

capri

Where automation and cognition meet the process industry

Cognitive Automation Platform for European Process Industry digital transformation



This project receives funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement Number 870062.



12 partners



7 countries



6,1M€ EU Funding



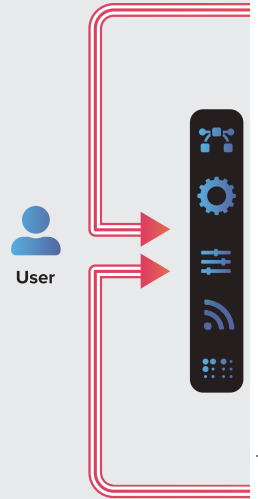
42 Months



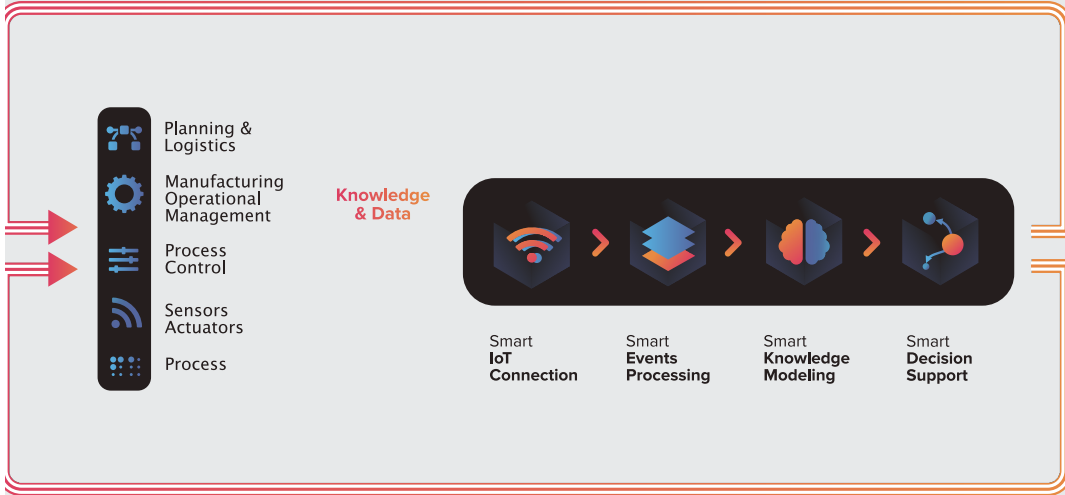
The Project

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.




