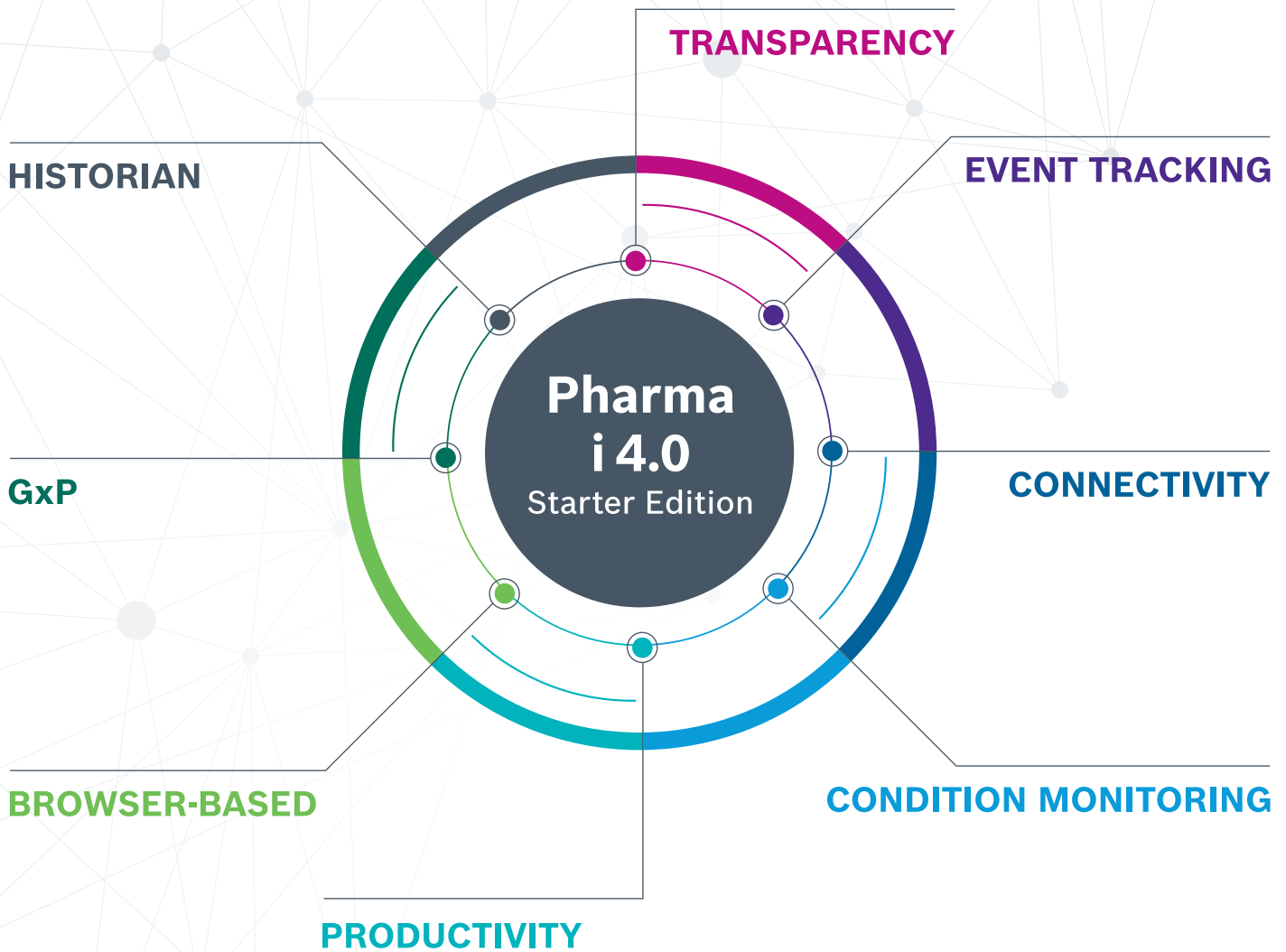




**BOSCH**

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# Managing machines and processes

Industry 4.0 solutions – transparency on a new level

# Pharma i4.0 Starter Edition

## Keeping a close eye on processes and lines



### PHARMA i4.0 SOLUTION PLATFORM

The Starter Edition of the Pharma i4.0 solution platform is designed to provide monitoring, measuring, reporting and analytics to run pharmaceutical manufacturing operations more effectively. It works with Bosch Packaging machines but can also be used with third-party equipment. Data for entire production lines (and more) can be collected in a robust way (clear and complete). The Starter Edition enables compliance with GxP requirements, FDA's 21 CFR Part 11 and European Annex 11 regulations for electronic records.

### CORE PRODUCT FEATURES

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- + Condition Monitoring: Collection and long-term storage of data and notification of deviations
- + Event Tracking: Detection and classification of production stoppages and slow-downs
- + KPI Management: Calculation and analysis of Key Performance Indicators (e.g. OEE, MTBF)



- ▲ Responsive design: data is available on mobile and stationary devices



▲ Machine dashboard



▲ Condition monitoring

## CUSTOMER VALUE

The Pharma i4.0 Starter Edition is designed to increase transparency by quickly assessing the overall production status. It facilitates taking knowledge-based decisions to improve productivity. Trends and root causes can be identified through condition monitoring and systematic event tracking. The users can comfortably interact on mobile and stationary devices to obtain all relevant information fast and uncomplicated. The Starter Edition is the first step towards Industry 4.0 and a starting point for activities in data analytics, machine learning and artificial intelligence.

## BENEFITS

- + Improvement of productivity and transparency
- + Knowledge-based decision making
- + Early warning system: Identification of trends and root causes
- + Enabler for data analytics, machine learning and artificial intelligence

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