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MOVILITAS

- EXPERTS IN SERIALIZATION AND TRACK & TRACE

@ GS1 MALAYSIA FORUM 2018

KUALA LUMPUR, 25TH SEPTEMBER 2018



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Agenda

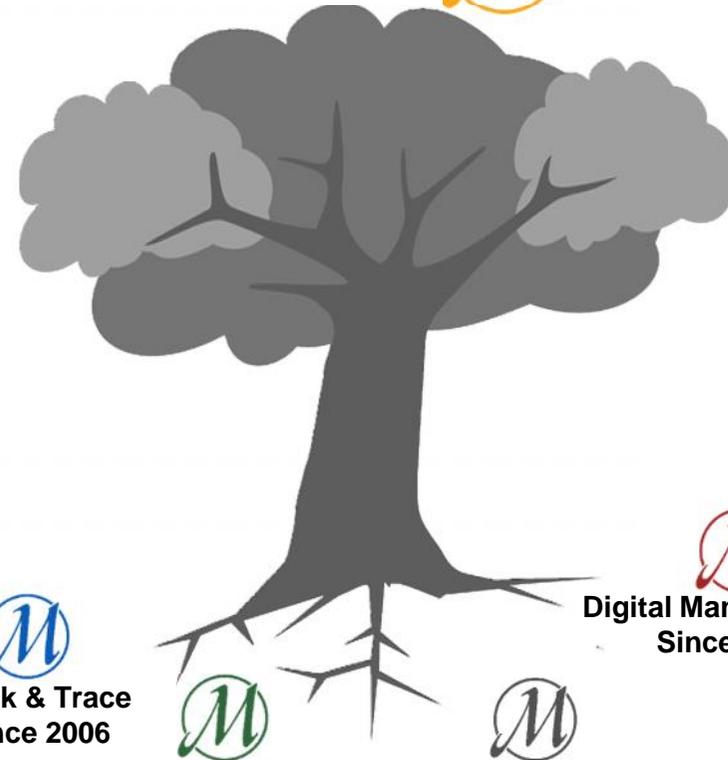


- **Movilitas Consulting**
 - **Focus on short overview regd Track & Trace**
- Basic principles of Track & Trace
- SAP ATTP solution
- Benefits beyond compliance
- Questions & Answers



MOVILITAS COMPANY OVERVIEW

- **Founded in 2006**
Headquarter in Mannheim (Germany)
15 offices across 3 continents (NA, Europe, Asia)
- **Specialized Global SAP consulting company**
in Supply Chain, Manufacturing, Track & Trace & Mobility
Solutions
- **Approx 250 employees globally (70 of them in
WE TRACK)**
- **Domain-level experts** with deep solution and industry
experience
- **Collaborative partner with SAP:**
SAP Software Solution and Technology Partner
SAP Services Partner
SAP Consulting Partner
SAP Value Added Reseller
SAP User




Track & Trace
Since 2006


Mobile Solutions
Since 2006


Warehouse Logistics
Since 1998


Digital Manufacturing
Since 2000

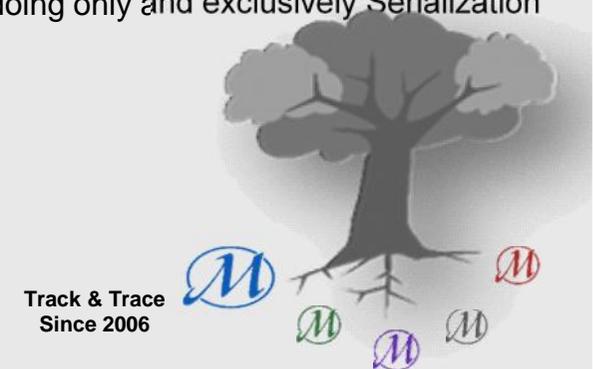

Cloud Solutions
Since 2016

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T&T Key Facts



- Movilitas has delivered (or is currently delivering) **65+ Serialization and Track & Trace projects since 2007**
 - **21 SAP ATTP projects**
- Movilitas has **integrated its Track & Trace solutions** (e.g. Movilitas.Cloud, SAP ATTP) system with various different partners.
- Movilitas has a **broad range** of SAP based as well as own developed **solutions**
- Movilitas is able to demonstrate **today(!) full end to end serialization** across all levels incl reporting functionality
- Movilitas has approx. **60 SAP Serialization and Track & Trace Solution consultants** doing only and exclusively Serialization and Track & Trace projects.
- This quantity and quality of expertise and resources is **globally unique**
- Movilitas is doing **Track & Trace** projects
 - in **multiple industries** (Pharma, Agro/Chemical, Food, Tobacco, Explosives)
 - with **different Supply Chain Partners** (Manufacturers, CMOs, 3PLs, Wholesalers, Retailers)
 - across various continents (**Europe, US, Asia**)



