

NATO's Defence Innovation Accelerator for the North Atlantic (DIANA)

Event: NATO DIANA Information Webinar

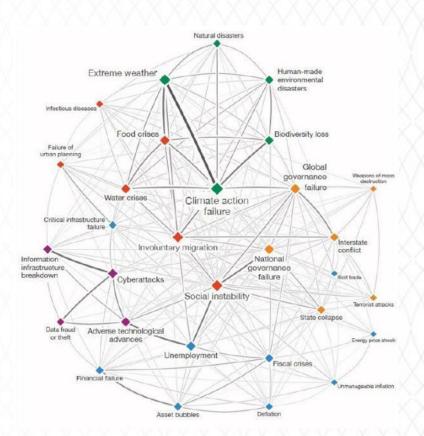
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Holistic Defence: The Problem Space

- Insecurity is driven by complex, interrelated global challenges, e.g. environmental changes, scarcity of resources, economic instability, hostile threats from state and non-state actors
- Understanding and tackling these challenges requires world-leading science and technology





Defence & Security and Innovators: The Gap

- Defence is viewed as inaccessible and complex
- Innovators are unsure of where to start and who can help
- Government rules and regulations are viewed as cumbersome
- Difficulties in accessing end-user customers to better understand their problems and receive feedback

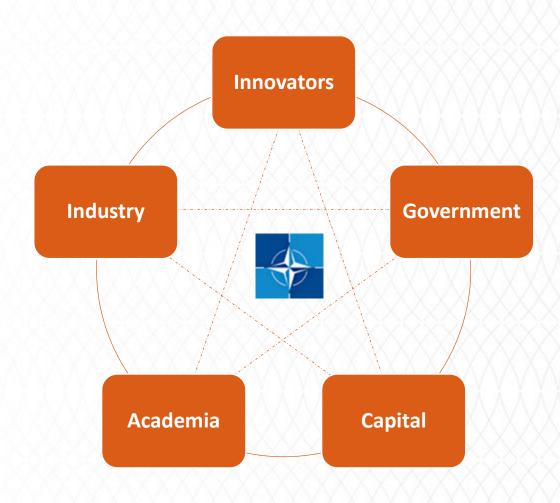
Result: innovators ignore or are frustrated by the defence and security market, losing interest as commercial revenue streams take off



Role for NATO

To address the complex inter-related challenges, there's a need for a resilient **Allied innovation ecosystem** that:

- Develops and adopts new technologies at the pace of relevance
- Fosters stronger innovation partnerships between government, industry and academia (triple-helix)
- Grows the network of innovation centres Alliance-wide
- Reduces the barriers to financing to create a sustainable innovation base



Adapted from Dr Phil Budden & Prof Fiona Murray: MIT's Stakeholder Framework for Building & Accelerating Innovation Ecosystems



Uniting disruptors to shape a peaceful future





DIANA is instructed to accelerate civil-military emerging and disruptive technological solutions – particularly dual-use ones – to critical transatlantic defense and security challenges, leveraging existing elements from NATO nations and NATO bodies and guided by relevant NATO Strategies and Frameworks.

NATO DIANA Mission Statement





NATO Innovation Fund

The NIF complements DIANA



NATO Secretary General Jens Stoltenberg at the Signing Ceremony of the NATO Innovation Fund Letter of Commitment (30 June 2022)

- Will invest EUR 1 billion in early-stage startups developing emerging and disruptive technologies
- 15-year timeframe
- Provides option for further investment in companies that have been through the DIANA accelerator programme



Emerging and Disruptive Technologies

- 9 technology priorities
- DIANA focuses on TRLs 4-7
- The technologies are 'dualuse' in nature – can address societal challenges as well as defence needs





Core Features of DIANA

Technical Challenges

• Competitive calls for proposals addressing critical Alliance needs

Accelerator Programme

 Award of non-dilutive grant; strengthen business viability of companies; product-market fit in defence and security

Innovation Network

 Access to state of the art testing facilities at DIANA's Alliance-wide network of affiliated accelerator sites and test centres; access to operational end-users

Rapid Adoption Service

Pathways for follow-on contracts and capability development

Allied Capital Community

Access to trusted investors and sources of capital



Challenge and Accelerator Programmes

Strategic Direction Development DIANA gathers critical defence and security needs from NATO stakeholders and develops Challenge problems biennially

Challenge Call for Proposals

Innovators from NATO member nations invited to propose emerging and disruptive, dual-use solutions

Programme Implementation

Two-phase demonstration and maturation
Challenge programme includes grant
funding, accelerator programme, test centre
access, mentoring, investor network and
pathways to Allied markets



DIANA Network: Accelerator sites (June 2023)

Key Regional Offices Niels Bohr Institute/ BioInnovation Regional Hub Institute BII Copenhagen Tallinn Science Park Tehnopol quantum-enabled technology, biotechnology **Test Centres** Startup Wise Guys / Tartu Science Park Al, cyber, space, greentech (energy and propulsion) Accelerators DASA London Al, cyber, quantum-enabled technology, biotechnology PN MAC Seattle Czechlnvest Prague AI, next generation communications, AI, space, greentech (energy and robotics, pharmaceuticals, aerospace, propulsion), CERN related (data and biotechnology computing) WSL Wallonia & Brussels AI, data, autonomy, cyber, biotechnology, aerospace Odtü Teknokent Ankara (space), micro/nanotechnology (novel materials), biotechnology, energy and propulsion, greentech (energy and propulsion) Mass Challenge Boston novel materials and other deep tech aerospace, biotechnologies, space programmes France intends to facilitate access to French technologies, undersea technologies accelerator sites drawn from across the French innovation sector. idD Portugal Defence Lisbon data and computing, biotechnology, novel materials, renewable energies (energy and propulsion) **Demokritos** Athens AI, data, autonomy, nanotechnology OGR / Plug and Play Turin (novel materials), biotechnology aerospace (space)

