R.A.M.

plast**P**MS

plastic Production Monitoring System

INDUSTRY 4.0

Optimize your Production

A networked world also has an impact on the manufacturing industry:

Without the networking of components and values, it becomes increasingly difficult for the manufacturing industry to produce economically.
One way to manage this challenge is for example, to expand the manufacturing line to a smart factory with Industry 4.0, where production is virtually mapped and monitored.
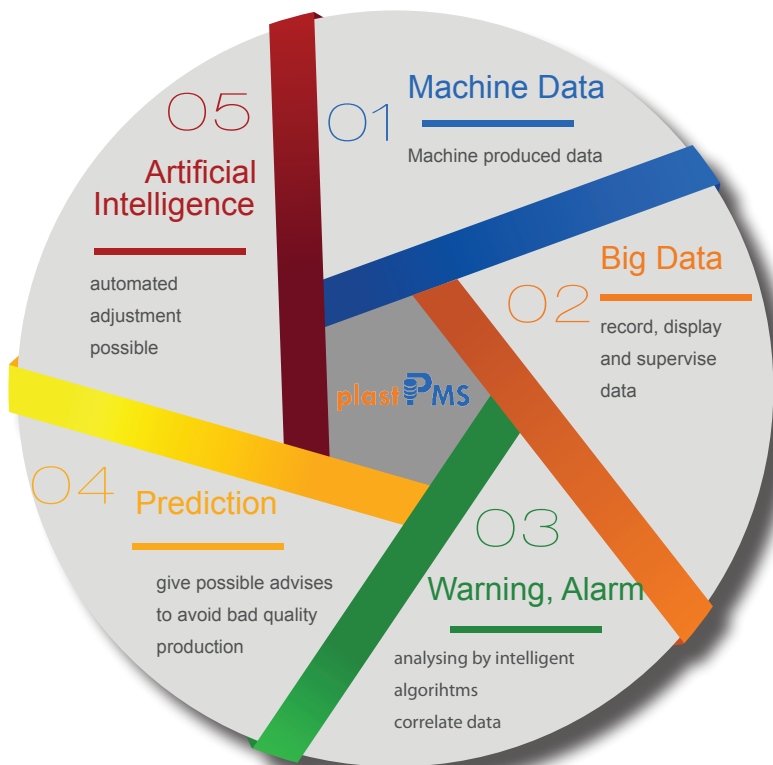
Digitization helps manufacturing companies to manage the challenges of the highly competitive plastics market. This makes it possible for example, to make in its own production facilities maintenance more efficient. Because of **industry 4.0**, **internet of things** (IoT), **data mining** and **big data**, **predictive maintenance** becomes possible:
Machines automatically detect when maintenance is necessary - which significantly reduces support costs.

Furthermore, **predictive production** is also possible:

The prediction how the quality will change in the next few minutes during production and which countermeasures could be taken before failures occur and waste will be produced.

5-Step Optimisation:

01 Machine Data
Machine produced data

02 Big Data
record, display and supervise data

03 Warning, Alarm
analysing by intelligent algorihtms correlate data

04 Prediction
give possible advises to avoid bad quality production

05 Artificial Intelligence
automated adjustment possible
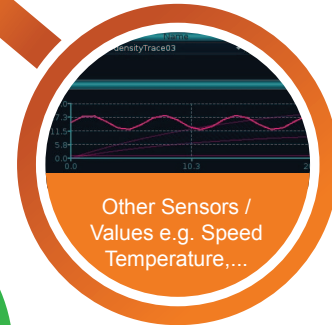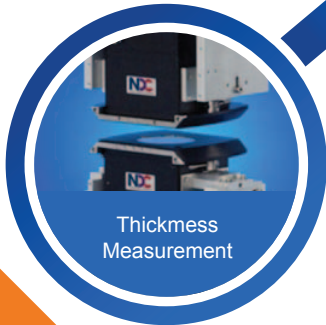
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Enhance Data Usage

