

The future of Digital Manufacturing

November 2022



Agenda

- Procter & Gamble at a glance
- P&G's Cloud Strategy
- Cloud for Manufacturing



The P&G logo is a blue circle with a gradient, containing the text "P&G" in white, italicized serif font. It is positioned on the left side of the image, overlapping a yellow circle and a large blue circle.

P&G

P&G at a glance





SECTOR BUSINESS UNITS

**BABY,
FEMININE and
FAMILY CARE**

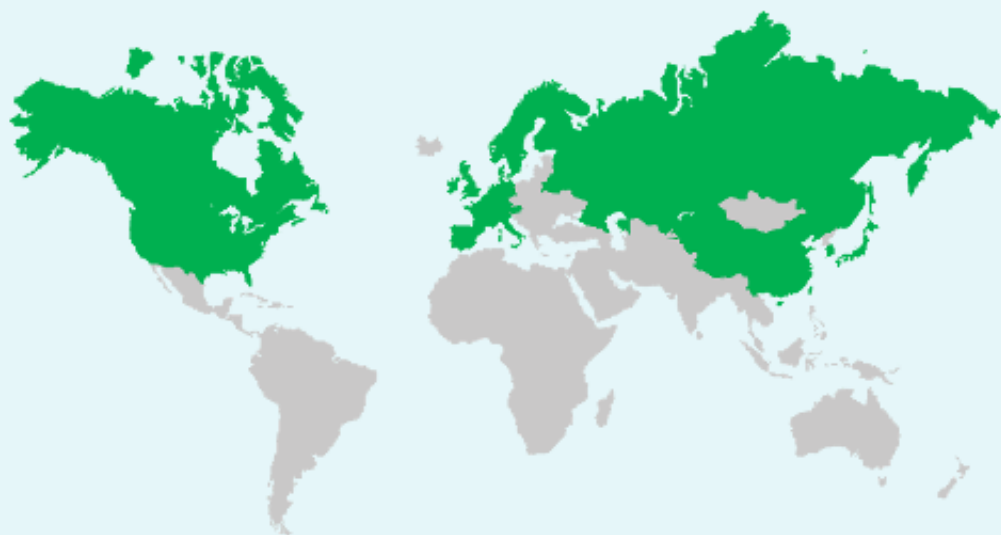
BEAUTY

**HEALTH
CARE**

GROOMING

**FABRIC and
HOME CARE**

FOCUS MARKETS / MARKET OPERATIONS



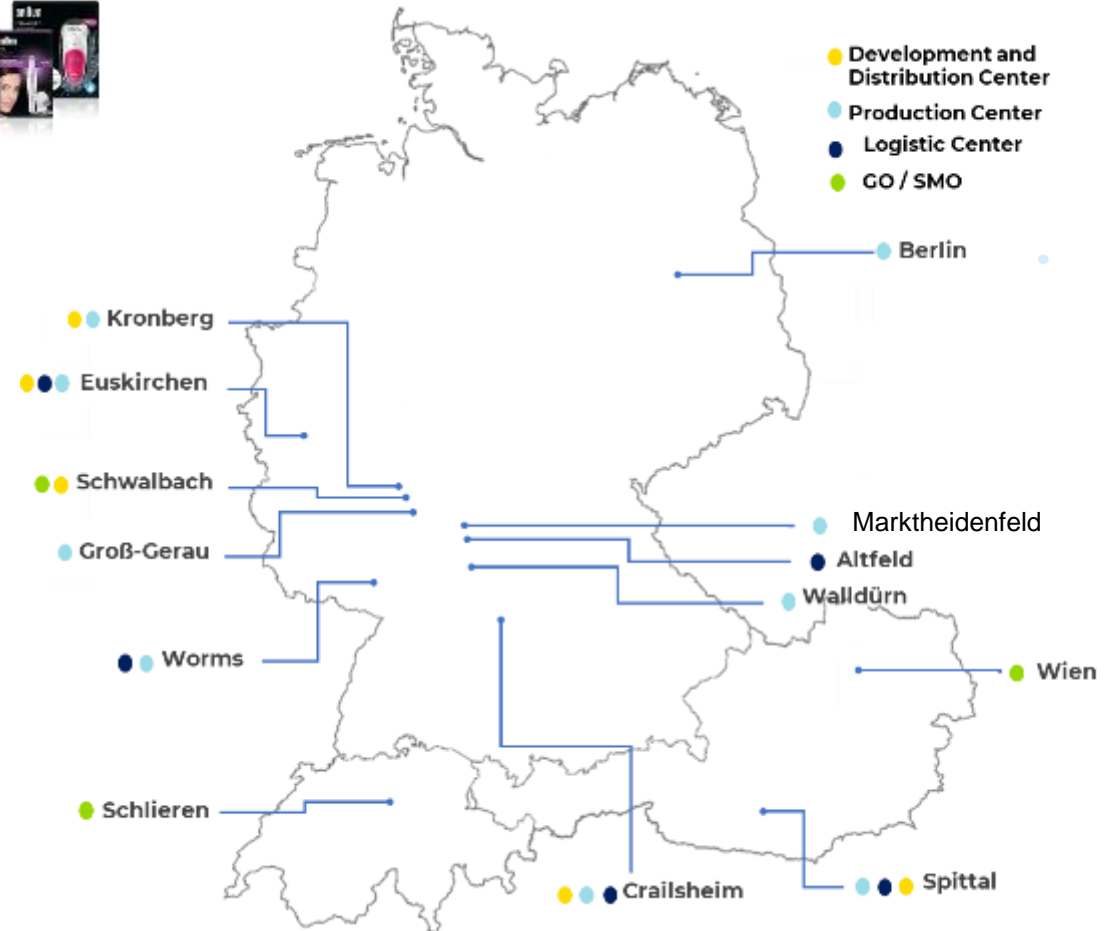
ENTERPRISE MARKETS



GBS and CORPORATE RESOURCES

P&G in D/A/CH

Business Use



