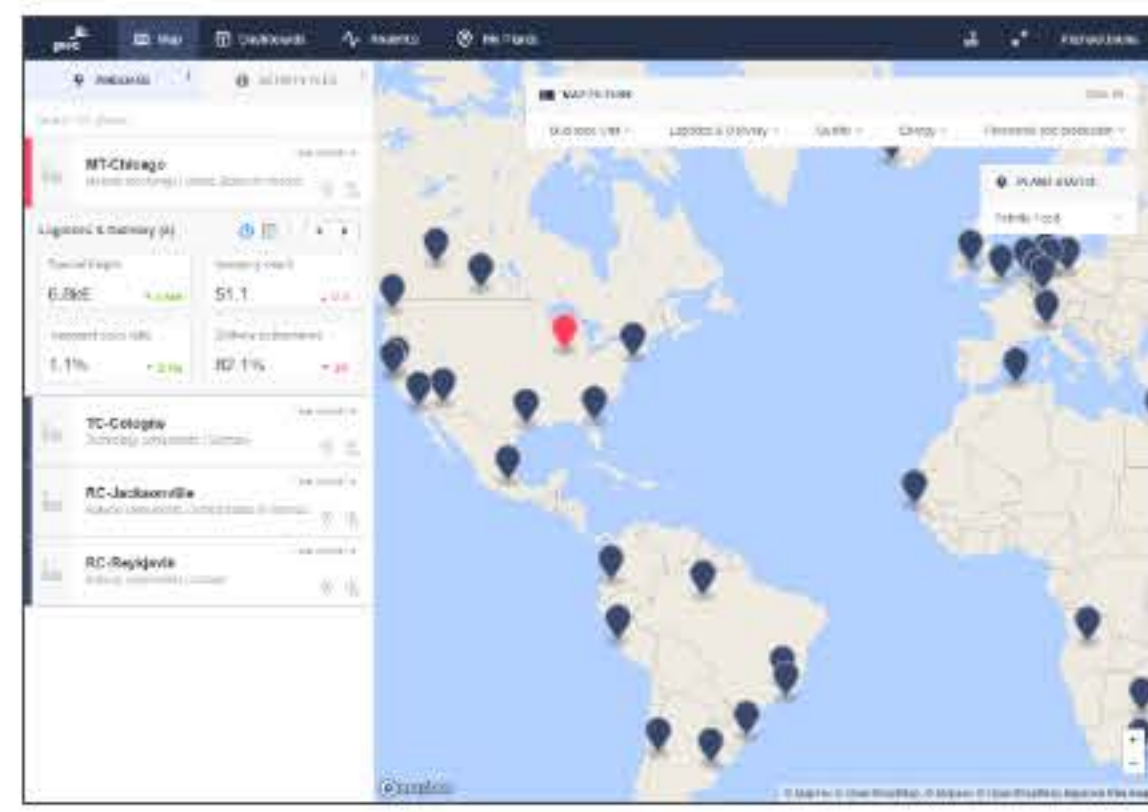


How does PwC Factory Intelligence address those needs?

