IoTwins
BIG DATA OPTIMIZE INDUSTRY AND SERVICES

Grant Agreement N°857191

Distributed Digital Twins for industrial SMEs: a big-data platform

DELIVERABLE 8.6 –PROMOTIONAL VIDEO (I)

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Sommario

Introduction

IoTwins project foresees the creation of several video during the project lifetime, each with specific communication and dissemination purposes and targets, taking also into consideration the stage of development of the project and the achievement of results.

1 First IoTwins Project Video

The first IoTwins video has been developed having in mind a general audience (i.e with no specific target) with the idea to provide a first insight about the project and the technologies involved along with its general objectives and benefits for companies.

The video belongs to the category of the "proximity videos" and has the objective to catch the attention of a public that doesn't' know anything about the project and in situations where a full listening is not possible (eg. exhibition). The type of communication is only visual and it acts on a specified delimited area, like a monitor close to an IoTwins booth during an exhibition or at the opening in a conference.

The video is available in the following link.

It will be also embedded in the homepage of the IoTwins website www.iotwins.eu .

1.1 Video Script

The IoTwins video follows the following script, organized as a set of statement we are going to communicate:

1. IoTwins: A big data platform for the development of efficient and distributed digital twins
2. 12 dedicated testbeds to generate optimized and replicable industrial and facility management models to improve manufacturing and services efficiency and demonstrate the replicability of achieved results.
3. Big data platform for optimized and replicable industrial and facility management models. Based on digital twins.
4. Digital Twins: digital copies of physical counterparts in a virtual environment.
5. Big data platform: a complex reference architecture that integrates 4.0 technologies
    a. Edge computing
    b. Artificial Intelligence
    c. Machine learning
    d. High performance computing
6. 12 dedicated large scale testbeds to experiment the effectiveness of the reference architecture in 3 different domains:
    a. 4 manufacturing testbeds
    b. 3 facility management testbeds
    c. 5 replicability testbeds
7. Big data platform for real benefits

a. PREDICTIVE AND PRESCRIPTIVE DIAGNOSTICS IN MANUFACTURING. Optimizing the industrial processes and increasing the efficiency of the manufacturing lines of its industrial partners, by performing predictive and prescriptive diagnostics and reducing scraps.
b. DETECTING ANOMALIES OF FACILITY MANAGEMENT SERVICES. Optimizing the management of facilities and service sectors of the partners involved, by improving quality, detecting anomalies and saving energy.
c. REPLICABILITY AND SCALABILITY OF SOLUTIONS. Evaluating the replicability and scalability of solutions, towards both similar industrial sectors and companies with different size requirements, by identifying and testing innovative business models.
d. LOWERING THE BARRIERS TO SMEs TO DIGITIZING PROCESS. Enabling SMEs in the manufacturing and facility management to access big data analysis services, by lowering the barriers to digitizing process.
e. A SUSTAINABLE WORLDWIDE INDUSTRIAL APPROACH. Rethinking and repositioning the industrial system in Europe and in the world, through a sustainable approach and concrete interventions.