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## **SMARTY: Scalable and Quantum Resilient Heterogeneous Edge Computing enabling Trustworthy AI**

### **Description**

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 security. Semantic programmability and graph-management open the door to drag-and-drop approaches in deploying services in a fast and reliable manner.

SMARTY is proposed within the context of different key sectors in Europe: automotive, fintech, telco and industrial settings. The technology proposed in SMARTY will be matured within the lifetime of the project and tested through five use cases. SMARTY is supported by large European industry players and well as by 10 SMEs which will seek a visible platform to develop their products and gain visibility towards high-growth. SMARTY's major suppliers and OEMs and reputable academic partners provide a great opportunity for these 10 SMEs to mature their technologies in a challenging but safe environment. The results of SMARTY are applicable to different vertical sectors and can be transported to different use cases. Strong synergies with existing efforts in the area of edge computing, European processors and trustworthy AI are envisioned and planned within SMARTY.

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Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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