Outside US DACH represents

- largest P&G population,
- largest P&G operation (volume and employees),
- largest R&D organization



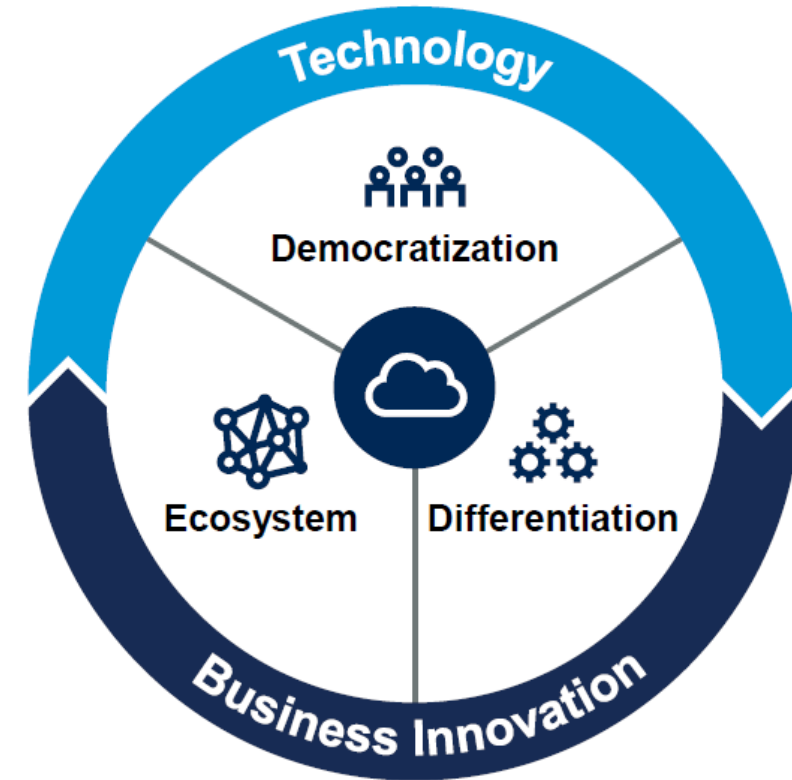
P&G's Cloud Strategy





Future of the Cloud: 2025

- Democratizes access to technology
- A platform that provides a rich ecosystem of digital services that includes customers, suppliers and partners
- Enables businesses to differentiate via their core competencies





P&G Cloud Journey – since 2016 ...

Our Strategy

Cloud First (2017 - Present)

Multi-Cloud (2017 - Present)

Our Journey

OnPrem
Data Center

Cloud CoE
(2017)

Green Field &
Migration (2017-2020)

Enable
(2020+)

Cloud Native
(2022+)

Where we were...

