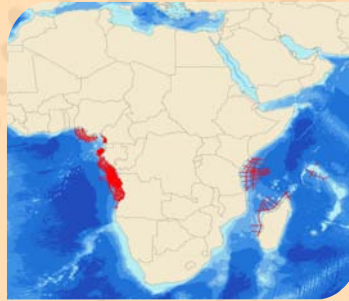


AfricaSPAN

PROGRAM OVERVIEW

In response to oil and gas companies increasing interest and activity levels in the offshore hydrocarbon provinces of Africa, ION's GeoVentures group designed the AfricaSPAN™ group of programs to help improve understanding of the petroleum systems in and around the continent. AfricaSPAN provides the industry with its first regionally consistent advanced seismic datasets around Africa — seismic and geologic programs specifically designed to provide better understanding of the multiple, active petroleum systems that exist around the continent. In addition, each of the programs within AfricaSPAN have been designed with the active participation of national and international oil and gas companies and regional experts.



AfricaSPAN programs are:

- NigeriaSPAN – Gulf of Guinea (~5,000 km). New Infill acquisition (approximately 6,000 km) scheduled for start on April 15, 2011.
- EquatorSPAN – offshore Cameroon and Northern Gabon (~4,400 km)
- CongoSPAN I and II – Two phased study of offshore Angola, Congo and Gabon (~27,000 km)
- Gabon Deep Tow – Study of Southern Gabon (~700 km)
- East AfricaSPAN – offshore Madagascar, Kenya, Tanzania (1 and 2), and Seychelles (~21,000 km), Tanzania (Licensing Round) and Mozambique

PROGRAM OBJECTIVES

- To advance understanding of the petroleum systems along the western and eastern coasts of Africa
- To improve understanding of current plays and their regional settings
- To provide E&P companies with the data needed to evaluate hydrocarbon prospects around Africa and build potential for new and frontier areas

About BasinSPANS™

ION's BasinSPANS (SPANS) are geologically inspired, basin-scale seismic data programs acquired and depth-imaged by ION's unmatched GX Technology experts using the most advanced geological and geophysical processing tools available. They provide upstream companies with the ability to evaluate the geologic evolution, deep basin architecture and depositional and structural histories of entire petroleum systems in a region.

Unlike conventional multi-client seismic surveys, BasinSPANS are custom designed in collaboration with ION's GeoVentures group, regional experts and the O&G companies. Once the program objectives are agreed upon, ION serves as project manager and applies the best survey design, acquisition and processing technologies with a proprietary mindset that adds value and achieves exceptional results. Such in-depth data and the associated interpretation tools greatly assists asset managers with portfolio management and provides significant risk mitigation as they develop exploration and appraisal programs with greater confidence.

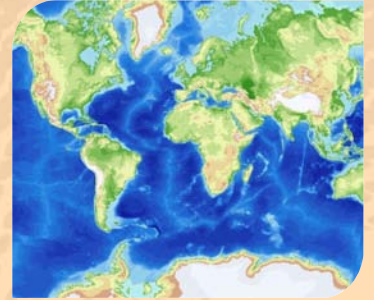
ION owns one of the most up-to-date seismic data libraries in the industry, consisting of 2D, 3D and full-wave (multicomponent) data from around the world.

KEY COMPONENTS

- Acquisition, processing and imaging parameters and workflows were especially optimized for deep imaging objectives by ION's own GX Technology using Image-Driven™ expertise
- Enhanced imaging of pre-salt depocenters (CongoSPAN), basement architecture and rift-based tectonic features
- Improved understanding of source rock distribution and subsequent migration pathways
- Ties key structural and depositional features with significant wells
- Interpretation uses well tops from database where available

DELIVERABLES, WITH FULL PARTICIPATION, INCLUDE

- Navigation merged shot records (SEGY)
- Final Kirchhoff PreSDM stack (SEGY)
- Final PreSTM stack, gathers and velocity model (SEGY)
- Final depth, interval velocity model
- Structure and stratigraphic interpretation
- Gravity and magnetic data
- Final acquisition, processing and interpretation reports (full datasets only)

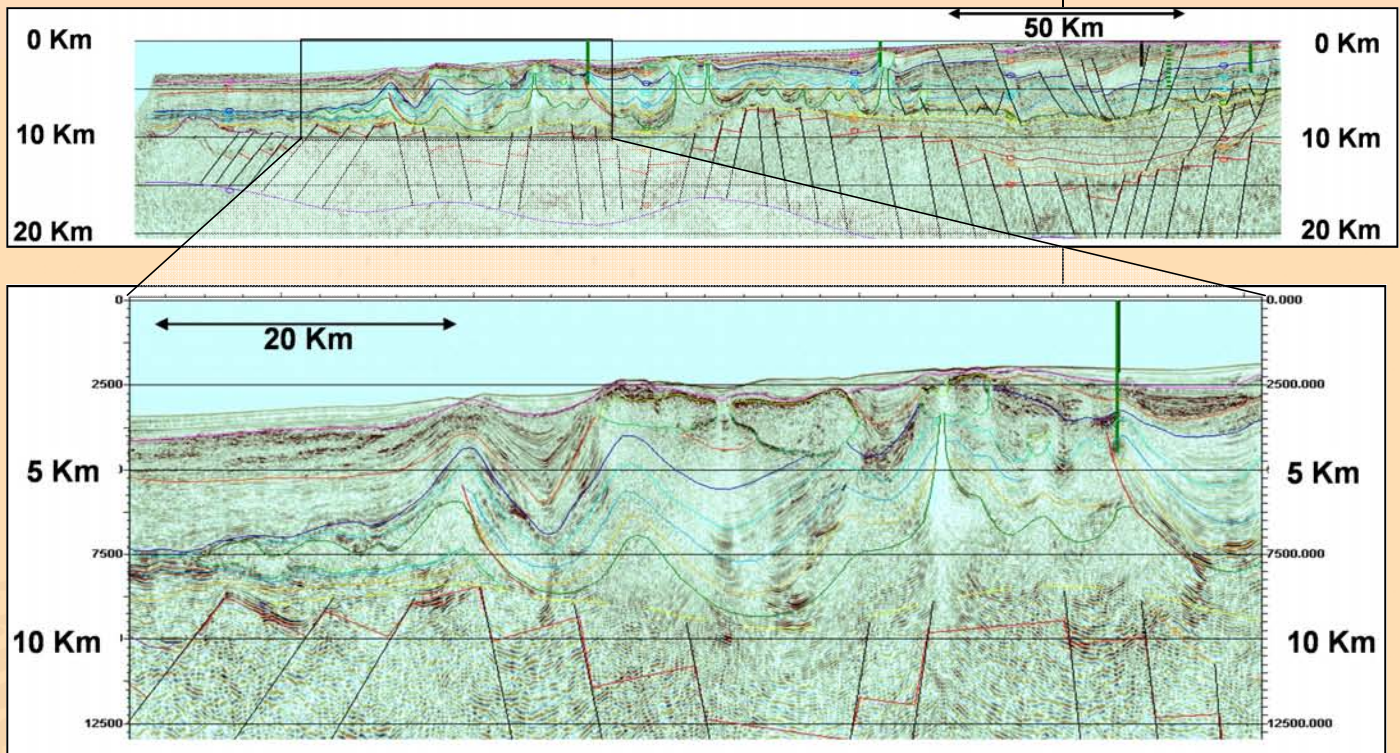


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