

## ABOUT

MonB5G will provide zero-touch management and orchestration in the support of network slicing at massive scales for 5G LTE and beyond. It proposes a novel autonomic management and orchestration framework, heavily leveraging distribution of operations together with state-of-the-art data-driven AI-based mechanisms.

Project Start: 01/11/2019  
 Budget: € 5.572.491,25 €  
 Instrument: ICT-20-2019-2020  
 Duration: 36 Months  
 Partners: 12



## OBJECTIVES

- 01 Distributed management plane to support massive deployment of network slices
- 02 Definition of novel end-to-end (e2e) slice Key Performance Indicators (KPIs) and development of AI-based mechanisms for their accurate prediction from multi-level metrics
- 03 Data-driven management system based on federated learning
- 04 Zero touch network configuration
- 05 Decision Engine decisions tailored to the RAN
- 06 AI-driven slice security management via robust and efficient trust-based mechanisms
- 07 AI-driven energy efficient network management
- 08 Dissemination, standardization and exploitation of MonB5G

## USE CASES

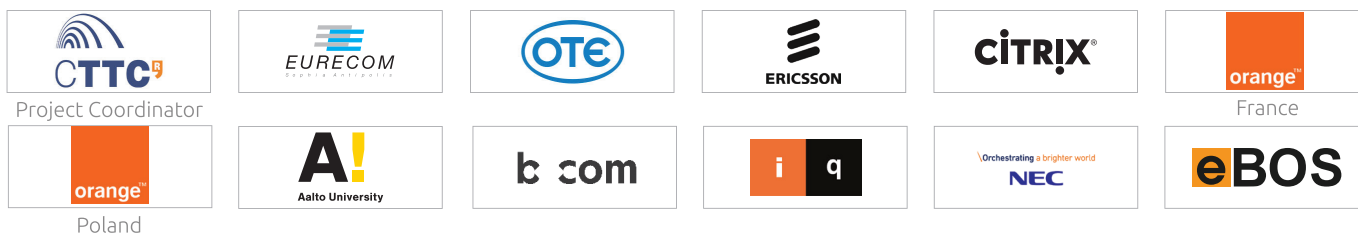
### Zero-Touch Network and service management with end-to-end SLAs

It leverages the highly distributed MonB5G mechanisms to provide automated, zero-touch service management across domains, enabling Network Operators and MVNOs to avoid domain silos and ensure end-to-end cross-domain SLAs.

### AI-assisted policy-driven security monitoring & enforcement

It demonstrates the efficiency of MonB5G when relying on AI to ensure legacy/new security threats detection in addition to their respective mitigation actions, and the proper enforcement of the AI-based techniques through novel trust-based evaluation mechanisms.

## CONSORTIUM



### PROJECT MANAGEMENT BOARD

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