

up next

11:30

Modulare Automation mit Module Type Package

Andres Oetken | Beckhoff Automation

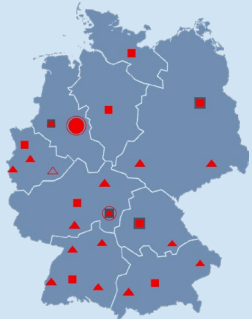
BECKHOFF

MTP Architectures

Andres Oetken



Verl, Deutschland



Headquarter

5.500



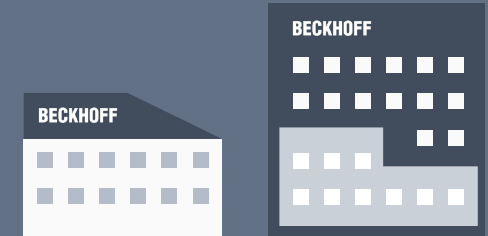
Mitarbeiter weltweit

2.000



Ingenieure

23



Vertriebs-/Geschäfts-
sitze in Deutschland

40



Tochterunternehmen/
Repräsentanzen

> 75

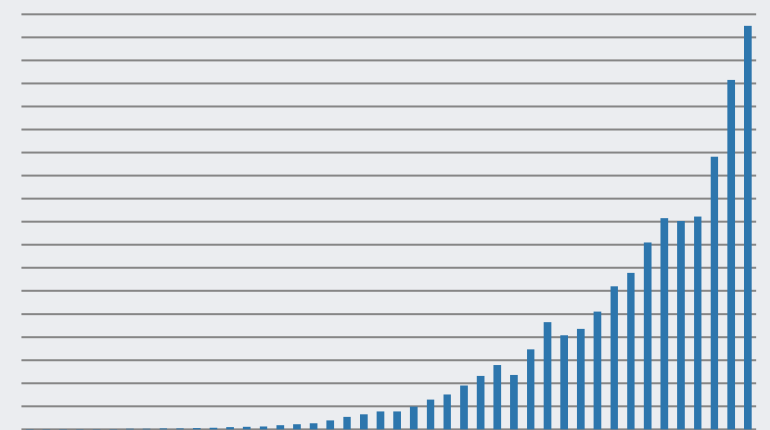


Vertretungen weltweit

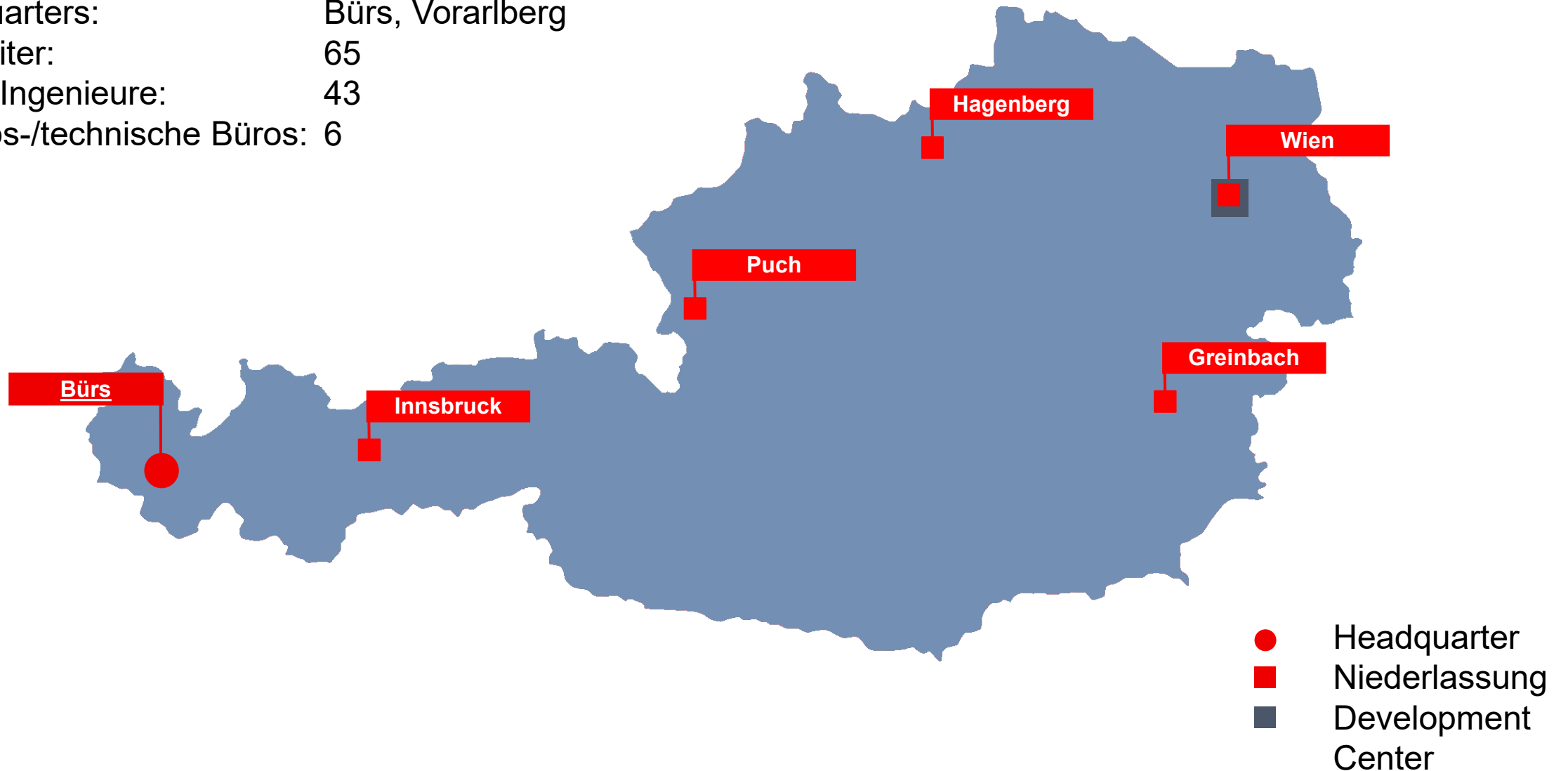
€1,75 Mrd.

+16 %

Umsatz
weltweit 2023



Headquarters: Bürs, Vorarlberg
Mitarbeiter: 65
Anzahl Ingenieure: 43
Vertriebs-/technische Büros: 6



