

The logo for Astim features the word "Astim" in a dark blue, bold, sans-serif font. The letter 'A' is stylized with a white diagonal line and a light blue triangle. The letter 'i' has a light blue dot. The letters 's', 't', and 'm' have light blue horizontal bars above them. The background consists of large, overlapping light blue circles on a white background.

Astim

FOR A SAFER WORLD

1 AI-BASED TARGET RECOGNITION

Real-time targets Detection, Classification and Identification:

- **Detection** by sensors and/or transponders
- **Classification** by AI image and data analysis
- **Identification** by AI data analysis (public DB, Janes DB, private DB, etc)

Main purpose:

- supporting the operators, reducing the operations workload

boat 0.83



AI-BASED 2 COVERT OPERATIONS

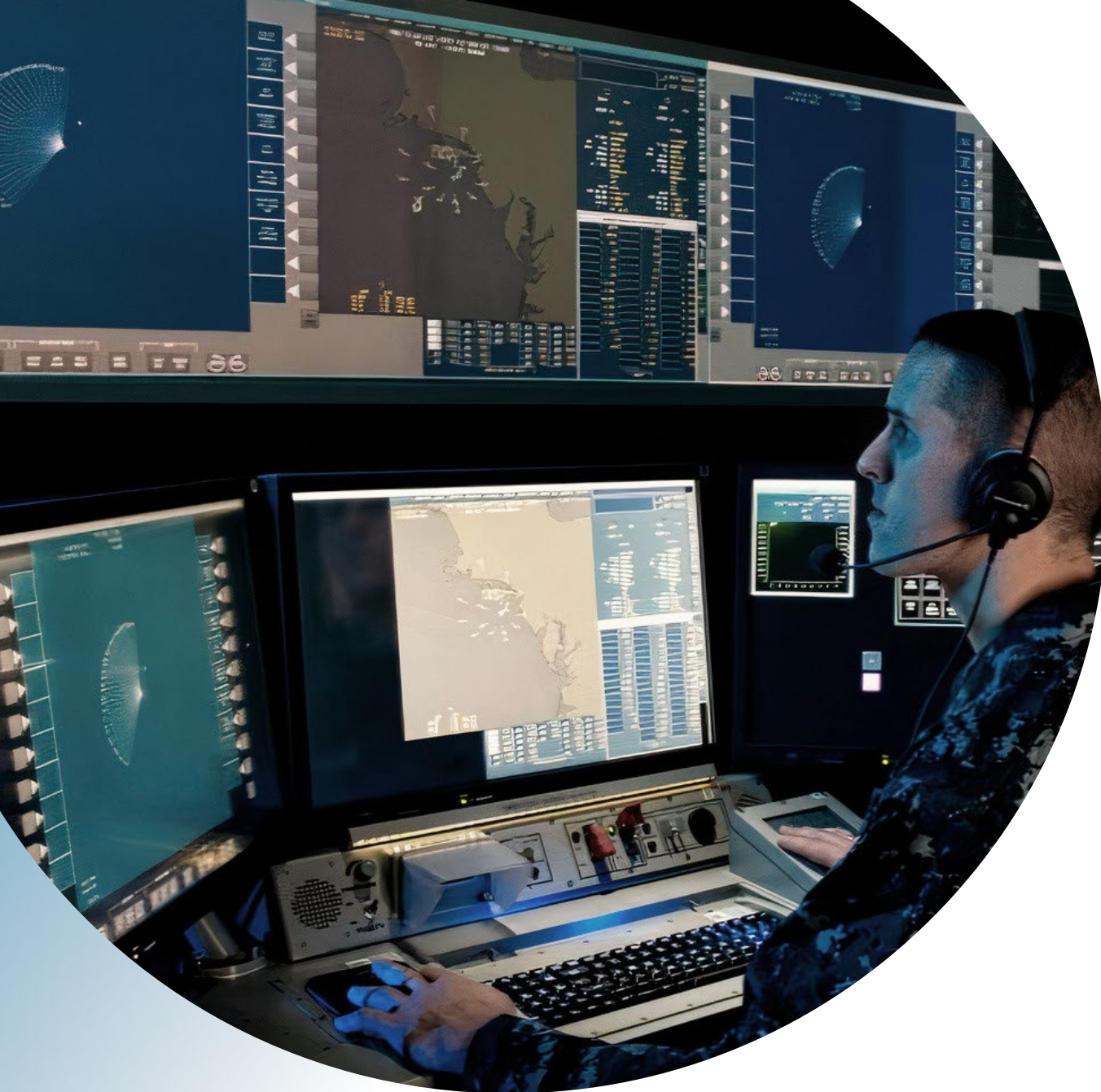
Stealth radar sweeps to avoid SIGINT interceptions:

- **Low Emission** by solid state sensors (discrete pulses)
- **Frequency Agility (AI-based):** shifting the frequency and operating power
- **Image construction (AI-based):** generation of missing sweeps between discontinuous sweeps

Main purpose:

- EW countermeasure
- compliant input for targets extractors





AI-BASED 3 DECISION SUPPORT

Wide Area Tactical Picture (WATP):

- **Broader information** about tactical picture by collecting different multi-domain operational perspectives
- **Data collection:** from Platform Management System by AI data analysis
- **Advanced** sensors data collection and exploitation by AI data analysis (Data Fusion)

Main purpose:

- better understanding of the WATP
- automatic weapons assignment (*LOGIR for ASuW/AASyW*)
- mission reconfiguration



AI-BASED

4 Network Enabled Capabilities

(Our vision for the future Coalition's WATP)

Coalition's WATP:

- **Efficient communication exchanges:** among different 5 domains: sea, air, ground space and cyber assets.
- **Decentralized assets:** leverage the power of decentralized elaborations
- **Relevant information:** leverage AI for not-trivial target information (*where is, who is, how is*)

Main purpose: Specialized AI algorithms can transform traditional messages in a lower-dimensional higher-informative space

Astimm

FOR A SAFER WORLD

MEMBER OF



CONFINDUSTRIA ROMAGNA

+39.0544.471645 - INFO@ASTIM.IT - VIA FILIPPO RE, 15/A - 48124
RAVENNA ITALY - ASTIM.IT