Taking advantage of the SAP Business Technology Platform (BTP) for the cable industry

2 practical use cases

Nordenham – 27.04.2021

Prysmian Group

Linking the Future

Introduction

Introduction

Indicators for using SAP Business Technology Platform

Architecture, infrastructure & permission

Use Case 1: Operations Dashboard

Use Case 2: Time recorder

Experiences, obstacles & summary

A truly global group

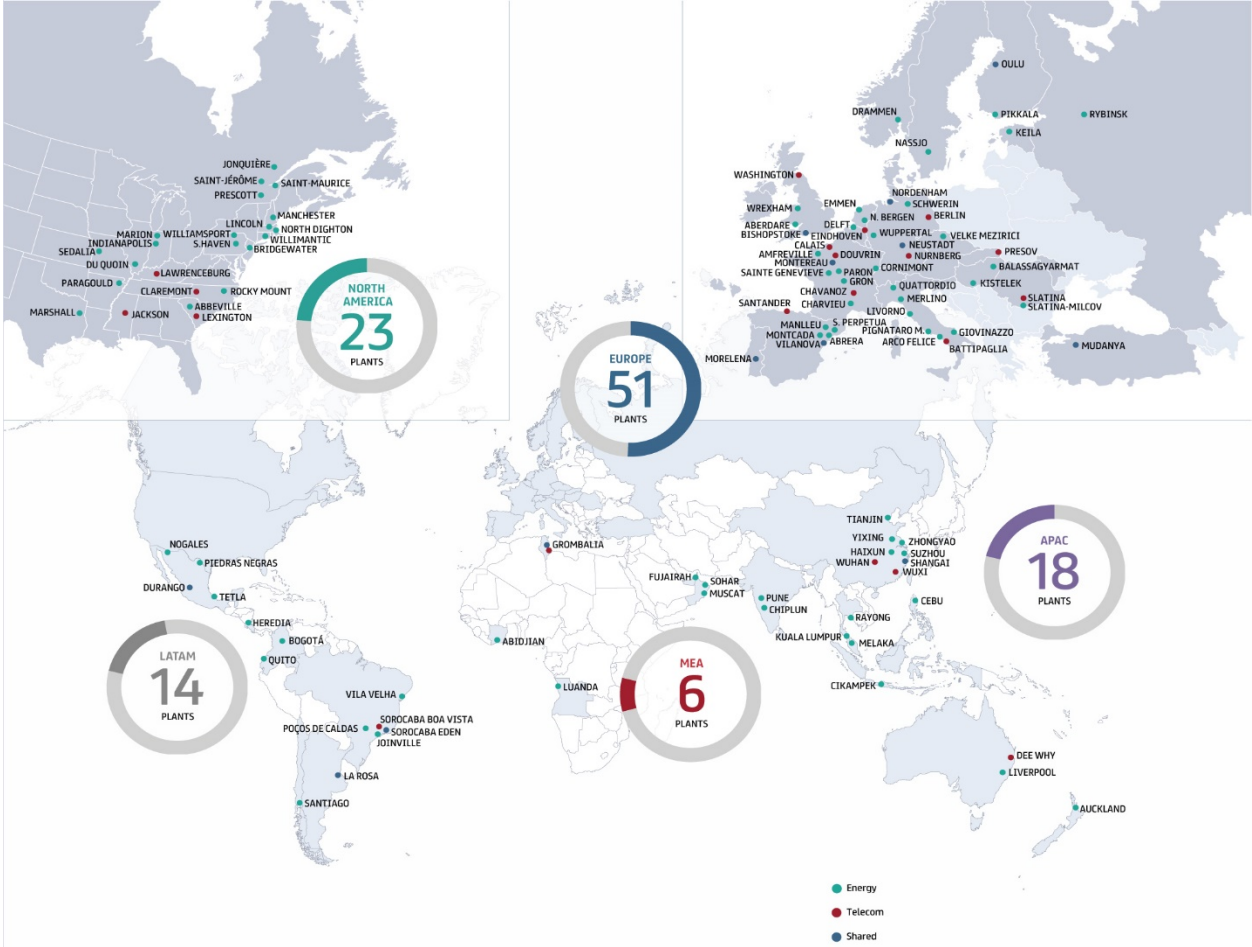
+50
COUNTRIES

112
PLANTS

25 R&D
CENTERS

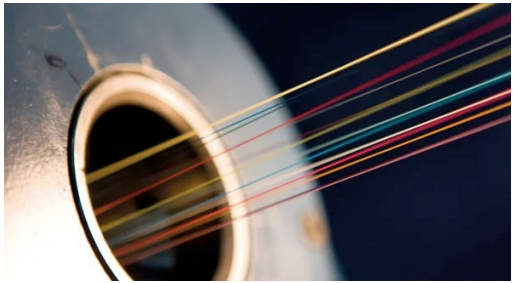
ABOUT **29,000**
EMPLOYEES

OVER **11**
BILLION ANNUAL
SALES [1]



