



AALBORG UNIVERSITET

HORIZON EUROPE 2025/2026 CALLS

CLUSTER 3 – CIVIL SECURITY FOR SOCIETY

AAU Fundraising & Project Management Office



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INTRODUCTION

AAU HORIZON EUROPE COMPENDIUM

Interested in finding academic partners for the upcoming Horizon Europe calls? At AAU, we have collected, mapped, and showcased AAU researchers' interest in collaborating on specific topics within the six clusters of Pillar 2 (including EU Missions & Cross-cutting activities). Each compendium displays our showcased researcher's relevant expertise within each identified topic, which makes it easy to locate AAU researchers who are interested in collaborating and providing their expertise in your next Horizon Europe proposal.

ABOUT AAU

AAU has campuses in Aalborg, Copenhagen, and Esbjerg, as well as an EU office in Brussels. We have 3.700 staff, 18.000 students and an annual turnover of DKK 3 billion.

AAU is a comprehensive university covering four faculties and 18 departments, such as Sustainability and Planning, Energy, Health Science and Technology, Computer Science, Built Environment, Politics and Society, Culture and Learning.

With problem-based learning at the heart of educational programs, AAU researchers and students are well-equipped to take on current and future societal, environmental and economic challenges.

OUR PROFILE AND DNA – WHY SHOULD YOU PARTNER WITH US?

Collaboration is heavily embedded in the DNA of AAU. We have a strong and natural collaboration with industry and the surrounding society – thus our current strategy is labeled “Knowledge for the World 2.0”.

We are a mission-oriented university, with three identified AAU Missions:

1. A Sustainable Danish Energy System
2. Improved Wellbeing Among Children and Youth in Denmark
3. Improving Health Through Coherence and Individualisation

As the second best ranked engineering university in Europe, and being no. 16 globally (ranking from the U.S. News & World Report), as well as being in top 5 of universities pursuing the UN sustainable development goals (THE University Impact Rating), we are a very capable partner and collaborator.

AAU has contributed as coordinator or partner in close to 200 projects in the EU Horizon 2020 Framework Programme. For Horizon Europe we have – so far – contributed to more than 150 projects. We are setting even more ambitious targets for Horizon Europe in 2025 and going forward.

DESTINATION 1

**BETTER PROTECT THE EU AND ITS
CITIZENS AGAINST CRIME AND
TERRORISM**

DESTINATION 1: CALLS

**CALL – BETTER PROTECT THE EU AND ITS CITIZENS
AGAINST CRIME AND TERRORISM**

DESTINATION 2

EFFECTIVE MANAGEMENT OF EU EXTERNAL BORDERS

DESTINATION 2: CALLS

CALL – EFFECTIVE MANAGEMENT OF EU EXTERNAL BORDERS

HORIZON-CL3-2025-01-BM-01: Open topic on efficient border surveillance and maritime security (IA)

HORIZON-CL3-2025-01-BM-01: OPEN TOPIC ON EFFICIENT BORDER SURVEILLANCE AND MARITIME SECURITY (IA)



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HIGHLIGHTED AAU RESEARCH GROUPS

Centre for Blue Governance

AREA OF EXPERTISE

Nelson's academic domain is the International Law of the Sea, focusing on environmental rules and standards applicable to the maritime transport sector. He is interested in studying interactions between sovereign states, global and regional geopolitical conflicts and questions of territoriality, boundaries and space in the ocean. His postdoctoral experience led him to also become a policy and governance arrangement analyst. In research projects he is usually the lawyer in a team of marine scientists and naval engineers, providing insights on jurisdiction.

Public International Law

Law of the Sea

Maritime Transport Governance

DESTINATION 3

RESILIENT INFRASTRUCTURE

DESTINATION 3: CALLS

CALL – RESILIENT INFRASTRUCTURE

DESTINATION 4

INCREASED CYBERSECURITY

DESTINATION 4: CALLS

CALL – INCREASED CYBERSECURITY

HORIZON-CL3-2025-02-CS-06: Integration of post-quantum cyptography (PQC) algorithms into high-level protocols (RIA)

HORIZON-CL3-2025-02-CS-06: INTEGRATION OF POST-QUANTUM CRYPTOGRAPHY (PQC) ALGORITHMS INTO HIGH-LEVEL PROTOCOLS (RIA)



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HIGHLIGHTED AAU RESEARCH GROUPS

Edge Computing and Networking
Cyber Security Group
AI for the People

MEMBERSHIP OF EU PARTNERSHIPS

Vice-chair – IEEE TCGCC: Technical Committee on Green Communications and Computing, Special Interest Group (SIG) on Green Digital Twin Network

RELEVANT LINKS OUTSIDE ACADEMIA

Industry collaboration: Nvidia Denmark, Terma A/S (Quantum Research Department, Denmark)

AREA OF EXPERTISE

IoT-Edge-Cloud
continuum computing
Edge-AI systems
Computation
Acceleration
Task offloading and orchestration
Post-quantum cryptography for critical infrastructure
Distributed computing
Lightweight authentication

RELEVANT PROJECTS

(2025 – 2027) **Thomas B. Thriges Fond (Private Fund) “QUCISAFE:** Quantum-resistant Critical Infrastructure through PQC and QKD integration in the Cloud-Edge-IoT Continuum”
(2022 – 2026) **EU Horizon Europe MSCA Doctoral Network “QUARC:** Quantum resistant communications: Advance Learning in applied PQC Training”
(2020 – 2025) **EU H2020 MSCA ITN “IoTalentum:** provide high-level training in the field of next generation IoT to a new generation of ESRs (Early-Stage Researchers)”

DESTINATION 5

DISASTER-RESILIENT SOCIETY FOR EUROPE

DESTINATION 5: CALLS

CALL – DISASTER-RESILIENT SOCIETY FOR EUROPE

DESTINATION 6

STRENGTHENED SECURITY RESEARCH AND INNOVATION

DESTINATION 6: CALLS

CALL – STRENGTHENED SECURITY RESEARCH AND INNOVATION