Where we're going

Computing Power	100% On Premise	70% In Cloud	Up to 100% In Cloud
Compute Paradigm	DXC DC: Physical & Virtual	Cloud: IaaS and PaaS	Serverless Functions & Containers
Agility	DXC Fulfillment Requests: WEEKS	IaC Cloud automation: HOURS	Pervasive CI/CD DevOps: MINUTES
Security	Outsourced ("black box")	Foundational capabilities	Integrated Security Design
Resilience	DR/HA is a premium feature	Complete global coverage	Built-in auto-scaling & self-healing
Cost	Fixed Lack of transparency	Variable Transparent	Elastic Cloud-optimized
Sustainability	PUE = 1.7	PUE = 1.1, carbon neutral	100% renewable energy



P&G Cloud Strategy

Where to Play

RISKS / PAIN POINTS

Vendor lock-in and
obsolescence
upgrades

Being on the cloud
vs. using the cloud
effectively

Manual change
management
prone to error,
avoid overhead

Central team
becoming
bottleneck

Legacy
technology used
on Edge



Multi Cloud
and Cloud
First



Cloud
Native



IaC with
CI/CD &
DevOps



Maximize
the Cloud
Enablement



Distributed:
Bring Cloud
Capabilities
to Edge



Secure, Connected and Cost optimized

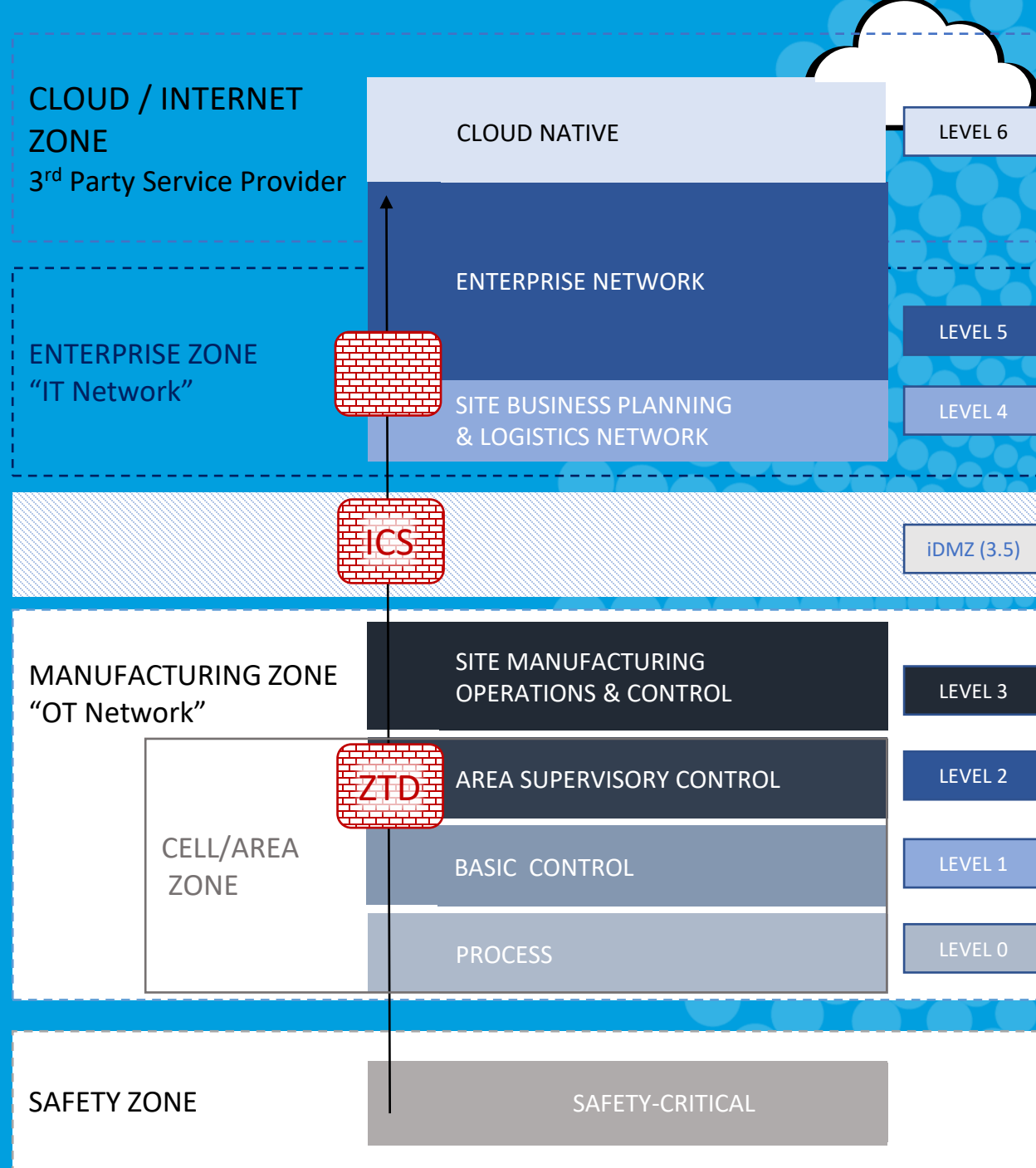


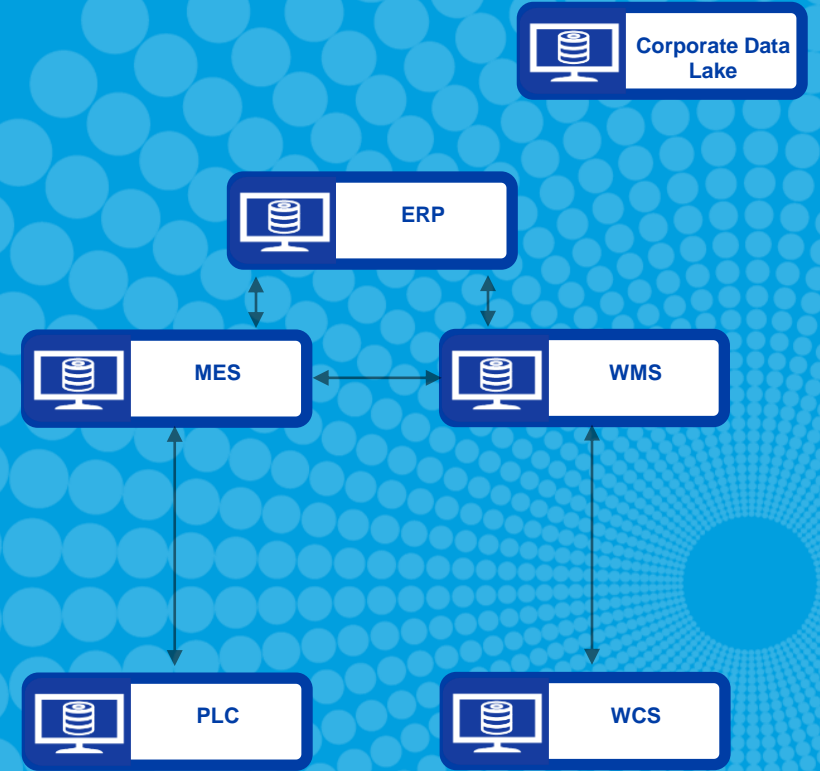
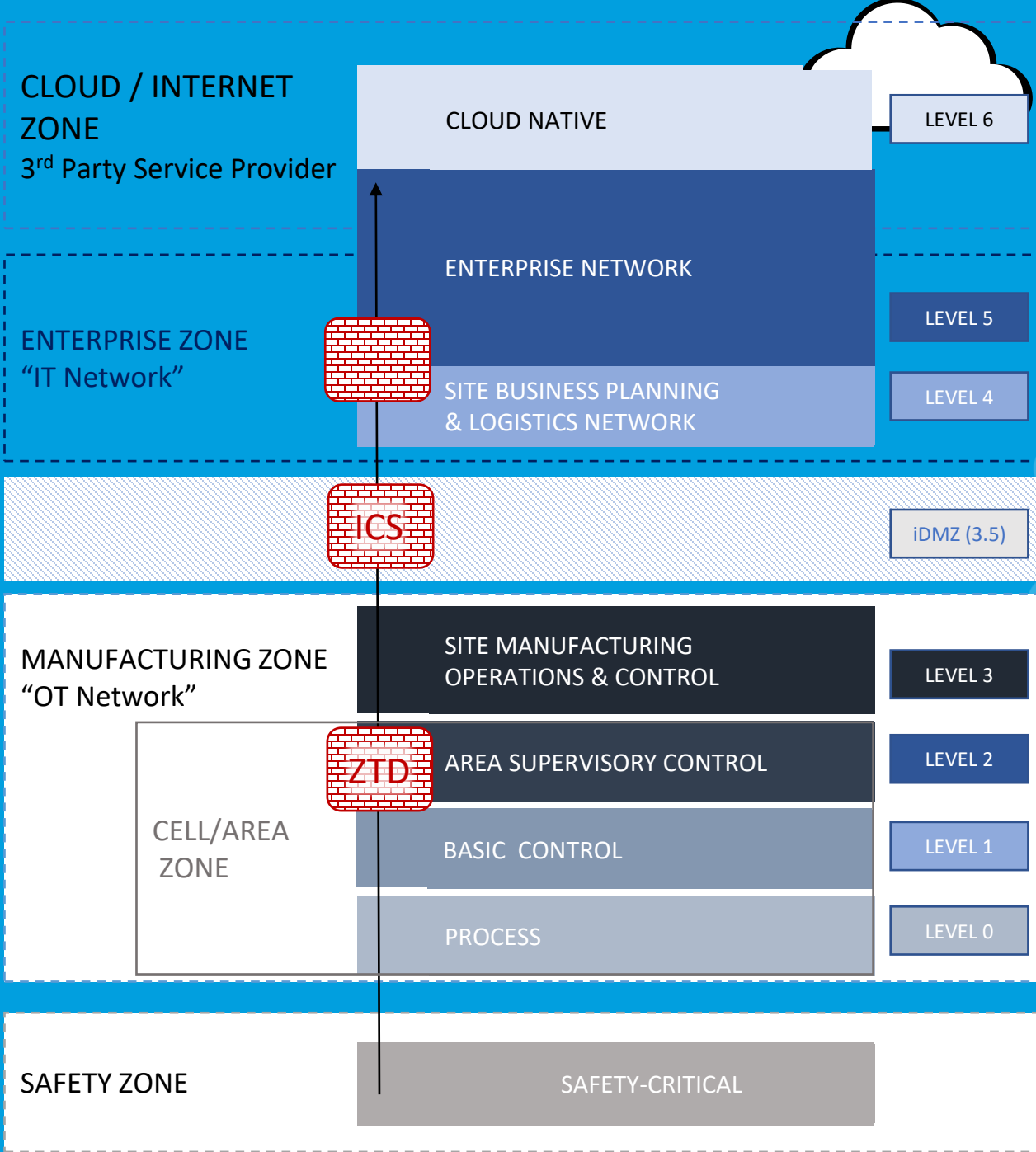
Cloud for Manufacturing