The widest cable technology offer worldwide

POWER GRIDS
HV&Submarine / Transmission / Distribution / Offshore Wind Farms / Power From Shore / Asset Monitoring Systems / Network Components / Installation capabilities /Overhead



TELECOMS
Optical Fiber / Telecom Networks / Multimedia & Enterprise / Networks / Submarine Telecom

ELECTRONICS
PRY-CAM Asset Monitoring Solutions / Partial Discharge Measurement / Diagnosis

CONSTRUCTION & INFRASTRUCTURE
Power & Control / Multimedia / Railways

TRANSPORTATION & MOBILITY
Elevator / Aerospace / Automotive / Trains & Trams / Marine

INDUSTRIES
Military & Defense / Mining / Crane / Nuclear Plants / Solar & Photovoltaics / Wind Turbines / Other Plants / Other Industries
Exploration & Production / Pipelines & LNG / Refineries & Petrochemical / Services

David Wagener

38 years

Project manager / IT-Analyst (SAP)

- IT apprenticeship in 1999
- 2002 – 2005: Active as an Oracle database developer for a CAFM software company
- 2006 - 2011: University of applied sciences Bremerhaven completed with Master degree
- 2011- 2013: Active as SAP developer/ consultant for a big energy provider in northern Germany
- 2013 till today: Active as Project manager / IT-Analyst (SAP) at NSW (Prysmian Group), mainly focused on Operations and Logistics but also firm with other technologies / methodologies like Business Technology Platform, ODATA, SAP Solution manager, BPMN, classical and agile project management, etc.

Indicators for using SAP Business Technology Platform (formerly SAP Cloud Platform)

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Indicators for using SAP Business Technology Platform

Initial situation 2018

- 1 agile development team with 5 team members without any previous experience
- Intension: “Technology changes rapidly → Business often does not know what is possible today”
- Also business made some change requests
- Decision for a Design Thinking workshop without any technical restrictions and prerequisites

Requirement analysis

- Design Thinking workshop
  - IT
  - Production management
  - Management
- Totally detached from existing systems and feasibilities
- In a second workshop we used SAP build services
- Some ideas for apps were born

Decision for BTP

- Based on the results of design thinking workshop (app ideas)
- By analyzing the requirements
- Opportunity to use SAP standard apps from Fiori App Library as well as self-developments

