

OPC DAY
FINLAND 2022

29.11.2022

OPC UA Cloud

empowering central data modeling

Bo Biene, inray

SPONSORS:



BECKHOFF



inray



NOKIA



FINNISH SOCIETY OF AUTOMATION
SUOMEN AUTOMAATIOSEURA RY

Who is speaking?

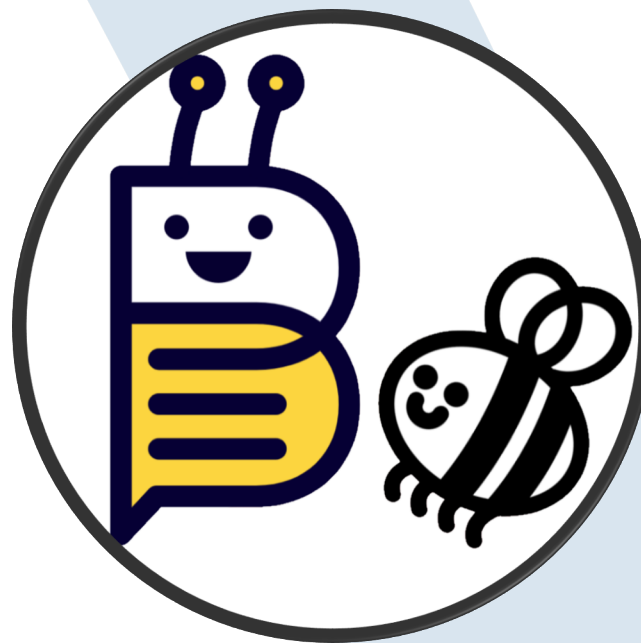
Bo Biene – CEO from inray



www.linkedin.com/in/BoBiene

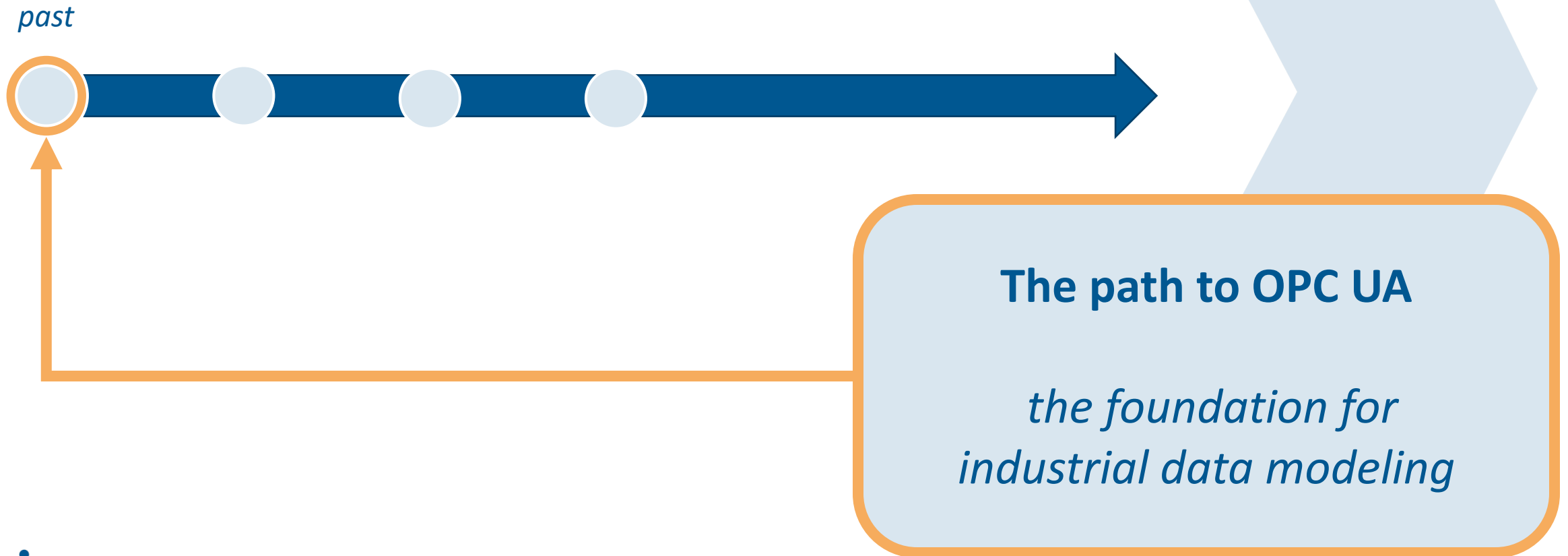


www.github.com/BoBiene



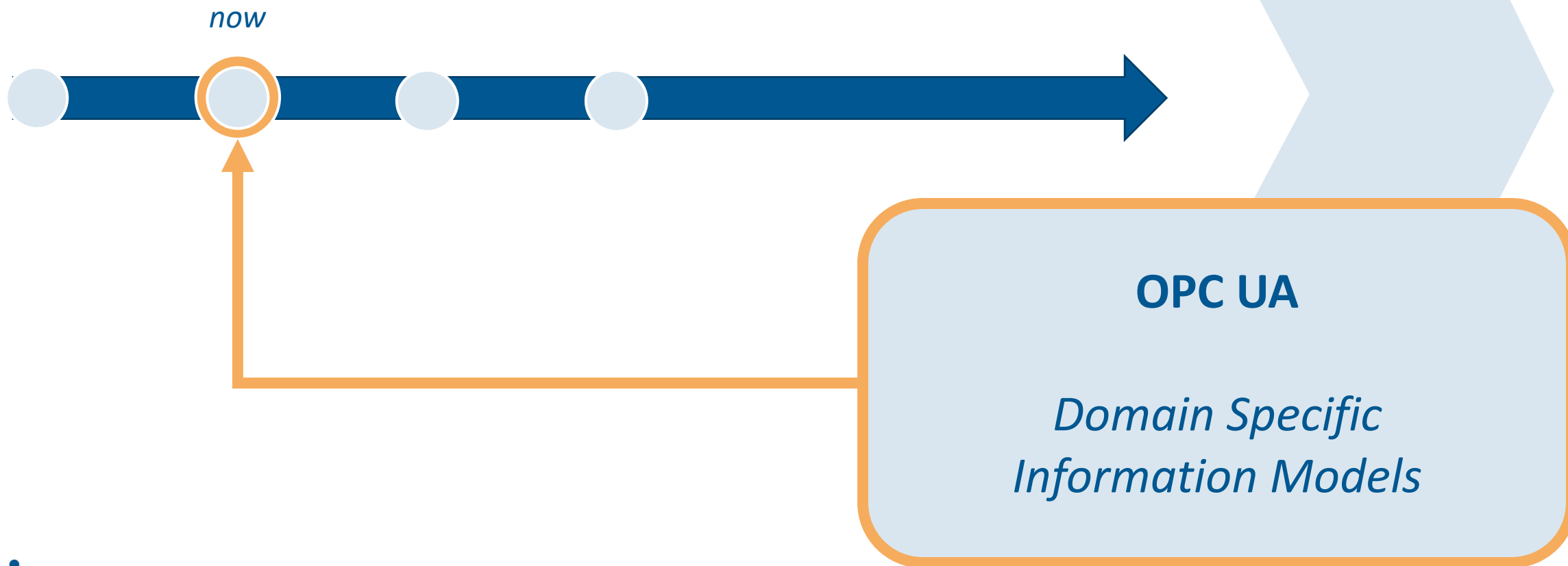
Subjective review and outlook

from the point of view of a “data connector”



