



SPIRE-01-2014

## **ProPAT**

**Full Title:** Robust and affordable process control technologies for improving standards and optimising industrial operations

### **Aim:**

ProPAT aims to develop novel sensors and analysers for providing measurements on composition, particle size and local bulk properties, as well as more traditional but smart sensors for measuring other process parameters, such as temperature, flowrate, pressure, etc., and integrate them into a versatile global control platform for data acquisition, data processing & mining and User Interface in order to measure properties of process streams and products, accurately and in real-time.

**Concept:** The PAT initiative focuses on building quality into the product and processes, as well as continuous process improvement. Essentially, integrating on-line measurement and/or modelling of critical quality attributes with automated feedback control of the process parameters impacting these attributes can ensure more efficient control of processes, reducing product variability, which will subsequently reduce the risk of releasing off-spec product into downstream discreet manufacturing, and increase customers' satisfaction, thereby preventing products being rejected (and discarded) further down the supply chain.

**Start date:** 01/01/2015

**End date:** 31/12/2018

---