Architecture, infrastructure & permission

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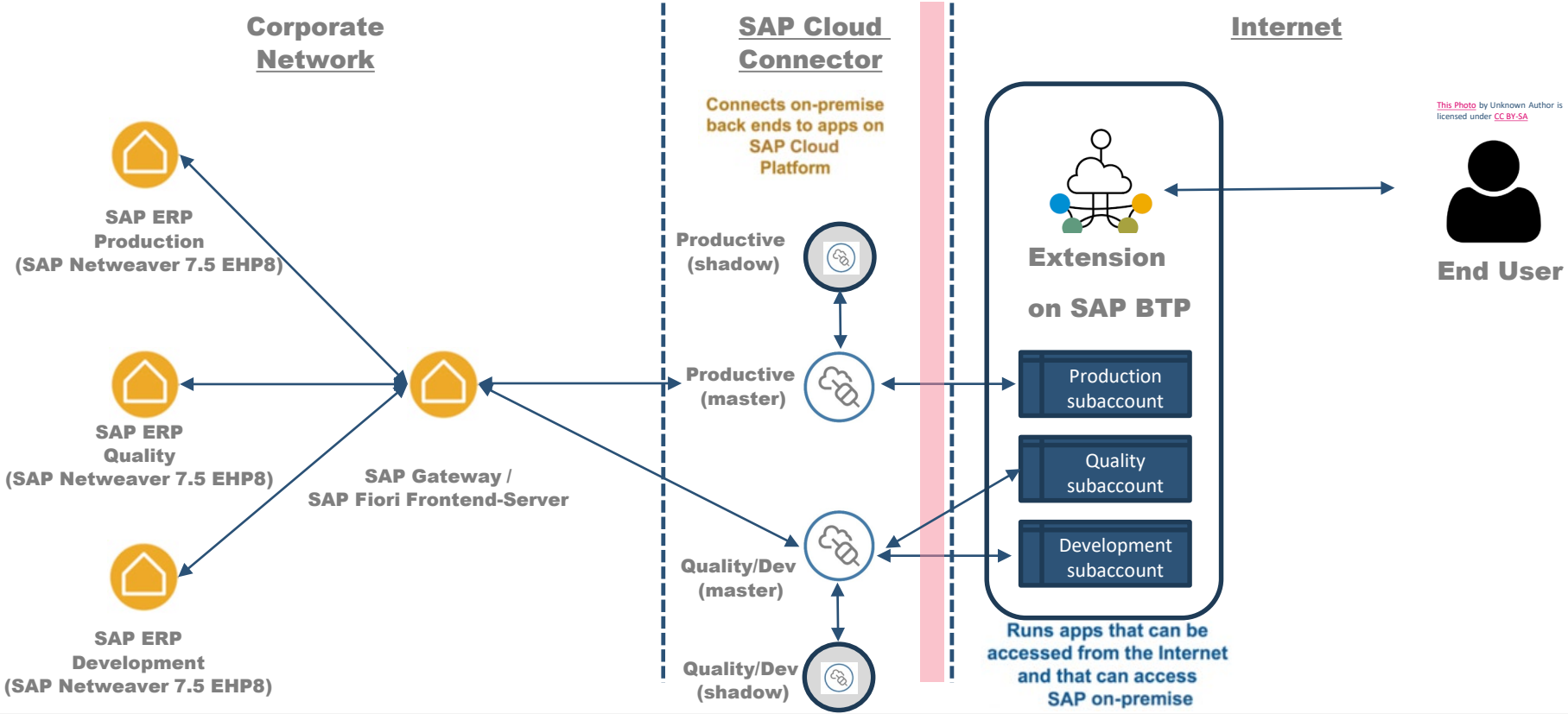
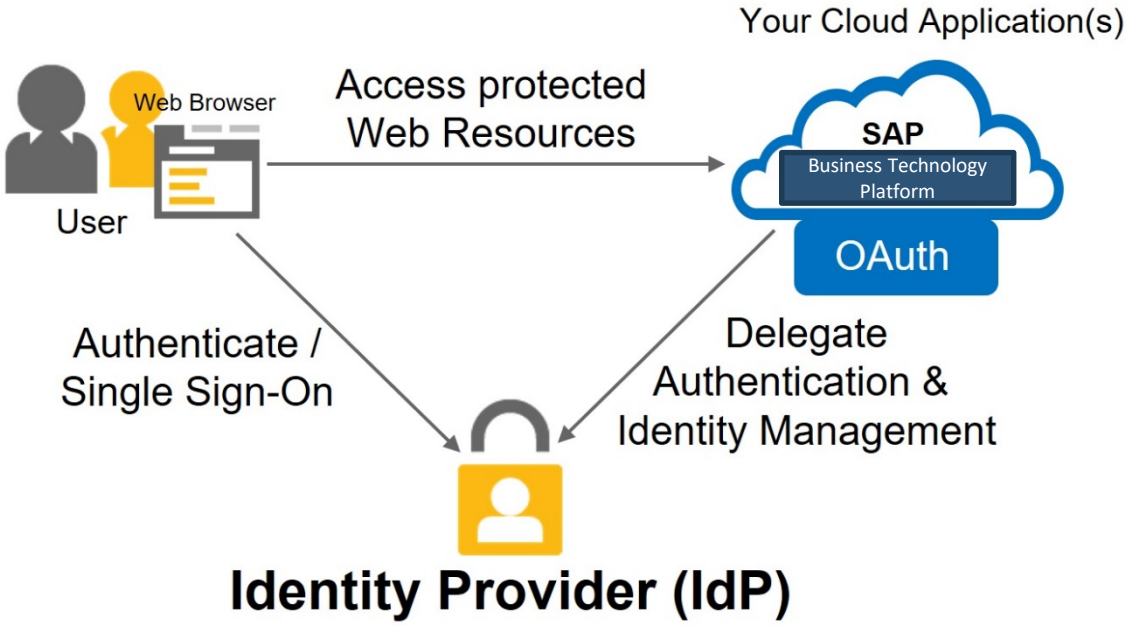
Network architecture



