

Research Line

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[ATARI: Atmospheric and Solar Research and Innovation in the Eastern Mediterranean](#)

[EMANUELE EMILI](#)



ATARI aims to strengthen the expertise and improve the research profile of ECoE, through the collaboration with three research institutes and one SME in the field of atmospheric and solar radiation modelling and remote sensing. The collaborating institutions consist of highly experienced developers of global use models, linked with bodies such as the world meteorological...

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[DYMAN: DYnamically MANaged self-cooling HPC Data Centers](#)

[SERGI GIRONA TURELL](#)



DYMAN targets the development of a completely new design of adsorption chillers based on the following innovation:

- New low temperature adsorbents achieving high capacities at very low driving temperatures below 50 °C.
- New type of adsorption heat exchangers made of 3D...

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[PRECISEU: PeRsonalised medicine Empowerment Connecting Innovation ecoSystems across EUrope](#)
[ALFONSO VALENCIA](#)



The general purpose of PRECISEU is connecting innovation ecosystems across Europe to efficiently advance towards a truly personalised healthcare, transferring practices and solutions from region to region and scaling up deep-tech healthcare innovations based on advanced therapies medicinal products and health data across Europe.

The PRECISEU consortium...

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[WindTwin: Towards a digital twin for forecasting of power production to wind energy demand](#)
ORIOLEHMKUHL



The expected growth of both on and offshore wind energy is enormous and many new wind parks are planned for the coming years. Experience from the existing wind farms shows the importance of a proper micro-siting of the wind turbines as well as their efficient interconnection within the farm. In addition, bringing wind farms together into clusters toward a wind power plant concept...

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[SMARTY: Scalable and Quantum Resilient Heterogeneous Edge Computing enabling Trustworthy AI](#)
LEONIDAS KOSMIDIS



SMARTY invokes a cloud-edge continuum made from heterogeneous systems that protect data-in-transit and data-in-process in order to offer a trustful fabric to run AI processes. The securitization occurs by employing novel accelerators for quantum resilient communications, confidential computing, software defined perimeters and swarm formation, offering multiple layers of...

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[IBERIFIER Plus: Development and implementation of trustworthy and multifactorial AI models for the prediction and prevention of cancer within national and European screening programs](#)
[MARIA JOSE REMENTERIA](#)



The Iberian Digital Media Observatory (IBERIFIER Plus) aims to expand the ongoing activities of IBERIFIER (www.iberifier.eu), the Iberian hub established in 2021 dedicated to researching and combating disinformation in Spain and Portugal. Composed of a highly experienced and qualified consortium of 25 partners and 1 associate partner, the new hub plans to engage in...

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[EdgeAI-Trust: Decentralized Edge Intelligence: Advancing Trust, Safety, and Sustainability in Europe](#)
[JAUME ABELLA FERRER](#)



The EdgeAI-Trust project aims to develop and implement decentralized Edge AI technologies to address key challenges facing Europe's industrial and societal sectors, such as energy efficiency, system complexity, and sustainability. By developing trustworthy domain independent collaborative AI architectures and HW/SW edge AI technologies, the project will promote large-scale...

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[CLIMA-GAP: Narrativas de cambio climático y storylines para cerrar la brecha entre conocimiento y acción climática](#)

[MARTA TERRADO](#)



As the world is edging closer to the 1.5 degrees planetary boundary and is failing to adequately cut greenhouse gas emissions, societal actors from all sectors and scales are requested to rapidly devise adequate responses to ensure a liveable future. However, there is a recognised usability gap in climate science, which makes that despite having better quality data, this data...

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[BIG-5: Fostering Internet-based Values of the Environment](#)
[MERCE CROSAS NAVARRO](#)



Nature-experiences are on the decline, but does that mean environmental values are as well? Where the decrease of experiences of nature is often cited as a cause for dwindling appreciation of nature and consequently less commitment to environmental stewardship, I argue that the internet is an overlooked factor in multiplying nature experiences, creating nature values, and...

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[EXPECT: Towards an Integrated Capability to Explain and Predict Regional Climate Changes](#)
[MARKUS DONAT](#)



The climate system is changing rapidly and some regions have seen increases in extremes beyond what is expected from climate model simulations. To support targeted climate adaptation strategies, EXPECT will enable trustworthy assessments and predictions of regional climate change including extremes by developing a prototype operational capability for integrated attribution...

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