

SUBSEA TECHNOLOGY

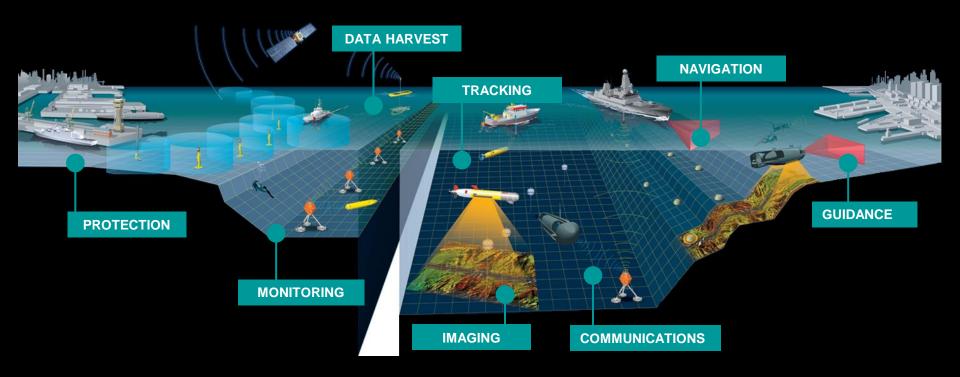
AUV swarm communication network

Ioseba Tena Global Business Manager – Marine Robotic Platforms

> POSITIONING NAVIGATION COMMUNICATION MONITORING IMAGING

Overview

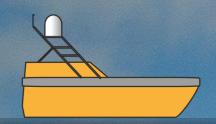






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Interconnected Subsea Environment





- Increase Search Classify Map (SCM) Survey Area.
- Increase Mission Quality and Tempo.
- Improve Percentage Clearance.

Requirements



- Scale AUV operations.
- Adapt mission based on best-of-breed decisions.
- Share the communication channel.

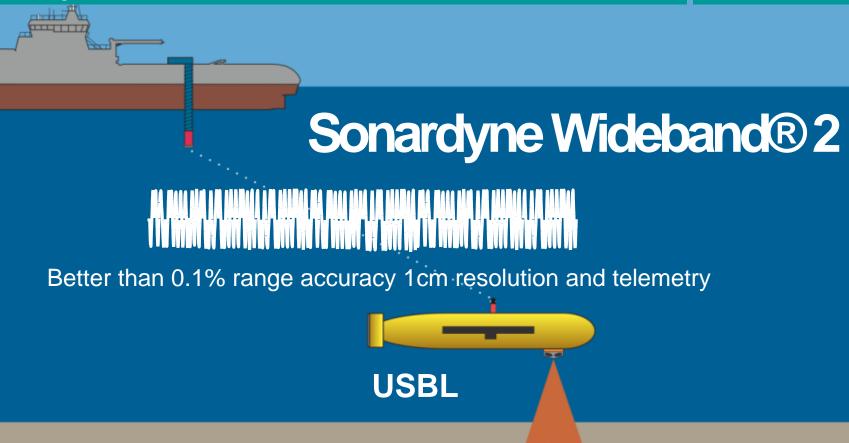
AUV Tracking & Communications



"Today we can track and communicate across full Ocean depths."



AUV Tracking & Communications



AUV Tracking & Communications



"We Communicate and Share Critical Data"

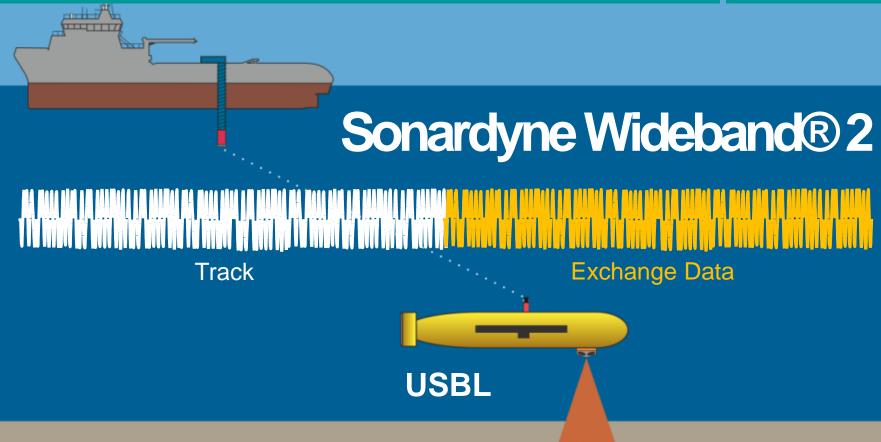
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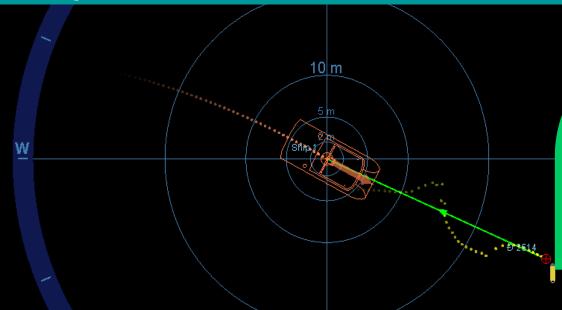