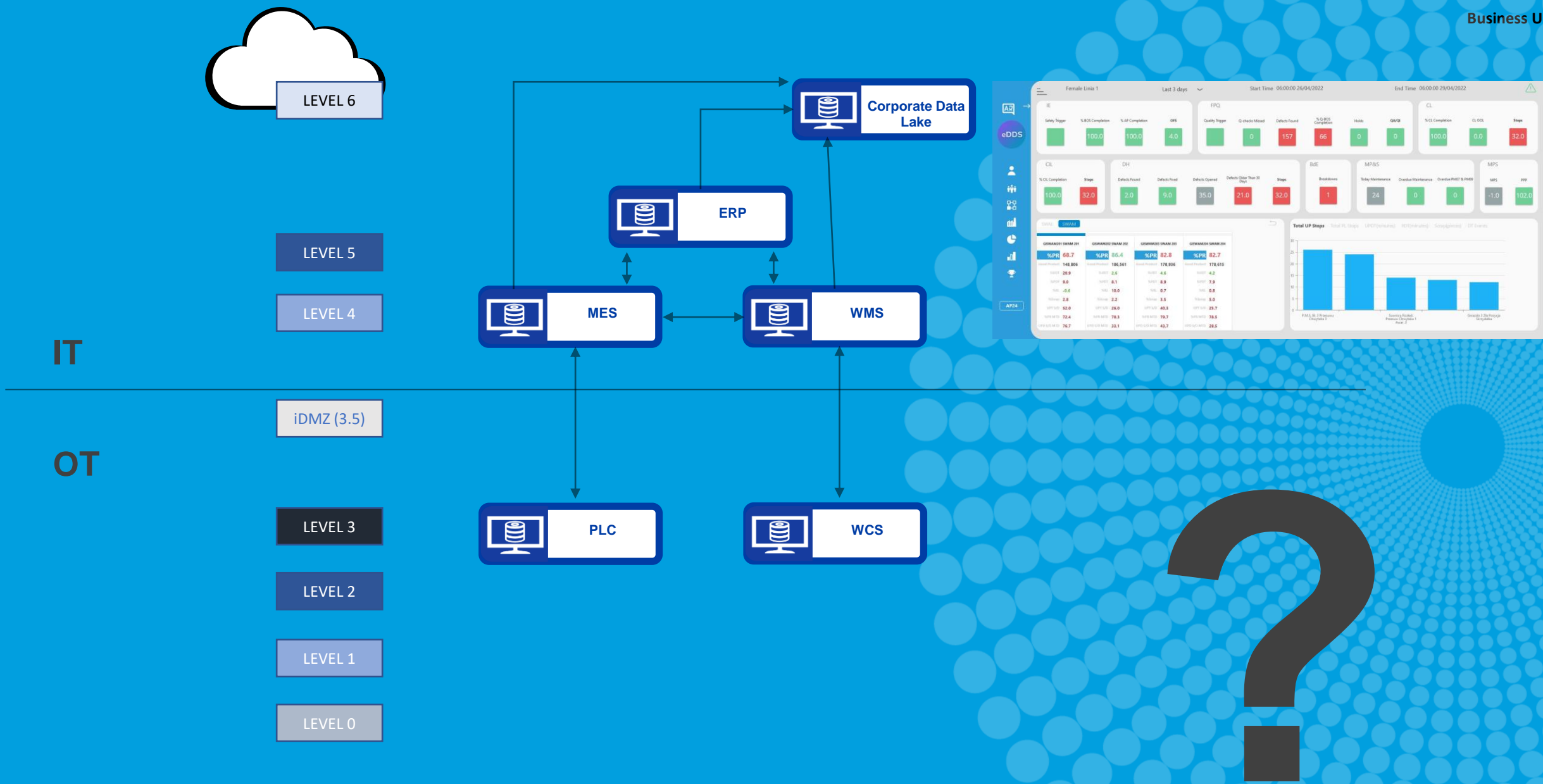


Site Reference Architecture Zones

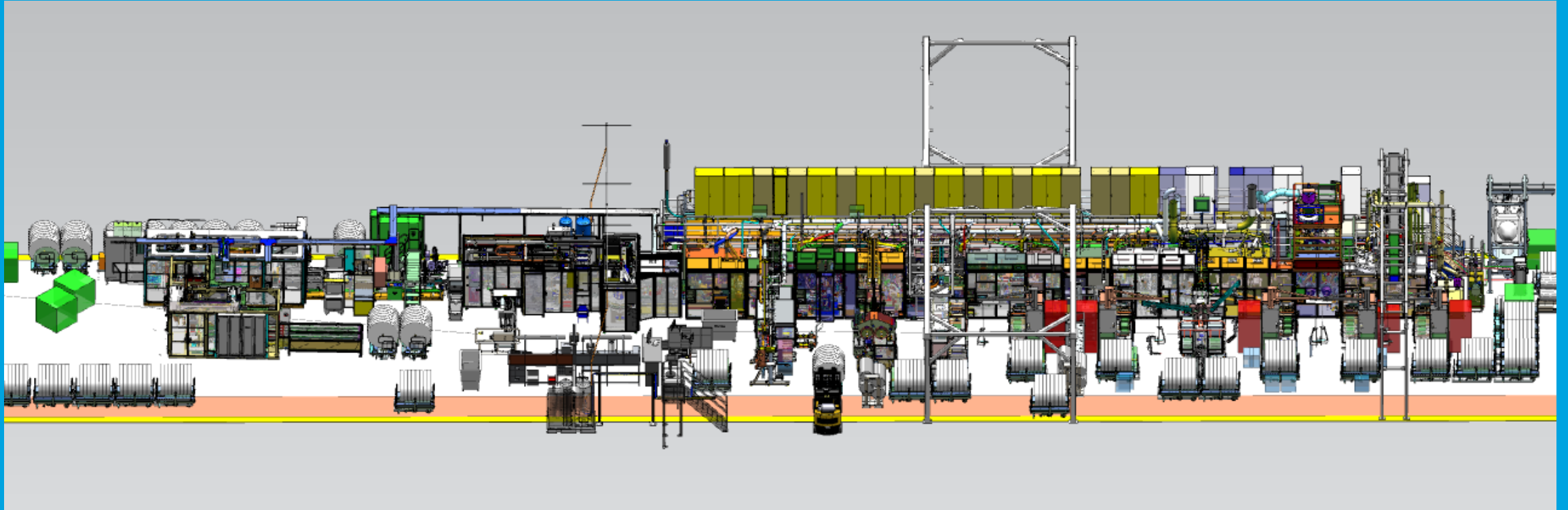
Purdue Model







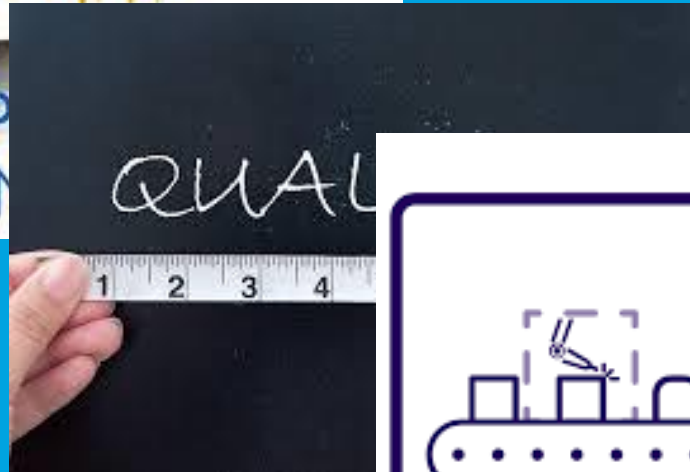
Usage of OT data



3'000 measures per 50ms
60'000 measures per second
3'600'000 measures per minute



We use these data to drive ...



