

Digital Transformation with the Microsoft Cloud

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1971



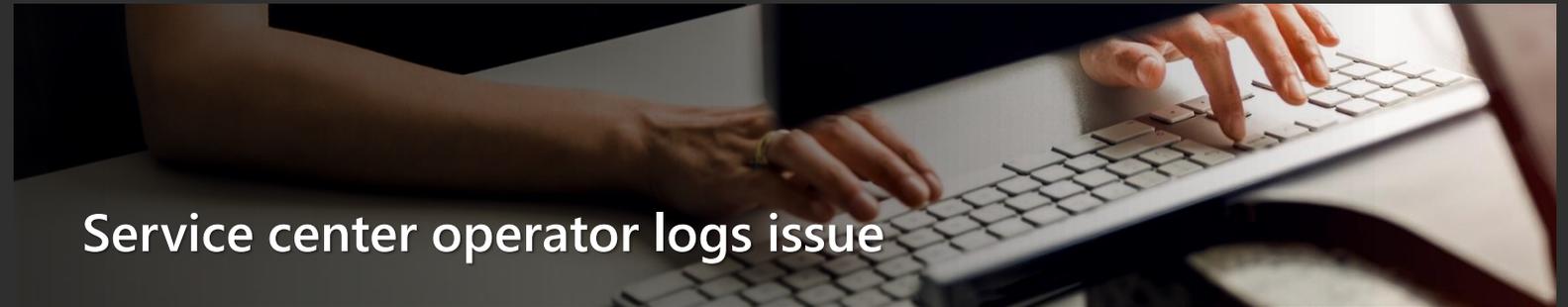
1992



2015



Reactive



Due for maintenance
01/14/2020

Metal to wear down in this part. Replacement backordered and to be shipped by 01/04. Detrimental to system if not applied immediately.

76%

Running at 98% capacity
Automated system engaged
24-hour motor function





EXIT

\$39

TAKE AN ADDITIONAL 20% OFF YOUR PURCHASE

RECEIVE 20% OFF WITH PURCHASE

Customer data recorded and applied

\$199

TAKE AN ADDITIONAL 20% OFF YOUR PURCHASE

40

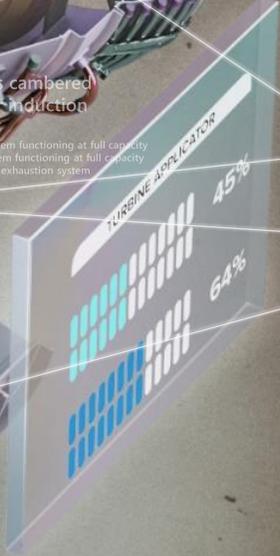
Smart device applies all sales available to items collected



Exhaustion system error reported to manager for further inspection

Intake fins cambered for proper induction

Compression system functioning at full capacity
Combustion system functioning at full capacity
Error detected in exhaust system



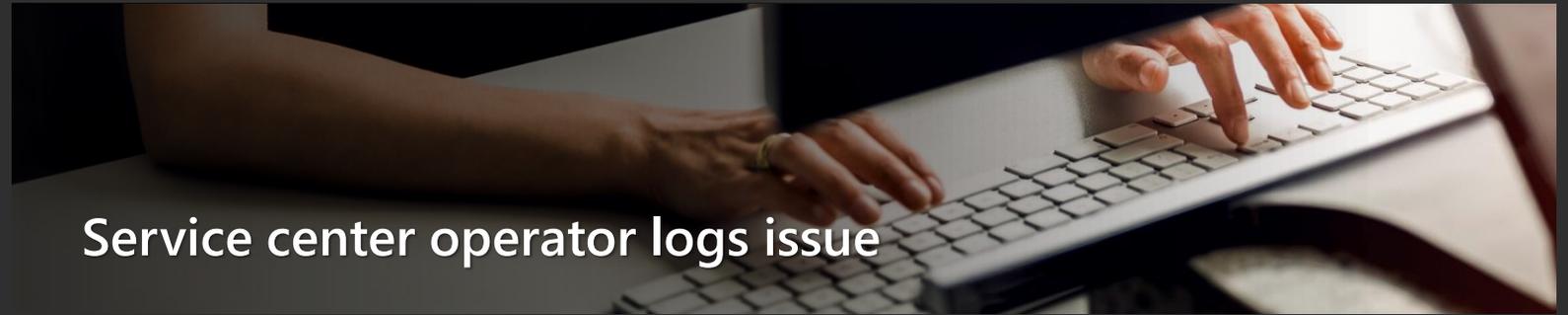
Calibrating torque rod arm at 8.5 inches