Authentification



Using SSO and own identity Provider → Only one login and no S-User-Accounts needed

Use Case 1: Operations Dashboard

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Experiences, obstacles & summary

Operations Dashboard introduction

Operations Dashboard Benefits

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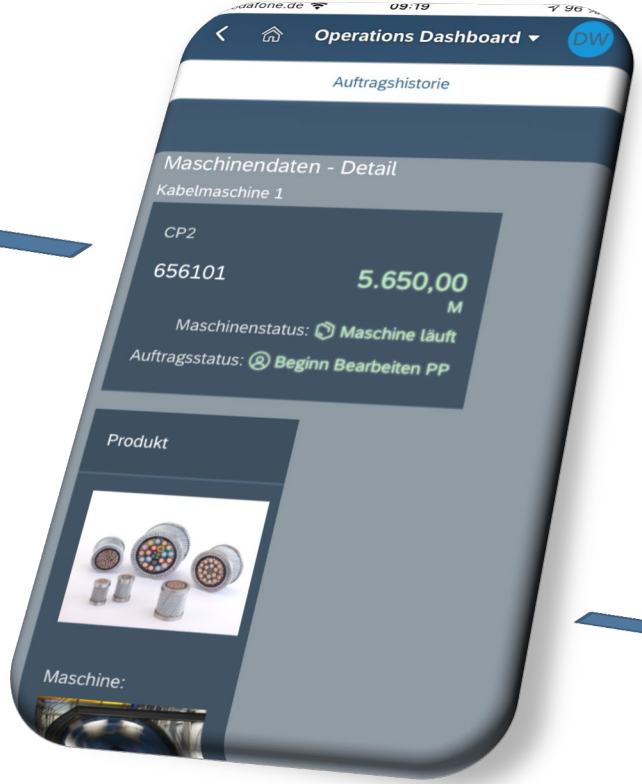

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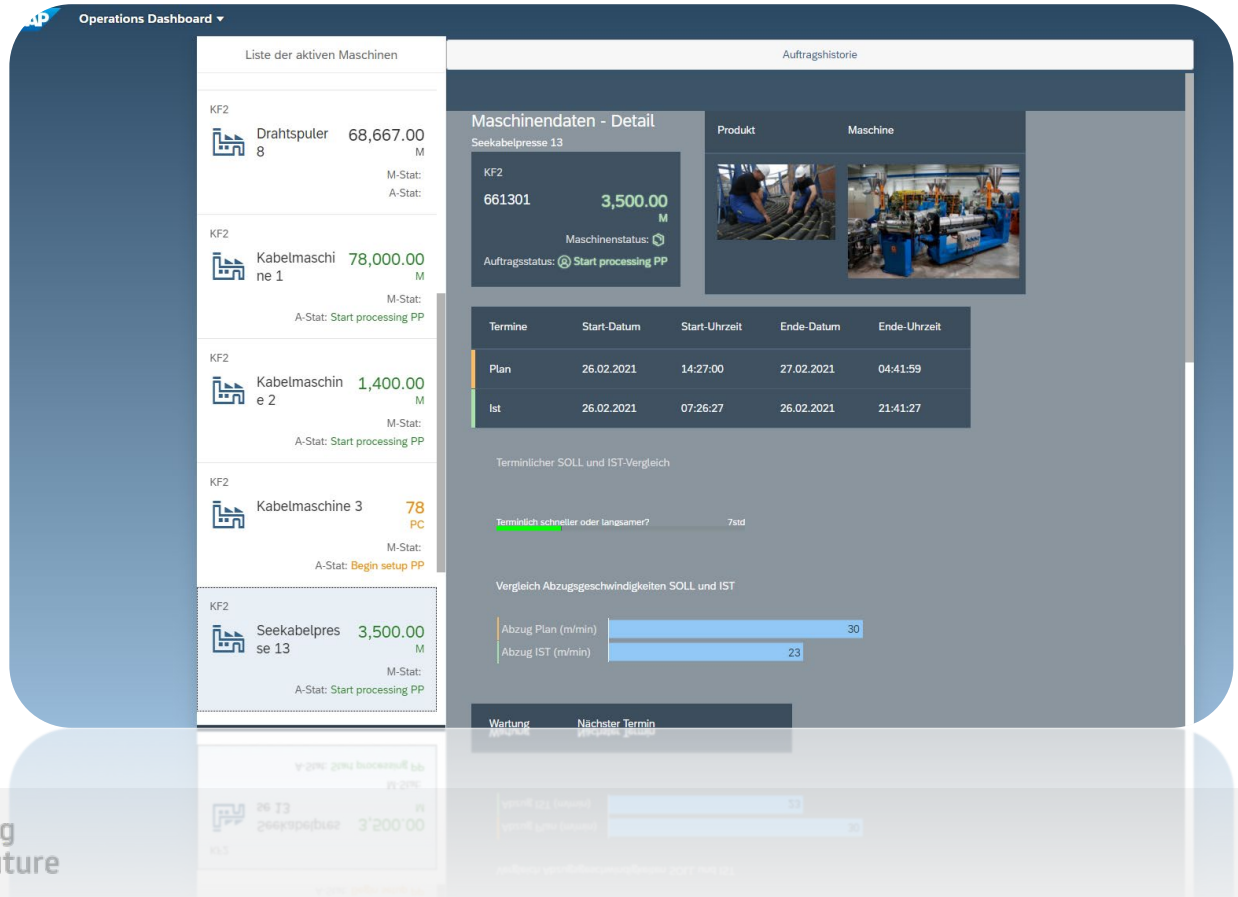
Short Demo


