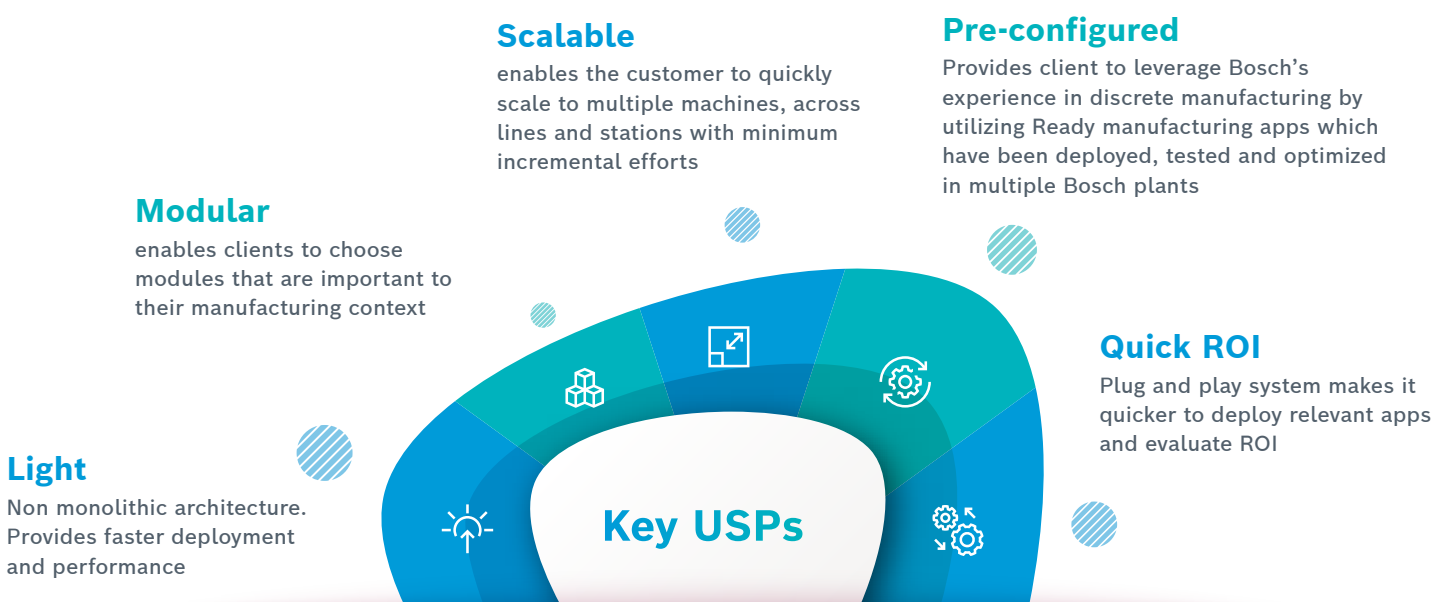# BOSCH INDUS 4.0

A Lite IIOT platform

Modular, cloud / on-premises offering that offers pre-configured apps to address a broad range of manufacturing functionalities encompassing Production, Quality and Maintenance . It can also be customized to suit specific client requirements.