Reactive



Production line down



Service center operator logs issue



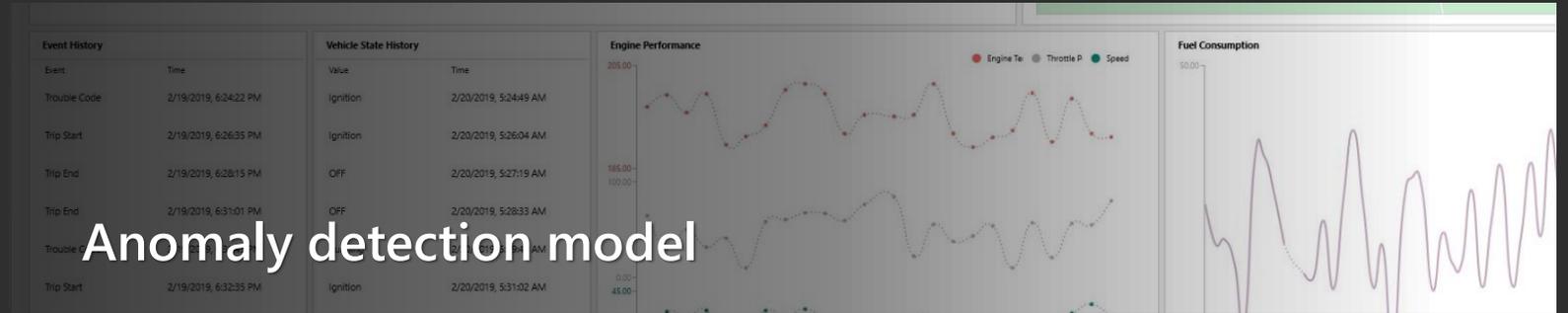
Emergency service visit



Customer disruption resolved



Data



Anomaly detection model

Proactive



Proactive maintenance visit



Customer never disrupted



Engage customers



Empower people



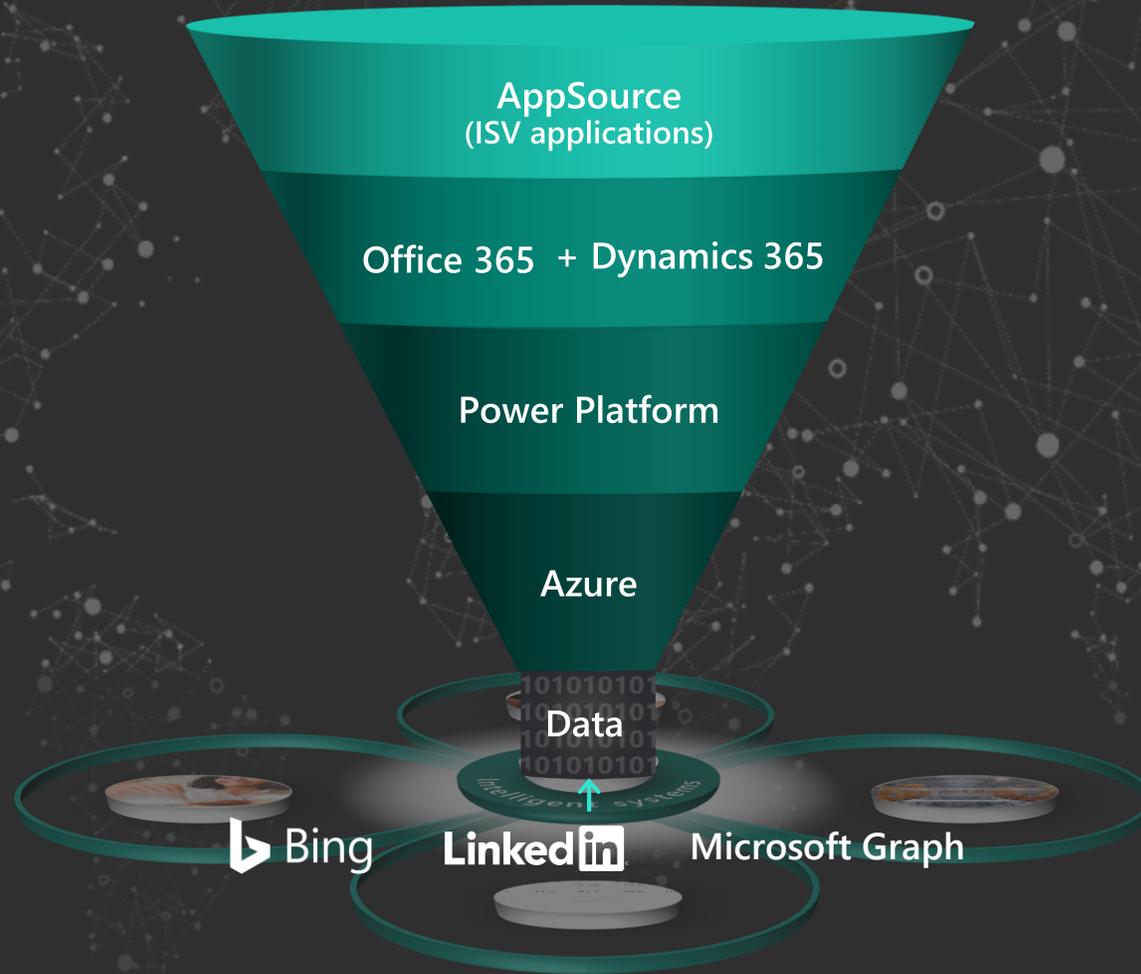
Transform products



Optimize operations



Digital feedback loop



“Microsoft 365, Dynamics 365, and the **Power Platform** on top of what we’re doing with Azure is the core of what we are doing as a company vis-à-vis I would say our commercial customers – businesses of all sizes, whether it’s small business, large business, whether it’s in an emerging market or in a developed market.”

--Satya Nadella



“We need to go faster”

IT application development is gravitating towards **low-code and high-productivity** application platforms to minimize cost and support rapidly changing business needs.

