

THE PLATFORM FOR INDUSTRIE 4.0 MANUFACTURING OPERATIONS.

WE LINK INDUSTRY TO ENTERPRISE

SMART FACTORY

Brick Reply™ is an enabling modular platform for **Industrie 4.0**. In the first place it offers ready-to-use Manufacturing Operations, from planning to execution through the various stages of quality data collection and tracking, it is at the same time capable of enabling complete integration between the shop-floor level and the enterprise level.

Through the connection of machinery and sensors, it provides an overall view of the plants and performance indicators in real-time, allowing the control, management, and optimization of production activities.

The scenario that **Brick Reply™** is able to define is a factory world connected with the outside, with the supply chain and other business departments.

The role of the new technologies adopted in **Brick Reply™** is fundamental for achieving this goal: Microservices, IIoT, Cloud and Big Data are essential and enabling factors for Industrie 4.0 paradigms.

MANUFACTURING OPERATIONS

Brick Reply™ consists of a set of modules and functions that covers the main processes of manufacturing reality.

PLANNING - optimization of resources

- Planning and scheduling of resources.
- Application of specific finite capacity algorithms (RCCP).

EXECUTION - simplification of operations

- Management of product and process definition.
- Manual and automatic production advances.
- Collection and management of traceability data.

QUALITY - scrap control

- Support for the collection of non-compliance data.
- Digitization of control cards.
- Application of statistical algorithms for process control (SPC).

MAINTENANCE - reduction of downtime

- Planning and control of scheduled and corrective maintenance.
- Statistical analysis of data to prevent malfunctions (predictive maintenance).

MONITORING - increased visibility on the shop-floor

- Real-time visibility of KPIs (OEE, Performance, Quality, Availability, ...) through customized dashboards.
- Availability of historical data through reporting.

INTEGRATION - connection of the factory

- Communication and integration with the main ERP and WMS systems.
- Direct integration with the field for data acquisition.



HIGHLIGHTS

FLEXIBLE

Brick Reply™ provides a single solution adaptable to heterogeneous production processes

SCALABLE

Brick Reply™ is a microservices solution that can be installed in the cloud and that allows one to gradually expand its potential

INNOVATIVE

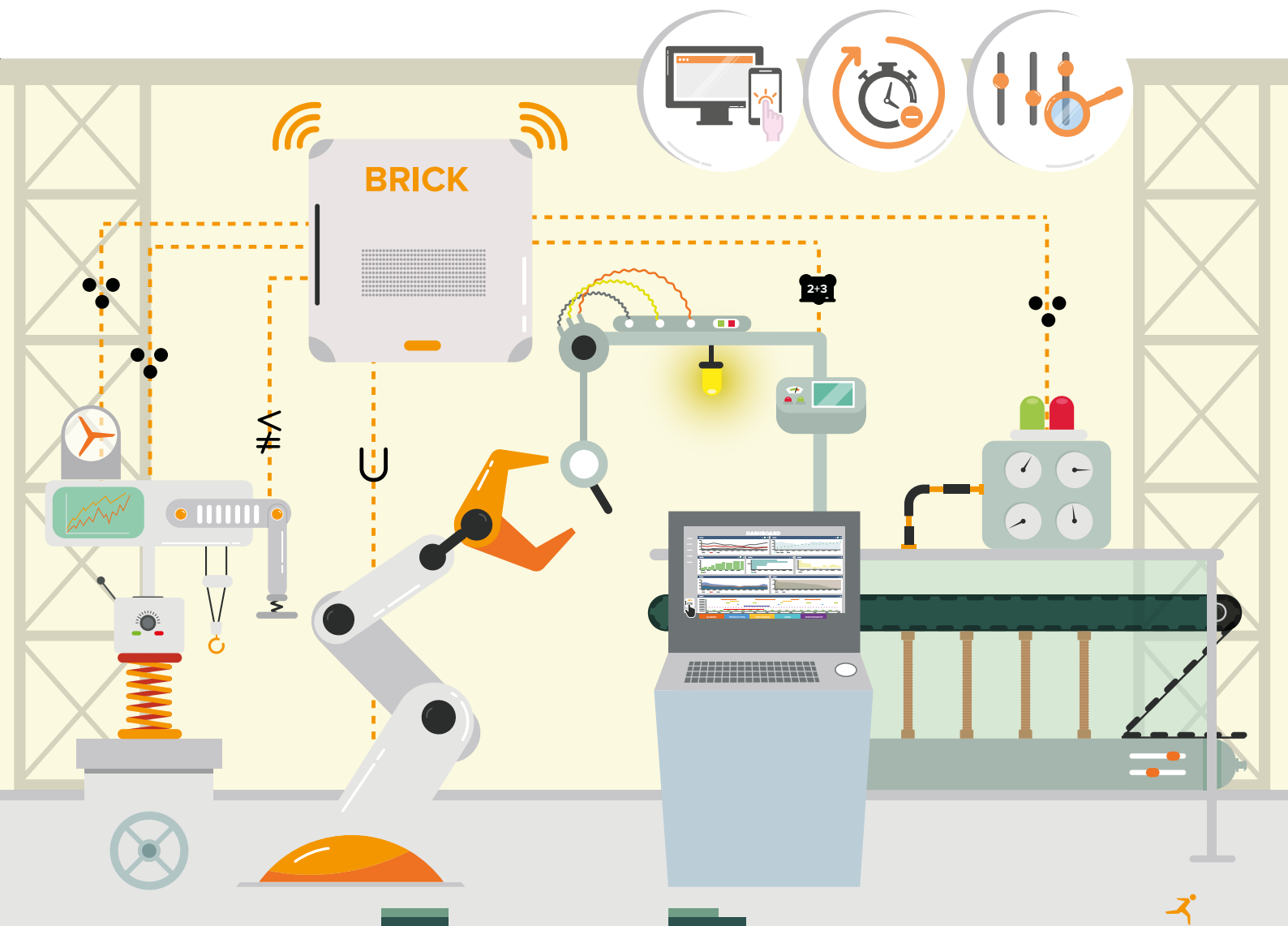
Through digitalization, **Brick Reply™** progressively transforms the factory into a Smart Factory

