

COMPANY PROFILE



- French Company
- Defense Focused since 2010
- Present in more than 80 countries
- MCM & ASW
- AUVs, hand held sonar, training target, and sonar calibrator
 - EOD
 - ARMY / NAVY / MARINES Clearance Diver
 - MCM Group
 - Special Forces
 - Combat Divers
 - SAR / Coast Guard
 - Maritime POLICE



















Manned-Unmanned Teaming is the collaborative use of both manned and unmanned systems to achieve a common objective.













Minimize the risks to divers and increase the speed of operations







- Minimize the risks to divers and increase the speed of operations
- Humans at the center of operational decisions







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- Humans at the center of operational decisions
- **®** Simple and affordable solution for optimized missions







COMPLEMENTARITY BETWEEN THE STRENGTHS OF TRAINED DIVERS AND AUVs

- Effectiveness of EOD diving operations
- Minimizing associated risks in the water
- Increase missions' speed and covered areas
- Reducing costs of missions



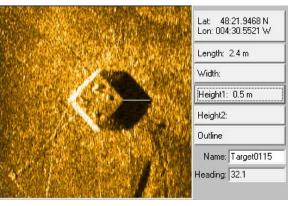


EXTEND THE TRADITIONAL SCOPE OF OPERATIONS OF EOD DIVERS

- Mine Countermeasure Missions (MCM)
- Very Shallow Water missions (VSW)
- Rapid Environmental Assessment (REA)
- Search And Locate (SAL)
- Search And Rescue (SAR)
- Amphibious and Beaching operations
- Harbor protection
- Intelligence, Surveillance, and Reconnaissance (ISR)







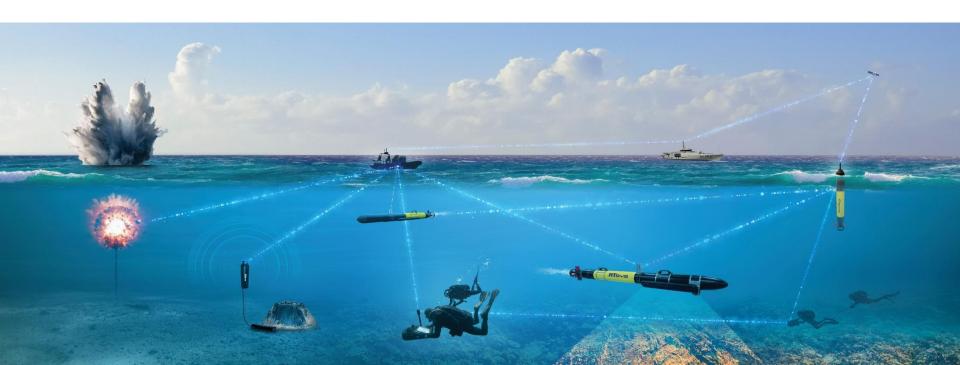


MANNED-UNMANNED TEAMING... HOW?

One unique Surface Communication Module
One unique Seabed Warfare Data Center

One unique underwater communication device RACAM® lightweight and compact acoustic modem natively installed on every device







MANNED-UNMANNED TEAMING... HOW?

Real time tracking & communication Over 2 km point to point and up to 5 km with relay beacon

All mission units share the same mission

Diving commander can follow from the surface the proper tracking of the underwater asset rails in real time





SONADIVE HANDHELD SONAR



- Diver's navigation, imaging under zero visibility, communication
- 12" screen
- GPS INS DVL
- Text messages
- Underwater survey up to 100m
- Positioning accuracy less than 5m constantly



SONABLOW ACOUSTIC FIRING SYSTEM

- Neutralization of mines no wires
- 2km acoustic range
- 7 days autonomy
- Encrypted data
- Safer and easier process
- Triggering at any time from the surface