Sound in depth

AUV Tracking & Communications



Battery: 95% Status: Green Mission: W4 Lat: 50.33503° Long: -4.160042°

"Track and Communicate with AUV"



AUV Tracking & Communications





AUV Tracking & Communications



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AUV Tracking & Communications

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TCVR - RSZ

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- Nano AvTrak 6 OEM and AvTrak 6 OEM available
- Bespoke designs also available on request
- All AvTrak 6 family use 6G common software platform
- Nano AvTrak 6 OEM is the smallest transceiver available in the market at 56 mm x 88 mm





Communications Channel

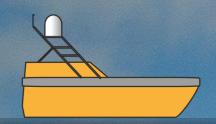






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Interconnected Subsea Environment



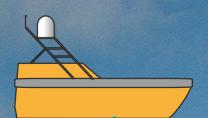




Individual Interrogate

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Common Interrogate

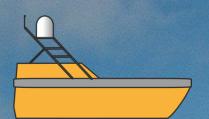




Total Situation Awareness



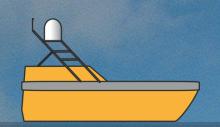




Modem Mode





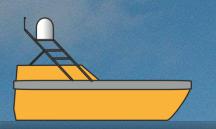


AUV transceiver

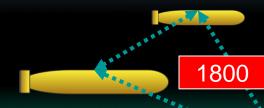
Sound in depth

3100

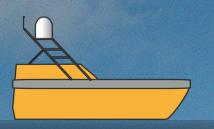
Interconnected Subsea Environment



Frequency Layers





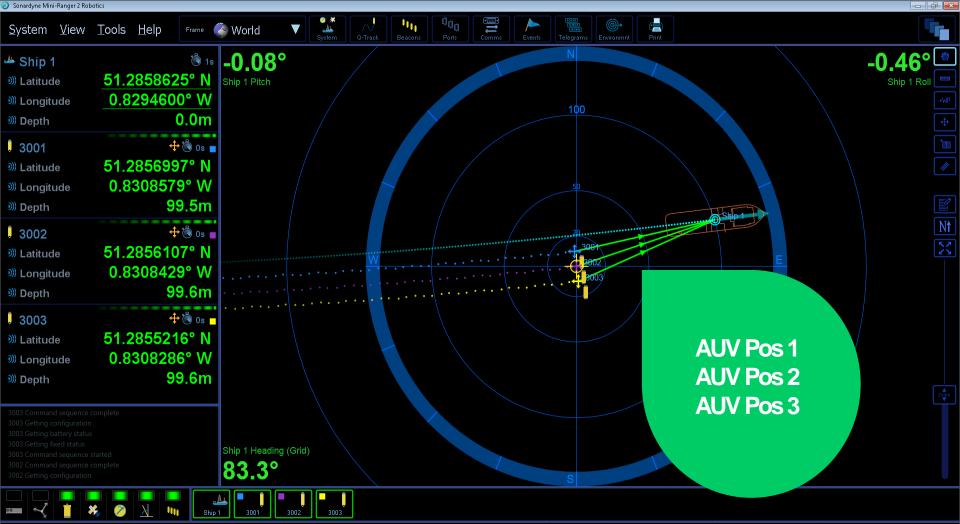


Frequency Layers









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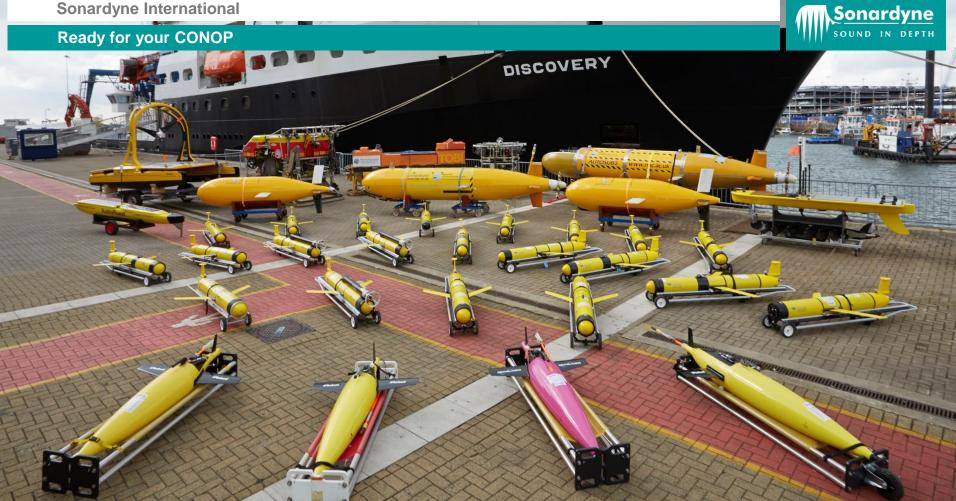


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Thank you for your time today Any questions?

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POSITIONING NAVIGATION COMMUNICATION MONITORING IMAGING