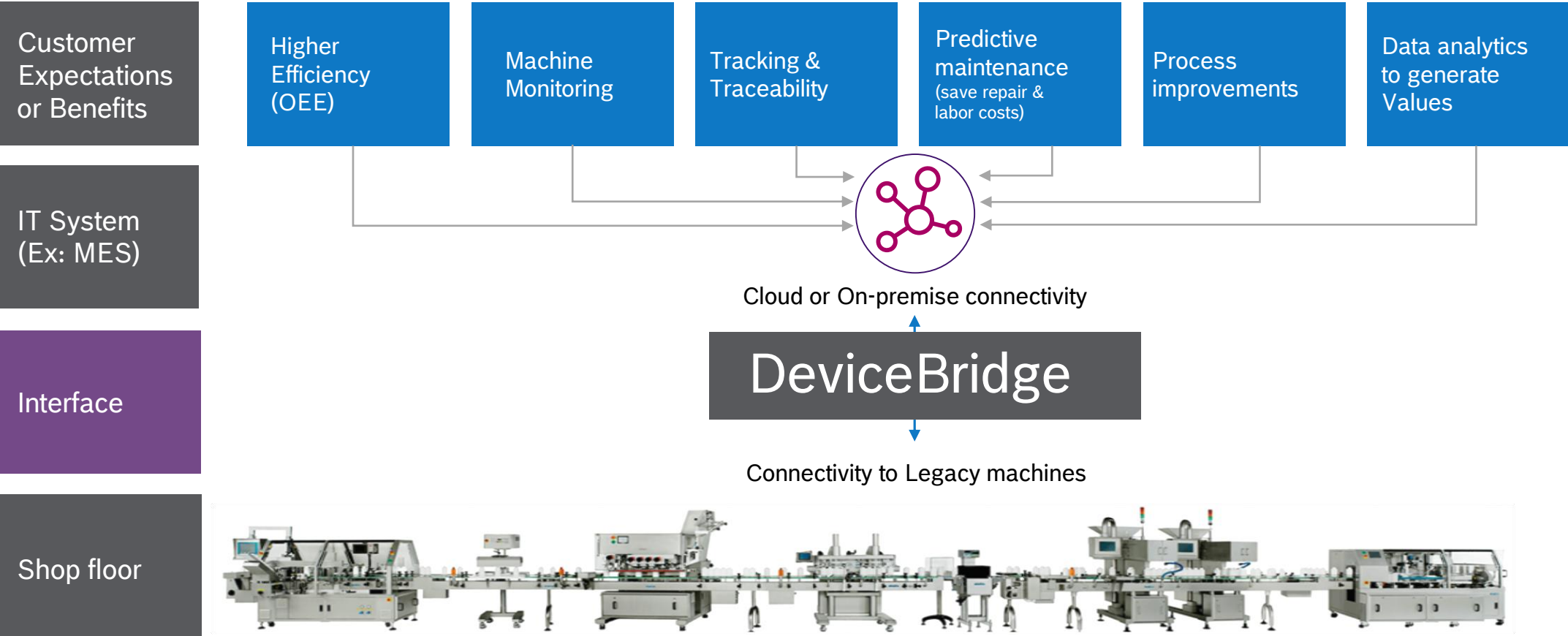


ROBERT BOSCH ENGINEERING AND BUSINESS SOLUTIONS

DEVICE BRIDGE

DeviceBridge – Establishing connectivity to (legacy) Machines



DeviceBridge – Positioning



IT Systems



MES



Digital Twin



Energy Platform



Databases



File Storage



ERP



Cloud Services



MAP
Manufacturing Analytic Platform

TCP/IP, MQTT, HTTP, REST, Web Api, Json



Device Bridge Interface



Device Drivers



Industrial Communication Protocols



Coming soon

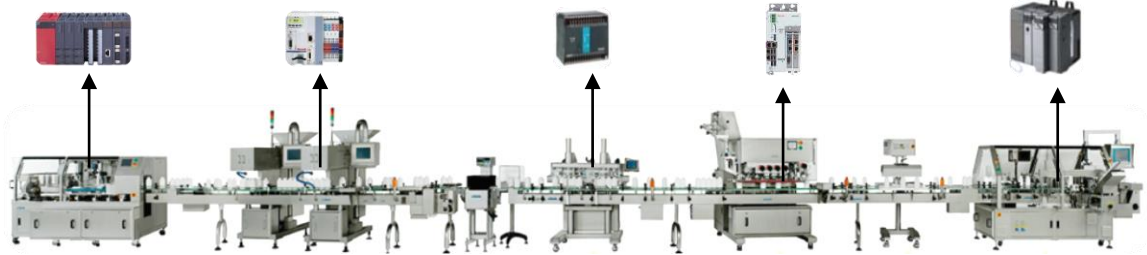


App Api's

Ethernet



Shop floor



Upstream IT Applications



Communication Bridge



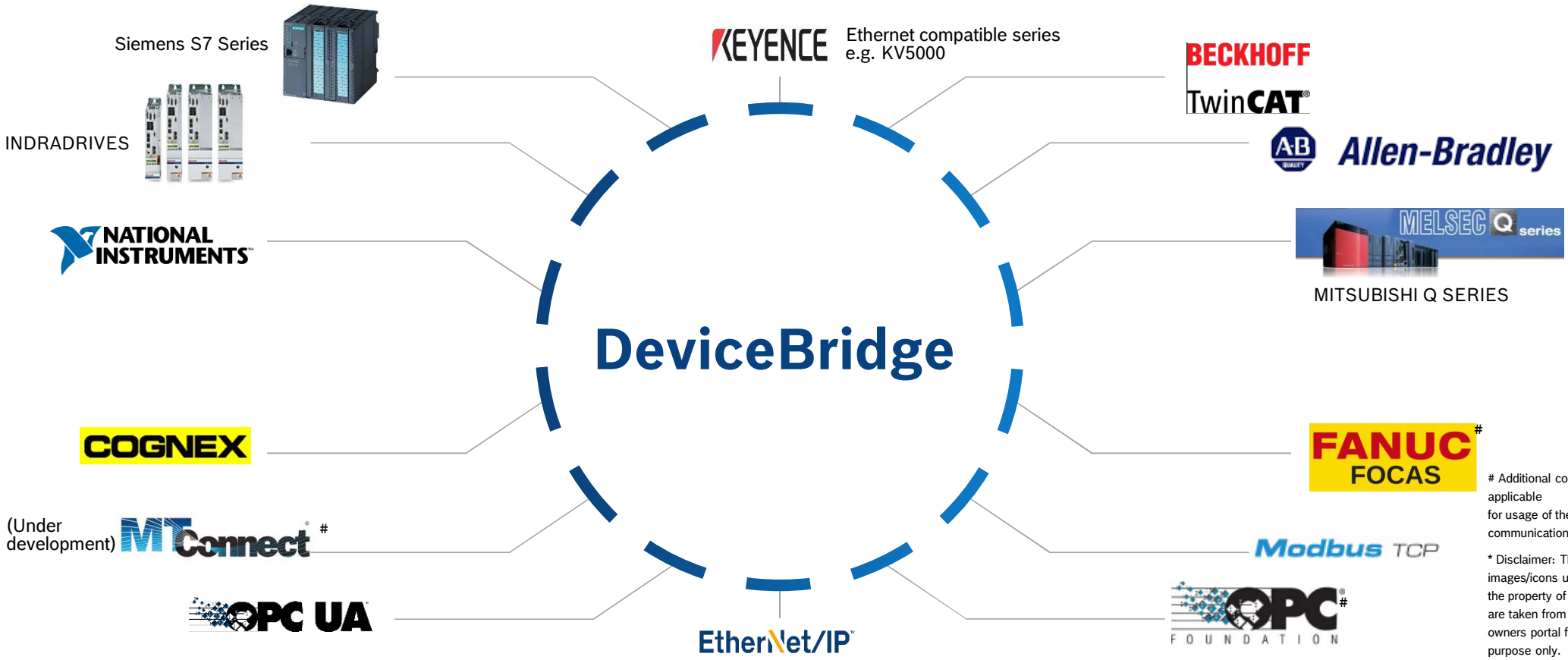
Legacy machines, PLC's, CNC's, Sensors



Features:

- ▶ A plug & play software solution which can acquire & transfer data from various shop floor devices – PLC, CNC
- ▶ Data acquisition in the form of tags.
- ▶ Drivers available for various popular controllers – Siemens, Rexroth, Mitsubishi, Allen Bradley, Fanuc etc.
- ▶ Supports multiple industrial communication protocols – OPC, Ethernet/IP, Modbus TCP, Profinet, etc
- ▶ Has built-in data transfer adapters supporting various data sinks – Databases, Web Services, Excel etc.
- ▶ Interacts to Upstream applications through various methods – TCP/IP, MQTT, HTTP, REST, Web Api, Json etc
- ▶ Fault tolerance - Stores data without data loss in case of data transfer issues at upstream connections.
- ▶ Implemented and proved in shop floor environment at Bosch and Non Bosch customers
- ▶ Framework based, customizable for user specific requirements

DeviceBridge – Tested and Proven



Additional cost may be applicable for usage of these communication protocols

* Disclaimer: The images/icons used are not the property of RBEI and are taken from respective owners portal for reference purpose only.

DeviceBridge – Benefits



- 01 | Plug & Play, Faster & Flexible Integration
- 02 | No(or min) modification of Controller programs
- 03 | Real Time data acquisition
- 04 | Single solution to collect data from disparate Devices
- 05 | Framework based, Customizable Solution
- 06 | Loosely Coupled Architecture
- 07 | Fault Tolerance (Inbuilt retry mechanism for failures in upstream systems)

THANK
YOU