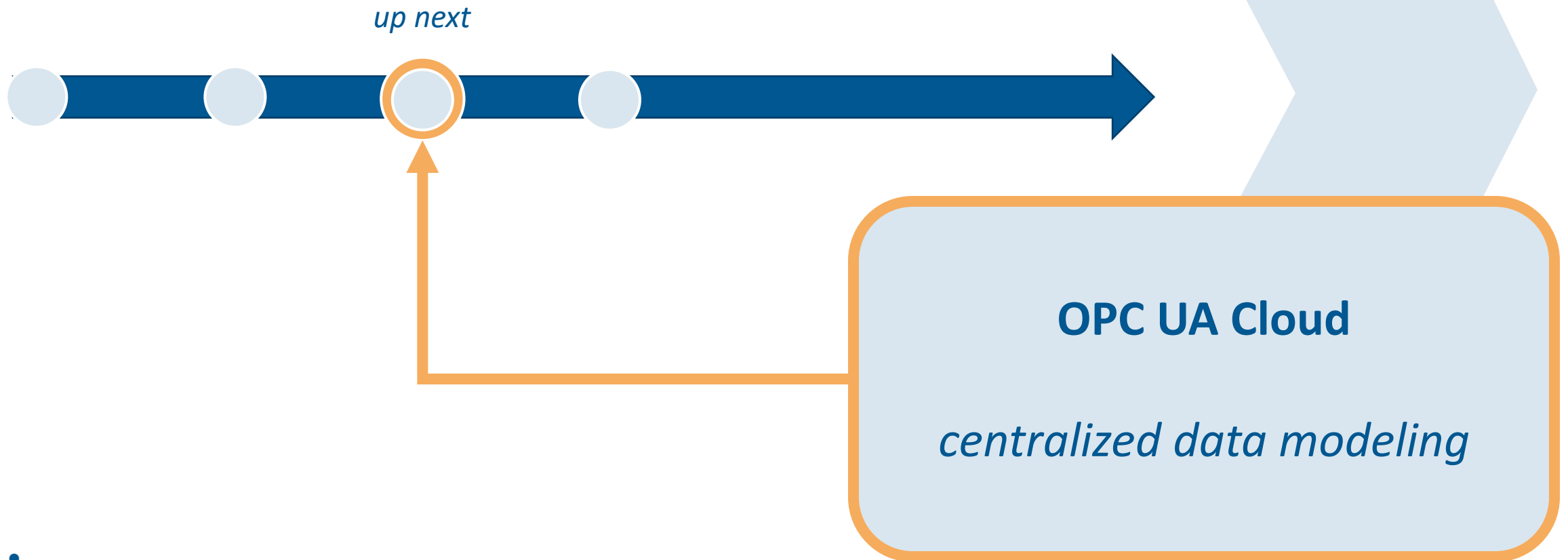
Subjective review and outlook

from the point of view of a “data connector”



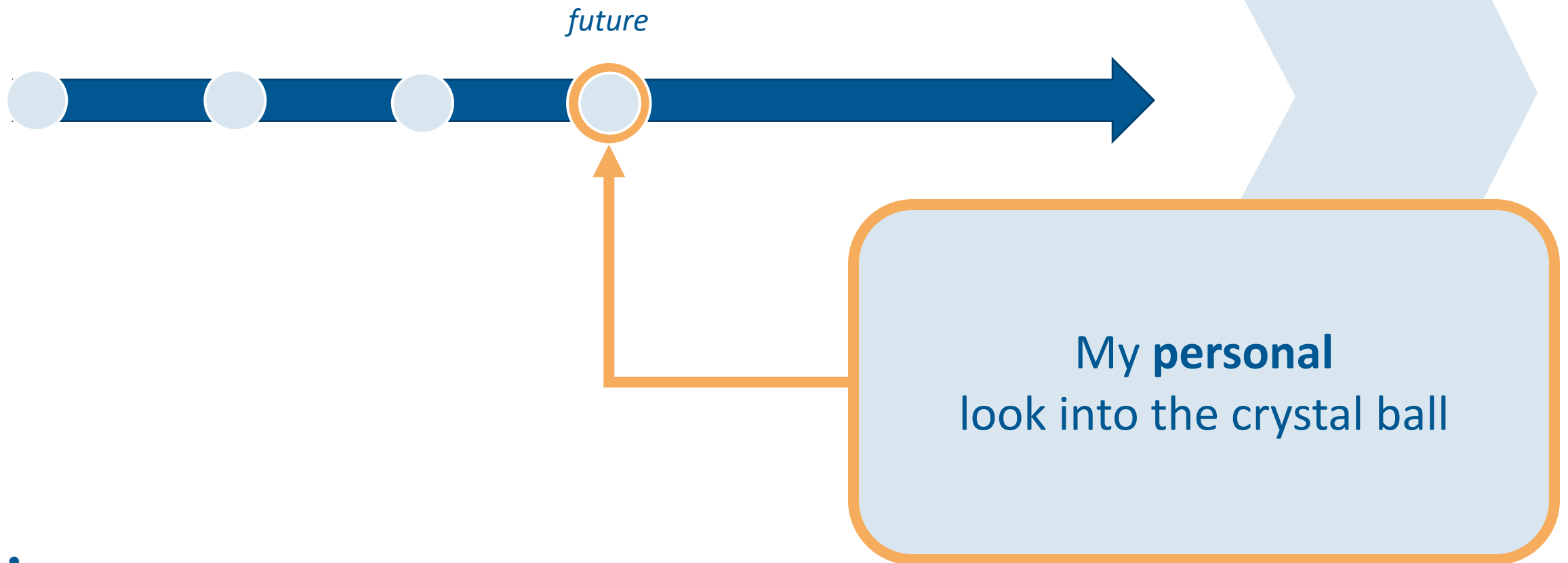
Subjective review and outlook

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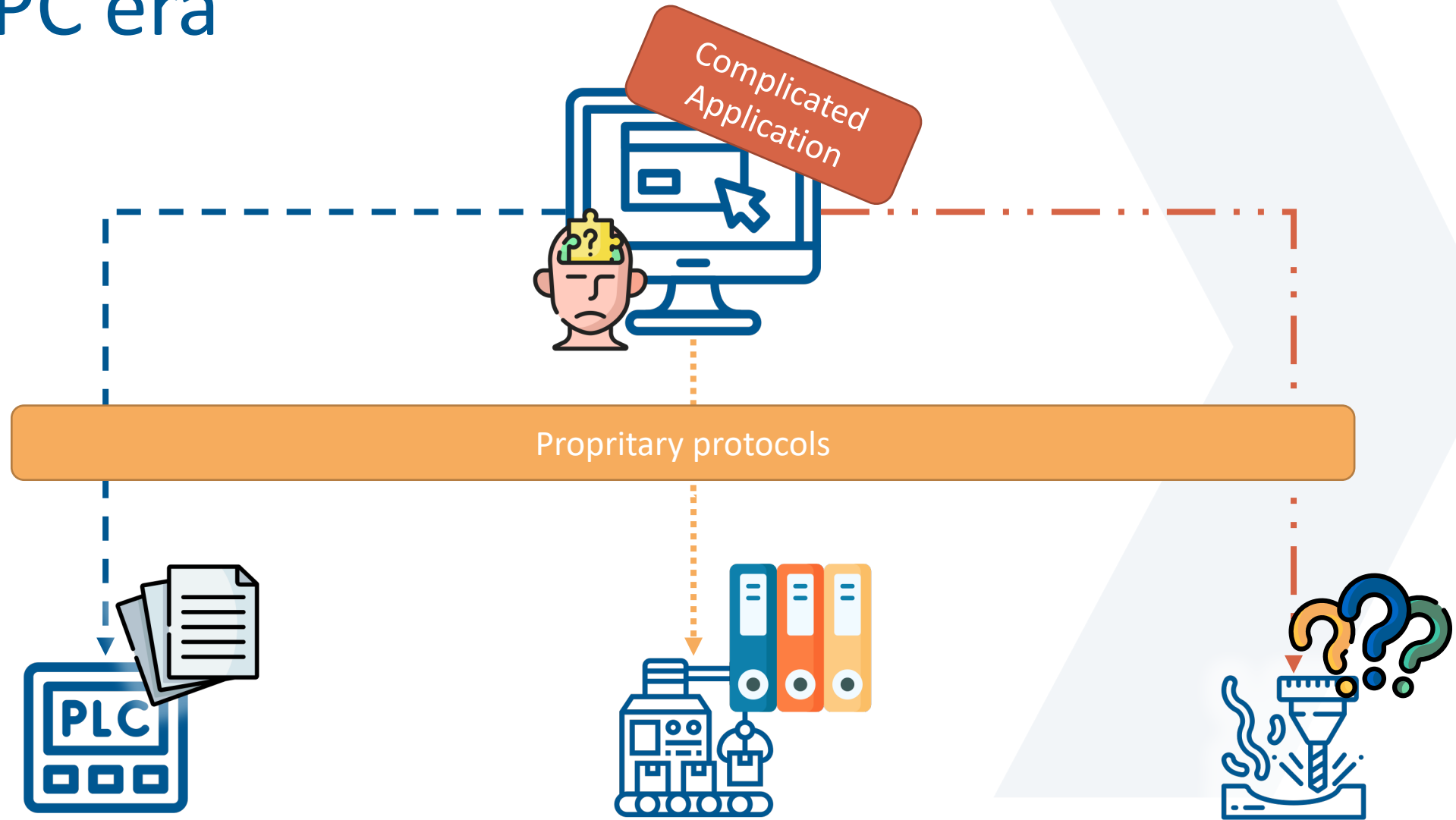


