Electronic Turnaround Optimization Platform – eTOP

Valencia, October 2018
OMV Turnaround Management
Managing Complexity, Managing 3,000 People

Fuel Plants

Petrochemical Plants

Austria Germany Romania

Health, Safety & Environment

Planning Coordination Execution

OMV Downstream, Stefan Krebich & Rene Leitner, October 2018
Turnaround Execution Phase
Paper Based Wallpaper Coordination
Downsides & Consequences
Scrutinize Paper Based Wallpaper

Paper Based Coordination...

- lack reporting quality/mentality
- complex data screening & reporting
- redundant progress tracking
- stationary info location

..tool of choice in 2018?

- lack of data quality
- realtime status accuracy
- resources coordination efficiency
- TAR goal attainment
Impact of „Gamification“  
Change a „No“ to a „Yes“

![Gamification Icon](image.png)

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<th>Equipment</th>
<th>Inspektionsart</th>
<th>Demontage</th>
<th>Druckprobe</th>
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Performance & Architecture

Process

Data Source

Online Realtime Data & Front End loading

Ad-hoc Reports, TAR process optim.

Qualified IT Resources familiar with New Technologies (e.g. SAP process integration, iOS App)
Infrastructure & Availability
RISK: Usage of Devices in Plants

- Management of Change
- Just allowed in Turnaround Plants
- Sub-Equipment for Exp Measurements
- Training
Infrastructure & Availability
RISK: Type of Mobile Hardware
- Standard Device in Company
- Lifecycle
- Update & Security Policy
- Availability of Hardware
- User Interface with Stylus
Infrastructure & Availability

RISK: Availability of Network

- Upgrade Infrastructure (fiber wire)
- Data Cubes & LTE Antennas
- Backup Scenarios (Paper, Digital Upload)
- Spareparts
Plug for eTOP Network Infrastructure

Smartphone Student
Security

RISK: Theft of Hardware, unauthorized Access

- Typing a password in field will not work
- User & Identity Management
- Smart log on/off at station
- Electronic Locks on Container
- Remote Lock/ Maintenance for (mobile) devices
Acceptance

RISK - People have no experience

- Training on device
- Provide devices well before Turnaround
- Simplified User Interface
- Support in the field
Acceptance
RISK – New Processes

- Unit Management covered with SAP Standard Processes
- QR Technology / no RFID
- Risk Based Inspection Methods covered with SAP Standard Processes
- Using GPS Data
Statistics & Data Mining

Server Calls (Activities)
- 38 Mio

Log-In (PC & Board)
- 10k

Log-In (iOS)
- 227k
- 157k
- 1k

Inspections
- 1k

Opened Docs
- 227k

Log
- P&O
- Log - In (PC & Board)

TAR17 SWE Activity History
- counts per day [%]
- blinded
- opened
- bundle cleaned CIAR
- PT tube
- closed
- shell cleaned onsite
- bundle cleaned onsite

TAR17 SWE Process Mastery
- sqrt-display
- process-steps
- blind-open
- open-clean area
- clean area-clean
- clean/Transp.O1
- cleaned-PT
- PT-closed
Contact
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