#### NATO DIGITAL ANNUAL DISCIPLINE CONFERENCE 2025

20-23 May 2025 | NCI Academy, Oeiras, Portugal

# Driving NATO's Digital Advantage Through Innovation





Towards
Point
Zero
Setting the
Course for
NATO's
Digital
Discipline



#### Prof. Sam Medhat

Institute of Innovation and Knowledge Exchange CEO



and **Senior Mentor** – NATO Allied Command Transformation

This opening keynote by Prof. Sam Medhat marks a pivotal shift from legacy C3 structures to a new, data-centric, Al-enabled Digital Discipline. It lays out a forward-looking strategy for empowering force readiness, synchronising operations, and reinforcing decision dominance across the Alliance.

This is where NATO begins its digital convergence—towards Point Zero, where data, decisions, and domain coordination unite.



PML | Plymouth Marine Laboratory

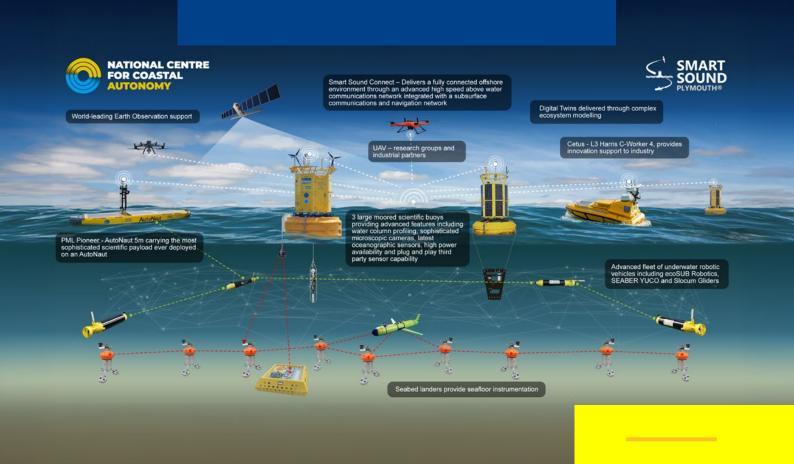
Prof. James Prof James Fishwick, Prof. Matthew Palmer & Dr. Tom Mansfield Plymouth Marine Laboratories

Explore how **digital twin technologies** are revolutionising maritime situational awareness. This session highlights how dynamic, data-fed models of the ocean environment can enhance operational planning, undersea awareness, and environmental security—crucial for NATO's evolving maritime doctrine.

in a constantly shifting maritime

domain.

### Advanced Maritime **Above & Below** Water Communications Systems





Prof. Alex Nimmo-Smith University of Plymouth



Sonardyne Dr. Darryl Newborough Sonardyne



Steatite

As NATO operations become increasingly joint and multidomain, resilient communication systems are vital. This session showcases cutting-edge surface—subsurface communication technologies, including Smart Sound Connect, and their potential to transform above/below water interoperability in contested environments.

The future of joint maritime operations depends on seamless connectivity from seabed to surface and beyond.



## IKEinstitute.org



info@IKEInstitute.org Tel: +44(0) 20 8786 3677