Subjective review and outlook

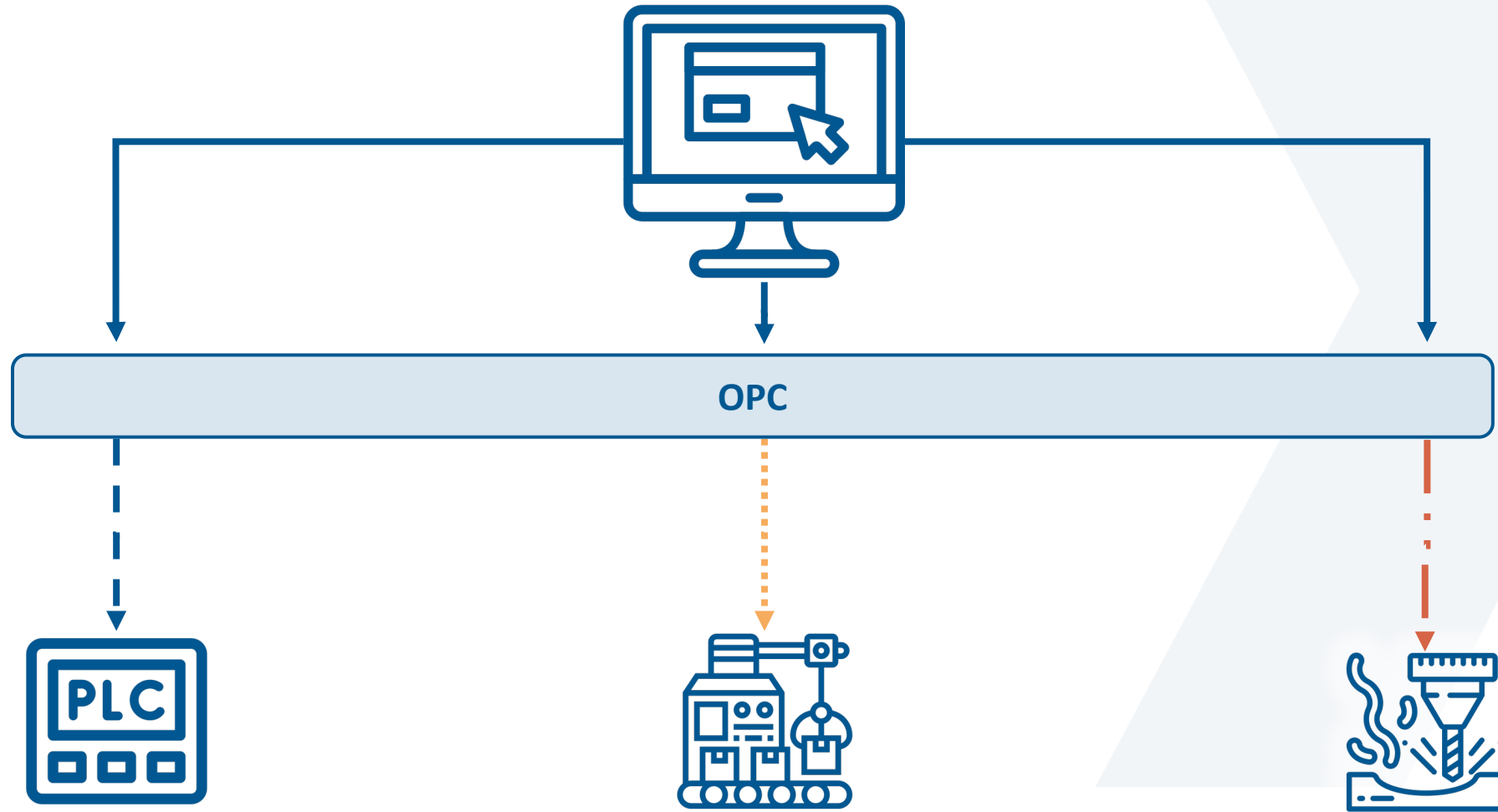
from the point of view of a “data connector”