Operations Dashboard
Liste der aktiven Maschinen
Auftragshistorie
KF2
Drahtspuler 8
68,667.00 M
M-Stat:
A-Stat:
KF2
Kabelmaschine 1
78,000.00 M
M-Stat:
A-Stat: Start processing PP
KF2
Kabelmaschine 2
1,400.00 M
M-Stat:
A-Stat: Start processing PP
KF2
Kabelmaschine 3
78 PC
M-Stat:
A-Stat: Begin setup PP
KF2
Seekabelpresse 13
3,500.00 M
M-Stat:
A-Stat: Start processing PP
Maschinendaten - Detail
Seekabelpresse 13
KF2
661301
3,500.00 M
Maschinenstatus:
Auftragsstatus: Start processing PP
Produkt
Maschine
Termine
Start-Datum
Start-Uhrzeit
Ende-Datum
Ende-Uhrzeit
Plan
26.02.2021
14:27:00
27.02.2021
04:41:59
Ist
26.02.2021
07:26:27
26.02.2021
21:41:27
Terminlicher SOLL und IST-Vergleich
Terminlich schneller oder langsamer?
7std
Vergleich Abzugsgeschwindigkeiten SOLL und IST
Abzug Plan (m/min)
30
Abzug IST (m/min)
23
Wartung
Nächster Termin

Use Case 2: Time Recorder

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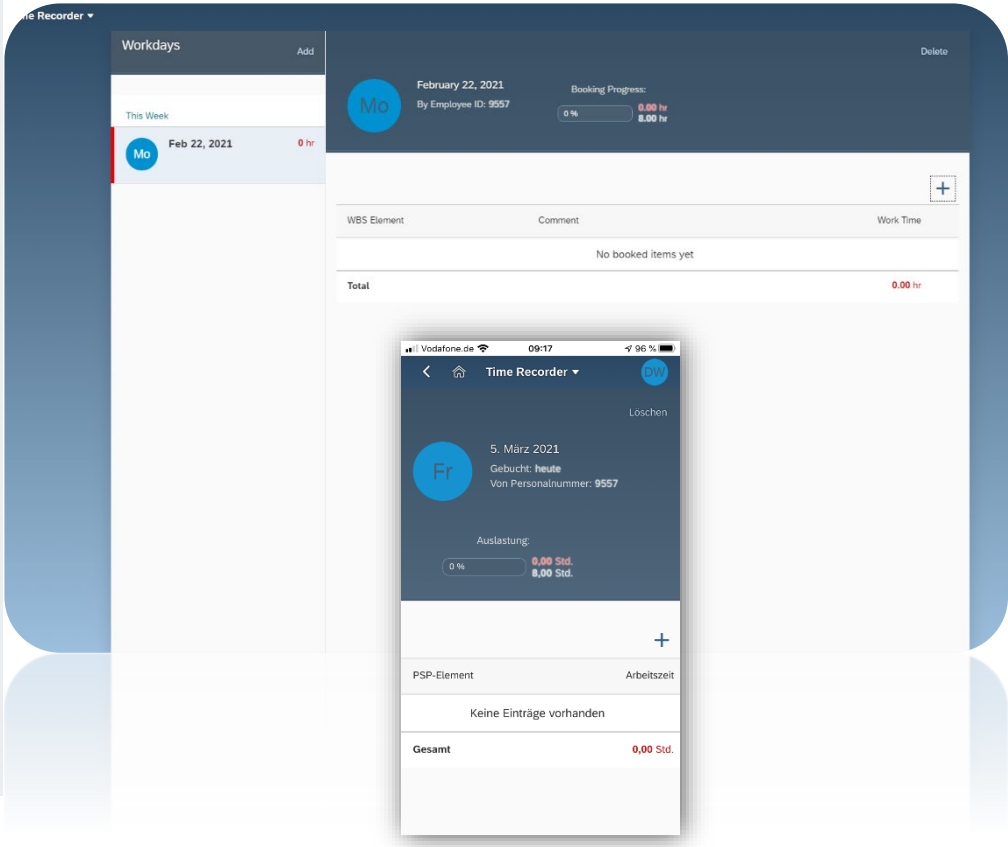
Time recorder