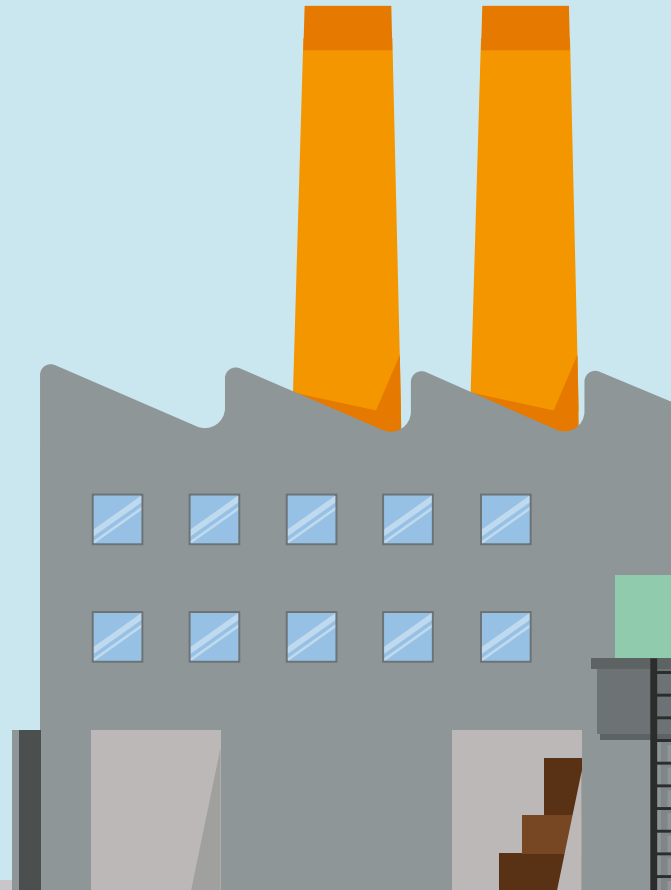
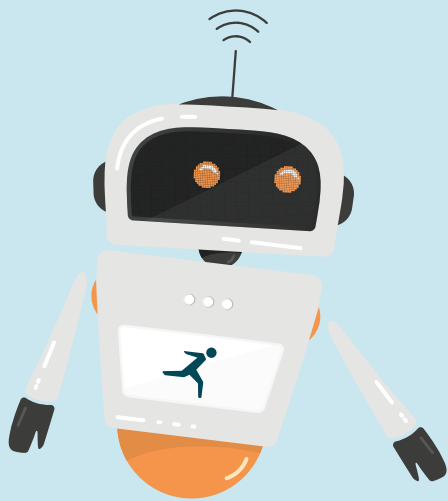
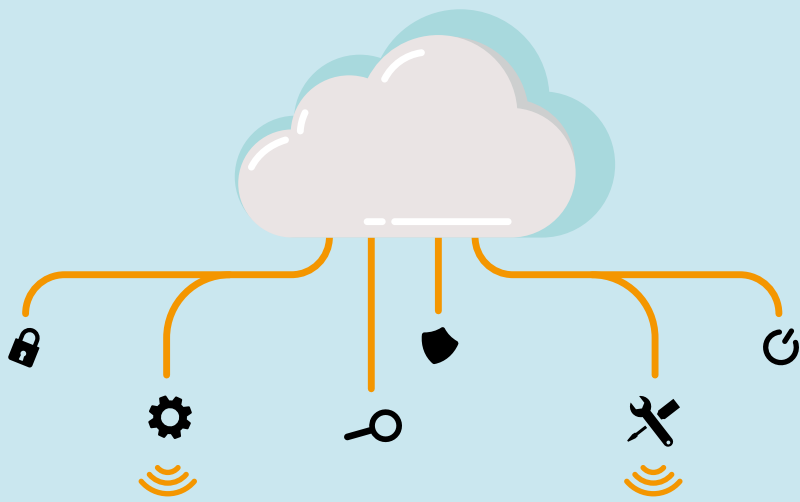
CONNECTED

Brick Reply™ is natively integrated with the main factory systems and with the shop-floor through the use of Industrial Internet of Things (IIOT) technologies

INTUITIVE

Brick Reply™ consists of a user-friendly interface optimized for usage on mobile devices





Brick Reply is the Reply group company specialized in innovative technological solutions, Application Maintenance services, and process consultancy in the Manufacturing field. The **BRICK Reply™** platform was born in 2015 with the production management module and since then it has been continuously expanding, counting today numerous modules supporting manufacturing processes. Based on a microservice architecture, the **BRICK Reply™** platform responds to the market's needs for flexibility and innovation, promoting and simplifying the integration between the manufacturing world and new technologies.