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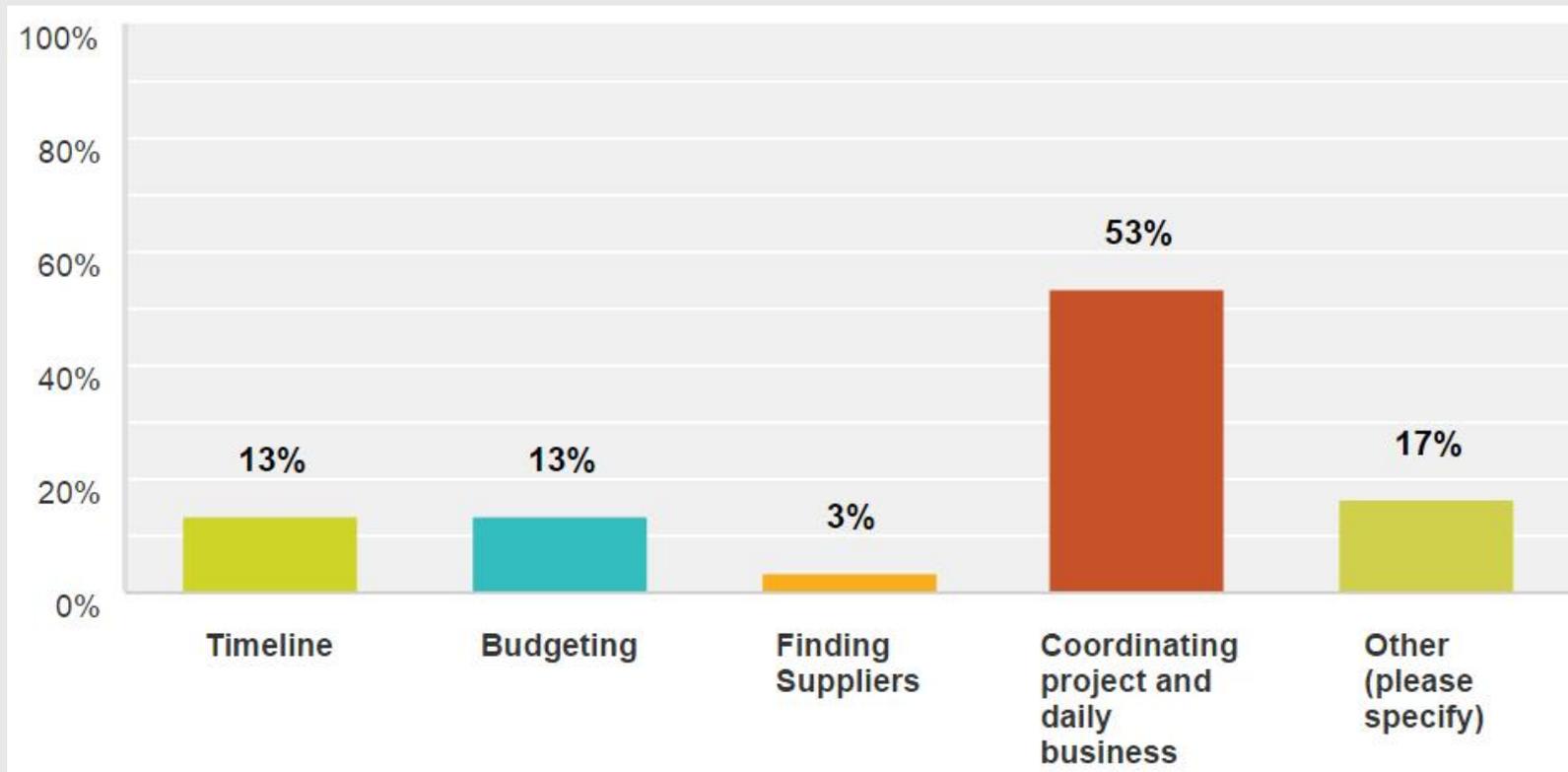


