



## EMPOWERING SMART IOT: DECENTRALIZED EDGE INTELLIGENCE WITH AUTONOMOUS SWARMS

SMARTEDGE is a European project on semantic low-code programming tools for edge intelligence with 16 partners involved. SmartEdge seeks to dynamically integrate decentralized edge intelligence through a semantic-based collaboration among edge devices in a cross-layer toolchain, facilitating seamless and real-time distribution of autonomous intelligence swarms.

### SmartEdge solution offers three core components:

- Continuous Semantic Integration (CSI) enables device interaction through a standardized semantic interface
- Dynamic Swarm Network (DSW) facilitates automatic discovery and real-time swarm formation
- Low-code Toolchain for Edge Intelligence delivers semantic-driven multimodal stream fusion for edge devices

### Use cases in:



manufacturing



automotive



healthcare

Start Date: 01 Jan 2023  
Duration: 36 months  
Budget: €7,353,640.00  
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Research and Innovation Action

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