COGNITIVE AUTOMATION PLATFORM FOR EUROPEAN PROCESS INDUSTRY DIGITAL TRANSFORMATION




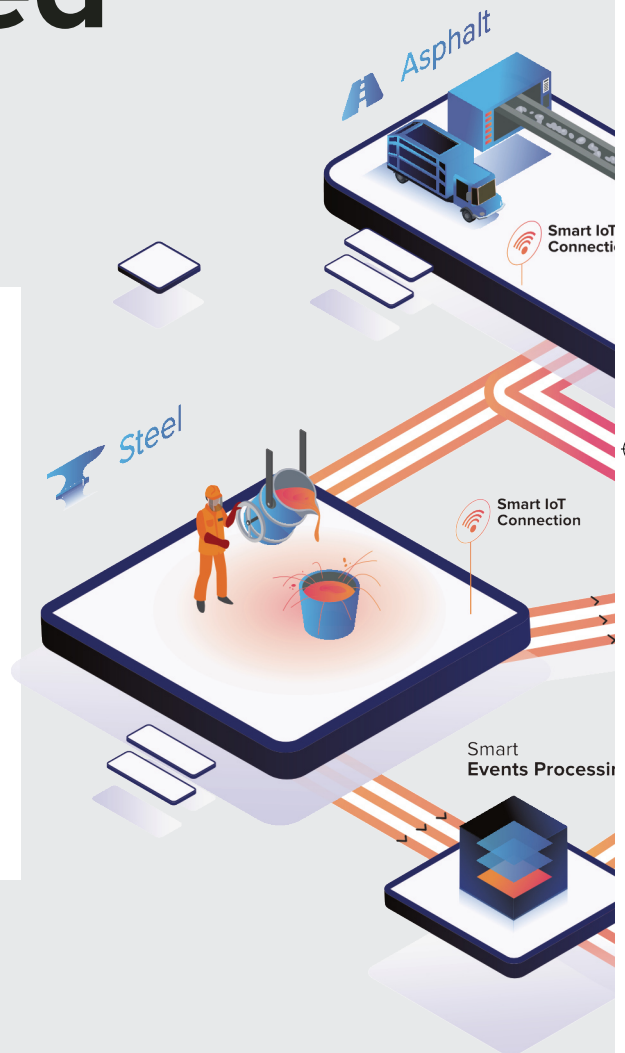
Expected Impact

on industrial and environmental aspects

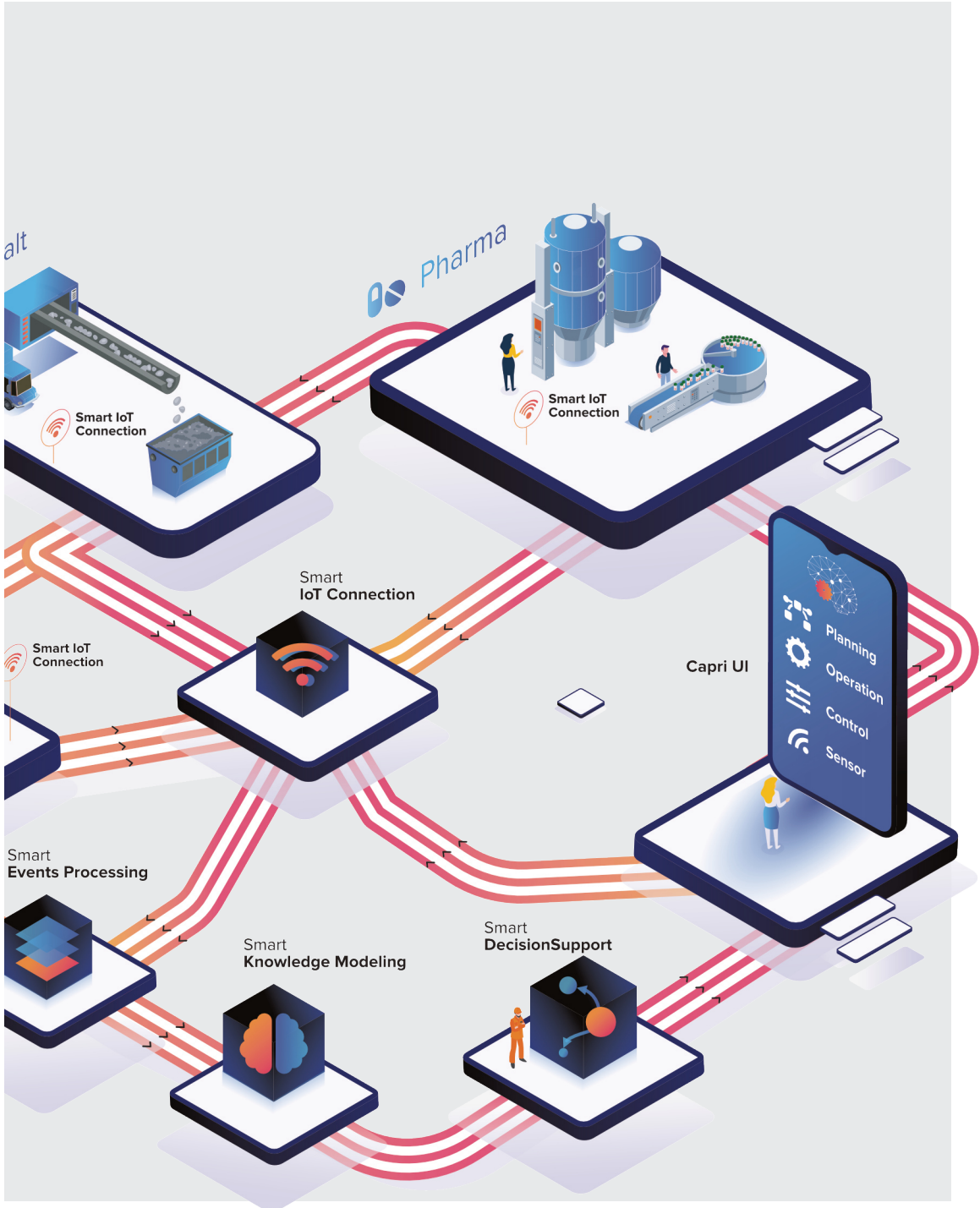
 **-5%** reduction of CO2 footprint

 **5%-20%** Savings in Raw Material

 **-5%** overall reduction in energy consumption



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Use Cases



ENGINEERING

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



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

Project

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