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Biggest challenges during implementation of T&T solutions

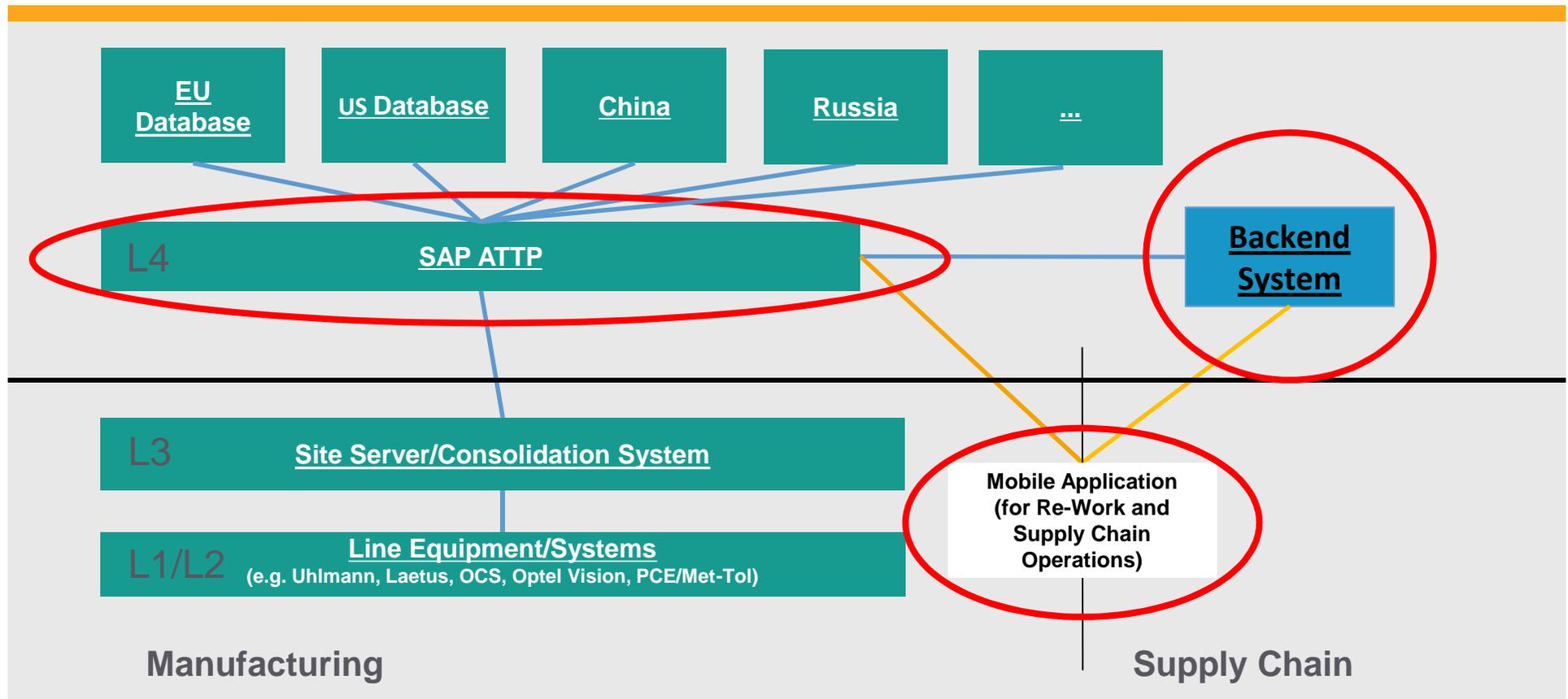


IT-SYSTEMS

ENGINEERING

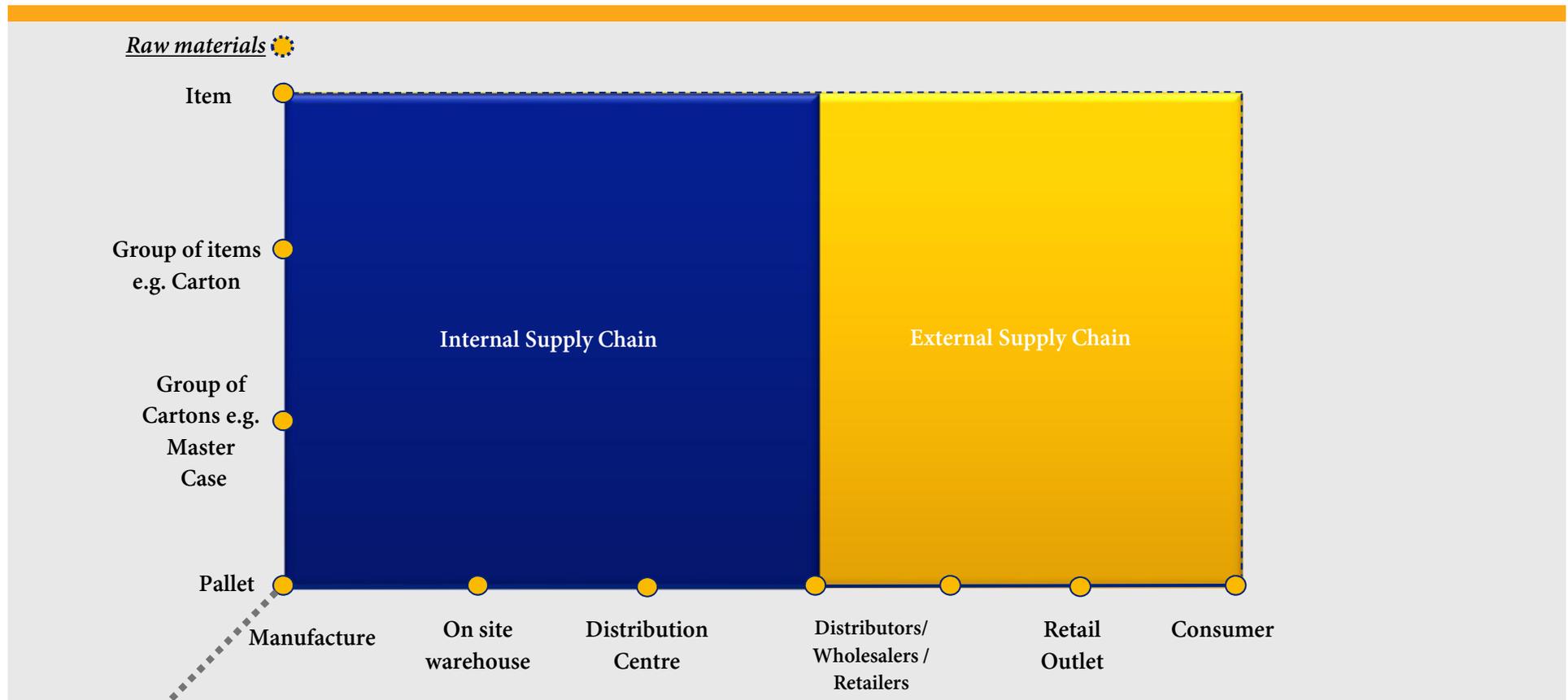
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Solution Architecture...



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Serialization and T&T Scope

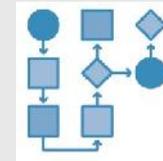


Track & Trace in the Supply Chain is always about...

■ Technology / IT



■ Process



■ People



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Track & Trace in business environment...Process



- Detailed AS-IS process analysis
- Understanding of impacts / requirements
- Determination of TO-BE situation
- Affected processes e.g.
 - Logistics
 - Quality
 - Production
 - ...
- Processes with special Requirements e.g. Returns / Destruction / Re-labelling processes
- Dedicated Training required for new processes and procedures
-

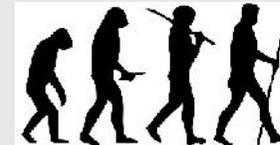


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Track & Trace in business environment...People



- Resistance towards Changes
- Change Mgmt required (open and timely Communication)
- Publish the reasons „WHY“
- Publish Advantages AND Disadvantages
- Explain Mgmt decision to go for Serialization / T&T
- Include employees in all phases (analysis, design, testing, etc)
- Visibility and Transparency
- Dedicated Training Plan required
- Professional / experienced Trainers required
- Tailored material / Training environment required
- ...