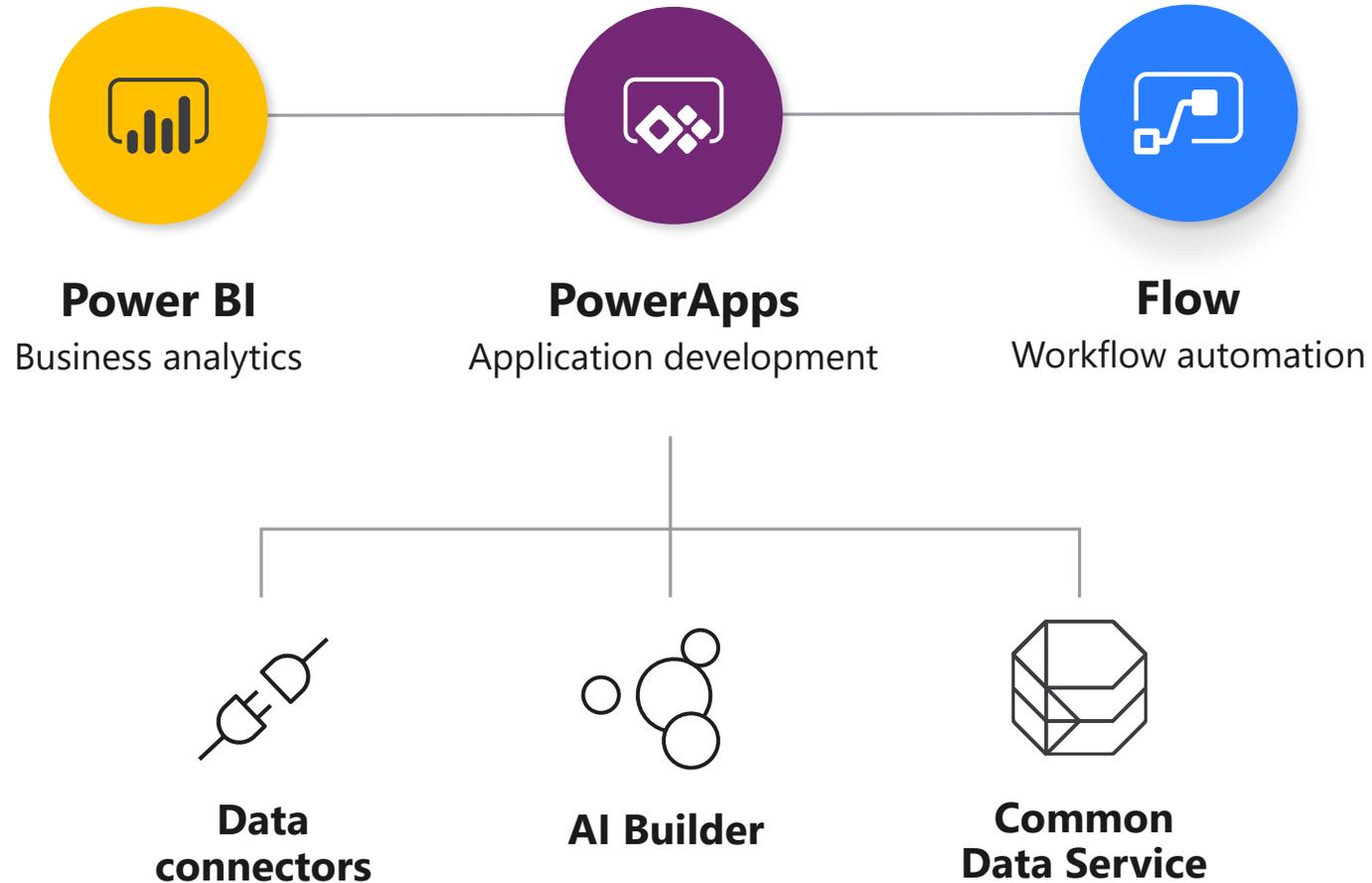
“We already have the data”

Essential part of these high-productivity application platforms is that they **natively integrate with existing business data** – e.g., CRM or ERP systems and existing business process applications.

Microsoft Power Platform

One low-code platform that spans Office 365, Dynamics 365, and standalone applications

Analyze. Act. Automate.