With Time recorder app you can track your time on the ERP Project System (based on Work breakdown structure) …

For each employee who is involved in the project

- On-site
- In the office
- On a ship
- Offshore
- Onshore
- Etc.



Time recorder Benefits

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Experiences, obstacles & summary

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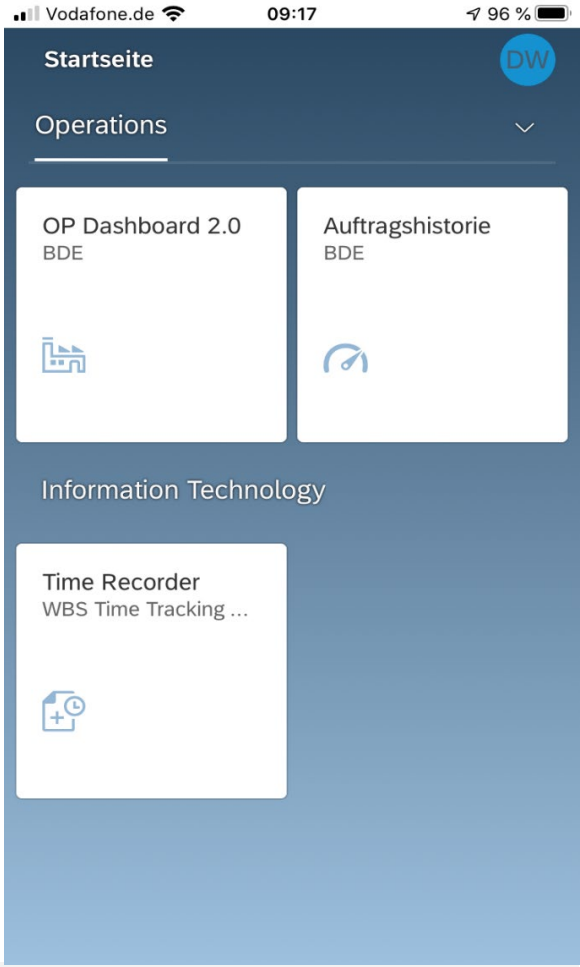
Experiences, obstacles & summary

- Project was implemented internally – only a few consulting hours needed
- Feedback from business was very positive
  - We could deliver faster (after each sprint)
  - User experience
- Implemented use cases a good starting point – but potential has not yet been fully exploited
- Partially very complex:
  - For example 4 months for environment and permission concept
  - Few documentations (in 2018)
- Each team member was given a technical area of responsibility → you need to create expertise
- Software development based on BTP and an agile methodology complement each other very well
- Important SAP note:
  2992772 - Removal of SAP Fiori Client From Public App Stores



Questions &
Answers
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Source directory

- Some pictures are from www.sap.com
- Other pictures are used from “Online picture” function in power point
- we have additionally worked with our own graphics and representations
- It is also possible that third-party graphics have been enriched with your own illustrations.

THANK YOU!!!
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