



Antimicrobial resistance (AMR) has become a global problem, being responsible for about 25,000 lives each year across Europe alone. Comprehensive efforts and multiple approaches are needed to minimize the pace of resistance not only by studying emergent microorganisms and resistance mechanisms but also through diagnostic technologies like advanced sensing devices and information systems with capacities to gather information from different clinical datasets and to monitor and prevent infectious episodes and antibiotics consumption in a connected and interoperable way

The CULTURE project pursues three objectives:

- 1) Implementation of a real time detection system for the top priority pathogens identified in the ANTISUPERBUGS health challenge
- 2) Implementation of a digital solution that will integrate, in a single point, the data obtained through the CULTURE sensing device as well as other relevant datasets
- 3) Implementing a smart and efficient surveillance system able to exploit the combined data gathered from the different sources.