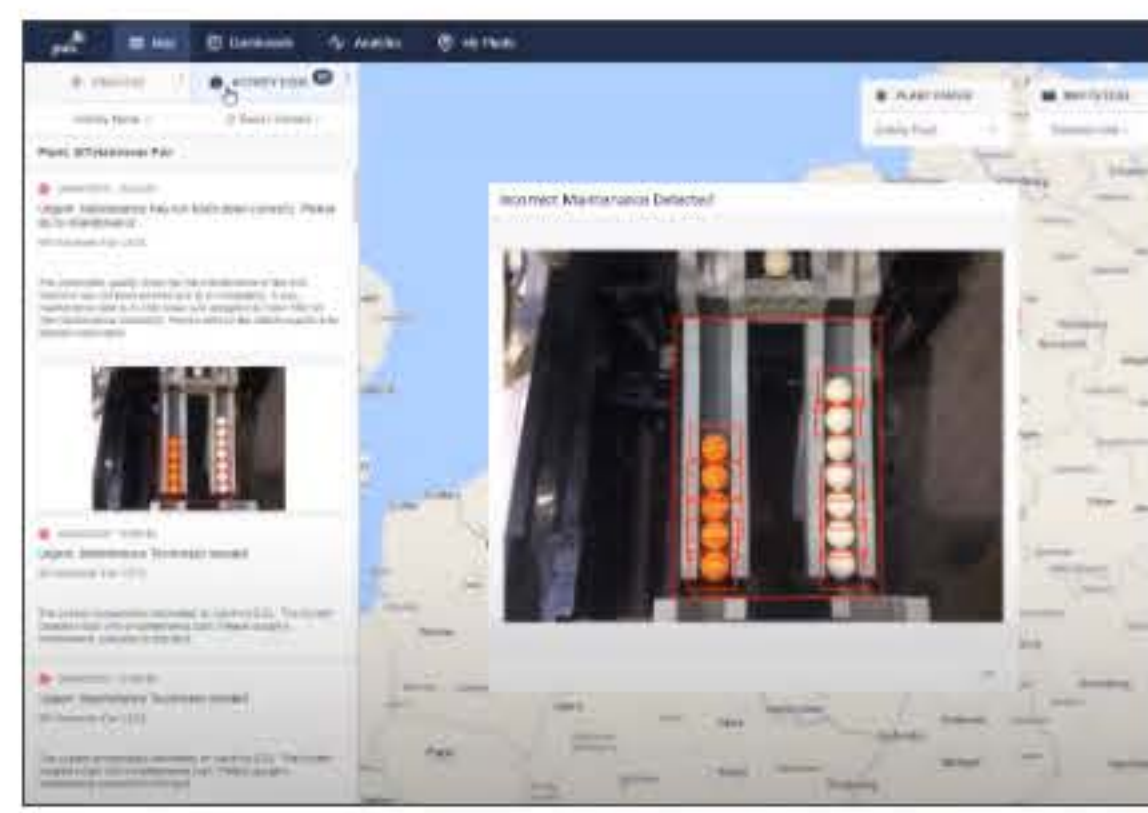
Dashboards that matter



Dashboards That Matter powered by PwC Factory Intelligence **addresses customer challenges** like clients struggle with dashboards that are either overloaded, not displaying relevant information or are scattered over multiple applications, and therefore insights are not translated into actions to optimize business performance. Recent events in the production network and historic repostings are not linked to each other thus a holistic decision making is not possible.

- ✔ Integrated dashboards developed by business experts and real time activity feed using a user-centric approach to drive better decision-making.
- ✔ Trigger alerts and actions to ensure closed loop analysis. Enable self-service analytics by supporting mobile devices & natural language queries.
- ✔ Flexible data model supports central and individual KPIs & leverages existing data sources.

Intelligent Maintenance



Avoid downtimes and integrate predictive maintenance into an intelligent process Current asset management solutions often do not focus on the business implications of the asset's status. This makes it hard for shop floor staff to identify if a change in an assets status is putting the daily production targets at risk.

- ✔ Pre-configured solution that helps to manage the critical assets more effectively by using pre-trained algorithms and giving insights into asset performance.
- ✔ Artificial Intelligence based pattern recognition of error states with to trigger associated counter actions in maintenance scheduling or paperless maintenance solutions.
- ✔ AI-based assurance of maintenance procedures to increase quality and safety.