Komponenten für die industrielle Automatisierung

BECKHOFF

The IPC Company



The I/O Company



The Motion Company



The Automation Company



The System Company



The Vision Company





MTP in verschiedenen Industrien

BECKHOFF

Pharma



Schiffbau



Chemie und Petrochemie



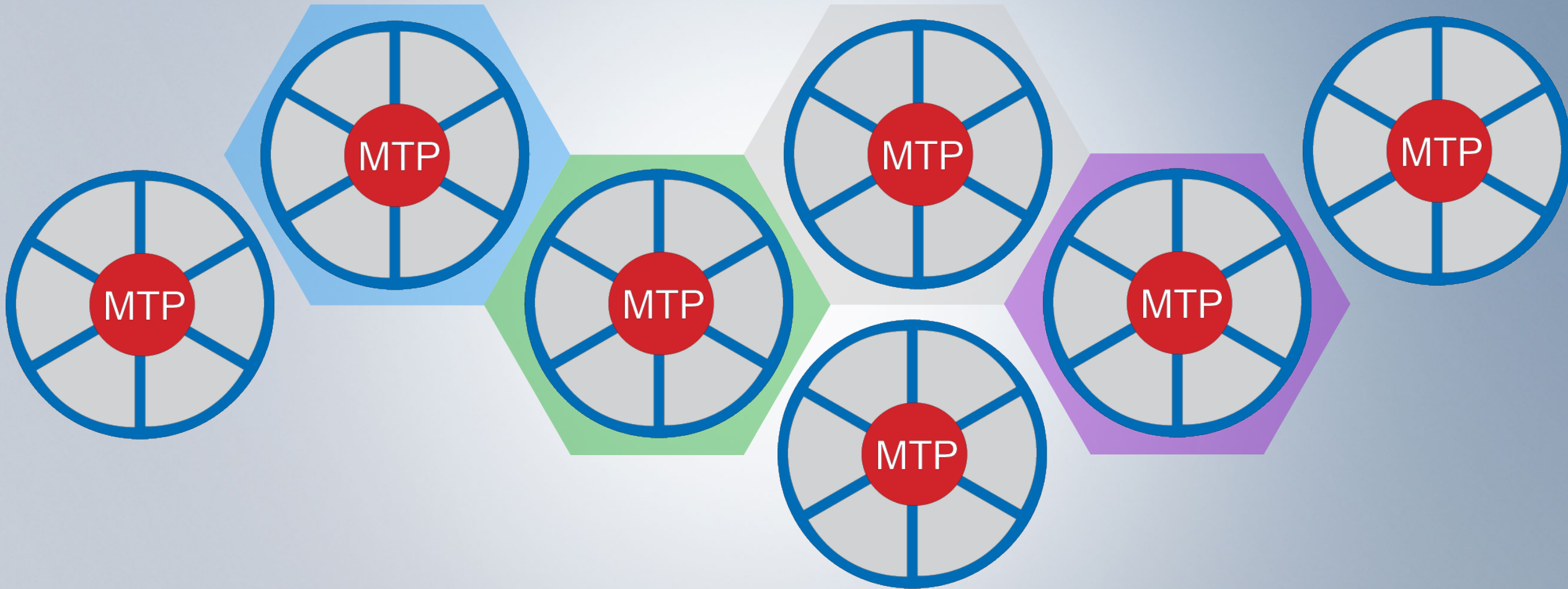
Wasserstoff



© planpicture - Westend 61 (Muel) Shua

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Plant Level

- Greenfield
- Brownfield

MTP = **M**odule **T**ype **P**ackage

PEA Level

- Greenfield
 - Fixed FEAs
 - Flexible FEAs
- Brownfield
 - MTP Gateway
 - MTP Hub

POL = **P**rocess **O**rchestration **L**ayer

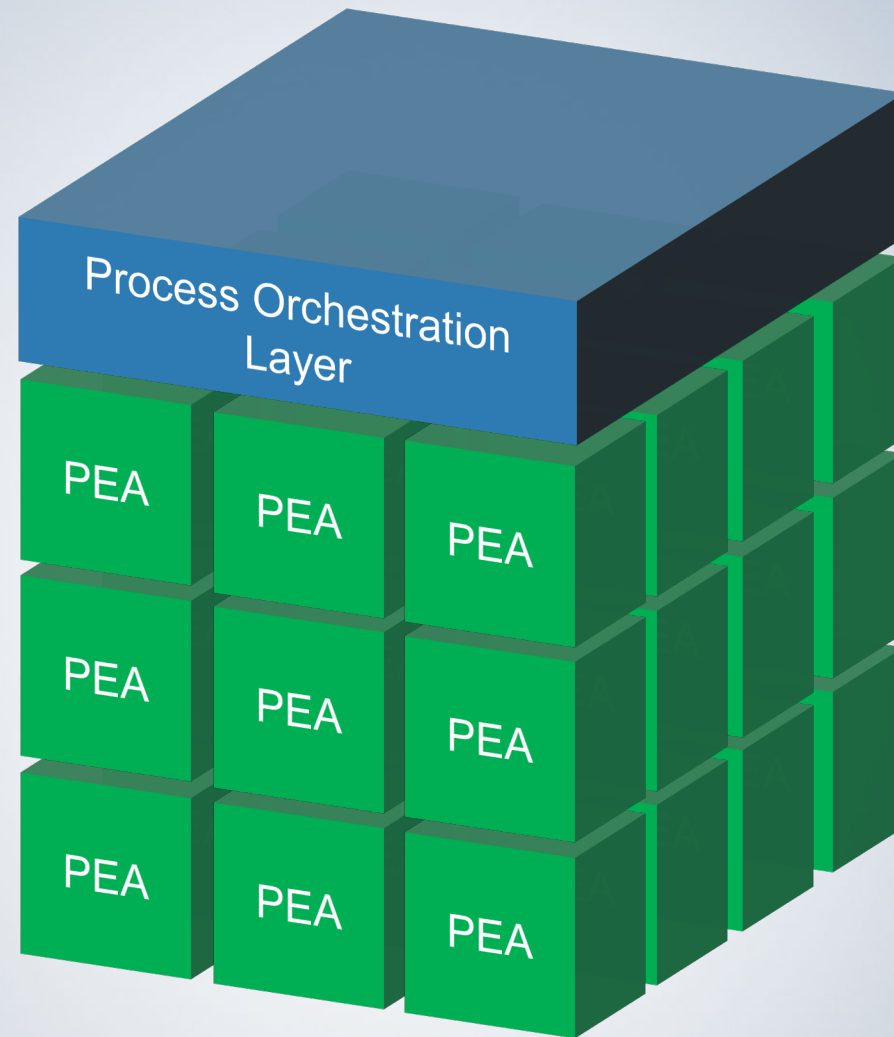
PEA = **P**rocess **E**quipment **A**ssembly = MTP Module

