



## Live Enterprise – Cognitive Manufacturing



**Function:** Manufacturing

**Processes:** Production, Contract Manufacturing

**Industry:** Consumer & Industrial Products (C&IP) – Automotive; C&IP – Industrial Products & Services; Life Sciences; Technology, Media & Telecommunications

For more information contact [sap@deloitte.com](mailto:sap@deloitte.com)

### Business Driver

Companies have the ability to utilize advanced analytics to build out their supply chain model, using lead times to provide a clear picture of output, while also highlighting capacity utilization within manufacturing locations. Internet of Things (IoT) has the capability to provide this visibility from each manufacturing location real-time, allowing for dynamic lead time consideration during each production run.

### Solution Overview

Deloitte's use case of "Live Enterprise – Cognitive Manufacturing", built on top of SAP® Leonardo, provides visibility to data values with dynamic updates, enabling real-time insights to product lead times as well as line utilization for Finished Good production.

### Features

#### Visibility to "true" product lead time & capacity

- ✓ Utilize real-time production runs to validate and update lead times for Finished Goods
- ✓ Better understand line capacity in order to adjust production sites to ensure full volume produced

#### Increased visibility to contract manufacturing locations

- ✓ Real-time integration to contract manufacturing facilities, providing more accurate insight into which locations to utilize for production
- ✓ Generate actionable plans within SAP S/4HANA® and IBP to re-plan production based on real-time production insights

#### Ability to shift production due to constraints

- ✓ Gather insights and provide recommendations to transfer production to other valid manufacturing sites

### Potential Benefits

- ✓ Improve decision making on production locations based on real-time information gathered from manufacturing sites
- ✓ Accurate production lead-times allowing better planning, inventory management and sales order confirmations
- ✓ Ability to adjust and predict product throughout, ensuring full volume of product is produced as expected
- ✓ Enable better integration from manufacturing location in order to optimize production runs and run lines at higher capacity



IoT

- Real-time data updates for more accurate production integration
- Monitor and capture production output at most detailed level



Machine Learning

- Lead time and capacity recommendation based on historic information



Analytics

- Geographical Dashboarding
- History and Trend Analysis



S/4HANA Integration

- Production Planning Integration
- Order Management