



ASYSTOM



Use case Steel industry



THE OUTCOME:

“Asystem is a game changer in terms of reliability and productivity”



Detection of a gearbox problem in a crusher allowed a planned maintenance intervention



Digitalization contributes to optimal production management



R&D evaluated and recommended the Asystem IoT solution to different internal entities, as part of their drive for “Smarter Steels”.

THE SITUATION:

The ArcelorMittal Maizières campus tested AsystemPredict to monitor pumps in the cooling towers, used in the production of molten steel alloys. The goal was to detect anomalies in their “health” to prevent a possible breakdown.

The R&D lab approved AsystemPredict which was then deployed across multiple sites to monitor :



2.5MW air handling units

Pumps

Cooling towers

Cold rolling crushing machines



AsystemPredict IN ACTION:

ArcelorMittal quote: “The beacons are battery powered and transmit their data through a secure gateway. They attach to the surface of the machine to be monitored to collect data, typically detecting operating irregularities: surface temperature, vibrations, accelerations, ultrasound as well as ambient temperature and humidity. After an initial period called "learning" during which the beacons study the regular operation of the machine, the system becomes autonomous and can issue alerts in case of abnormal variations or drift. All the data collected is accessible through a web interface and can also be downloaded as data files, or even integrated directly into other systems through dedicated programming interfaces.” (Source : [Maintenance prédictive sur nos pilotes R&D – ArcelorMittal en France](#))

Antoine BRIDET,
Measurement & Control / Engineer

“Prevention is better than cure, as all mechanical or hydraulic machines suffer wear and tear from operation. The ubiquity of these devices in an industrial environment and the criticality of their proper functioning, make **Asystem technology a game changer in terms of reliability and productivity**”