FEA = **F**unctional **E**quipment **A**ssembly = e.g. Pump + Valve

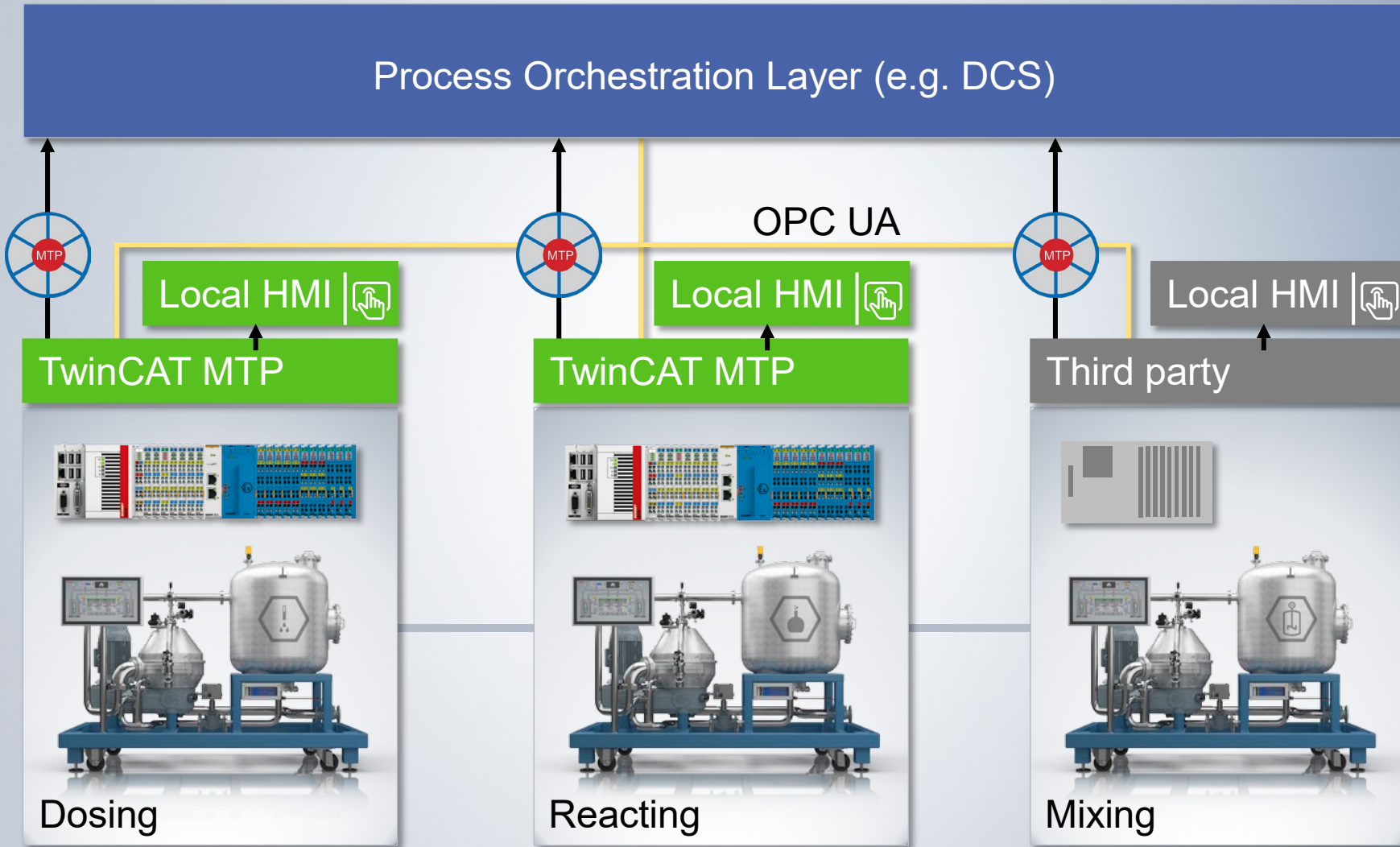
PEA – Process Equipment Assembly



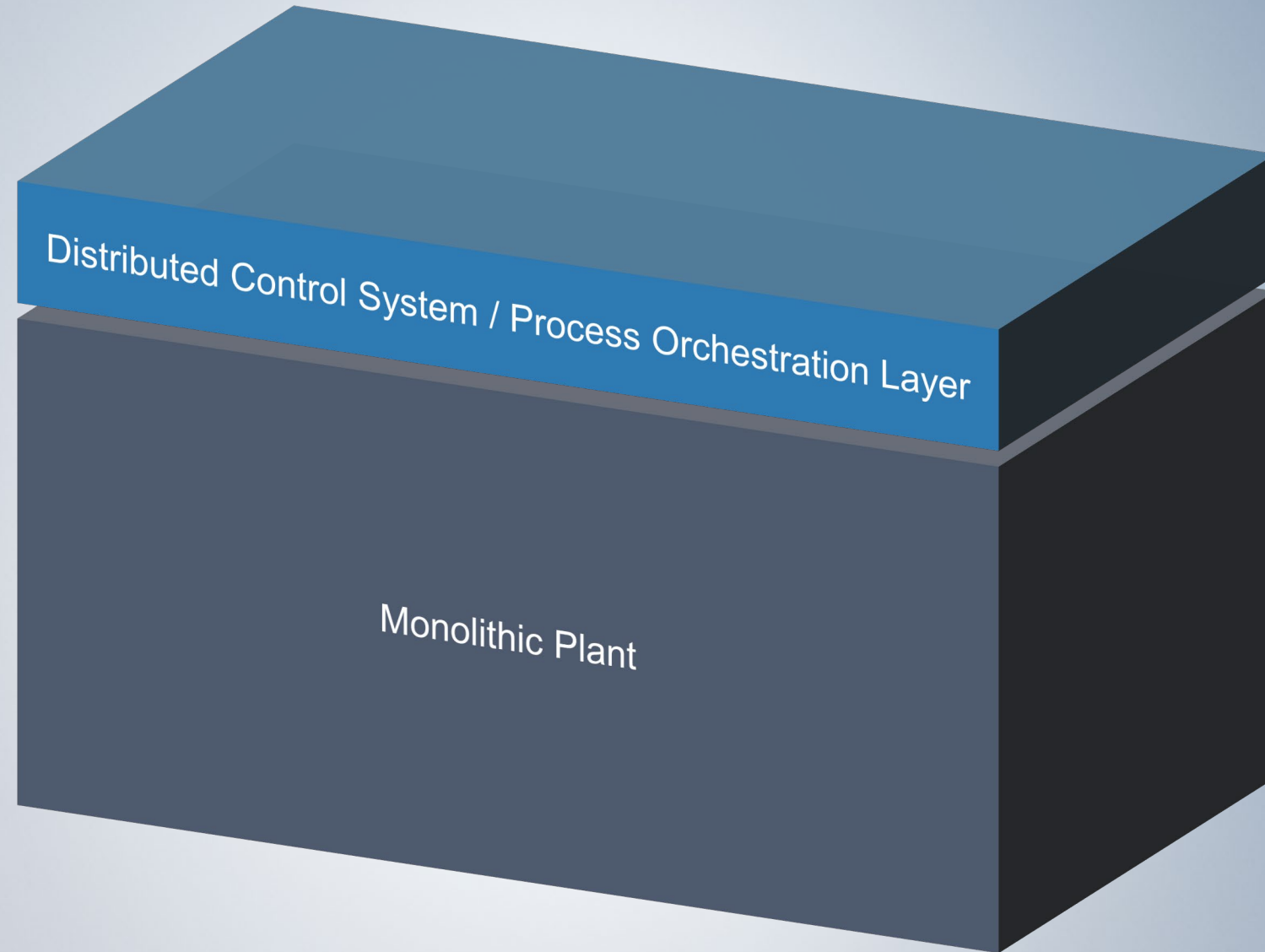
Plant Level – Greenfield



Plant Level – Greenfield



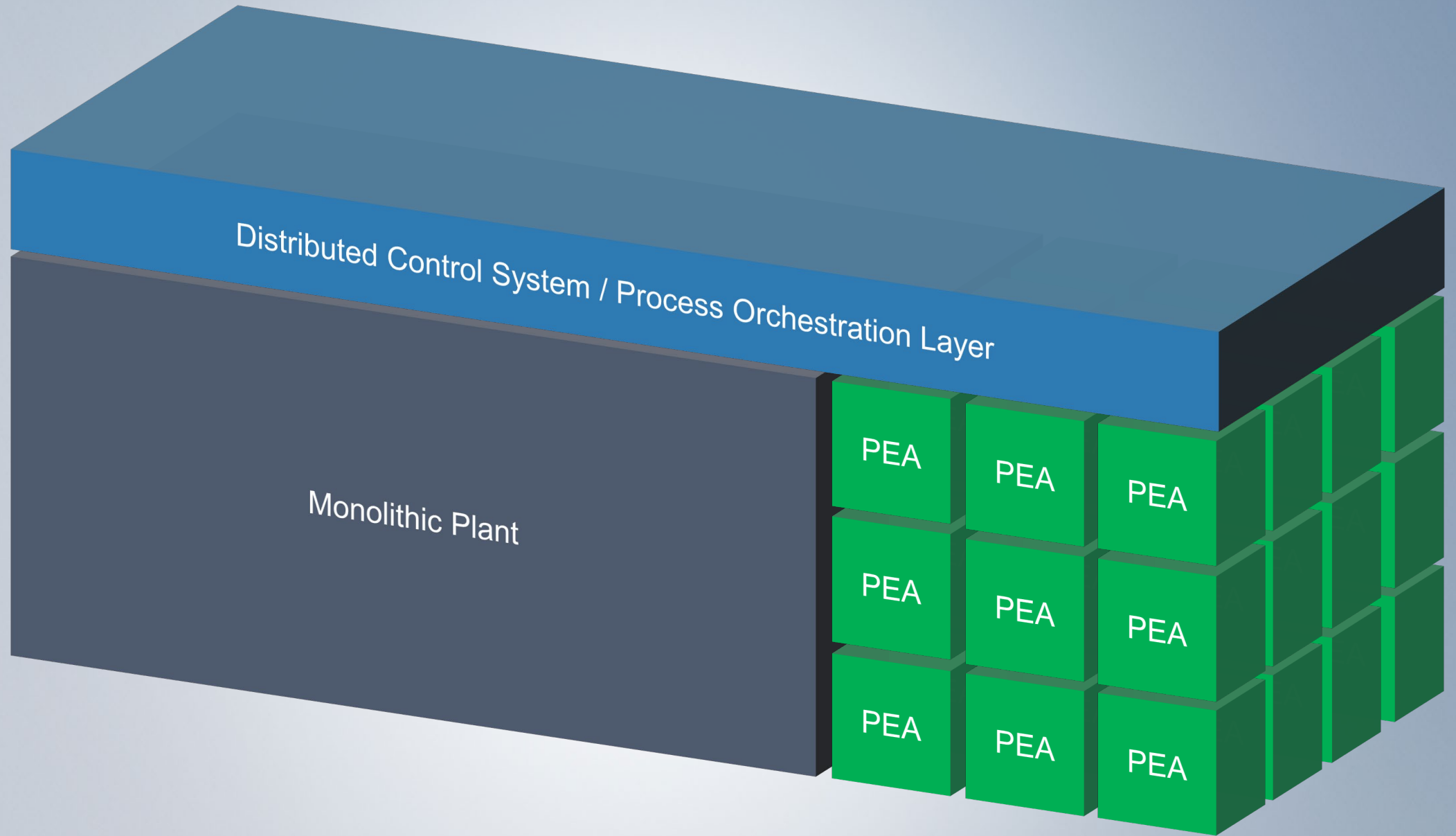
Plant Level – Brownfield



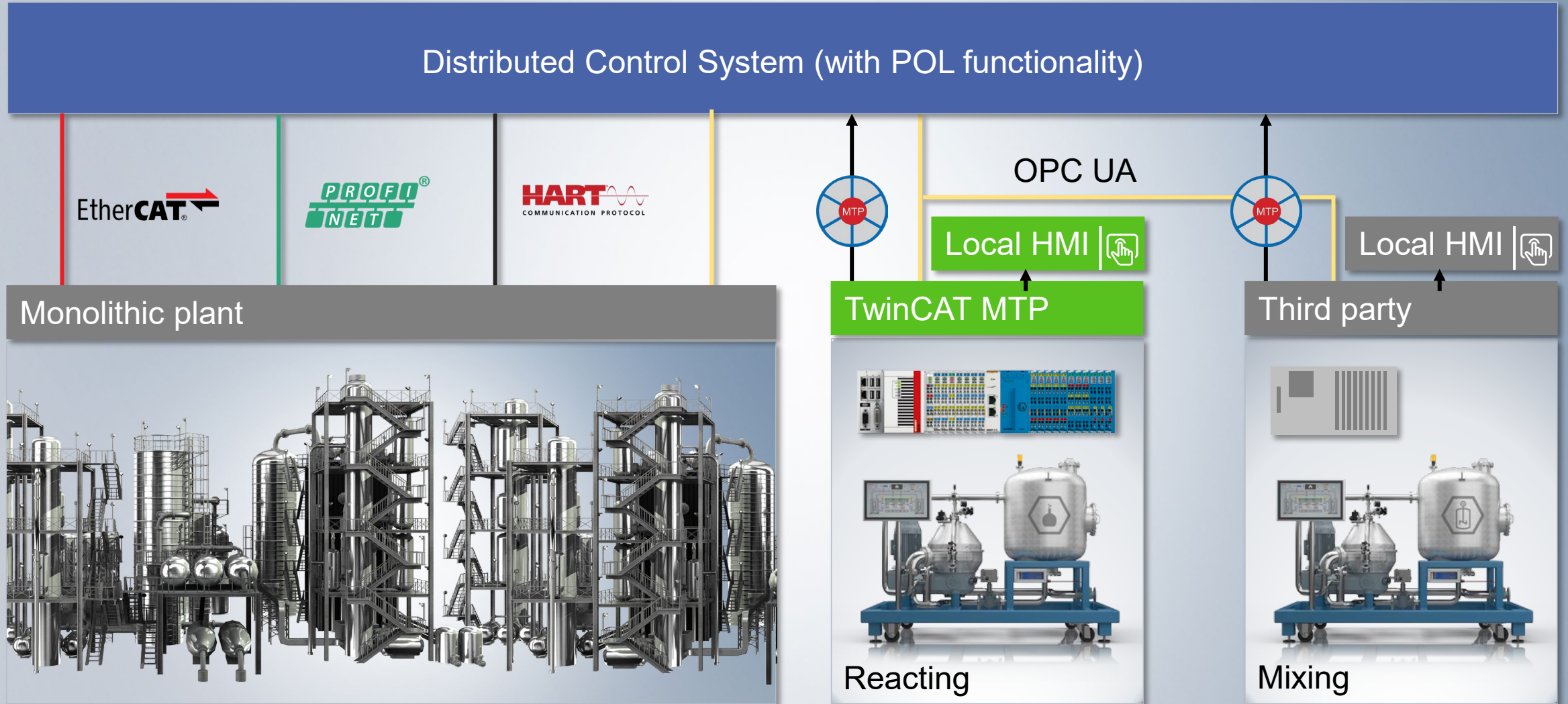
Wie kann ich
meine Anlage
erweitern?



