Electronic Turnaround Optimization Platform – eTOP

Valencia, October 2018







Die Energie für ein besseres Leben. OMV

OMV Turnaround Management Managing Complexity, Managing 3.000 People







Turnaround Execution Phase Paper Based Wallpaper Coordination







Downsides & Consequences Scrutinize Paper Based Wallpaper





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



- ► lack of data quality
- ► realtime status accuracy
- resources coordination efficiency
- ► TAR goal attainment



Impact of "Gamification" Change a "No" to a "Yes"



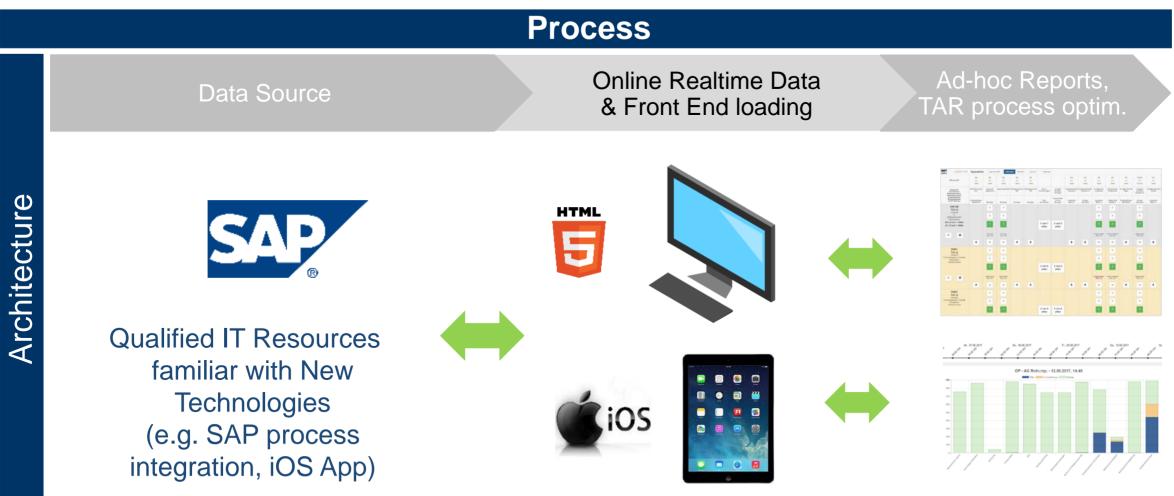


Equipment	Inspektionsart	Demontage	Druckprobe
E5801A	IU+FP	Fertig	Starten
E5801A	IU+FP	Starten	Starten



Performance & Architecture







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



Smartphone Student

Plug for eTOP Network Infrastructure



Security RISK: Theft of Hardware, unauthorized Access

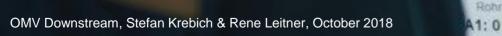
- Typing a password in field will not work
- User & Identity Management
- Smart log on/off at station
- Electronic Locks on Container
- Remote Lock/ Maintenance for (mobile) devices



Acceptance RISK - People have no experience

- ► Training on device
- Provide devices well before Turnaround
- Simplified User Interface
- Support in the field

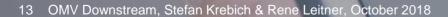
12



30.05.2017 09.33	Apparateliste	Liste wer	thsein Vol	version Übers	icht Druck	en
161 von 161	0% 0%	0% 0%	0% 0%	3.77% 6%	0%	
	100%	100%	100%	96.23%	100%	
Equipment Revisionsart Meldungsnummer Meldungskurztext Equipmentname Bauhauptgruppe STOPP Nummer	Öl/Kuhl/Sp.syst. Ent.	Apparate abgesteckt	Apparat geoffnet	Reinigung Firma MS	Reinigung Firma RS	Rep. u. Erneuerung
	Rotating Equip. MRAMS-R	Montage	Montage	Reiniger	Reiniger	Rep. Koordinato
B201 TÜV IU+FP		0	0	0	0	
10429067						
IU+FP HDS3-Splitter Ofen B201 Ofen Röhren		D	D	D	D	5 von 6
AO: 0 von 4 offen A1: 17 von 19 offen		E	E	E	E	offen
* 0		Josephin Weed 15:05:14:07	Asschim Well 15.05.14:07	Stefan Kvebich 30.03.08.11	Joachim Weiß 27.05.09.41	
B201DUH TÜV IU+FP		0	0	•	0	
10429068 Erneuerung Dampfüberhitzer in B201 Rohrschlange WT A1: 0 von 1 offen		D	D	D	D	
			E	E		MV von 1 offen

