TRINITY

A network of Digital Innovation Hubs supporting manufacturing SMEs to become more competitive through robotics and digital technologies

Why TRINITY?

There is a huge opportunity for manufacturers to adopt new robotics and Internet of Things (IoT) technologies and to improve productivity and competitiveness. New robotic technologies are highly flexible and cost-effective for nearly every size of company, including small and medium-sized firms (SMEs). SMEs need to embrace these technologies to maintain efficiency and create jobs. A key barrier to implementation is often a lack of skills and understanding around how to best profit from these technologies.

Project Objectives

TRINITY aims to improve the agility and innovation capability of European manufacturing companies. It aims to bring together both the research and industrial community in Europe with the objective of developing and helping all sized companies to implement and benefit from new digital and robotic technologies.

The TRINITY Approach

In order to reach these objectives TRINITY will:

BUILD a sustainable **network of Digital Innovation Hubs** (DIHs) acting as a one-stop-shop for companies to get access to digital and robotic technologies as well as technical and other services, such as training, funding or match-making. The network is composed of industry organisations, service providers, research institutes and universities specialised in advanced robotics, IoT and cybersecurity. This network will be extended over the life-time of the project.

PROVIDE a critical mass of **use cases** in collaboration with industry to demonstrate novel robot technologies that can contribute to increase the agility of production processes in relevant industrial environments across different sectors.
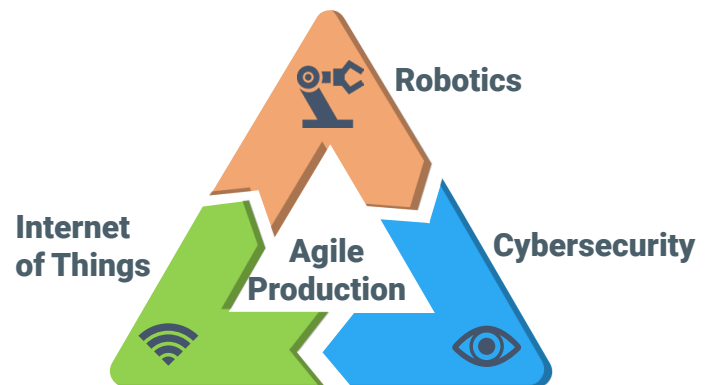
CREATE a **digital access point** to facilitate collaboration, networking and disseminate information and knowledge to the wider robotics research community and industry in Europe.

Use Case Demonstrators

The TRINITY network will develop use-case demonstrators in some of the most promising areas of robotics to advance agile production. These areas will include collaborative robotics as well as sensory systems to ensure safety, effective user interfaces based on augmented reality and speech, reconfigurable robot workcells and peripheral equipment (fixtures, jigs, grippers, etc.), programming by demonstration or IoT secure wireless networks.

Funding Opportunities

The initial demonstrators will serve as reference implementation for two rounds of **open calls for proposals**, where companies with agile production needs and sound business plans will be supported (financially and technically) by TRINITY to carry out experiments in industrial environments. A minimum of 30 demonstrators will be implemented through the calls, which will be launched in 2020 and 2021. Calls will be open for three months after their publication and each demonstrator can get up to €300,000 in funding.

Partners

www.trinityrobotics.eu – or visit us on: