



**Cognitive
Automation
Platform for European
PRocess
Industry digital
transformation**

 **42 Months**
April 2020 -
September 2023

 **12 partners**

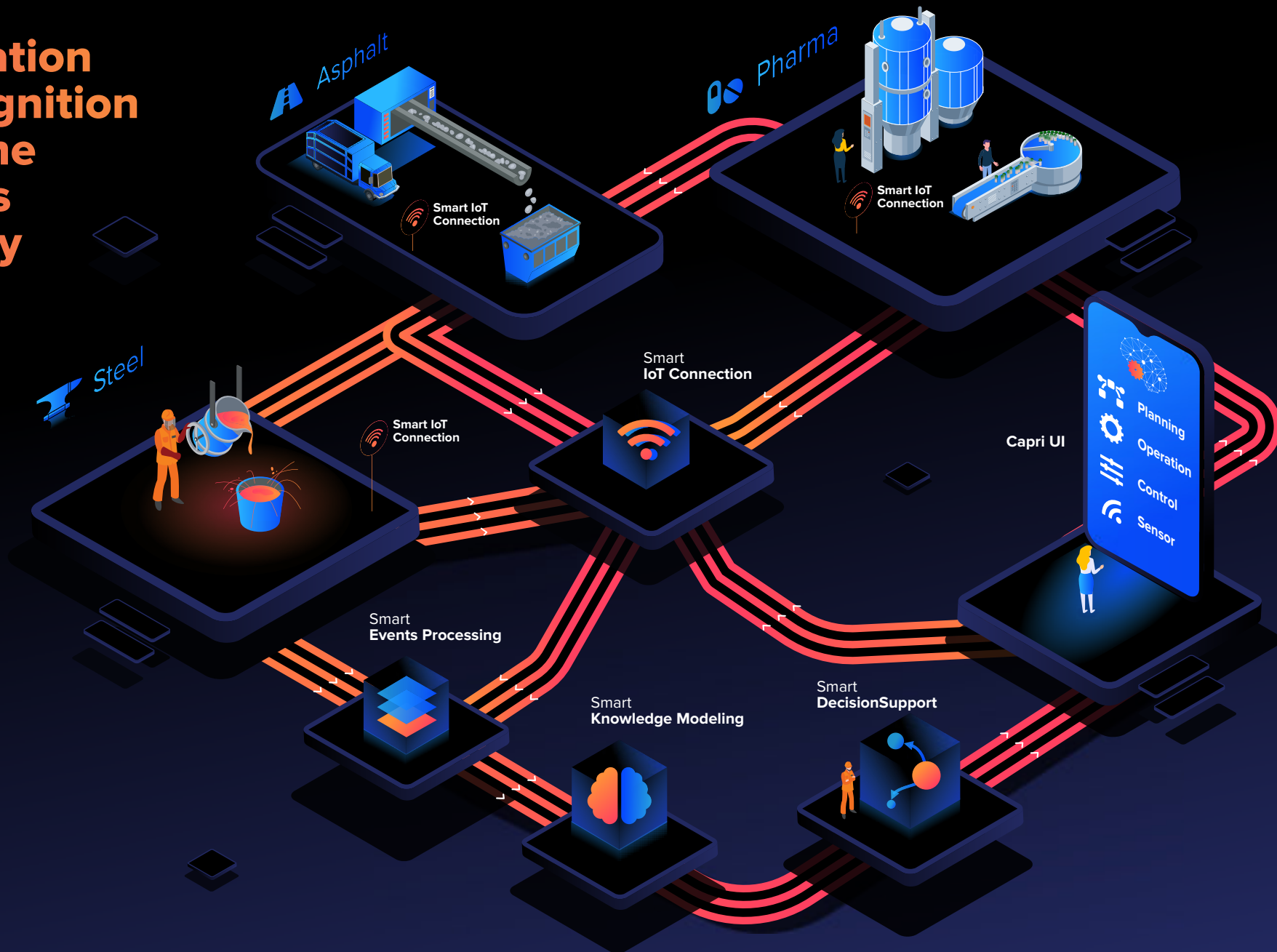
 **7 countries**

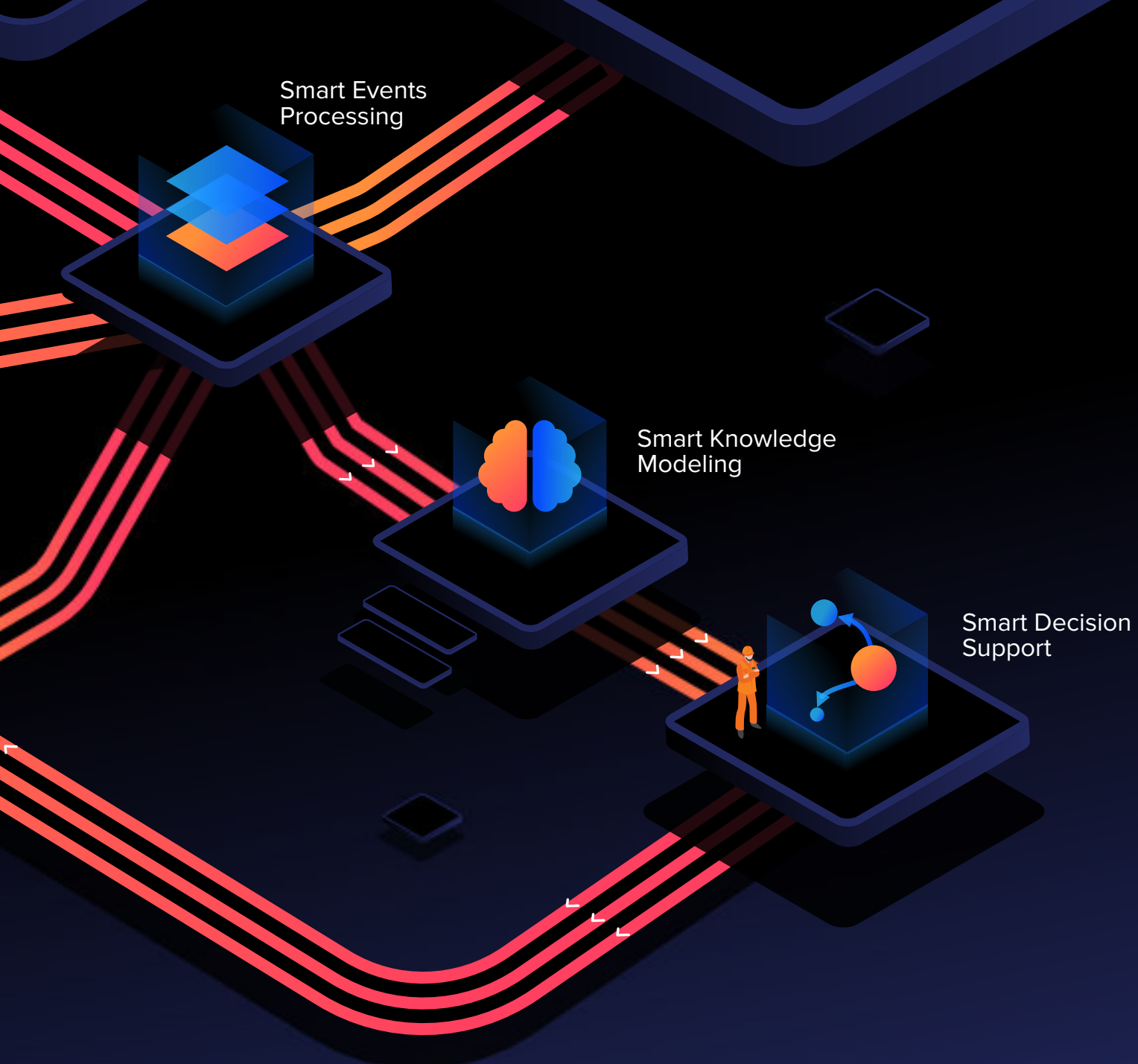
 **6.1M €**
EU Funding



THIS PROJECT
RECEIVES
FUNDING FROM
THE EUROPEAN
UNION'S HORIZON
2020 RESEARCH
AND INNOVATION
PROGRAMME
UNDER GRANT
AGREEMENT
NUMBER 870062

Where automation and cognition meet the process industry





Smart Events
Processing

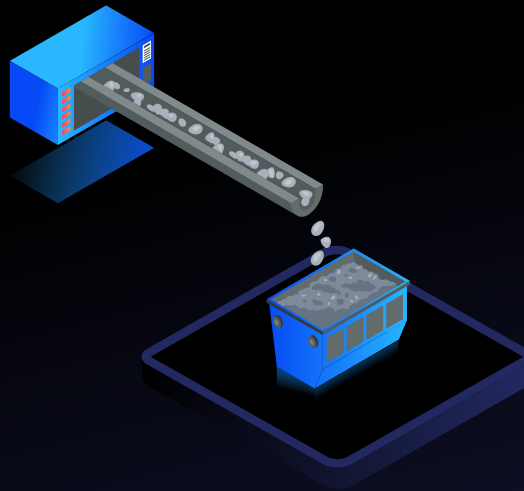
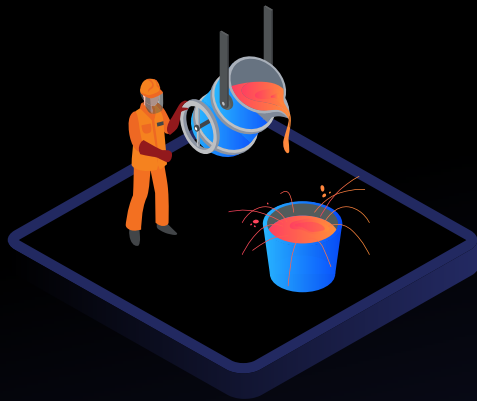
Smart Knowledge
Modeling

Smart Decision
Support

CAPRI project works towards the digital transformation of the Process Industry by developing cognitive solutions. To do so, CAPRI develops and tests an innovative **Cognitive Automation Platform (CAP)** engaging a Reference Architecture, both commercial and open source, for batch, continuous and hybrid process industry plants, with four levels of cognitive human-machine interaction: industrial **IoT connections, smart events processing, knowledge data models, AI-based decision support.**

The project further develops a **toolbox of cognitive solutions** for planning, operation, control and sensing. CAP platform and the cognitive tools included in will be modular and scalable, so that advanced applications could be developed and integrated on top of it, and replicable in areas of production planning, control, automated processes and operations of all SPIRE sectors.

Use Cases



Steel

Cognitive Production Management for Steel Bars by Digital Integration of Product and Process Information



Asphalt

Global cognitive solution for Asphalt concrete manufacturing



Pharma

Pharmaceutical manufacturing process for tablets

Expected Impact



5%-20%

Savings in Raw Material



-5%

overall reduction in energy consumption



-5% reduction of CO2 footprint



@CAPRI_EU



CAPRI EU PROJECT



CAPRI-PROJECT.COM



CAPRI.EU.PROJECT@GMAIL.COM



Project Coordinator:

CARTIF
Cristina Vega Martínez
criveg@cartif.es

Dissemination & Communication Manager:

CORE INNOVATION
Dr Nikos Kyriakoulis
nkyriakoulis@core-innovation.com