Acceptance RISK – New Processes

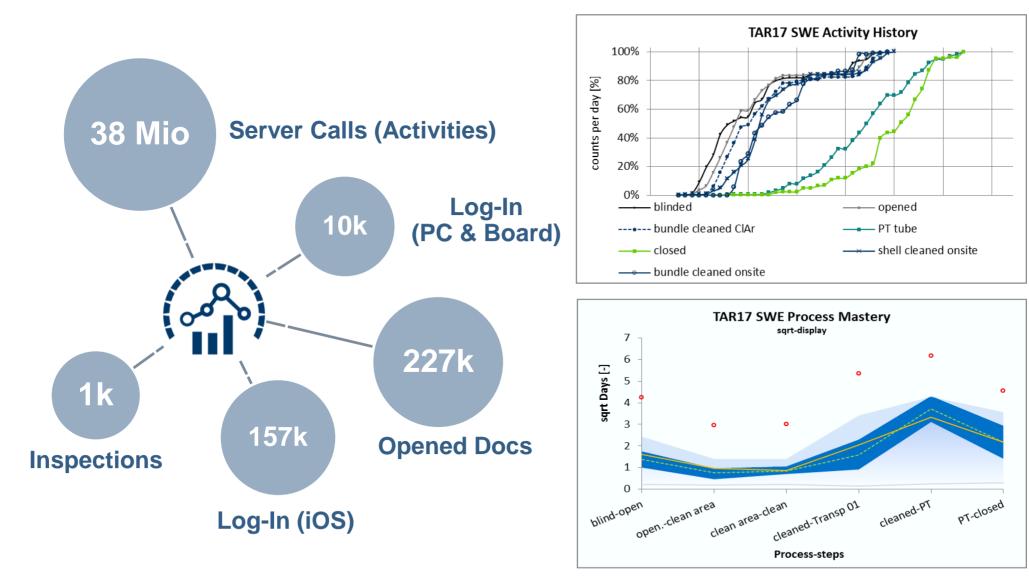
- Unit Management covered with SAP Standard Processes
- ► QR Technology / no RFID
- Risk Based Inspection Methods covered with SAP Standard Processes
- ► Using GPS Data





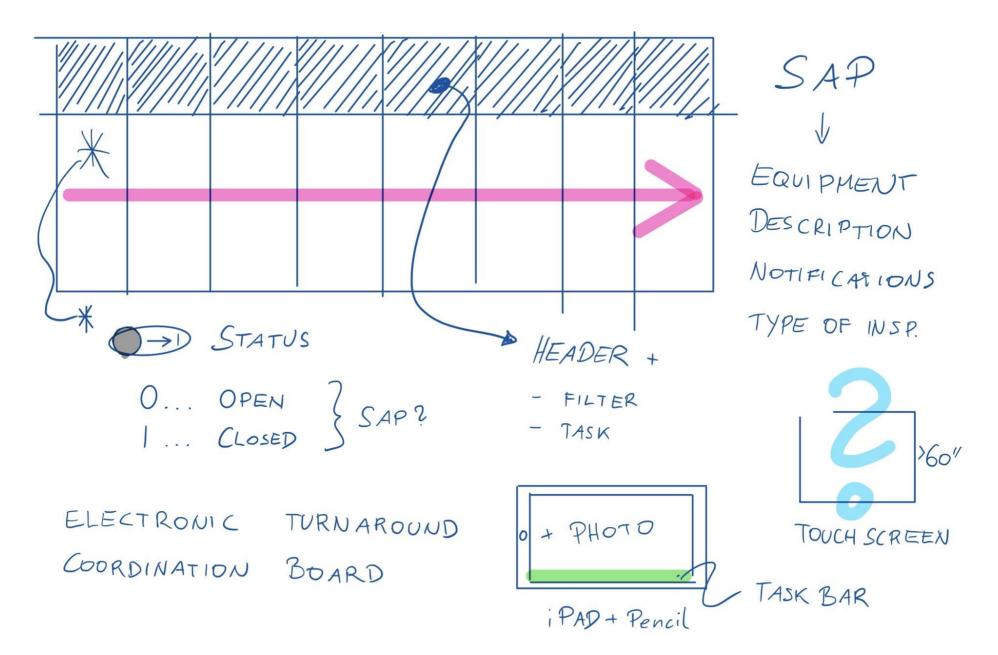
Statistics & Data Mining













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