Industry 4.0

We need a scalable, secure, sustainable IIoT platform



Partnership with Microsoft

Vision

Microsoft and Procter & Gamble partner to pioneer an industry leading IIOT & manufacturing platform. Focused on realizing at scale value across their global footprint.

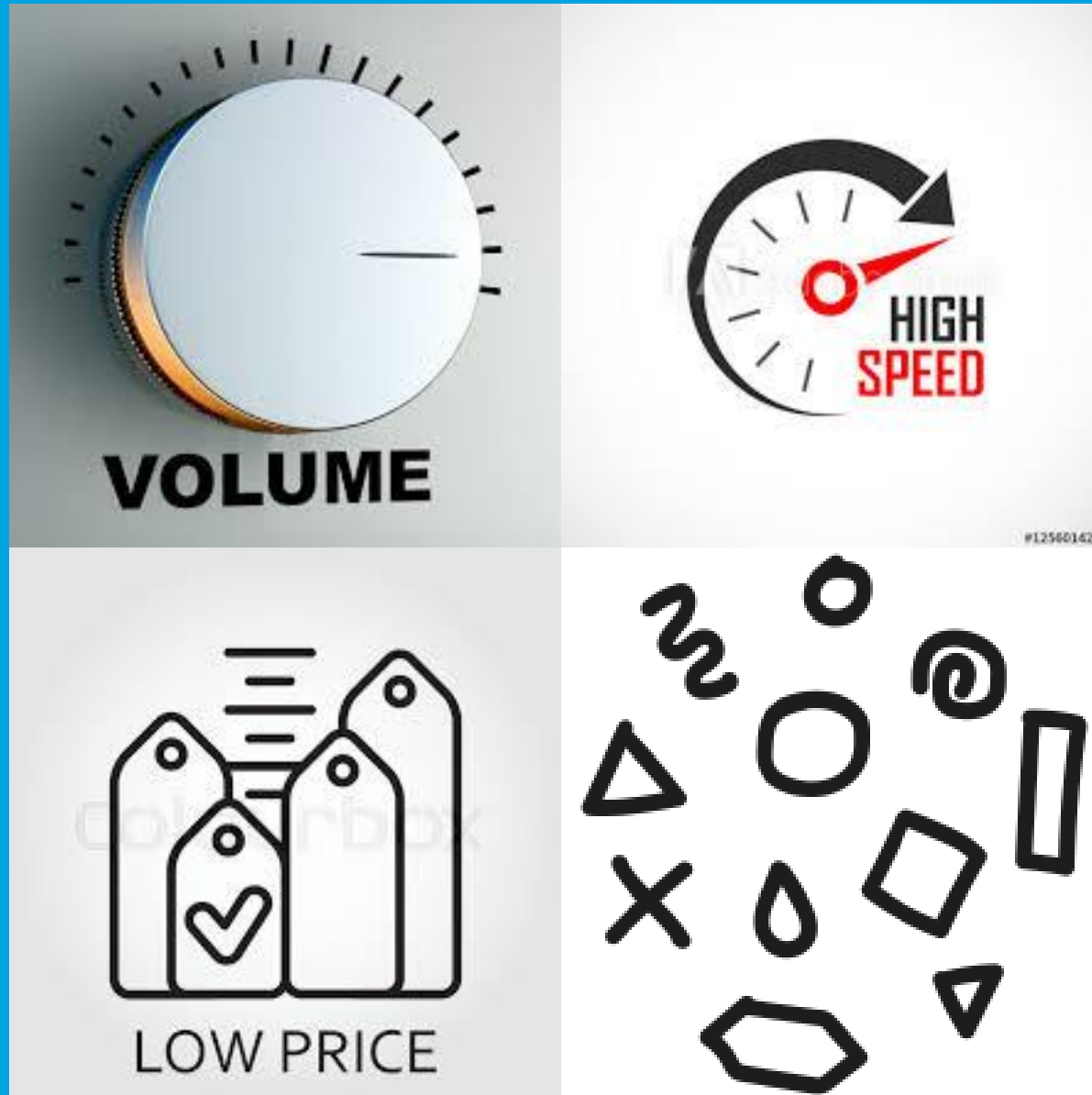
- Work collaboratively together in an agile rapid innovation program with a jointly resourced central digital enablement office.
- Stand up 3 innovation development crews to focus on solving key challenges for the business to drive value
- MSFT focus on P&G's needs to accelerate key platform capabilities globally
- Jointly drive standardization and consistency for whole industry ecosystem

[Video](#)

Why does Microsoft partner with P&G ?



