Press release

DISCMAM

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DISCMAM INNO SWAMP | Press release

Turning collaboration into defence capabilities:

DISCMAM and INNOSWAMP

- Both EDF-funded projects combine complementary strengths to deliver more resilient and decentralised defence solutions, reducing reliance on traditional supply chains.
- Shared partners Danish Technological Institute (DTI) and CenSec strengthen collaboration by enabling knowledge exchange and closer alignment across activities in both projects.

Europe is increasingly focusing on strengthening its capacity to operate in complex and demanding environments, where rapid response, secure supply chains and technological independence are essential. In this context, the European Defence Fund (EDF) plays a key role in supporting and funding collaborative projects that drive innovation and reinforce Europe's industrial and technological base.

Against this backdrop, the DISCMAM (EDF 2022) and INNOSWAMP (EDF 2024) projects offer a clear example of how complementary initiatives can create added value when their approaches are aligned. By bringing together expertise in additive manufacturing, advanced materials and digitalisation, both projects highlight the importance of collaboration in maximising the impact of European-funded research.

From centralised systems to on-site capabilities

Although their application areas differ, both research projects are aligned in a common objective: bringing critical capabilities closer to the point of need. This shift towards more decentralised and flexible solutions reduces dependence on traditional supply chains while improving responsiveness in challenging scenarios.

DISCMAM focuses on enabling on-site production and repair of metal components through additive manufacturing routes and digitalisation solutions, supported by a secure digital thread that allows remote assistance and data exchange. INNOSWAMP, in parallel, is developing a new generation of water pre-

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filtration systems based on advanced materials, designed to improve efficiency, reduce energy consumption and adapt to varying operational conditions.

Both initiatives reflect the EDF's ambition to foster advanced, collaborative technologies that strengthen Europe's strategic autonomy. Their shared use of additive manufacturing, innovative materials and digital solutions contributes to more efficient, adaptable and resilient systems capable of operating in remote or resource-constrained environments.

Unlocking synergies through innovation

The synergies between DISCMAM and INNOSWAMP become particularly evident at the intersection of digitalisation, materials innovation and manufacturing processes. The secure digital infrastructure developed in DISCMAM enables traceability, data-driven optimisation and remote support, opening possibilities that can extend beyond its initial scope.

At the same time, INNOSWAMP's work on functionalised materials introduces new opportunities for integration into future deployable manufacturing solutions. Together, these developments point towards more versatile systems capable of addressing multiple operational needs in a coordinated way, while minimizing energy consumption and waste.

Towards a more resilient and sustainable Europe

Beyond their technological contributions, both projects support broader European priorities. By enabling localised production and reducing reliance on external supply chains, they reinforce technological independence and resilience. Their approaches also contribute to sustainability, promoting more efficient use of resources, whether through repair and on-demand manufacturing or improved water treatment processes.

This collaboration is further strengthened by the participation of common partners such as the Danish Technological Institute (DTI) and CenSec, both based in Denmark. Their involvement facilitates knowledge exchange and

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alignment between the two initiatives, enhancing their overall impact within the European innovation ecosystem.

The connection between DISCMAM and INNOSWAMP underlines the value of building links between projects funded under the same European framework. By combining expertise across different domains, these initiatives contribute to a more integrated, efficient and forward-looking technological base in Europe.

Learn more

- DISCMAM
  Web: https://discmam.eu/ LinkedIn: @DISCMAMProject
- INNOSWAMP
  LinkedIn: @INNOSWAMP

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