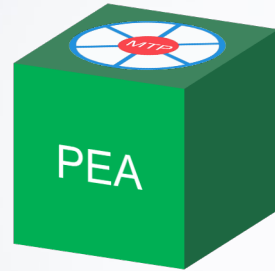
Plant Level – Brownfield



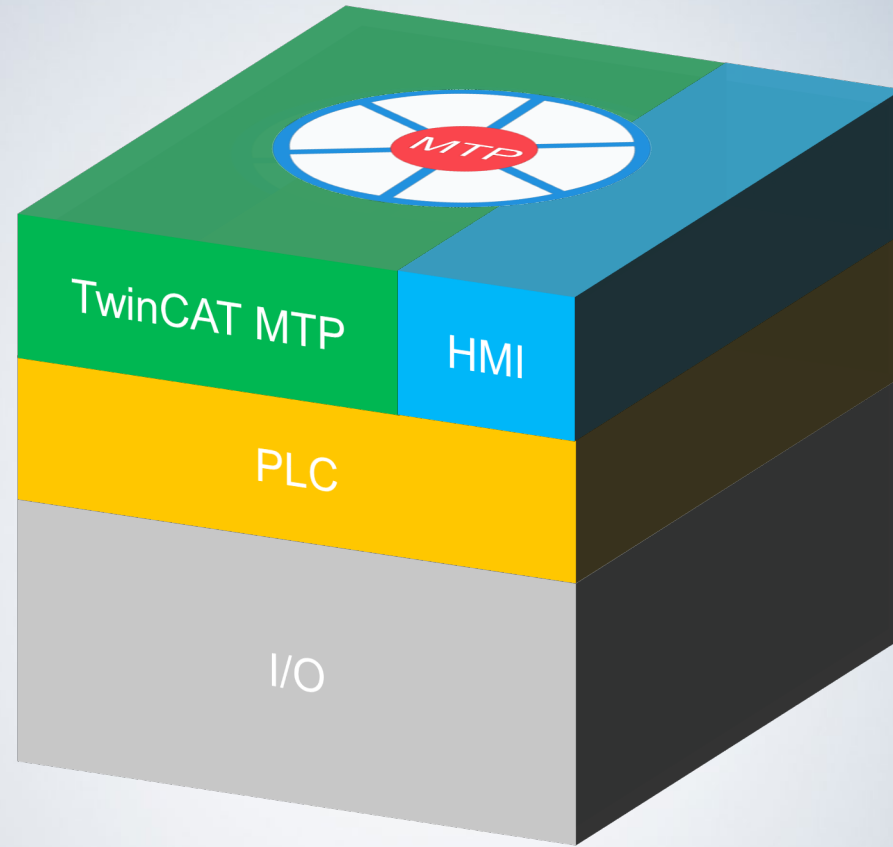
Plant Level – Brownfield



PEA Level – Greenfield



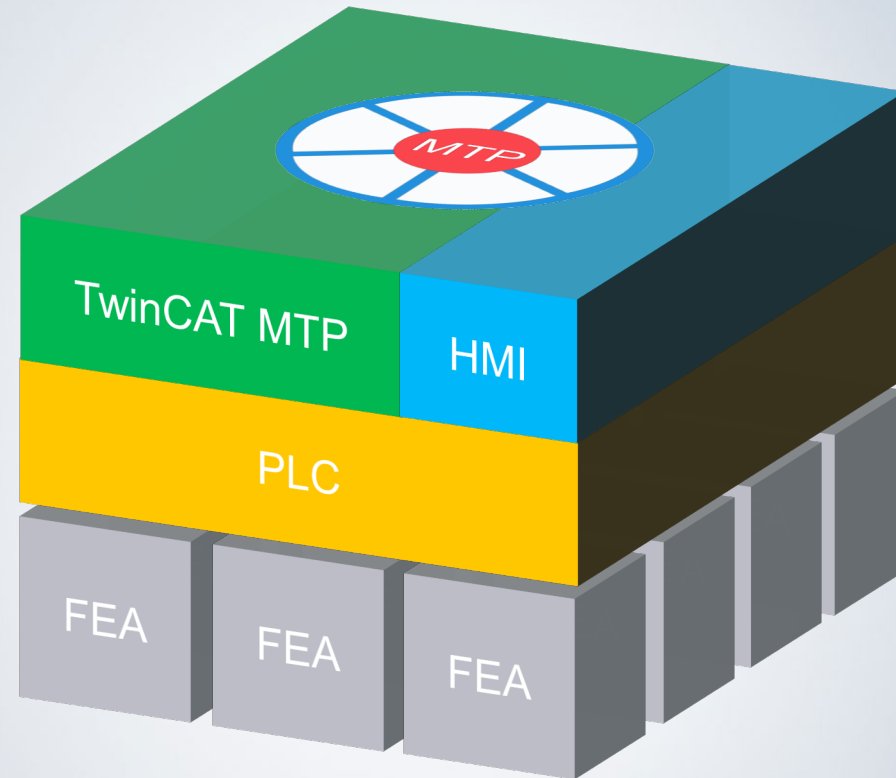
PEA Level – Greenfield – Fixed FEA



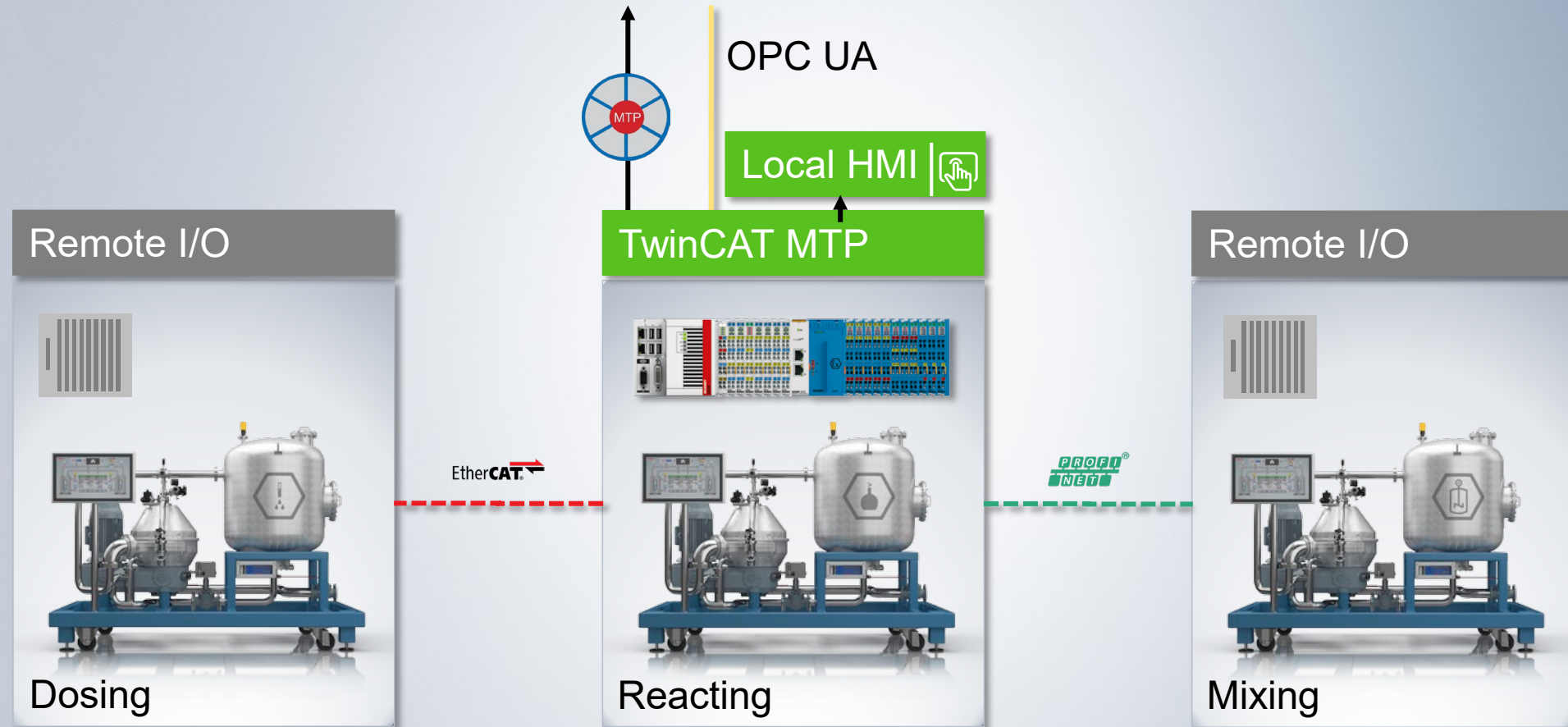
Wie kann ich die Funktionseinheiten (FEA) meiner PEA einfach austauschen?



