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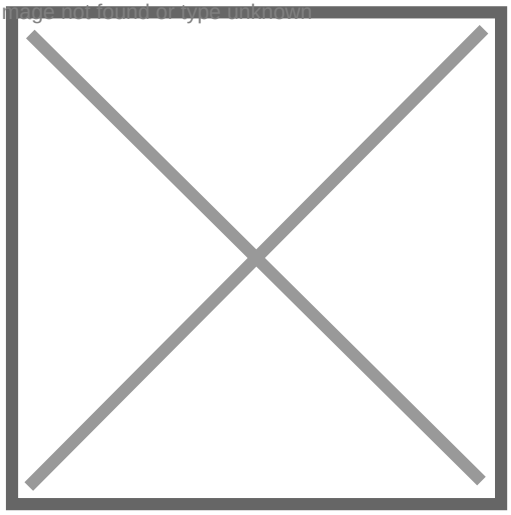

DT-SPIRE-06-2019

COGNIPLANT

Full Title: Cognitive Platform to enhance 360º Performance and Sustainability of the European Process Industry

Aim:

The project will demonstrate an innovative approach for advanced digitisation & intelligent management of the process industries. A novel vision to data monitoring and analysis will be developed, to make the most of the latest developments on advanced analytics and cognitive reasoning, coupled with a disruptive use of the digital twin concept to improve production plants operation performance.

Concept:
The COGNIPLANT solution will provide a hierarchical monitoring and supervisory control that will give a comprehensive vision of the plants production performance as well as the energy and resource consumption. Advanced data analytics will be applied to extract valuable information from the data collected about the processes and their effect on the production plant overall performance enabling to design and simulate operation plans in digital twin models based on the conclusions. As a result, optimal operation plans will be obtained that will improve the performance of those cognitive production plants. The concept will be implemented by four end-users from four different SPIRE industries, chemical industry in Austria, alumina refinery in Ireland, lime manufacturing industry in Italy and metal industry in Spain.

Start date:
01/10/2019

End date:
31/03/2023