Power Platform at a glance

Analyze your data

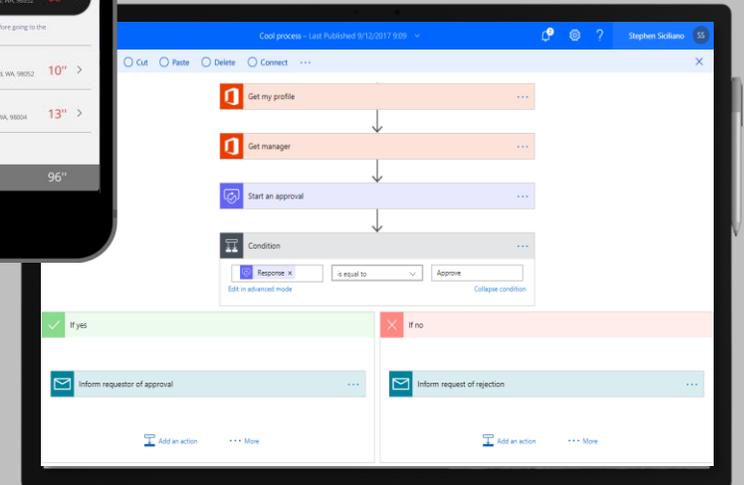
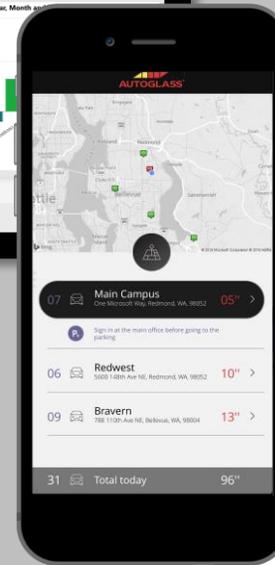
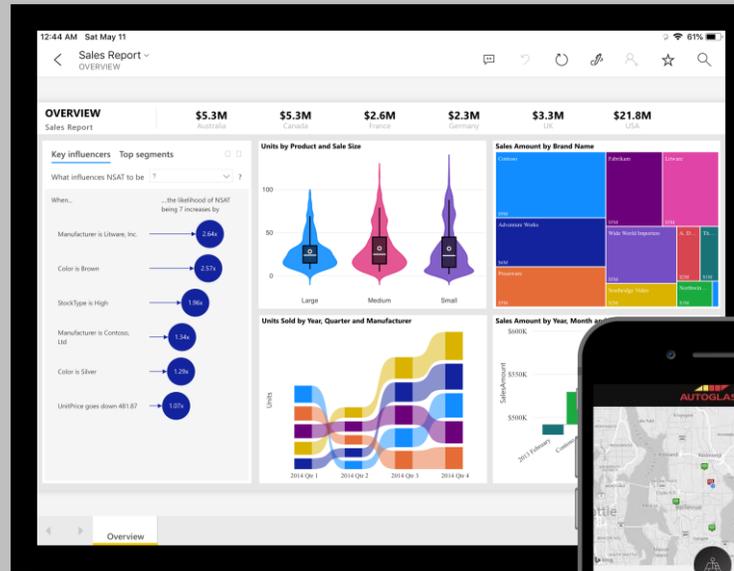
Gain insights to act on your data by highlighting key business problems to solve and determine a plan to evaluate insights post deployment.

Act on your data

Build apps to solve for key business pain points on CDS and use connectors to Azure, Dynamics 365, Office 365, and 270+ other systems. Leverage AI Builder for automation and extend them to external audiences via PowerApps Portals.

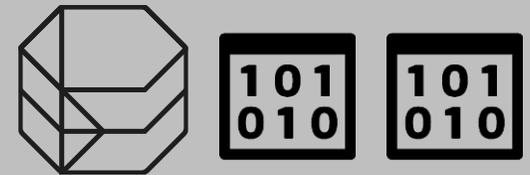
Automate your data

Create workflows that infuse desktop and AI automation to remove manual workflows and allow for productivity like never before.



Start with your data

Leverage CDS to unlock siloed systems like SAP and CRM systems. Consolidate processes and use the new data to kickstart your digital transformation.



