

# BasinSPANS

## **BASINSPANS COMPREHENSIVE SOLUTION, A PROVEN MODEL**

ION's customized BasinSPANS™ (SPANS) are seismic programs acquired and depth imaged using the most advanced geophysical technology available. BasinSPANS offer a high-powered source with very long listen times and offsets up to three times that of conventional data, allowing for signal recording from the deepest geologic reflectors. Proven around the world, the BasinSPANS big-picture model, from ION's GeoVentures group, focuses on deep, regional objectives. It prioritizes and selects best-in-class processing methods, acquisition techniques and technologies, and survey design parameters to deliver optimum results. In addition, SPAN data is processed with state-of-the-art imaging solutions from ION's GX Technology, the leader in depth migration.

## **SEE THE BIG PICTURE**

BasinSPANS provide insights into the geological relationships across the basins of a particular region and allow E&P companies to build a consistent stratigraphic framework in the area. Basin studies image new potential for undiscovered reserves, encouraging new investment in deeper parts of the basins and in areas that were thought to be non-prospective. Designed by geology and geophysical experts in close collaboration with oil company geoscientists, BasinSPANS incorporate existing data, including legacy 2D or 3D seismic, and available well data for optimal results.

## **EXTENSIVE WORLDWIDE DATA LIBRARY**

In an attempt to replace aging fields, reverse the decline trend and explore frontier regions, governments and corporations around the globe are turning to BasinSPANS as a comprehensive solution for their exploration challenges.



ION owns the most up-to-date seismic data library in the industry consisting of 2D, 3D, and full-wave [multicomponent] data from around the world.

## **Built-to-Fit, Image-Driven Solutions**

ION's Image-Driven™ portfolio of tools allows us to develop and deliver comprehensive, customized solutions across the entire seismic workflow. Focusing on our customer's imaging objective, we develop tailored solutions that integrate advanced hardware, software, and expert services. Our ultimate goal is to improve image quality while reducing risk and cost at every stage of the seismic process.

Whether working on 2D programs for regional geologic insight; 3D P-wave surveys to deliver high-quality structural imaging; or full-wave surveys that require a more complete measurement of the seismic wavefield — we always begin with close customer collaboration to fully understand and define their objectives. We then pinpoint survey parameters, acquisition technologies, and processing applications to deliver customized seismic imaging that will meet those objectives.

ION can provide the customized seismic imaging programs to meet your unconventional reservoir challenges. You can count on ION's proven experience, leading-edge toolkit, and world-renowned team of geoscientists and seismic operations experts to maximize the economic value of your resource play.

## **BASINSPANS WORLDWIDE DATA LIBRARY INCLUDES:**

### **GULFSPAN**

GulfSPAN™, the most mature regional program of our library, includes multiple phases, each of which allows improved geological understanding of the entire basin.

### **NOVASPAN**

NovaSPAN™ provides a comprehensive geologic understanding of the basin architecture and includes over 3,400 km of new 2D seismic acquisition.

### **CARIBESPAN**

With 10,878 km of high-quality, deep-focused, depth-migrated seismic data, CaribeSPAN™ is the area's first regional seismic dataset.

### **AFRICASPAN**

AfricaSPAN™ is the first regional seismic and geologic program designed to provide better understanding of the multiple, active petroleum systems that exist around Africa.

### **COLOMBIASPAN**

ColombiaSPAN™ provides 3,749 km of regional 2D seismic framework of the area, as well as regionally spaced prestack depth-imaged data and interpretation support.

### **ARCTICSPAN**

ArcticSPAN™ is improving our understanding of the regional geology and less explored basins in the frontier regions of northern Canada and Alaska.

### **INDIASPAN**

Designed and executed in cooperation with DGH, India, IndiaSPAN™ is the first multi-client seismic dataset acquired off the east and west coasts of India.

### **JAVASPAN**

The JavaSPAN™ program provides a regional 2D seismic framework of the highly prospective areas offshore Indonesia and Malaysia.

### **NORTHEAST ATLANTICSPAN**

Northeast AtlanticSPAN™ contains over 7,500 km of high-quality, consistent regional seismic data, covering Ireland, Faroe / Shetland Islands, and Norway.

### **BRASILSPAN**

BrasilSPAN™ encompasses approximately 45,000 km of newly acquired seismic data along the coast of Brazil from Foz do Amazonas to Pelotas.

### **ARGENTINESPAN**

The ArgentineSPAN™ project is a regional seismic dataset offering a geologic study in the southern hemisphere's most underexplored offshore region.

### **NATUNASPAN**

Located in territorial waters immediately adjacent to Malaysia and Vietnam, NatunaSPAN™ comprises approximately 2,500 km stretching east to west.

### **ARAFURASPAN**

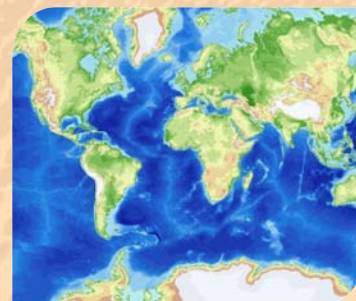
Boasting an extreme range in water depths and a step change in data quality, ArafuraSPAN™ covers the very shallow to deepest parts of the Arafura Sea.

### **BIGHTSPAN**

BightSPAN™ delivers a better understanding of the multiple potential source rock intervals and provides exciting new geologic insights into the Australian Bight.

### **NORTHEAST GREENLANDSPAN**

Using our proprietary acquisition technology, NE GreenlandSPAN™ images under thick ice in one of the world's most promising untapped resources.



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