DEVELOPMENT OF SENSORS, ANALYZERS AND MODEL-BASED CONTROL TO OPTIMIZE MANUFACTURING PROCESSES OF CHEMICAL FERTILIZERS.
Project aims:

- Development and integration of sensor, fast analyzers and model-based controls, to optimize different processes of the industry production of chemical fertilizers.

Expected results of the project:

- Development and validation of new chemical processes fast scanners.
- Development and validation of model-based controls for these processes.

Proposal address the following aspects:

- Cross-sectorial application of process analyzer technology in closed-loop process control capable of inline measurements.
- Integration methodologies within a large number of production conditions.
- Development of new soft-sensors and sensing concepts as well as models for improving process control using PAT data for the measurement of properties and quality of process streams and final products.

Expected impacts:

- Better process operations with respect to resource and energy efficiency.
- Improved monitoring and control of continuous plants.
- Improved capabilities for valid, reliable and real-time measurement of the properties and quality of process streams and final products.
EXPERTISE REQUESTED: Development and manufacture of process analyzers and sensors.
- ROLE: Technology Development.
- ORGANISATION TYPE: SME, Other enterprise.

EXPERTISE REQUESTED: Dynamic modeling of the chemical processes.
- ROLE: Research.
- ORGANISATION TYPE: Research.

EXPERTISE REQUESTED: Manufacture of chemical fertilizers.
- ROLE: Demonstration.
- ORGANISATION TYPE: SME, Other enterprise.

EXPERTISE REQUESTED: Manufacture of granulators.
- ROLE: Technology Development.
- ORGANISATION TYPE: SME, Other enterprise.

EXPERTISE REQUESTED: Exploitation.
- ROLE: Exploitation of results.
- ORGANISATION TYPE: SME, Other enterprise.
THANK YOU VERY MUCH FOR YOUR ATTENTION.

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