FORTH Heraklion



DIANA Network: Test Centres (June 2023)

Key



Regional Offices



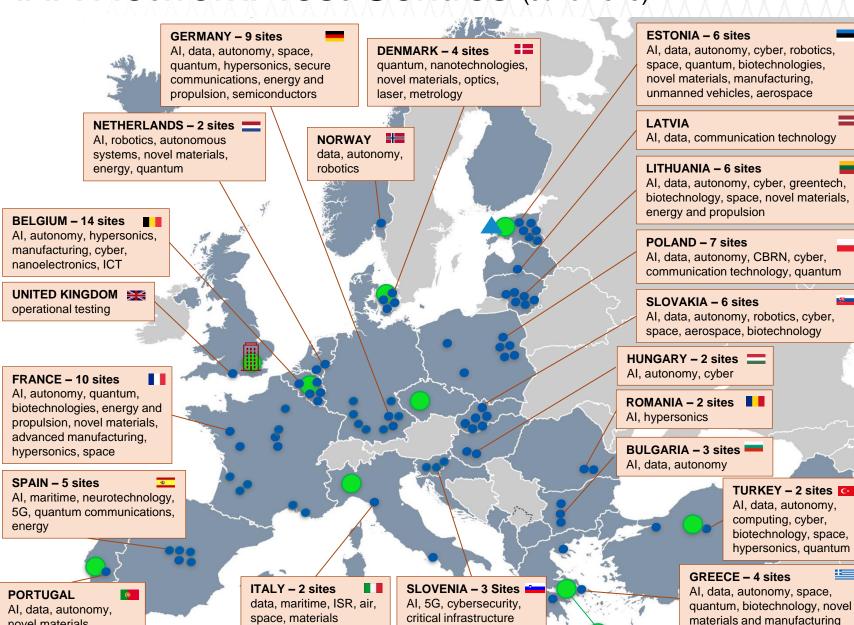
Regional Hub



Accelerators

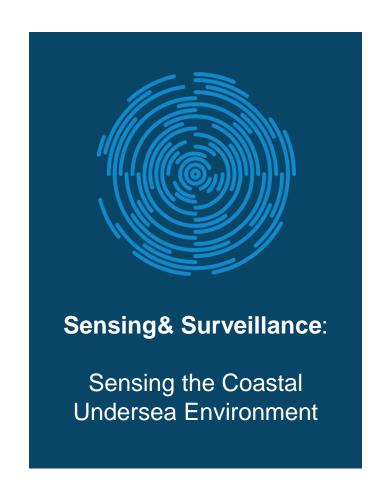


novel materials

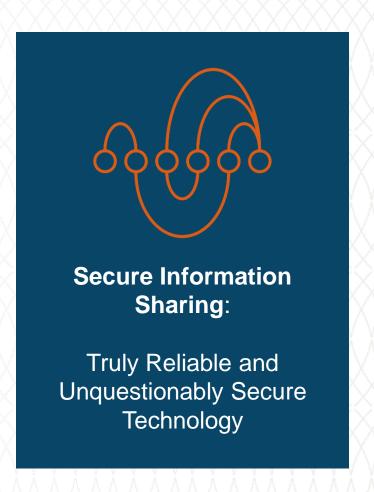




2023 Challenge Topics

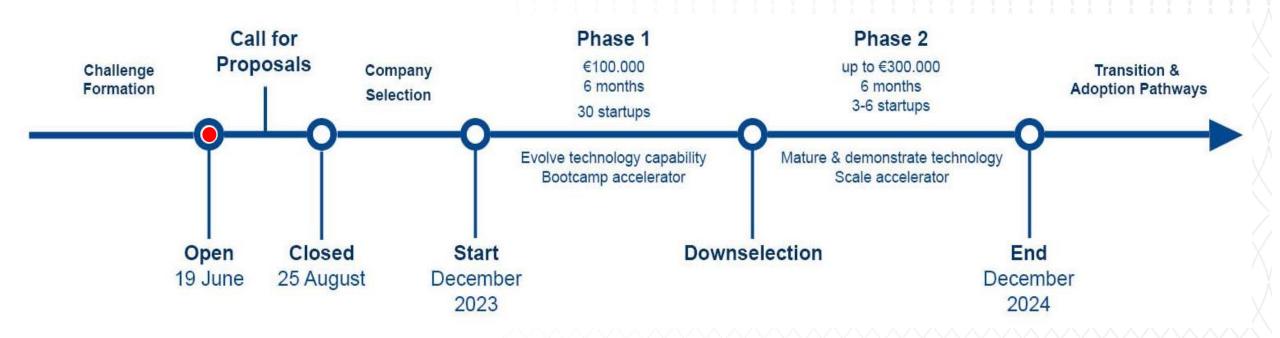








Challenge Programme Timeline





Apply and connect with DIANA



Register your interest if you are a potential industry partner, investor, or journalist www.nato-diana.org



Learn more and APPLY here for the Challenges www.diana.nato.int



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