Benefits

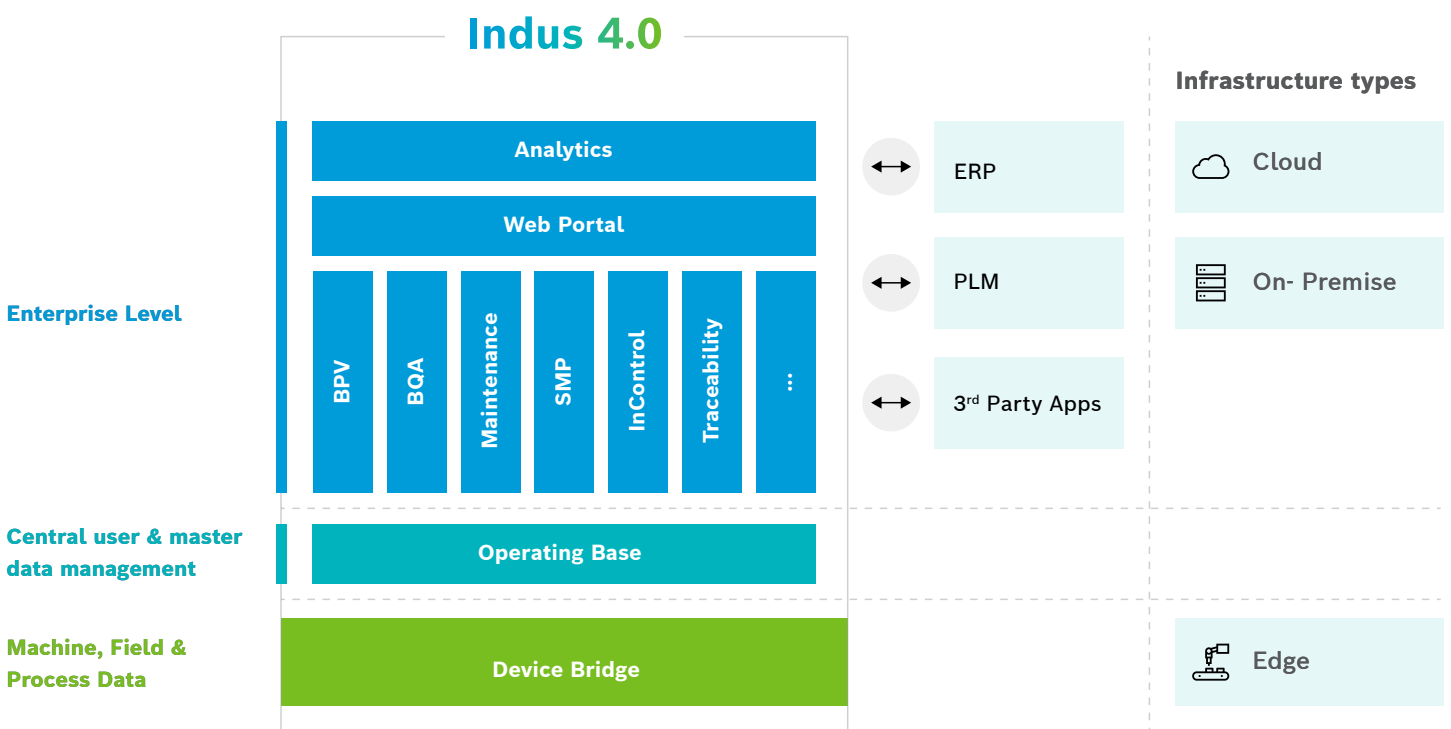Sample key benefits delivered by Bosch Indus 4.0 in client deployments

20% to 25%
productivity improvement

15% to 20%
asset downtime reduction

2% - 8%
improvement in FPY

Scalable
enables the customer to quickly scale to multiple machines, across lines and stations with minimum incremental efforts

Pre-configured
Provides client to leverage Bosch's experience in discrete manufacturing by utilizing Ready manufacturing apps which have been deployed, tested and optimized in multiple Bosch plants

Modular
enables clients to choose modules that are important to their manufacturing context

Quick ROI
Plug and play system makes it quicker to deploy relevant apps and evaluate ROI

Light
Non monolithic architecture. Provides faster deployment and performance

Key USPs

Solution Overview

Indus 4.0 solution suite comprises of a robust asset connectivity layer and a modular Industry 4.0 applications layer.

Indus 4.0

Enterprise Level	Analytics
	Web Portal
	BPV / BQA / Maintenance / SMP / InControl / Traceability / ...

ERP
PLM
3rd Party Apps

Infrastructure types
Cloud
On- Premise

Central user & master data management — Operating Base

Machine, Field & Process Data — Device Bridge

Edge

ERP: Enterprise Resource Planning | **PLM:** Product Lifecycle Management

Connectivity layer

Bosch DeviceBridge acquires status and performance data from a wide variety of Machines, Controllers, Equipments and disparate data sources on the shop-floor using its extensive library of industrial drivers. It performs smart data processing operations and sends data seamlessly to upstream Industry 4.0 applications.

Applications layer

Comprises of a broad range of pre-configured applications that share a common connectivity and configuration layer.
These include

Bosch Production Visualizer (BPV): Real-time Production KPI Visualization like OEE/OLE, etc.	Bosch Quality Assist (BQA): Real time quality monitoring and alerts.
Maintenance Management: A comprehensive maintenance management app.	Smart Manpower Planning (SMP): Man power planning based on Skill & Machine availability.