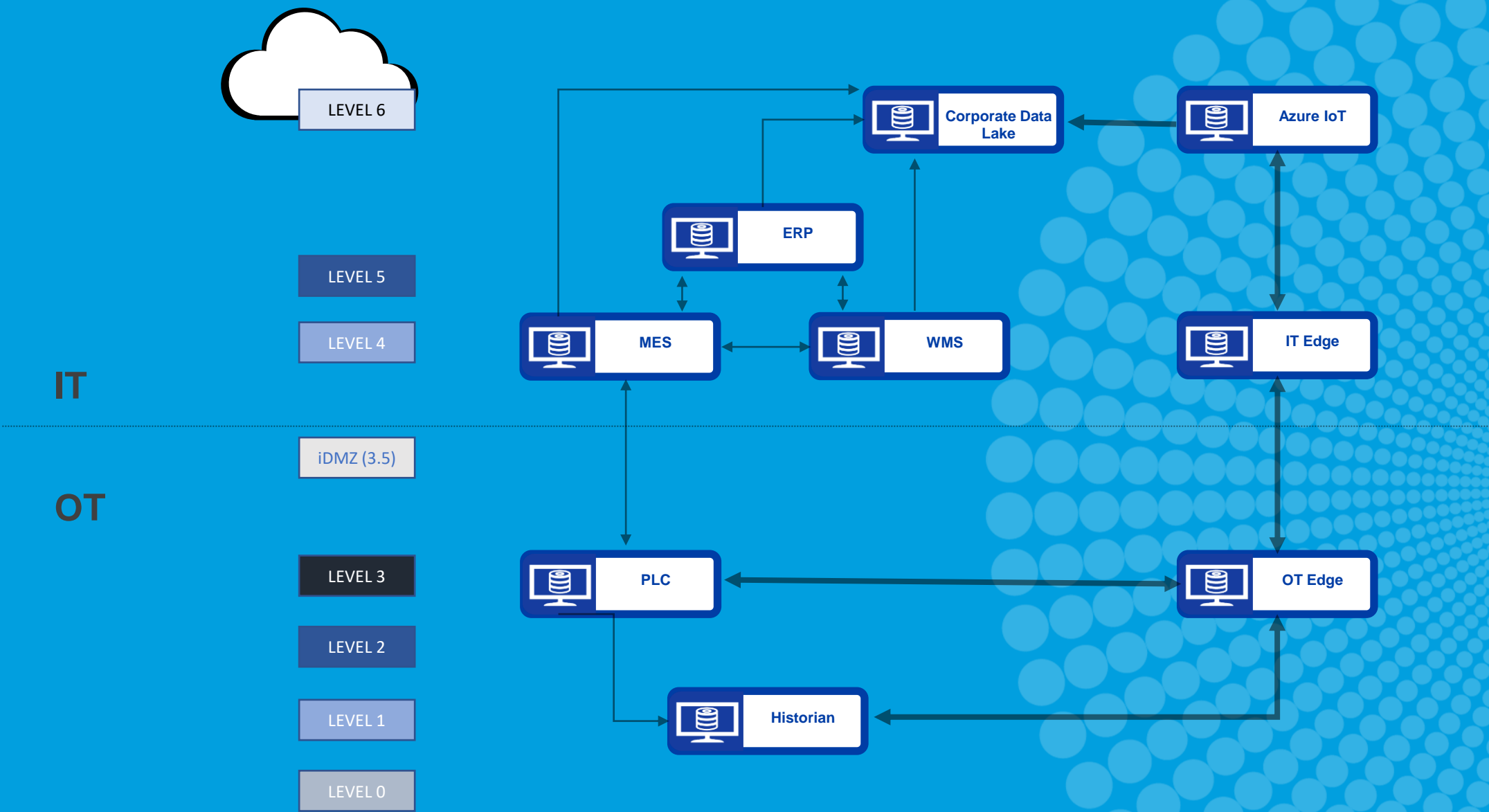
We are leading the industry



Very heterogenous environment

- **Process manufacturing**
- **Repetitive manufacturing**
- **Discrete manufacturing**





Summary

- Cloud provides a scalable, secure, economic environment to bring manufacturing to the next level
- Deliver descriptive analytics on plant, x-plant and enterprise level
- Deliver ML models for predictive and prescriptive solutions.
- Industry 4.0 requires data exchange between partners. I expect this will be via Cloud to Cloud data transfer.

