EXECUTIVE Summary
bIoTope will establish new open ecosystems that enable companies to innovate in both creating software components and constructing entire IoT systems for connected smart objects – with minimal investment.

PROJECT Objectives
The Internet of Things (IoT) brings opportunities to create new services and products, reducing costs for societies, and changing how services are sold and consumed. A critical obstacle to further IoT innovation is the “vertical silos” that shape today's IoT landscape. These silos impede creation of cross-industry, cross-platform and cross-organisational services due to their lack of interoperability and openness.

bIoTope lays the foundation for creating open innovation ecosystems by providing a platform that enables companies to easily create new IoT systems and rapidly harness available information using advanced Systems-of-Systems (SoS) capabilities for connected smart objects.

TECHNICAL Innovations
Key research and technology developments addressed in the project:
> New forms of co-creation of services ranging from simple data collection and processing, to intelligent, situation aware and self-adaptive components supporting everyday work and life
> Open and standardised APIs to enable interoperability between today's vertical IoT silos
> Robust and adaptable IoT framework for security, privacy & trust that facilitates responsible access and ownership of data
> Sustainable socio-technical and business models for bIoTope ecosystems and establishment of a governance roadmap for ecosystem evolution

bIoTope is driven by industrial requirements with large-scale smart cities pilots providing proofs-of-concept of bIoTope enabled SoS ecosystems.