PEA Level – Greenfield – Flexible FEA

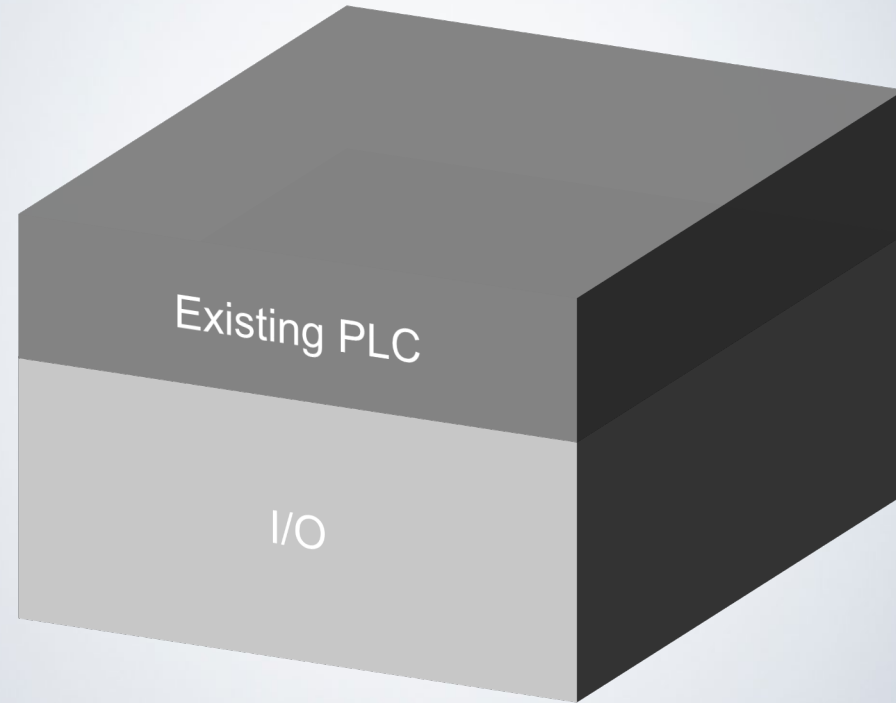


PEA Level – Greenfield – Flexible FEA

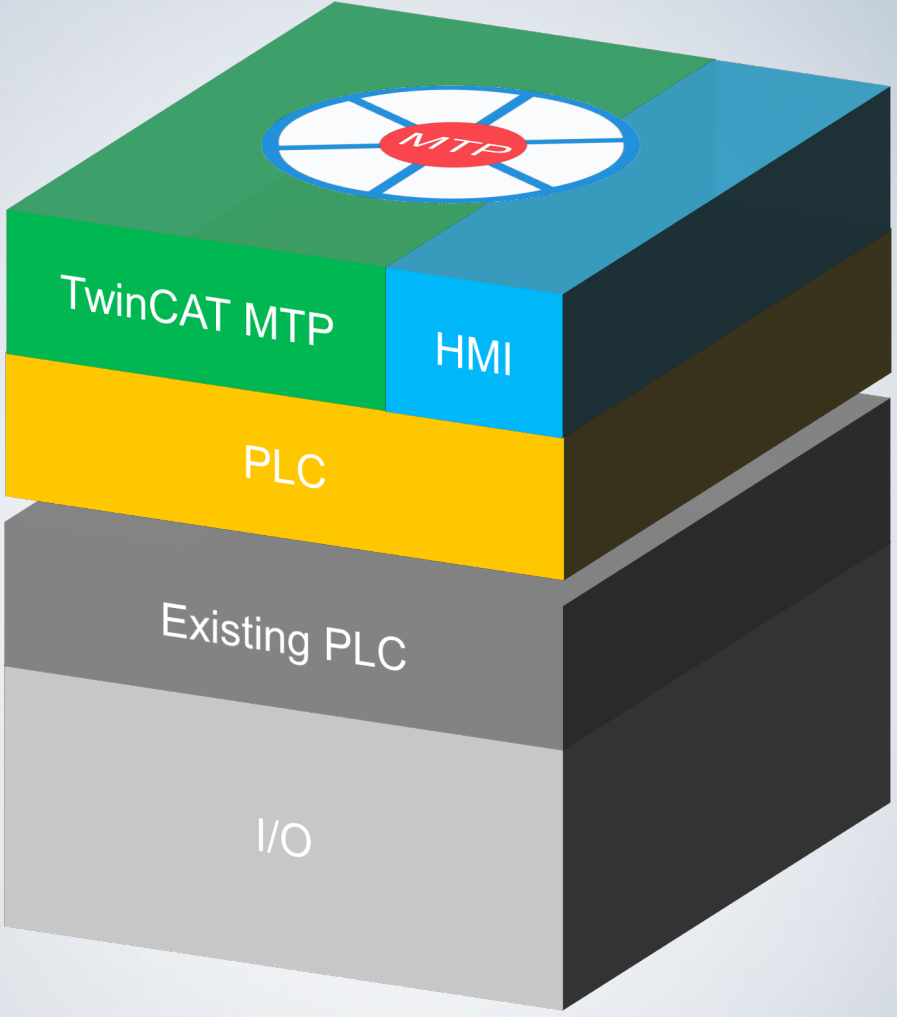


PEA Level – Brownfield

Wie kann ich eine bestehende Prozesseinheit MTP-konform machen?