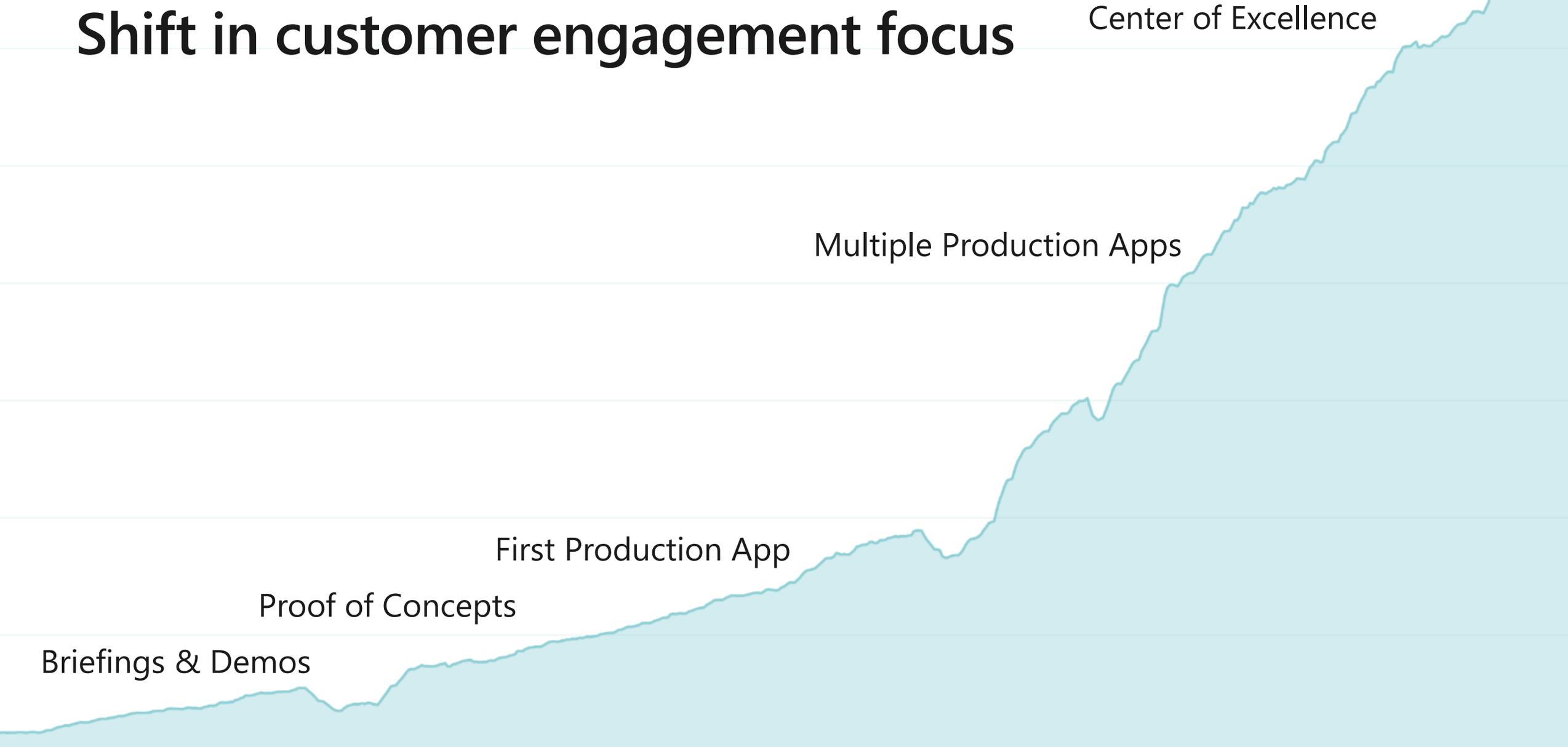
Power BI
**EXPLOSIVE GROWTH
& SCALE**

Usage growth



PowerApps – Explosive growth

Shift in customer engagement focus



Who is building solutions with the PowerApps?

