How does PwC Factory Intelligence address those needs?

**Dashboards that matter**

1. Integrated dashboards developed for business experts and real-time activity feed, using a user-centric approach to drive better decision making.
2. Trigger alerts and actions to ensure closed-loop analytics. Enable self-service analysis by supporting real-time queries & ad-hoc data sources.

**Intelligent Maintenance**

1. Pre-configured solution that helps to manage critical assets more efficiently by using AI-trained algorithms and pre-recordings for asset performance.
2. Artificial intelligence-based algorithmic recognition of state changes with trigger-associated counter measures in maintenance scheduling or paperless maintenance solutions.
3. AI-based assurance of maintenance procedures to increase quality and safety.

**Production Analytics**

Identify reasons for being off track in production and enable root-cause analysis. Dig deeper and understand production variances that do not have real-world visibility if they are “within the hour,” or if they lack the ability to see why they are not manufacturing to plan. In addition, root cause analysis is often performed retrospectively based on historical data after the production took place, which is often limited in machine availability.

1. More productive supervisors and operations to roll down in the different elements of OEE and to all different output factors (material, labor, machine, floor).
2. Alert appropriate person or trigger any other action if any resources for production are missing.
3. Visualise inventory patterns and workflows with maximum visualisation of information.

**Predictive Quality**

Early detection of quality issues and adaptive configurations for machine readiness are critical to prevent issues due to too many interfaces, heterogeneous data sources and missing analytical capabilities, which prevents them to hit their volumes to do end-to-end cycle times and subsequent defect analysis.

1. Enabling root cause analysis and defect analysis for quality issues by providing ‘root-cause’ methods in bringing together all relevant data sources.
2. Pre-drill analyst models understanding and classification to detect quality loss patterns and works recommendations – e.g. in the case of Line testing.
3. Providing a recommender system to provide counter measures for upcoming quality issues.

**Digital Lean**

Identify waste and increase efficiency. While industrial scale methods drive decreasing operational benefits over the last years, the Digital Lean methods have shown unparalleled benefits by leveraging data-based waste diagnosis to reveal hidden improvement potentials.

1. Visualise inventory patterns and workflows with real-time location data.
2. Location based sensors combined with existing data delivers a new degree of transparency.
3. Use algorithms to support by-data-based waste identification.

How our Dashboards look like