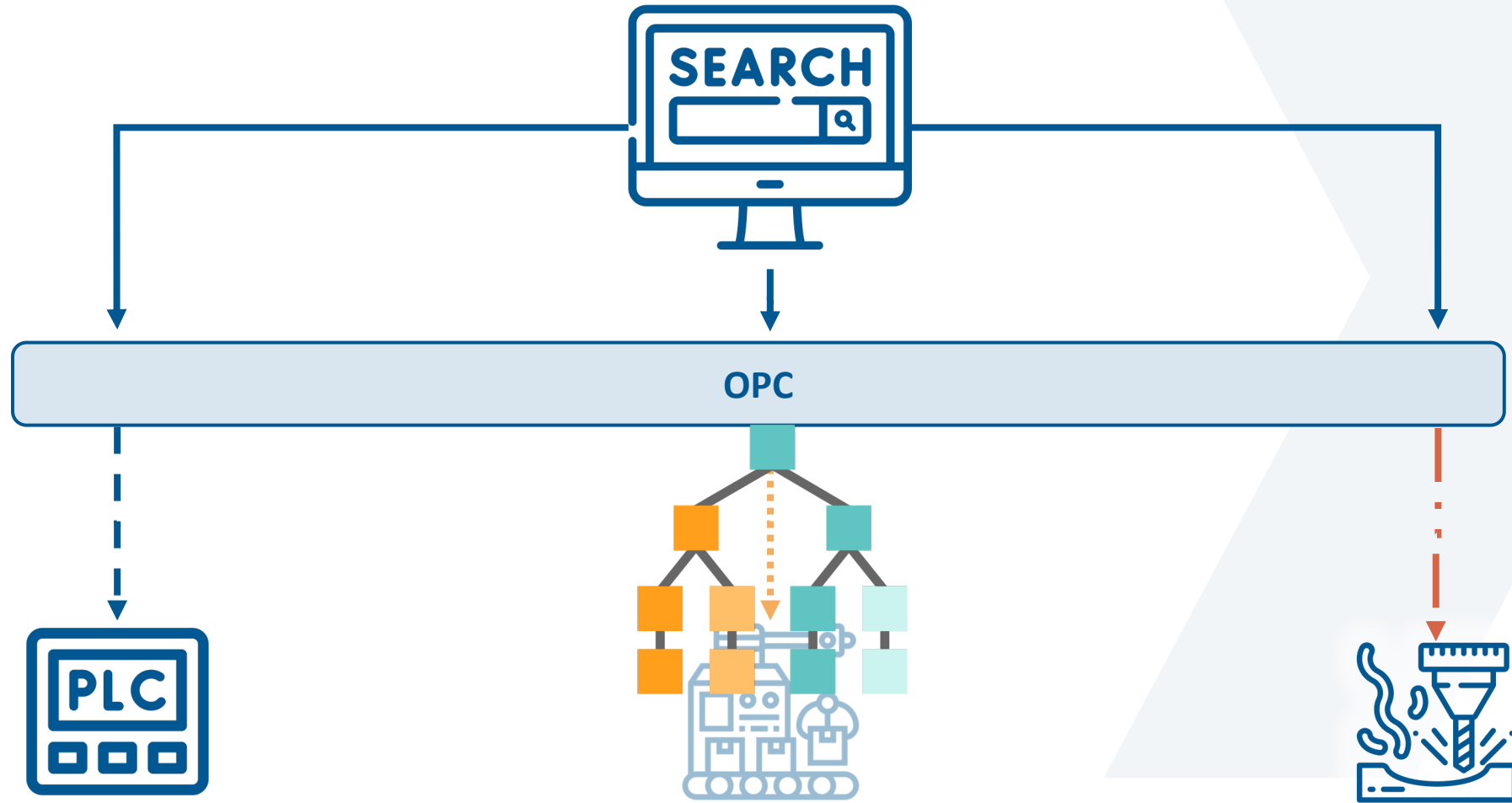
pre OPC era



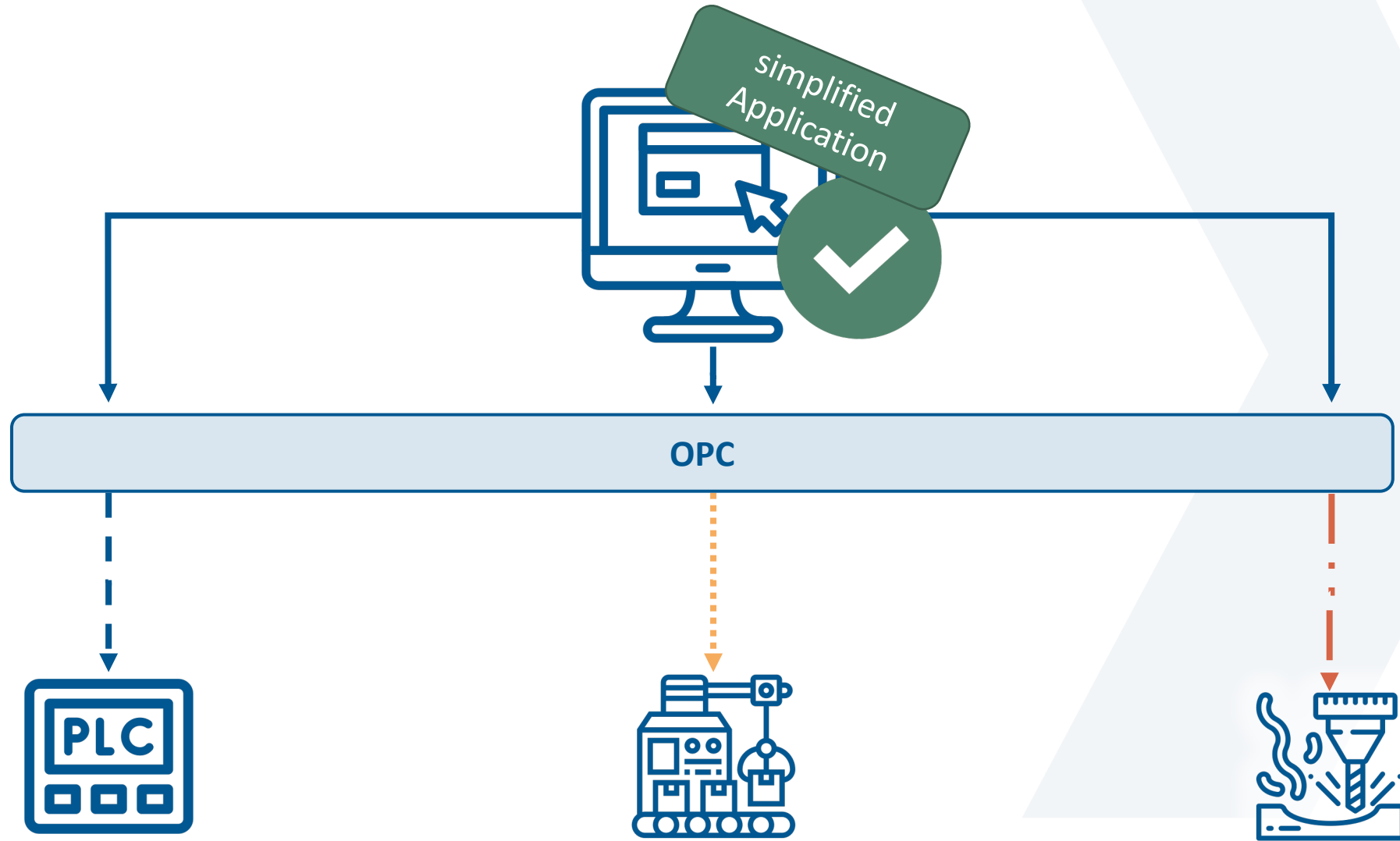
the rise of the **OPC** era



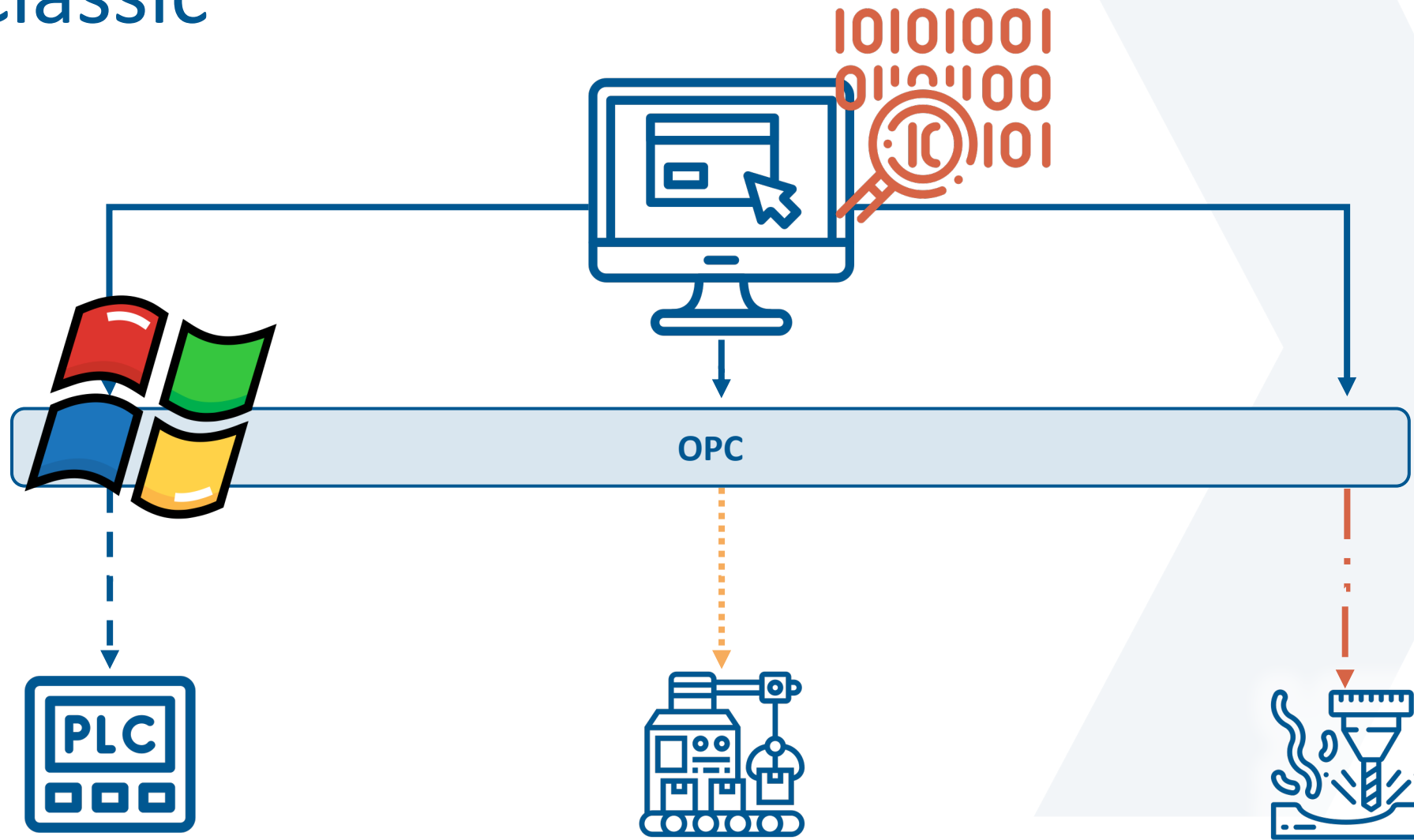
OPC



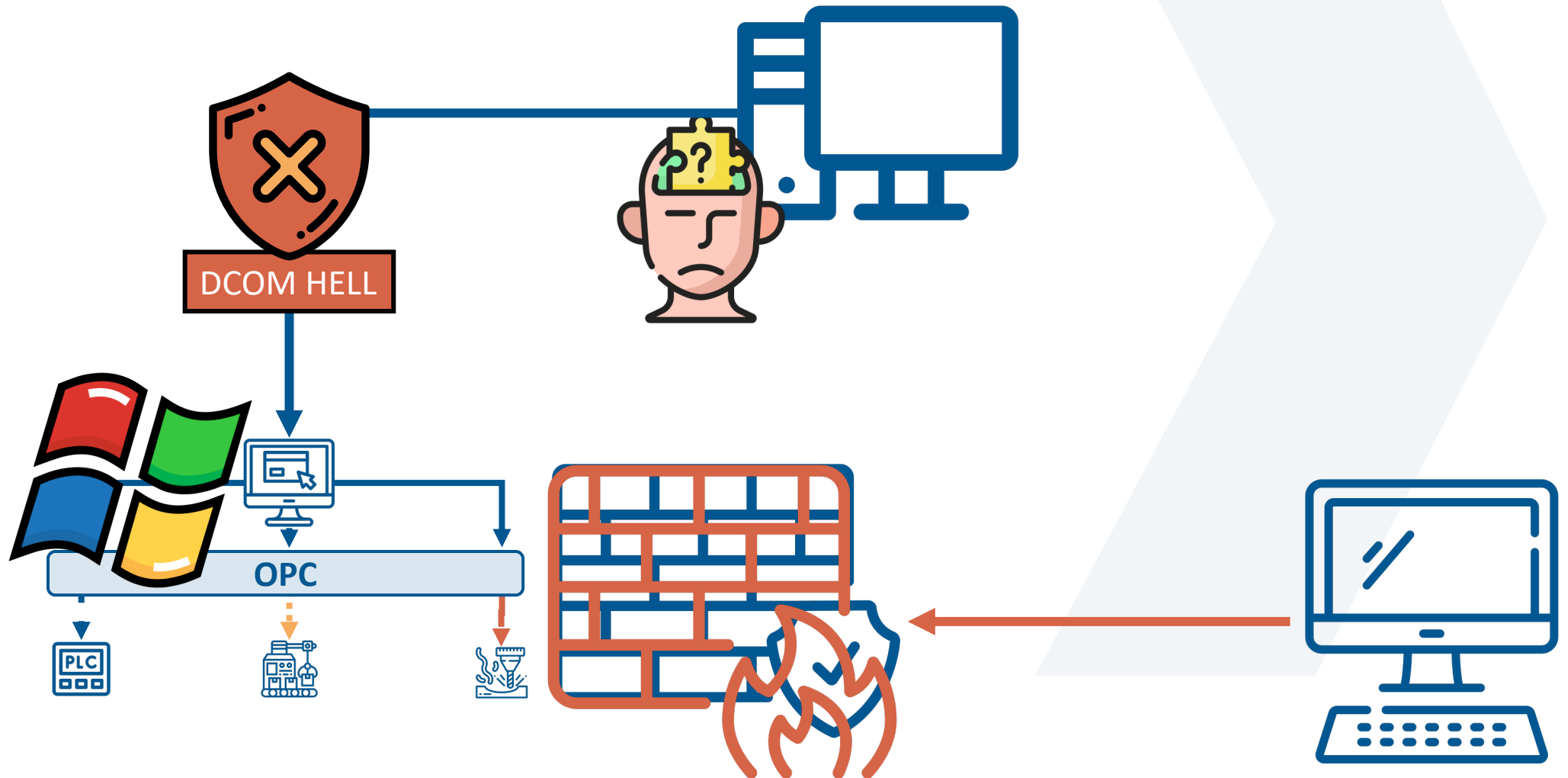
OPC



OPC Classic

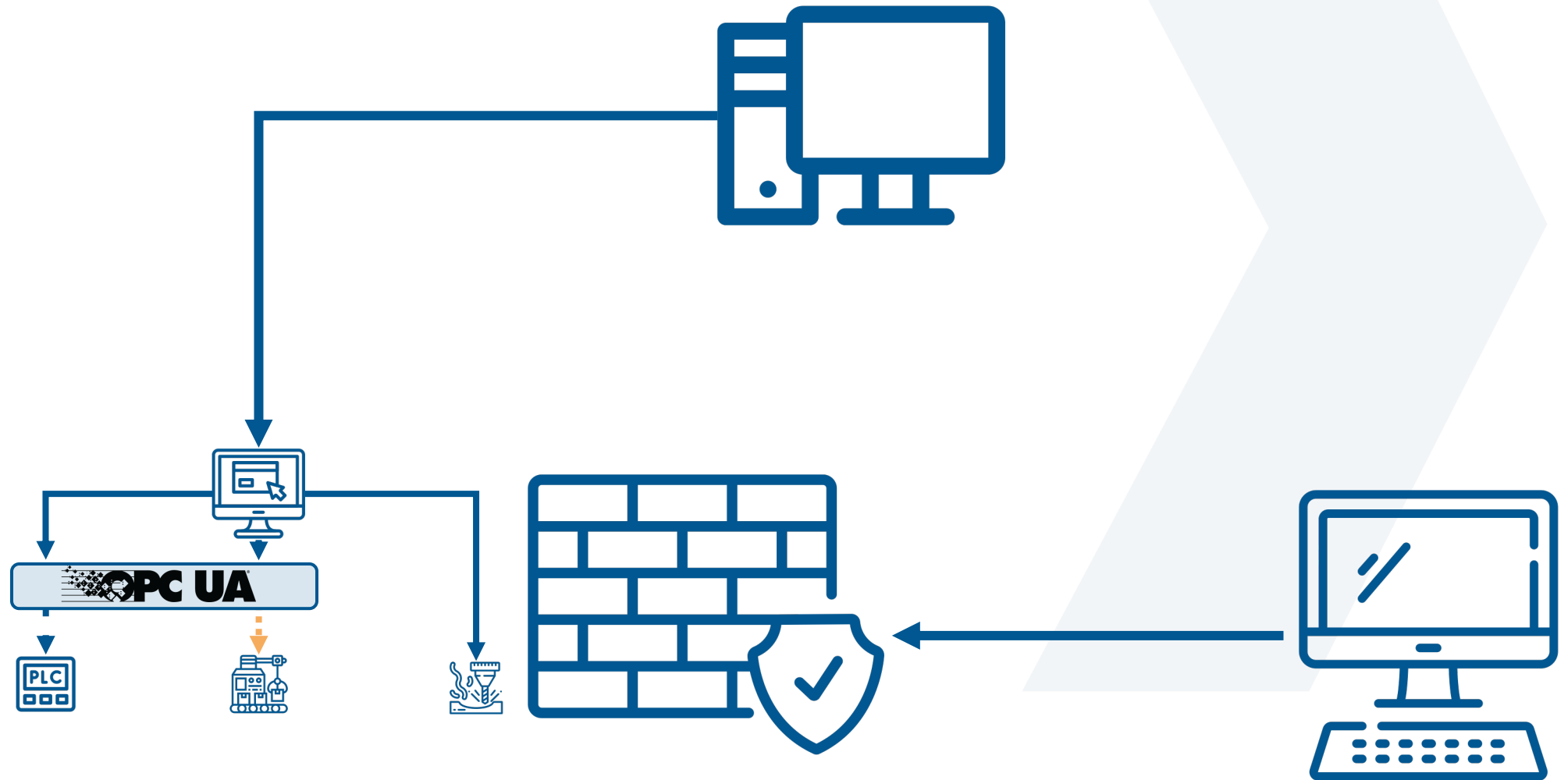


OPC Classic