PEA Level – Brownfield – MTP Gateway



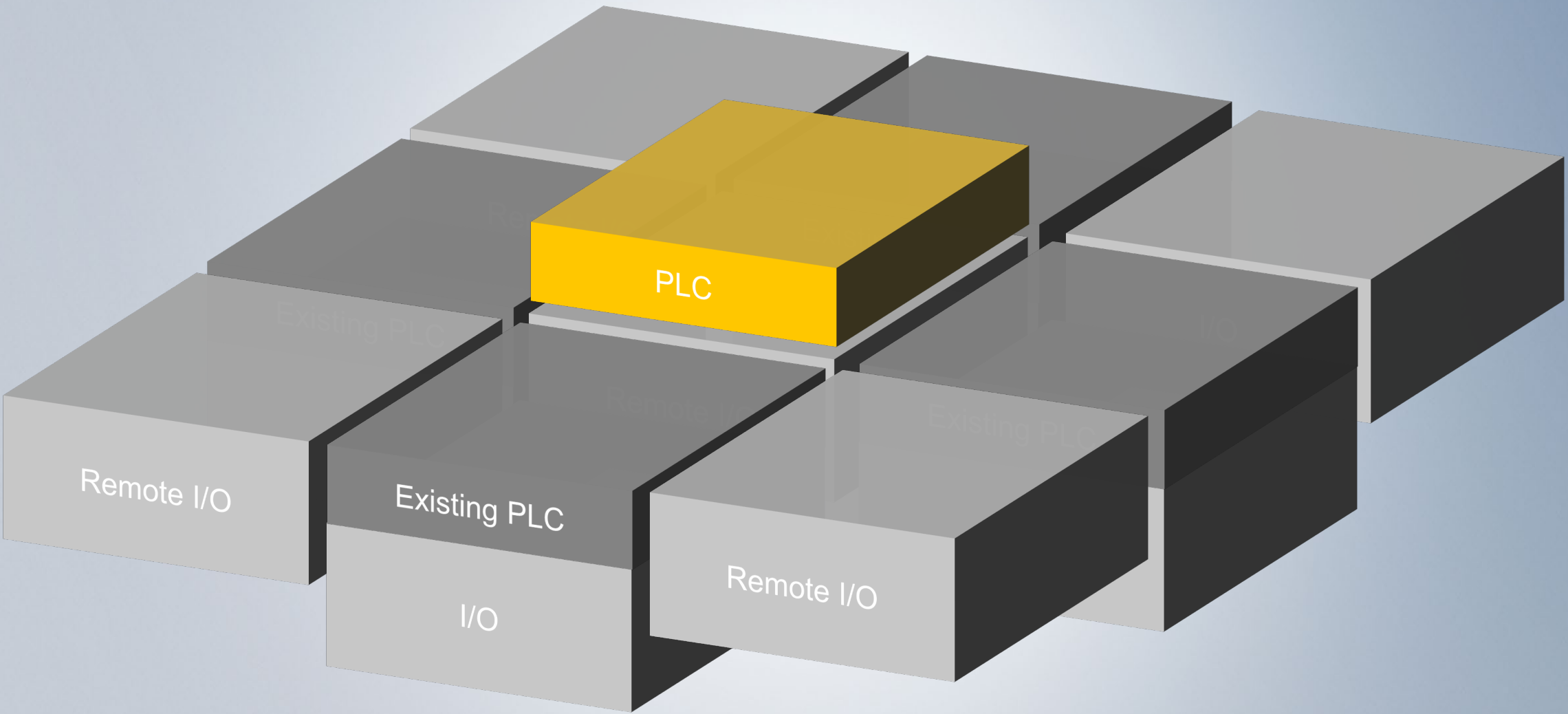
PEA Level – Brownfield – MTP Gateway



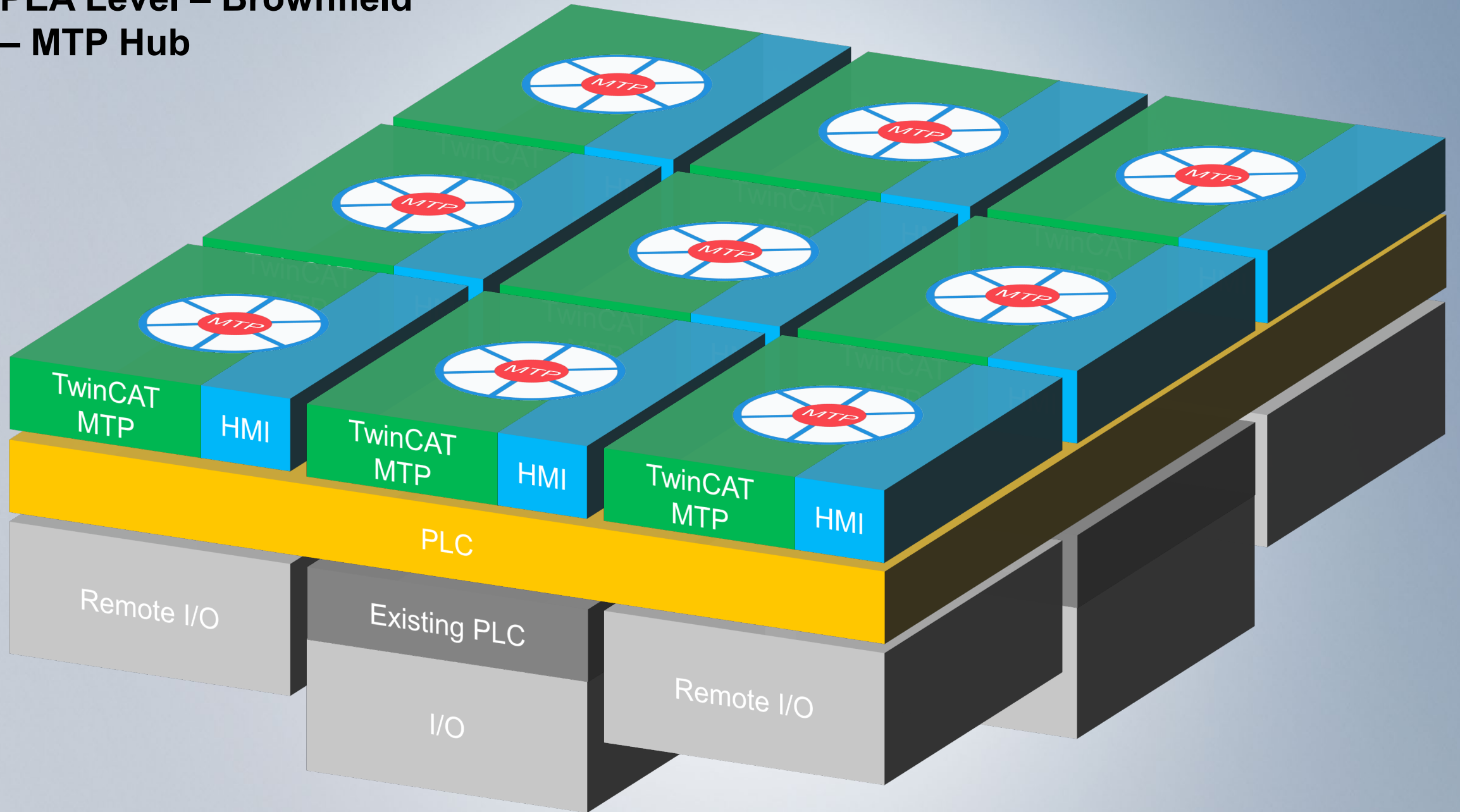
Kann ich meine MTP-
Module unabhängig
voneinander auf
einem einzigen
Controller realisieren?