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Track & Trace in business environment...Technology



- What Information need to be captured?
- Why shall T&T be implemented?
- More manual or more automated Processes?
- Existing Scanning Technology e.g. ERP / WMS
- Stand alone Serialization / T&T Solution vs Integration / Interfacing with existing Landscape
- Environmental situation (Temperature, Humidity, Dust, Noise, etc)
- Number of Scanning Activities
- Required Level of Accuracy
- Update Frequency required (real Time, once per Day / Week / etc)
- What information carriers are used (1D, 2D, QR, DOT, RFID,)
- Exchange of Information Carrier required e.g. re-printing of Labels
-



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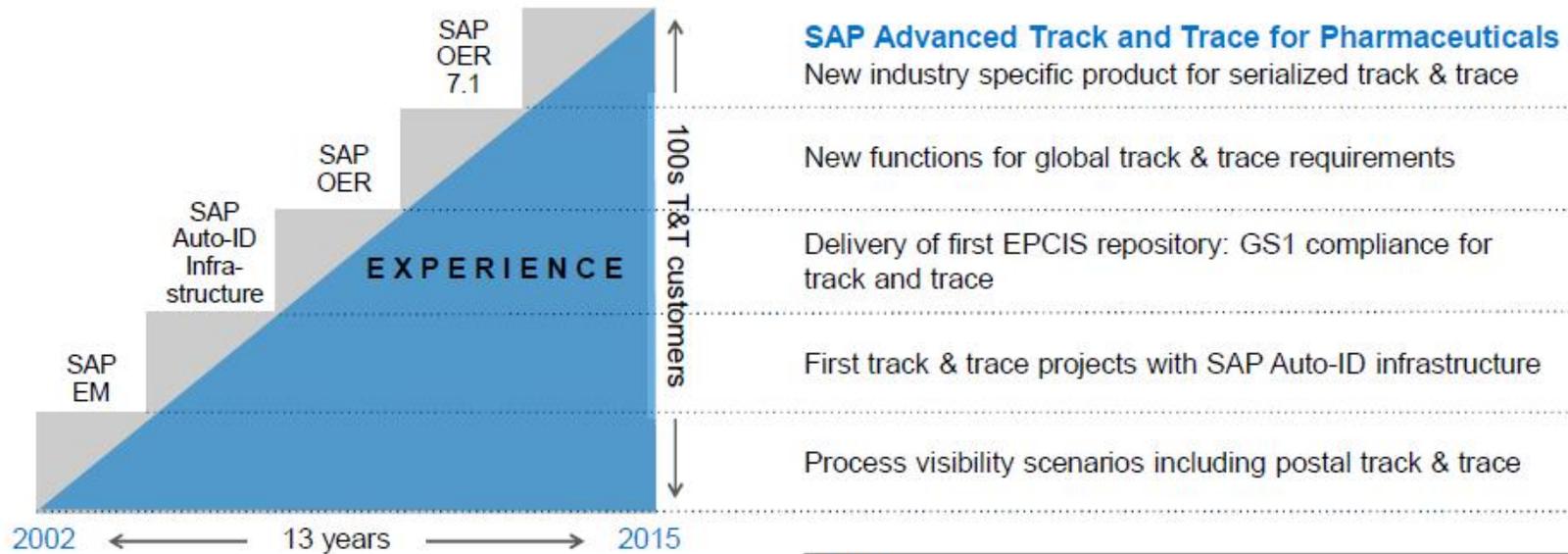


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SAP ATTP – History Overview



Legend
EPCIS = Electronic Product Code Information Sharing (GS1 Standard)

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SAP ATTP – Functional Overview



INTEGRATION

ERP system integration

- Material, business partner, location master data
- ERP transactions (deliveries, production/ process order)
- Batch

Serial number management

- Define number format and ranges
- Randomization
- Assign ranges and S/N lists to consumers
- Receive lists and ranges
- CN: import China product master and serial numbers from files

Toolkit for WMS & EWM integration

- Real-time verification with data in repository
- Integration with receiving, internal movement and goods issues, and cycle counting