1. Citizen developer enablement

Lower barrier of entry for app development

Power users in business units close to the problem building solutions for their teams

Often with IT oversight or in an approved sandbox

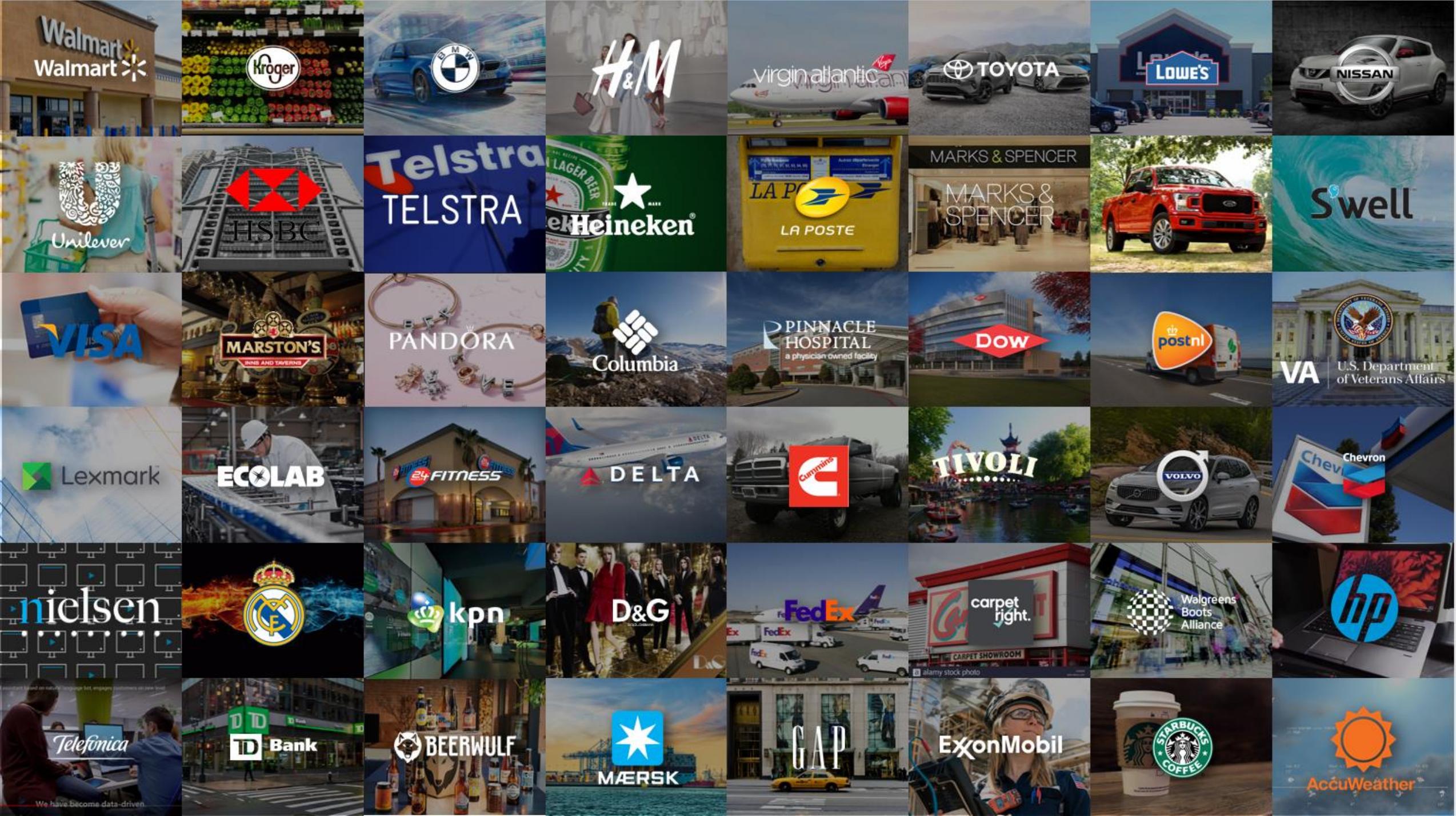
2. Pro-dev / IT productivity

Enables high productivity app development

Reduces time to develop and deploy

Centrally managed and rolled out





Walmart
Walmart

Kroger

BMW

H&M

virgin atlantic

TOYOTA

LOWE'S

NISSAN

Unilever

HSBC

Telstra
TELSTRA

Heineken

LA POSTE

MARKS & SPENCER



Swell

VISA

MARSTON'S

PANDORA

Columbia

PINNACLE HOSPITAL
a physician owned facility

Dow

postnl

VA
U.S. Department of Veterans Affairs

Lexmark

ECOLAB

24 FITNESS

DELTA

Cummins

TIVOLI

VOLVO

Chevron

nielsen

Real Madrid

kpn

D&G

FedEx

carpet right.

