



## Digital Underwater Networked Communications

Digital Underwater Networked Communications developed by CMRE provide NATO forces with the capability to gather intelligence, communicate and coordinate underwater and ashore using underwater communications.

- 1 NATO Research Vessel *Alliance* coordinates and interacts with land-based command and control centre(s) and with underwater vehicles via gateway buoy(s).
- 2 Gateway buoys communicate with underwater robots via acoustic modems and at the surface via traditional radio waves (WiFi or other).
- 3 A submarine can interact and exchange information with friendly forces using the underwater communication network.
- 4 Underwater robots collect and exchange data, communicate with each other thanks to acoustic signals and can work in mission-based teams.
- 5 Unattended sensors may also participate in the network, working together with the robots or simply transmitting data collected over time.