Packaging line integration

- Serial number interface (request list and range, status update)
- PML or EPCIS capture interface

REPOSITORY

- Capture and store objects, events and business transactions
- Ad-hoc reporting with repository browser
- Authenticate Objects
- Deployable on SAP HANA or classic databases

MESSAGING

Regulatory reporting / rules engine

- Rule framework for regulatory reporting and business rules
- Message mapping and handling
- Number import for China
- Country packages: Argentina, China, European Union, India, South Korea, Turkey, USA

SAP Application Interface Framework (integral solution software component)

- Integration to business partners, packaging line, SAP ERP, LES WMS and regulatory reporting, EPCIS capture interface
- Business and technical monitoring of all messages with restart option in case of transmission failure

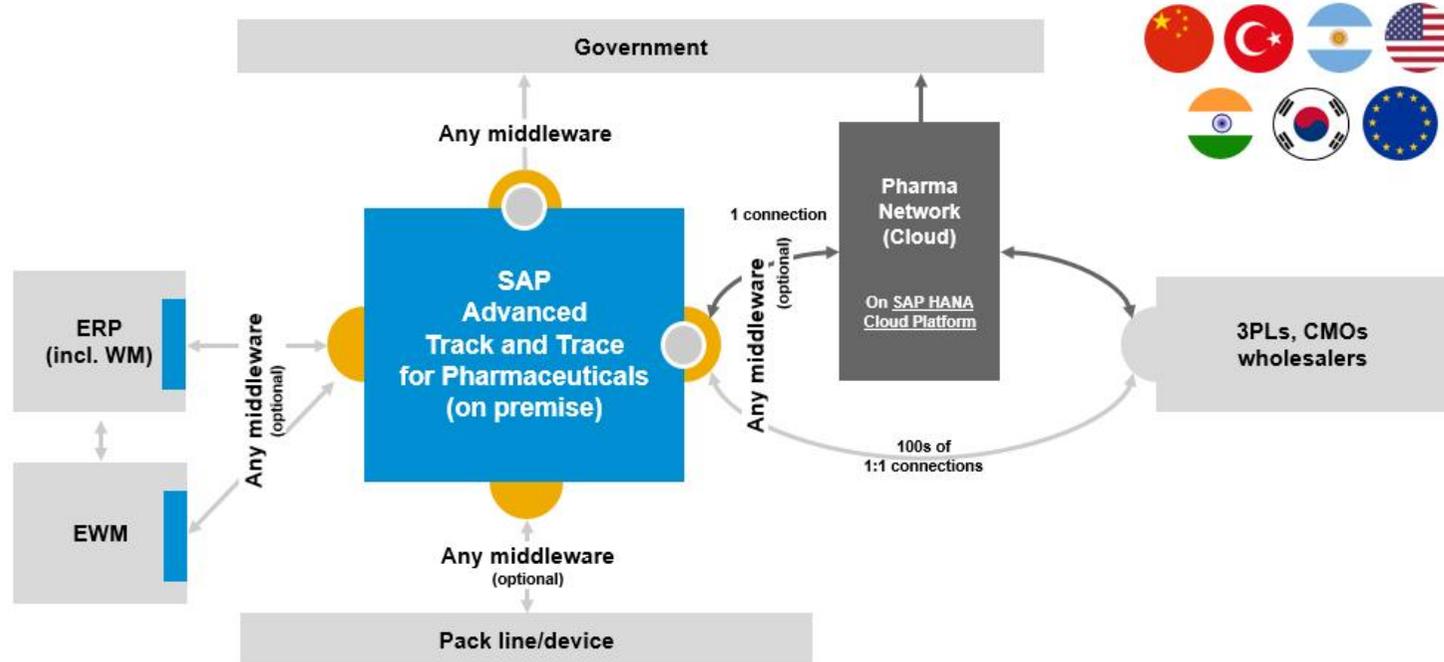
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SAP ATTP – Technical Overview



SAP Solution Offerings For Pharma Track And Trace

ATTP: Manage Serialization Within Company - Pharma Network: Exchange Serialization Externally