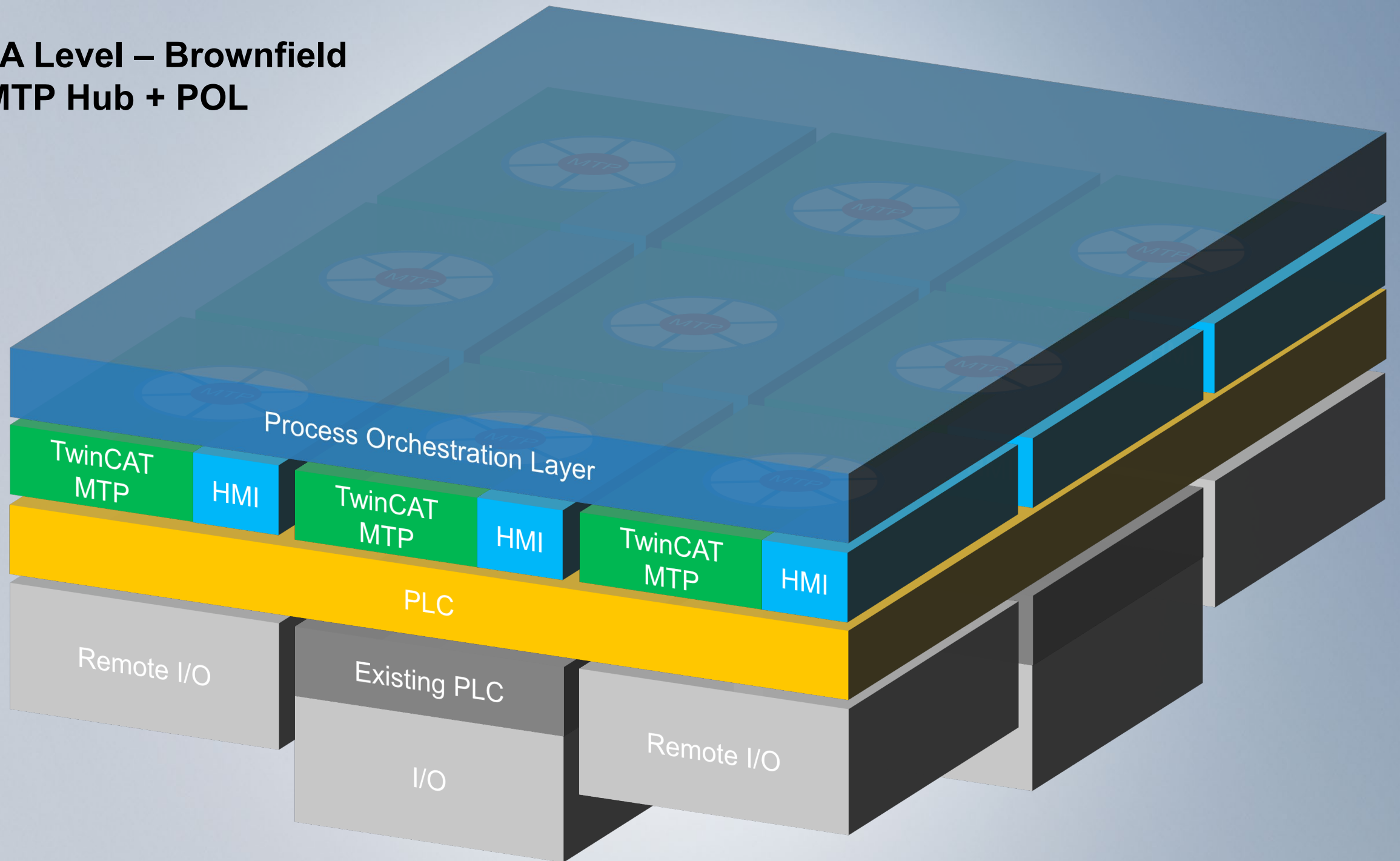
PEA Level – Brownfield (Multiple)



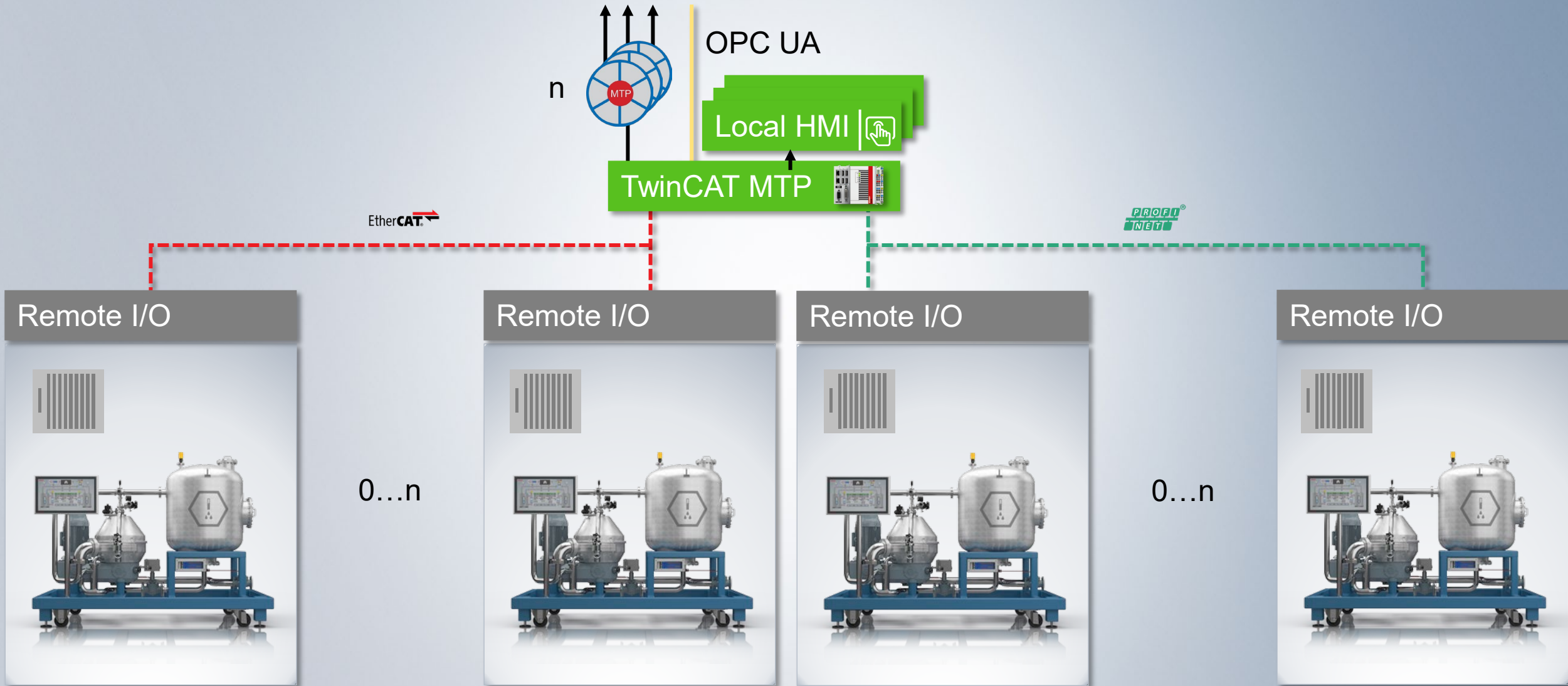
PEA Level – Brownfield – MTP Hub



PEA Level – Brownfield – MTP Hub + POL



PEA Level – Brownfield – MTP Hub





Vielen Dank für die Aufmerksamkeit

BECKHOFF

