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A new Research and Innovation Agenda for IoT and Edge

AIOTI publishes a long-term roadmap for R&I actions in Europe

BRUSSELS, BE: The Alliance for IoT and Edge Computing Innovation (AIOTI) is glad to announce the publication of its Strategic Research and Innovation Agenda (SRIA). The SRIA, titled [Advancing Next-Generation IoT and Edge Computing Research and Innovation](#), aims both at identifying key Internet of Things (IoT) and edge computing technologies, as well as applications research priorities, and at providing a vision on how the future of the IoT domain will look like up to 2030.

The AIOTI SRIA is a roadmap (2023-2030) for future IoT and edge computing research and innovation actions in Europe, that proposes specific themes, sub-themes, and priorities which help to identify gaps and areas where advancements are most needed. The identified research priorities form the reference frame for concrete actions to be implemented in different research programmes, ranging from industry, small-and-medium enterprises, academia, and the public sector.

The SRIA aligns with the United Nations Sustainable Development Goals (SDG) and the European Green Deal objectives, while developing international cooperation to solve global challenges using IoT and cloud computing technologies.

The research and innovation efforts in IoT and edge computing require a long-term programming approach that provides continuity across technology and applications efforts. The AIOTI SRIA introduces a mission-oriented approach that answers societal and market needs, maintains and extends industrial leadership, protects the environment, ensures security, privacy, safety, and energy efficiency solutions, while prioritising research and innovation capabilities and education.

The priorities include convergence with next-generation Tactile IoT, decentralised and distributed architectures, IoT knowledge-driven edge processing, artificial intelligence (AI) and trustworthiness.

The extensive use of IoT and edge computing in different industrial sectors and the move from cloud to edge processing must be accompanied by new distributed architectures and end-to-end (E2E) IoT security. The convergence of connectivity, IoT, edge computing, AI, and Distributed Ledger Technologies (DLT) will be essential to next-generation Internet applications and advancements.

AIOTI WG Research & Partnerships Chair, Ovidiu Vermesan, commented: *“We are particularly pleased with this publication as it explores the technological trends in the field and identifies emerging technologies that are key for unlocking unprecedented capabilities for innovation in the future”*. He continues: *“The topics presented in AIOTI SRIA are aligned with the issues addressed by other European partnerships to strengthen the European IoT ecosystem’s research and innovative capabilities and drive human well-being, particularly for developing trustworthy, dependable, and sustainable IoT and edge computing technologies”*.

For more information about AIOTI, please visit AIOTI website: [click here](#).

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About AIOTI

AIOTI is the multi-stakeholder platform for stimulating IoT and Edge Computing Innovation in Europe, bringing together small and large companies, academia, policy makers and end-users and representatives of society in an end-to-end approach. We work with partners in a global context. We strive to leverage, share and promote best practices in the IoT ecosystems, be a one-stop point of information on all relevant aspects of IoT Innovation to its members while proactively addressing key issues and roadblocks for economic growth, acceptance and adoption of IoT Innovation in society. AIOTI's contribution goes beyond technology and addresses horizontal elements across application domains, such as matchmaking and stimulating cooperation in IoT ecosystems, creating joint research roadmaps, driving convergence of standards and interoperability and defining policies.