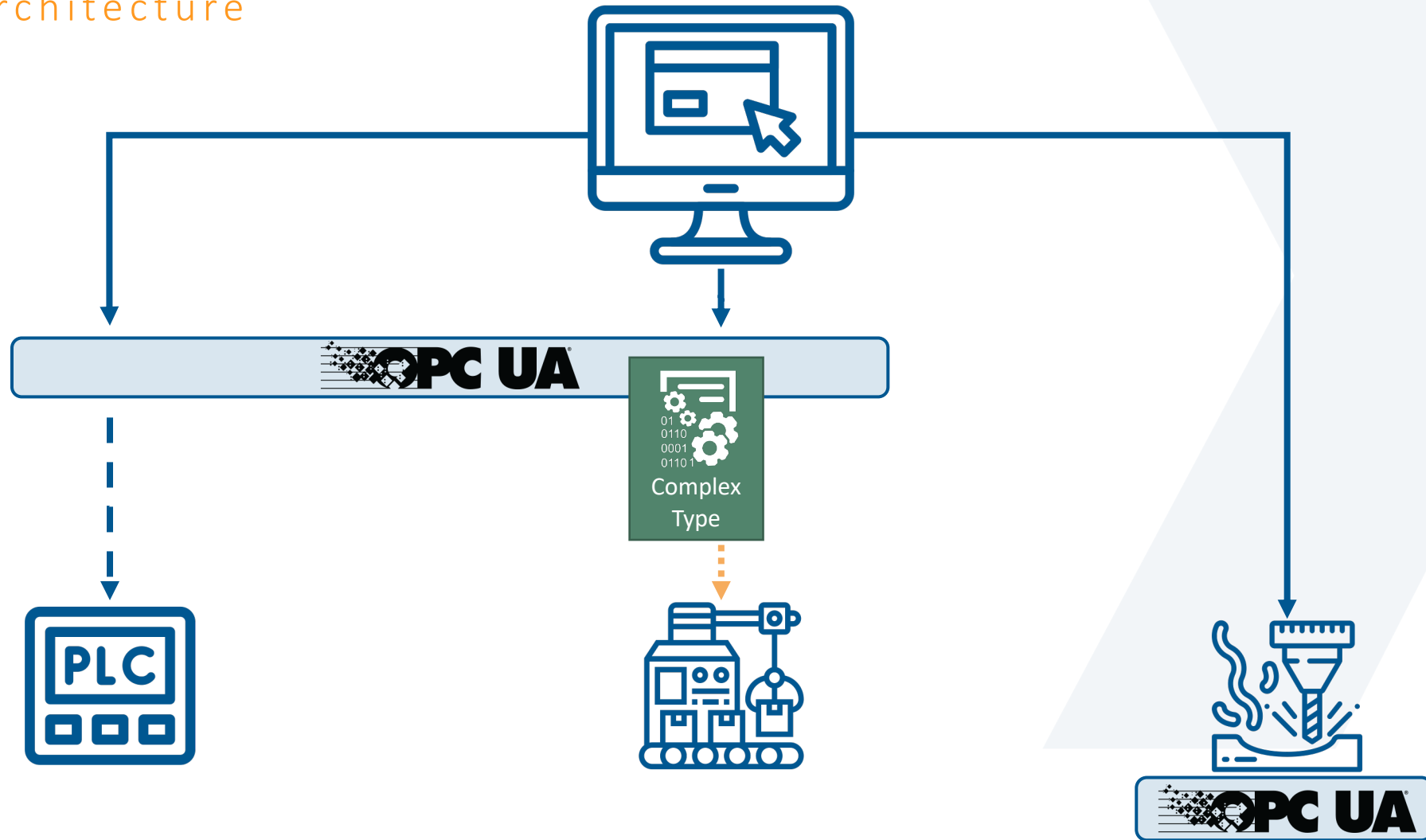
OPC UA

Unified Architecture



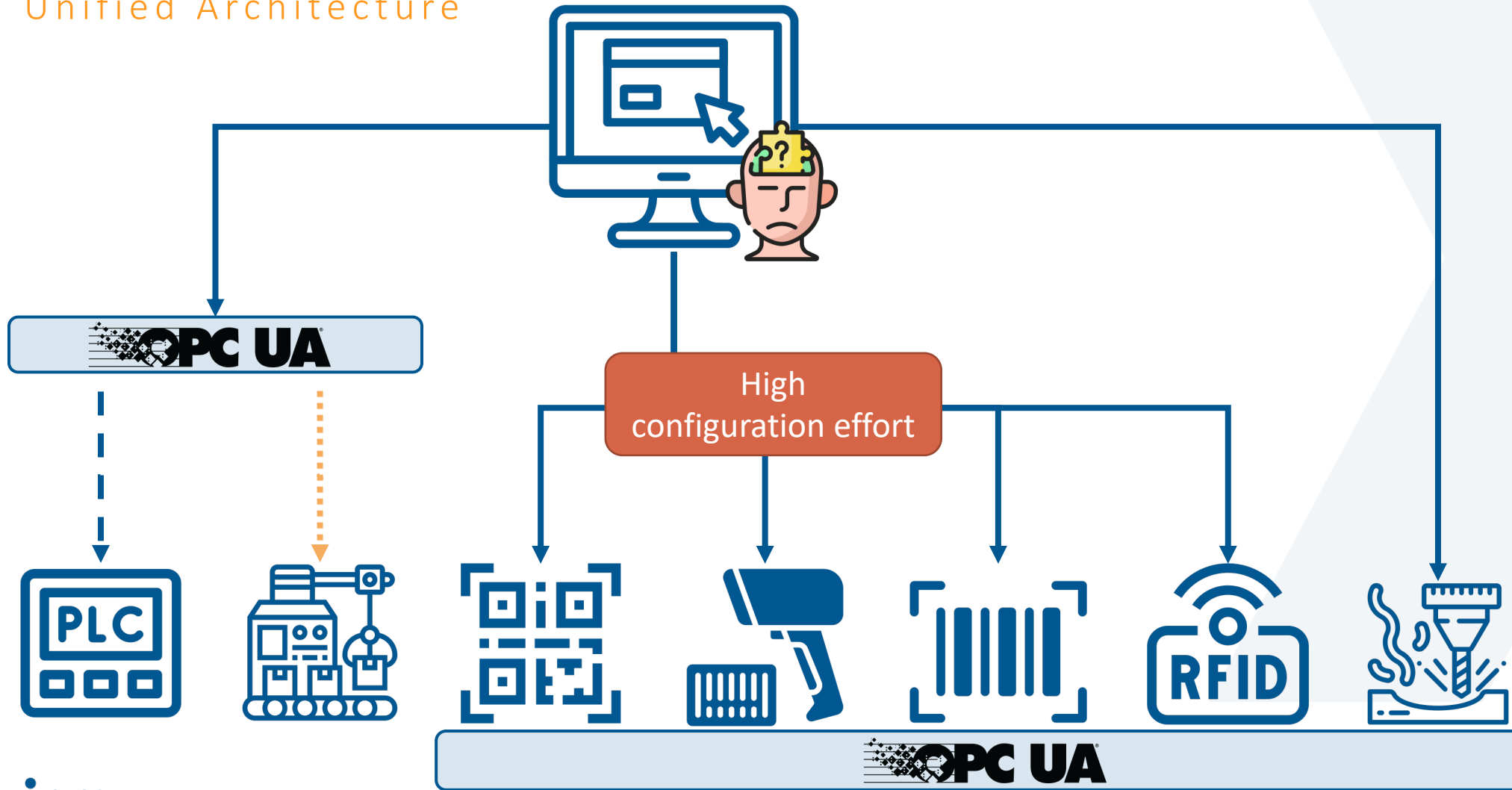
OPC UA

Unified Architecture



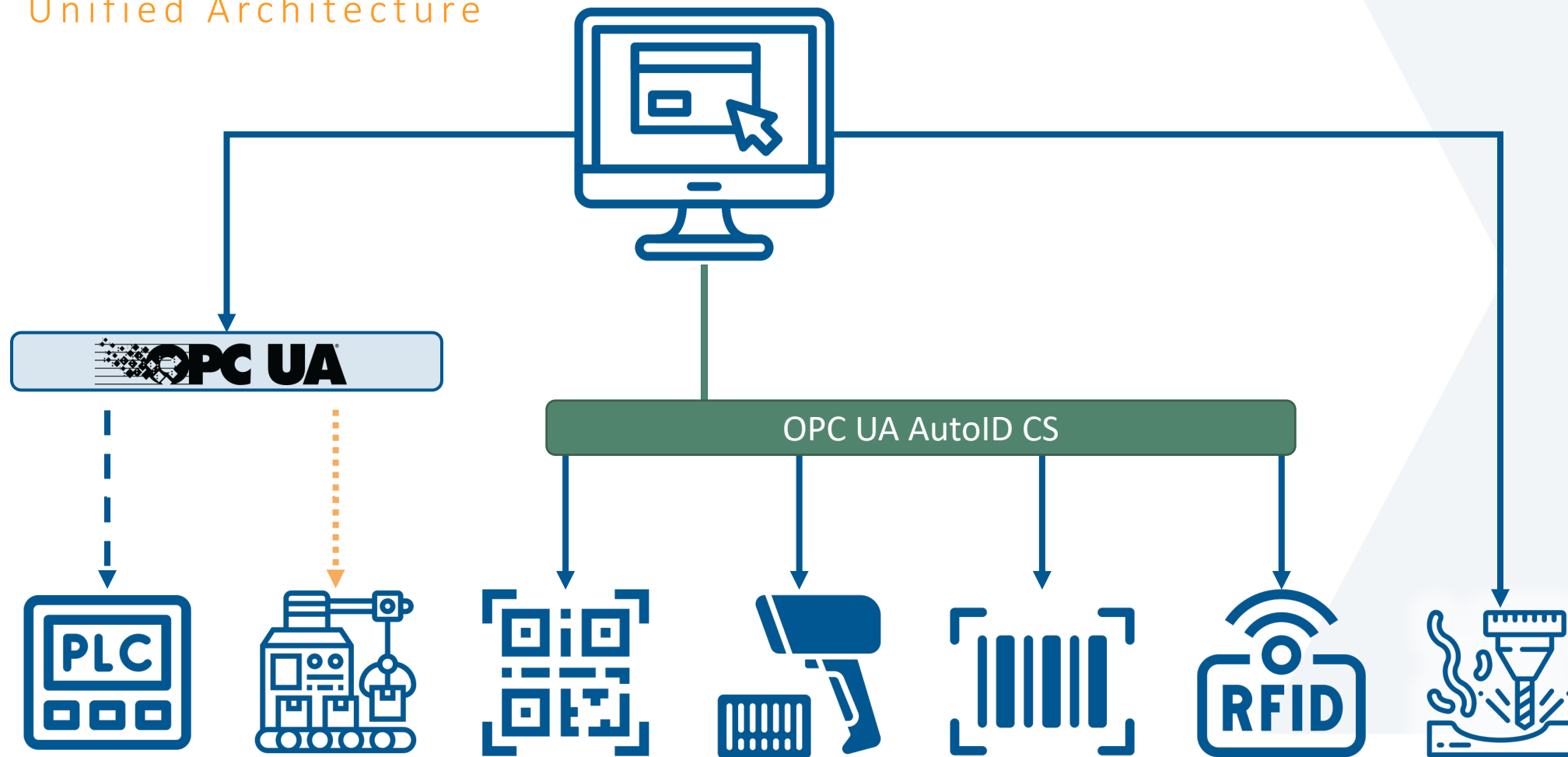
OPC UA

Unified Architecture



OPC UA Companion Specifications

Unified Architecture