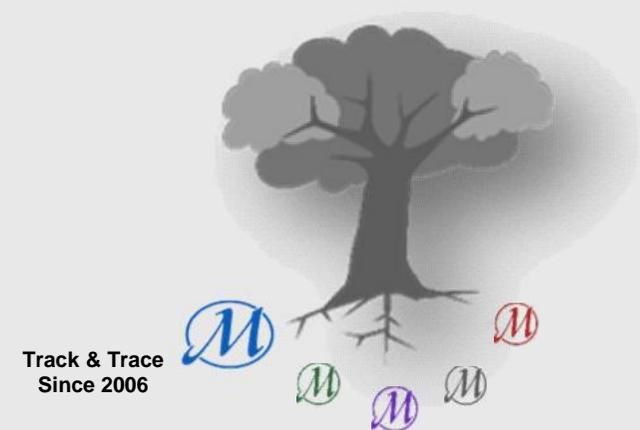


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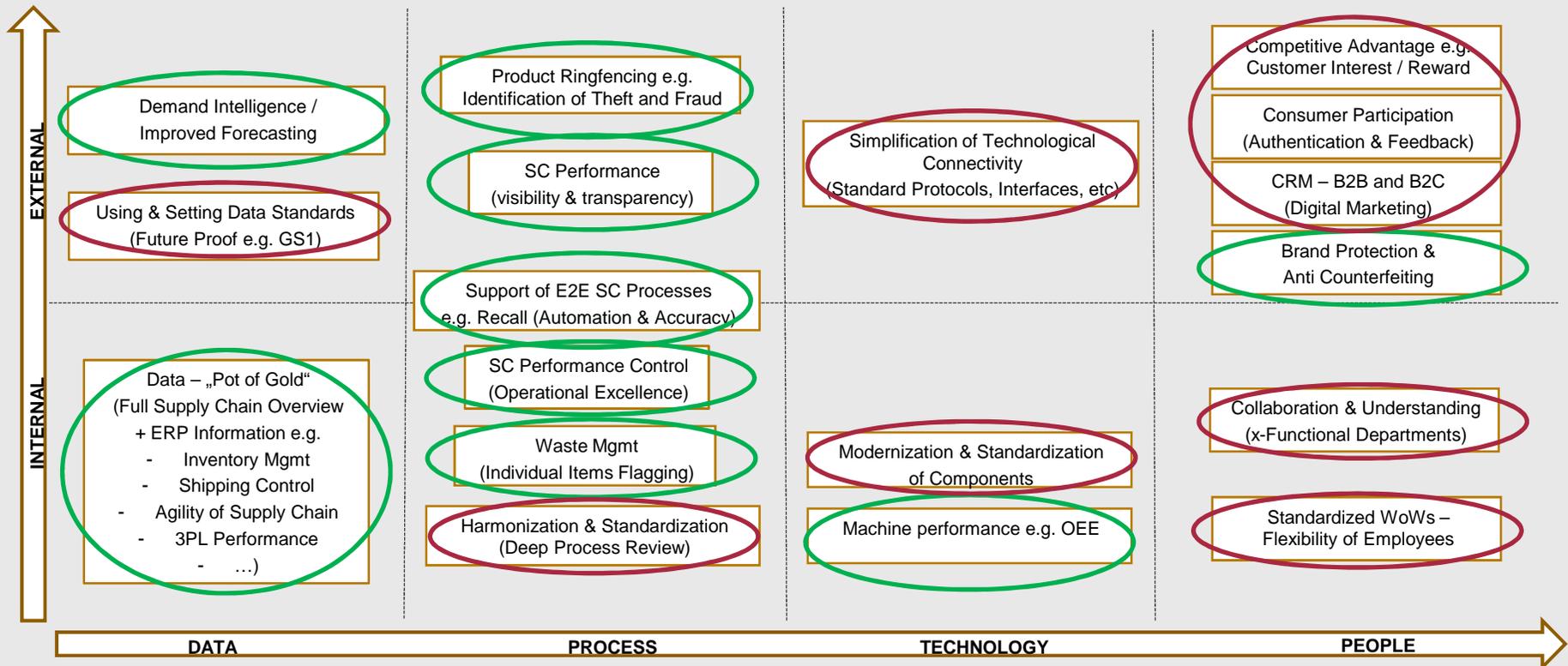


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Food for thought...



„Anything you measure becomes visible and can be improved...“



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Q&A



Track & Trace
Since 2006

