

- LAND
- ↓ DOWNHOLE
- ~ SEABED
- ≡ MARINE

# SigmaWave

DAS Seismic Solution



# SigmaWave

Distributed Acoustic Sensors (DAS) are a revolutionary photonic sensing technology which converts an optical-fiber into a linear array of discrete vibration sensors.

## Benefits of DAS technology

- Non-intrusive due to the small size - ideal for permanent installation
- High pressure (up to 30 kpsi) and high temperature resistance (up to 300 degC) with no in-well power
- Quickly acquire a large amount of data with long antenna (up to 10 km)
- Improved spatial sampling (down to 0.67 meter)
- Lower cost and easier permanent deployment
- Combinable with conventional electronic based sensing and measurement systems

## Applications

- 3D/4D VSP on permanently installed fibers
- VSP on permanently installed fiber and on hybrid wireline



The  
Fiber  
is the  
Sensor

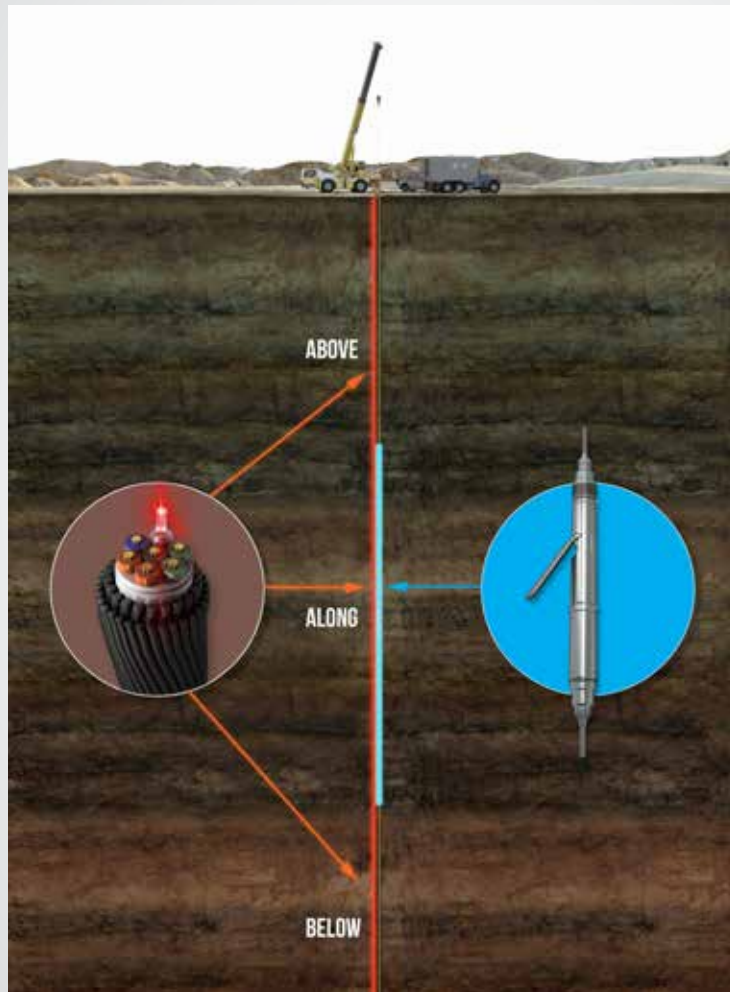
## // THE DAS SOLUTION FOR SEISMIC

- Fully integrated source management, compatible with any type of seismic source
- Real-Time seismic data visualization and advanced quality control
- Real-Time SEG-Y generation
- Combinability with Sercel downhole geophone arrays for hybrid combination



# // IMPROVED DATA QUALITY

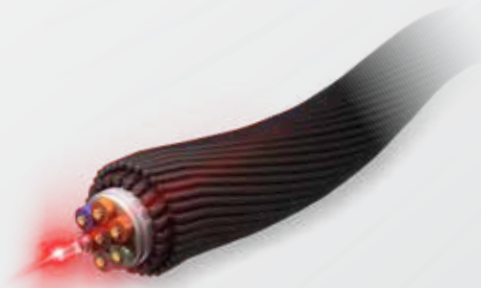
- User selectable gauge length for optimized seismic survey
- Hybrid solution capability via combination with Sercel downhole geophone arrays-adding in high-sensitivity and 3C geophone measurements where it is necessary
- Availability of custom De Regt DAS cables (wireline and surface)
- High-sensitivity fiber option
- Availability of custom tubing encapsulated fiber cables for permanent installation



# // THE MOST RELIABLE SOLUTION

- Sercel reputation in seismic equipment; field proven WaveControl and WaveLab II front end
- Fotech expertise in DAS technology; field proven system stability
- Ruggedized field worthy packaging





# SigmaWave

## DAS Seismic Solution

### **Sercel - France**

16 rue de Bel Air  
B.P. 30439 - 44474 CARQUEFOU Cedex  
Téléphone: (33) 2 40 30 11 81  
E-mail: [sales.nantes@sercel.com](mailto:sales.nantes@sercel.com)  
SAS au capital de 25 000 000 €  
Siège Social: 16 rue de Bel Air - 44470 CARQUEFOU  
378.040.497 R.C.S. Nantes Code APE 2651B

### **Sercel Inc. - U.S.A.**

17200 Park Row  
Houston, Texas 77084  
Telephone: (1) 281 492 6688  
E-mail: [sales.houston@sercel.com](mailto:sales.houston@sercel.com)

[www.sercel.com](http://www.sercel.com)

© Sercel 01/22

Produced according to the Sercel environmental printing standard