OPC UA Companion Specifications

Joint Working Groups

Industrial Interoperability Experts



meets Industry Experts

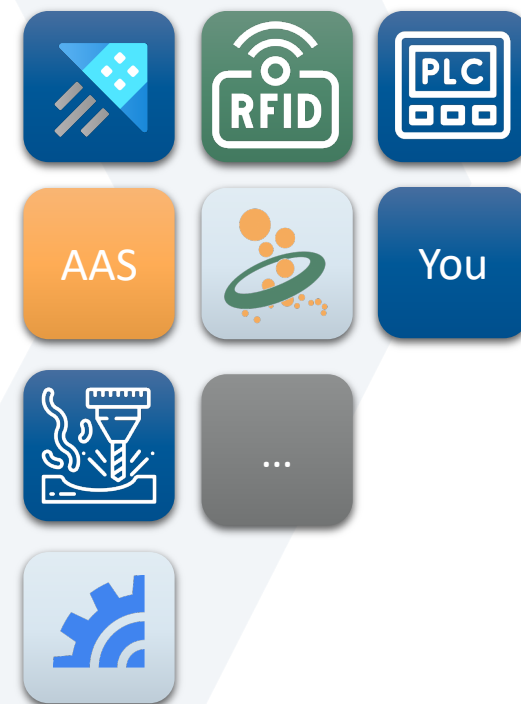
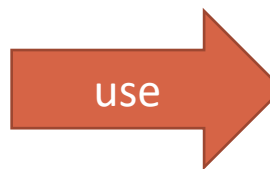


UA Cloud Library (OPC UA Appstore)

Simplified use of the results from the JWG's



UA CLOUD LIBRARY