MANNED-UNMANNED TEAMING WHAT THE TECHNOLOGY CAN BRING TO DIVERS

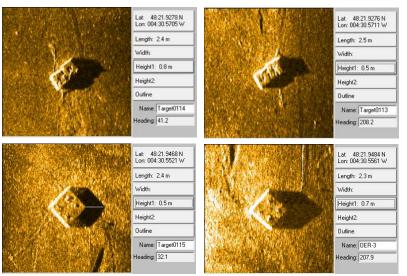


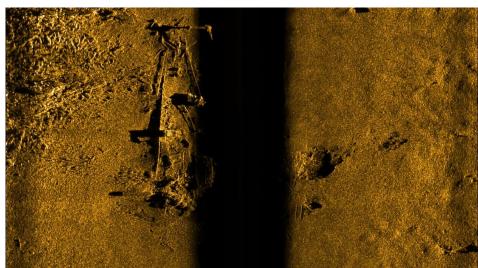


MANNED-UNMANNED TEAMING SOLUTION

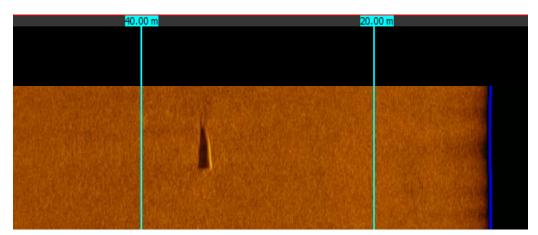


900 KHZ MICRO SSS NemoSens





450-9000 KHZ MICRO SSS Comet-300



MKIV ENGLISH MINE

Length: 2,8m

Width: 0,7m

MANNED-UNMANNED TEAMING SOLUTION



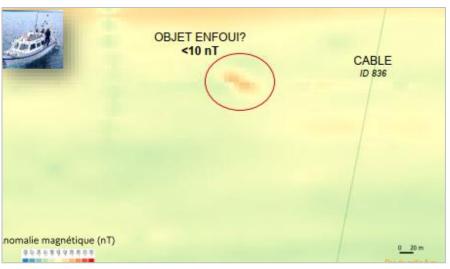
MAGNETOMETER



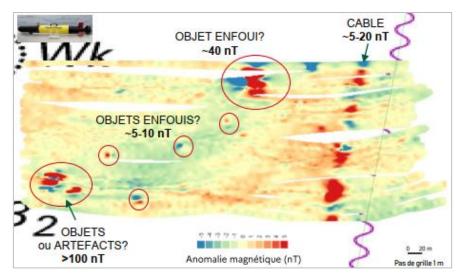


Vector magnetometer APS 1540





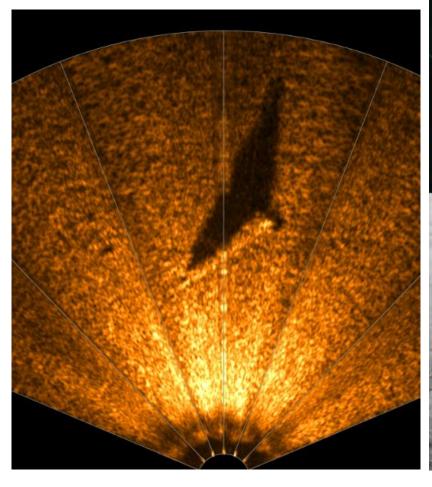
Towed scalar magnetometry (surface)

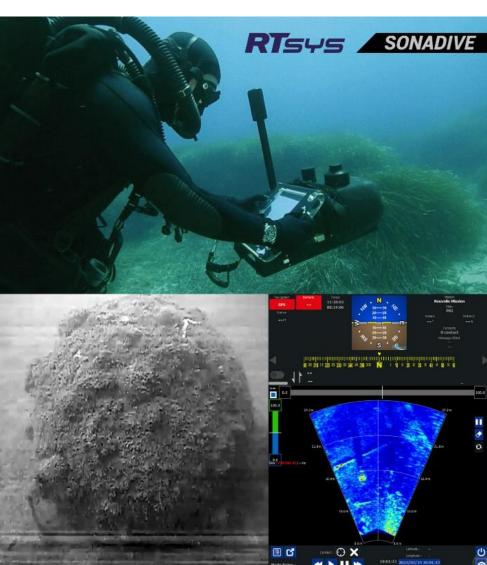


Vector magnetometry by AUV (altitude 3m)



HIGH RESOLUTION IMAGING SONAR





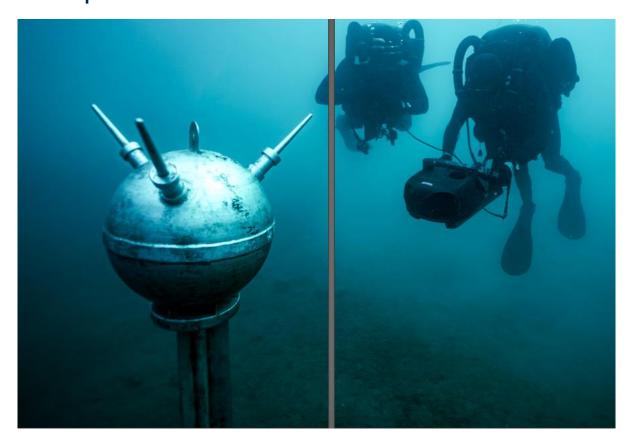
MANNED-UNMANNED TEAMING SOLUTION





And Tomorrow?

 New tools & new technologies to continuously increase Divers performances underwater









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