

Partner search/offer

Date (DD-MM-YY)

- **Targeted call/topic (code & name of the topic(s) line(s))**

HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-39: Towards human-centric, sustainable and resilient energy-intensive industries (Processes4Planet and Clean Steel partnerships) (CSA)

- **Quick description of the project concept**

Integration of a consortium by adding a technological brick (Keyprod) to the developed solution

- **Description of the expertise requested/proposed (up to 1000 characters)**

Keyprod offers an innovative production monitoring solution based on a unique approach: interpreting the vibrational language of machines. Thanks to this non-intrusive technology, Keyprod enables real-time monitoring of industrial performance without requiring any production downtime.

Our solution aims to optimize human-machine interaction and enhance the value of human intervention within the factory. By leveraging vibration data, the system can calculate Overall Equipment Effectiveness (OEE), identify areas for improvement, and reduce environmental impact by maximizing the use of existing equipment — thus limiting the need for investments in new machinery.

The Keyprod solution is highly agile: an operator can equip five machines in less than two hours. This rapid deployment is particularly well-suited to large industrial companies seeking to improve traceability and supply chain resilience. In addition, the system includes automatic detection capabilities, currently under development, to simplify both initial installation and reconfiguration in case of changes to the machine fleet.

Keyprod relies on evolutive hardware that can be updated remotely (OTA), ensuring long-term adaptability. While a configuration and training phase is still required, the solution remains non-intrusive and does not require production lines to be stopped.

- **Keywords describing the expertise requested/proposed (up to 10 words)**

Automatic detection, predictive maintenance, machine traceability, easy integration within other digital systems

Organisation information

Organisation and country : JPB SYSTEME, FRANCE

Type of organisation: SME

Former participation in FP European projects? Yes

Web address : <https://www.keyprod.com>

Description of the organisation : JPB Système is a French industrial SME with over 200 employees, specialized in the design, development, and manufacturing of innovative self-locking solutions for demanding environments, particularly in the aerospace sector. The company is diversifying its activities by developing connected solutions that integrate smart sensors and embedded systems for predictive maintenance. Notable among these innovations are the Boltrakk program and the technologies developed by Keyprod.

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