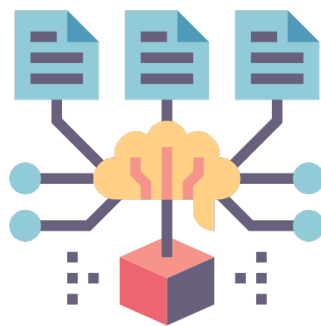


UA Cloud Library

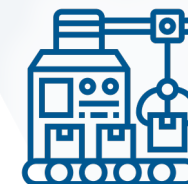
As central Datamodel provider



specify Datamodel



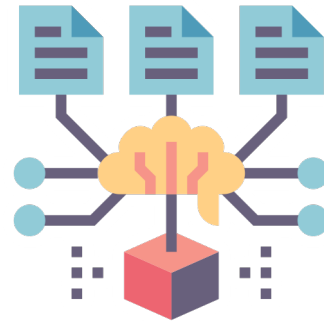
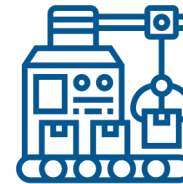
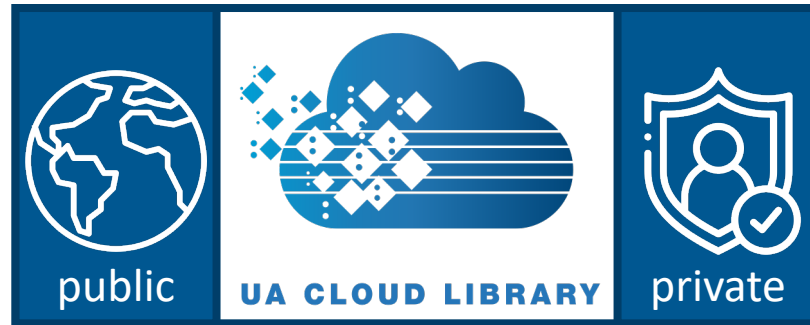
central Datamodel



