THE
SUB-BOTTOM IMAGER™ (SBI)

FEATURES
• Acquires continuous 3D acoustic volumetric swath: 5m wide to depths of 5 – 8 m
• Depth of burial, out of straightness, debris and decommissioning surveys
• Identifies size, shape and orientation of buried hazard with 10 cm resolution
• Images AC / DC cables: no tone or power required
• Depth of burial repeatability better than 10 cm accuracy
• Images beyond the 1.5 m limitation of other systems
• Verification of magnetometer targets: reducing required unexploded ordnance investigations up to 80%
• Shallow geohazard pre-route surveys

APPLICATION AND MARKET
• Pre-route engineering surveys
• Decommissioning surveys
• Unexploded ordnance service support
• Pipeline / cable as-laid / as-buried surveys
• Pipeline and cable integrity surveys

BENEFITS
• Surveys can be carried out on energized cables
• The SBI provides accurate and repeatable depth of cover data
• Accurate location and size estimates of large objects, such as boulders, adjacent to pipelines and cables
• Customer is provided with images of the acoustic anomalies
HIGH RESOLUTION 3D SAS SUB-BOTTOM IMAGERY

3D volumetric data set - one line gives 5m swath of coverage at the seabed

Horizontal slice reveals the cable image within the volume

2D profile view of the cable

SBI SURVEY RESULTS OF A BURIED UNEXPLODED ORDNANCE (UXO)

SBI data imagery as seen in real-time – 2D vertical profile slice

Visual representation of actual buried UXO located by SBI and previously undetected by magnetometry and sub-bottom profiler