Enhance the data handling by storing all data in one central database.
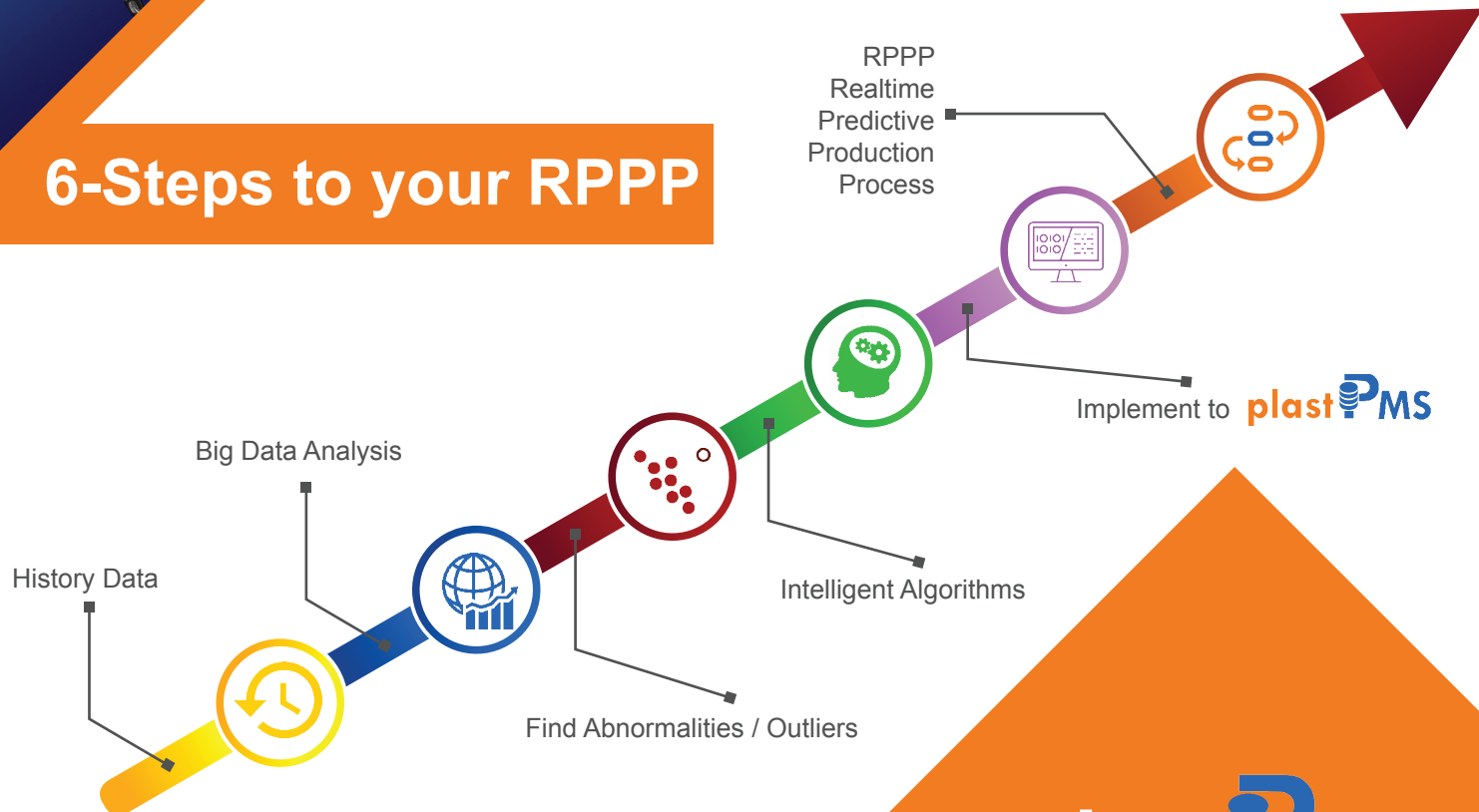
The advantage is:
- sensors suddenly know their neighbours
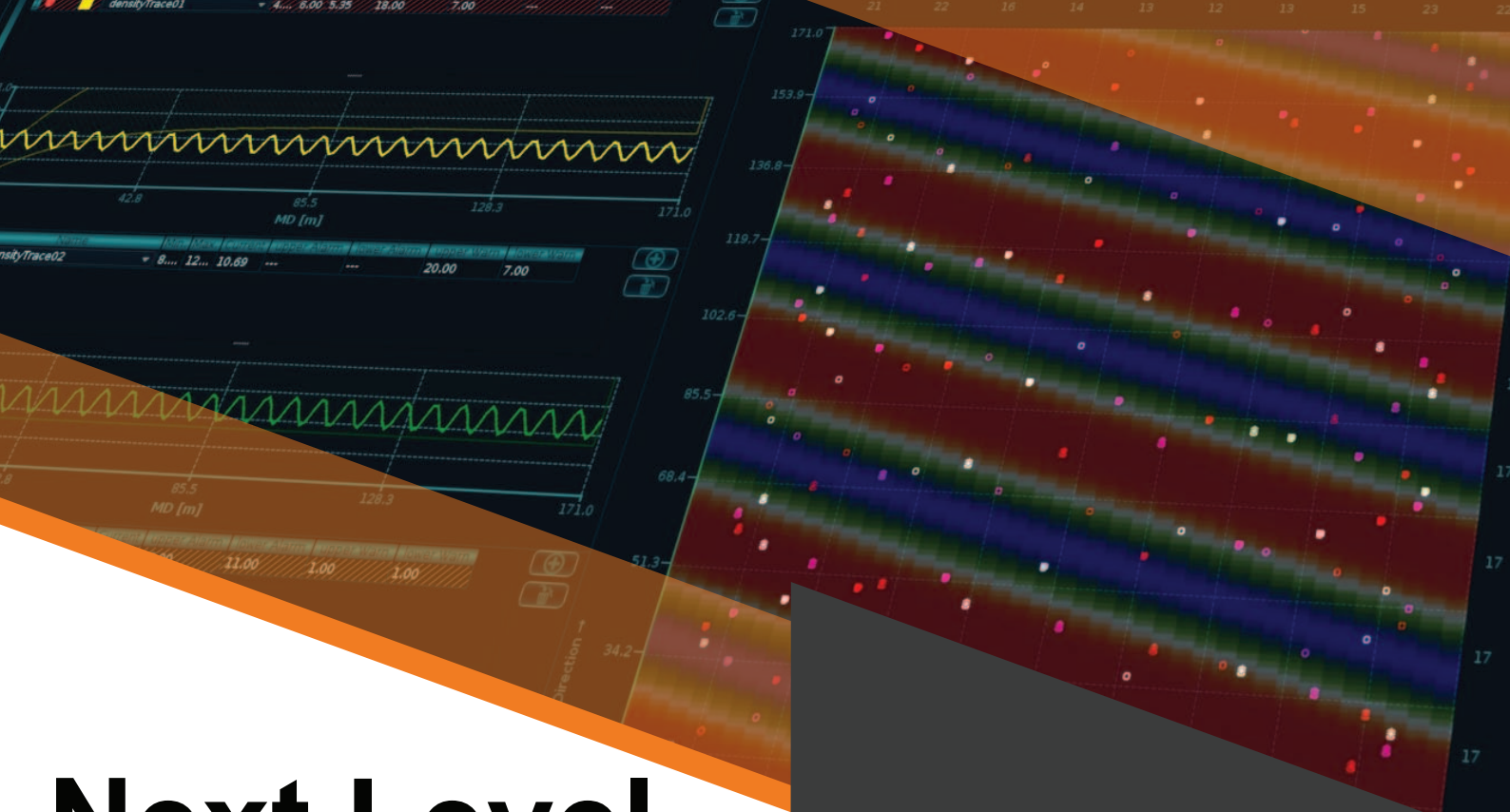- result data can be correlated

plastPMS will be your single point of data viewer for your complete production.

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Thickmess Measurement

Web Inspection

Breathability Measurement

Other Sensors / Values e.g. Speed Temperature,...

6-Steps to your RPPP

RPPP Realtime Predictive Production Process

Implement to plastPMS

Intelligent Algorithms

Big Data Analysis

Find Abnormalities / Outliers

History Data

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Next Level
Plastic Production

☑ higher effectiveness of all systems

☑ (plastic) waste reduction

☑ optimal resource usage

☑ better machine utilization

☑ quality improvement

Smart Factory
display and monitor all factory, machine and sensor data at a glance

Data Mining
view, correlate ans overlay (big) data by intelligent algorithms

Artificial Intelligence
map your process virtually: get warnings, alarms and advices to optimize or steer your process

Predictive Production
notice and eliminate failures, defects and waste before occurence

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