implemt Datamodel

UA Cloud Library

As central datamodel provider



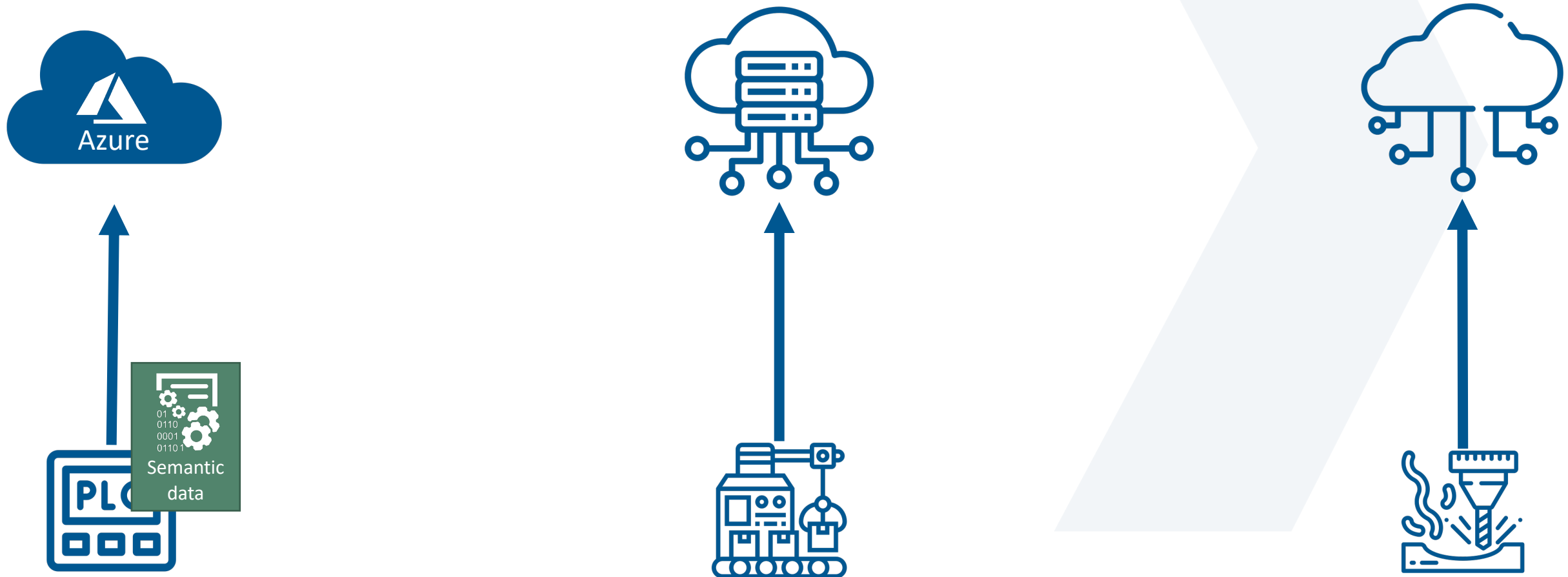
Specify Datamodel

Central Datamodel

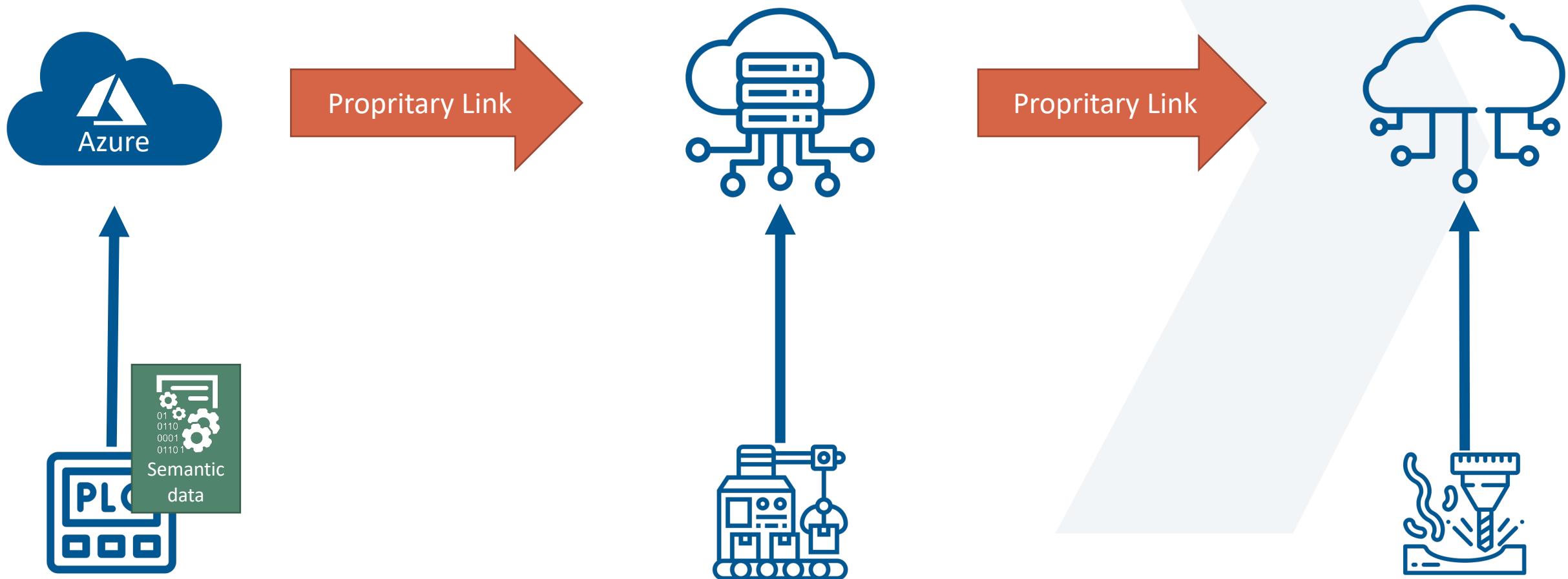
implemt Datamodel

consume Datamodel

UA Cloud

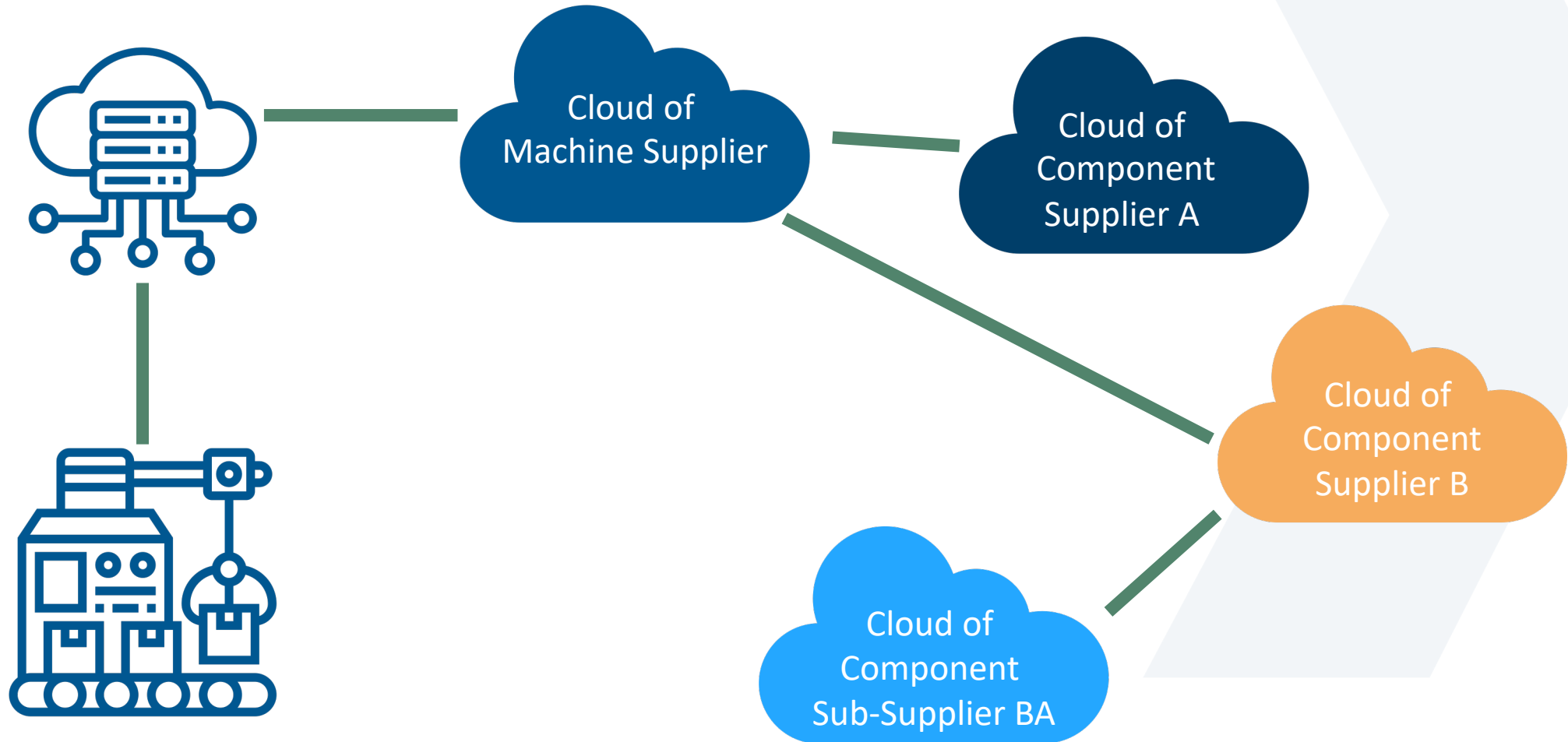


UA Cloud



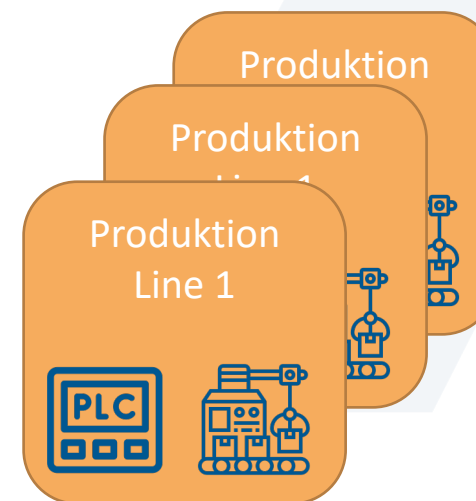
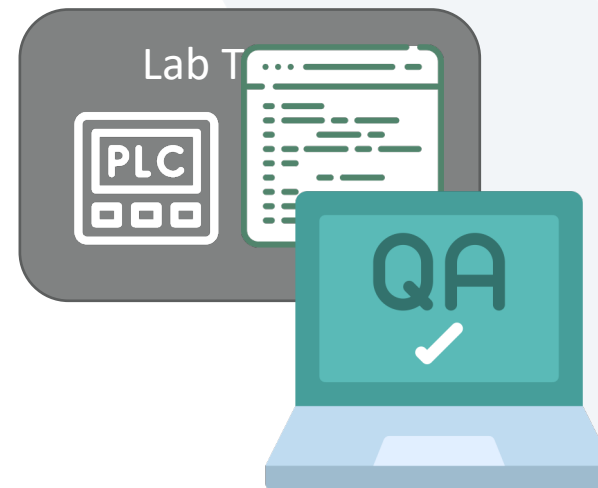
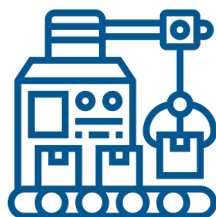
UA Cloud Federation

Standardized Communication



Production downtime

My personal outlook +5YRS

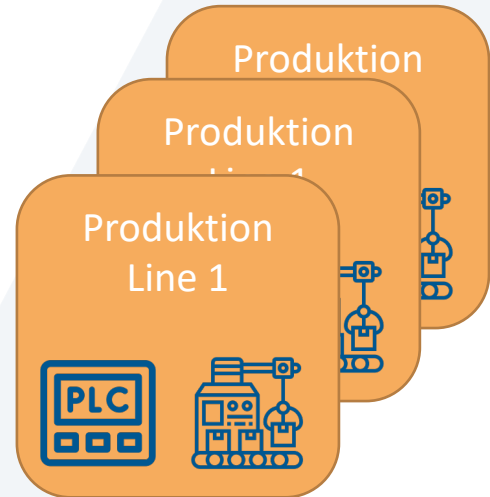
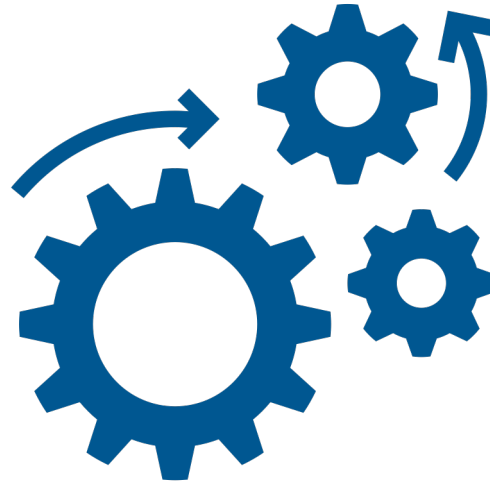


Industrial DevOps

My personal outlook +5YRS



Store code & config
Desired State



Recap

empowering central data modeling

OPC Classic

- Standardize communication

OPC UA

- Interoperability
- Complex Types
- Possibility for data modeling

OPC UA CS

- Domain specific information models

OPC UA Cloud

- Provide standardized access to CS
- Semantic data in cloud to cloud

DevOps

- Specify desired state in code
- Versioned Environments
- Semantic for Environments