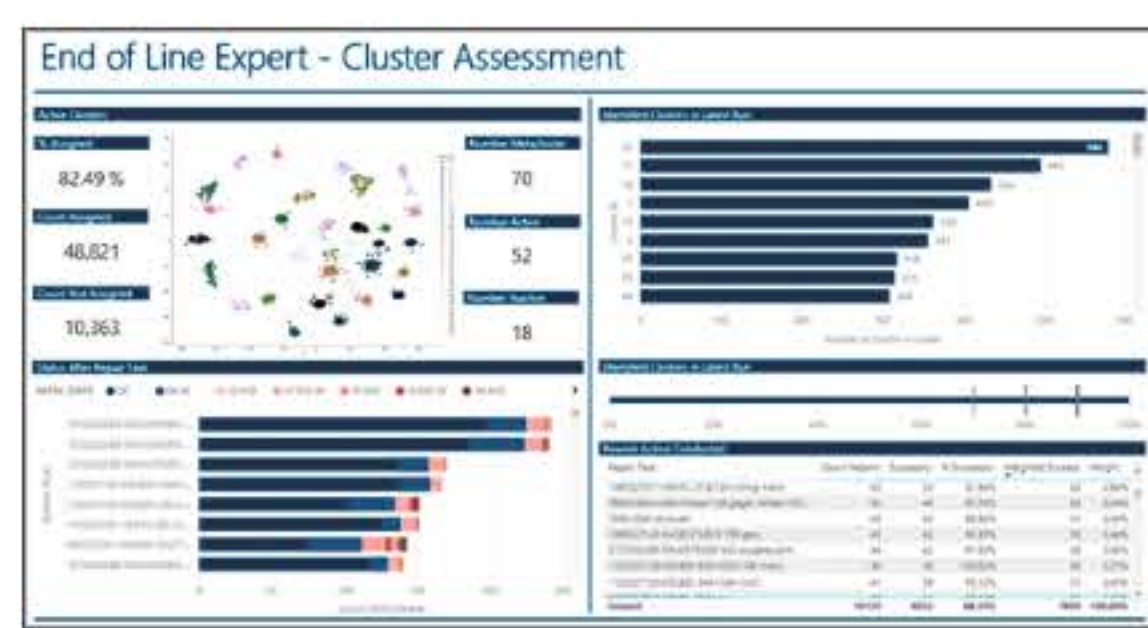
Production Analytics



Identify reasons for being off track in production and enable root cause analysis Shop floor workers and production supervisors do not have real-time visibility if they are "winning the hour" or they do not have the ability to see why they are not manufacturing to plan. In addition, root cause analysis is often performed retrospectively based on historic data days after the production took place and is often limited to machine availability.

- ✔ Allow production supervisors and operators to drill down in the different elements of OEE and to all different input factors (material, labor, machine, flow).
- ✔ Alert appropriate person or trigger any other actions if any resources for production are missing.
- ✔ Visualize movement patterns and workflows with real-time location information

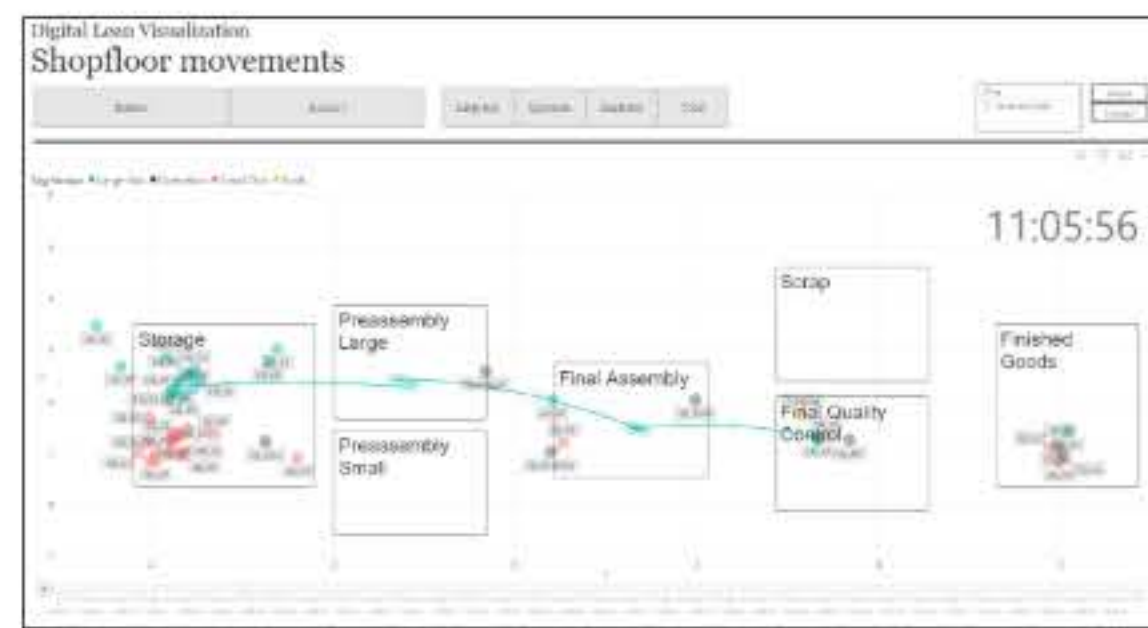
Predictive Quality



Early detection of quality issues and automatic suggestions for rework needs Most clients cannot address their quality problems due to too many interfaces, heterogeneous data sources and missing analytical capabilities, which prevents them to enable their workforce to do end-2-end root cause and subsequent defects analysis.

- ✔ Enabling root-causes and subsequent defects analysis for quality issues by providing 'best-in-class' methods in bringing together all relevant data sources.
- ✔ Pre-build analytical models like clustering and classification to detect quality issue patterns and re-work recommendations e.g. in the End-of-Line testing.
- ✔ Providing a recommender system to provide counter measure for upcoming quality issues.

Digital Lean



Revealing Value Stream inefficiencies to identify waste and increase efficiency While conventional Lean methods shows decreasing incremental benefits over the last years, the Digital Lean module can reveal untapped benefits by leveraging data-based waste identification to reveal hidden improvement potentials.

- ✔ Visualize movement patterns and workflows with real-time location data.
- ✔ Location based sensors combined with existing data delivers a new degree of transparency.
- ✔ Build-in algorithms to support Big-data-based waste identification.

How our Dashboards look like