Walgreens Boots Alliance

hp

Telefonica

TD Bank

BEERWOLF

MÆRSK

GAP

ExxonMobil

STARBUCKS COFFEE

AccuWeather

We have become data-driven.

**Customer
examples using
Power Platform**

Schlumberger

Virgin Atlantic

SBB



Schlumberger

Schlumberger



Alan Chai

Head of Digital Transformation



Ladd Laird

Director, Mobility Studio

Microsoft Business
Applications Summit

Who is Schlumberger?

World's leading provider of technology for **reservoir characterization, drilling, production, and processing** to the oil and gas industry



* Activity
Event Name
Activity Date
31/12/2007
Combined Total Distance (Kms) # of Participants



How did we get started

ACTIVE EUROPE '19
Schlumberger SAFE

76 PEOPLE HAVE BEEN ACTIVE TODAY

GET moving

Yammer Posts (those posted through the app)

yammer

Coming soon!

My Profile Search Profile FAQ Leaderboards Submit

EUROPE

ACTIVE EUROPE '19
Schlumberger SAFE

MY PROFILE

Progress Submissions Badges, Medals Gallery

🏃	10 mins	🗑️	✍️
🏃	40 mins	🗑️	✍️
🏃	80 mins	🗑️	✍️

My Profile Search Profile Home Leaderboards Submit

ACTIVE EUROPE '19
Schlumberger SAFE

EUR LEADERBOARDS

April '18

My Profile Search Profile Home Leaderboards Submit

ACTIVE EUROPE '19
Schlumberger SAFE

Create Your Team

Test Teams

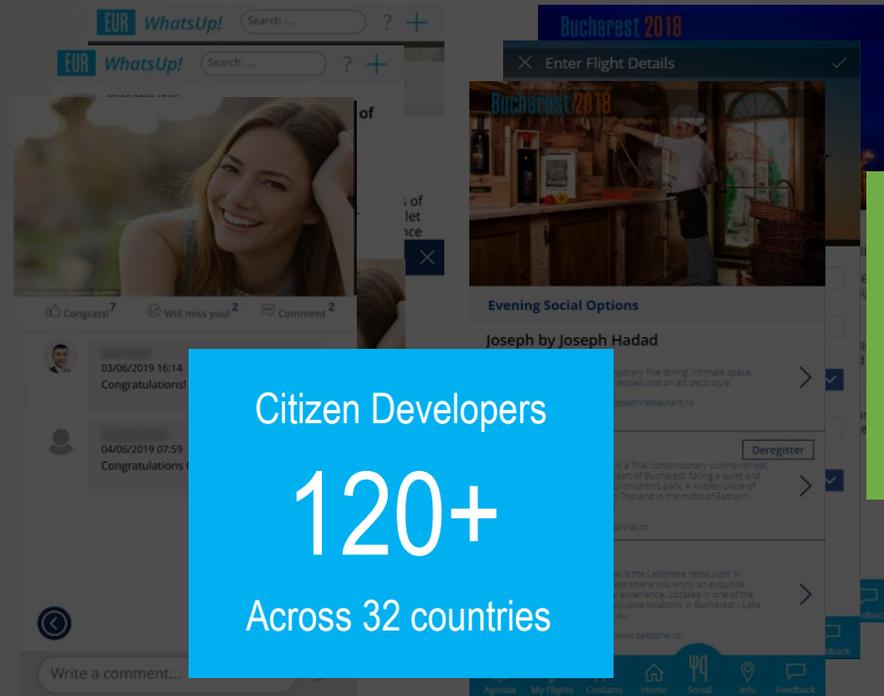
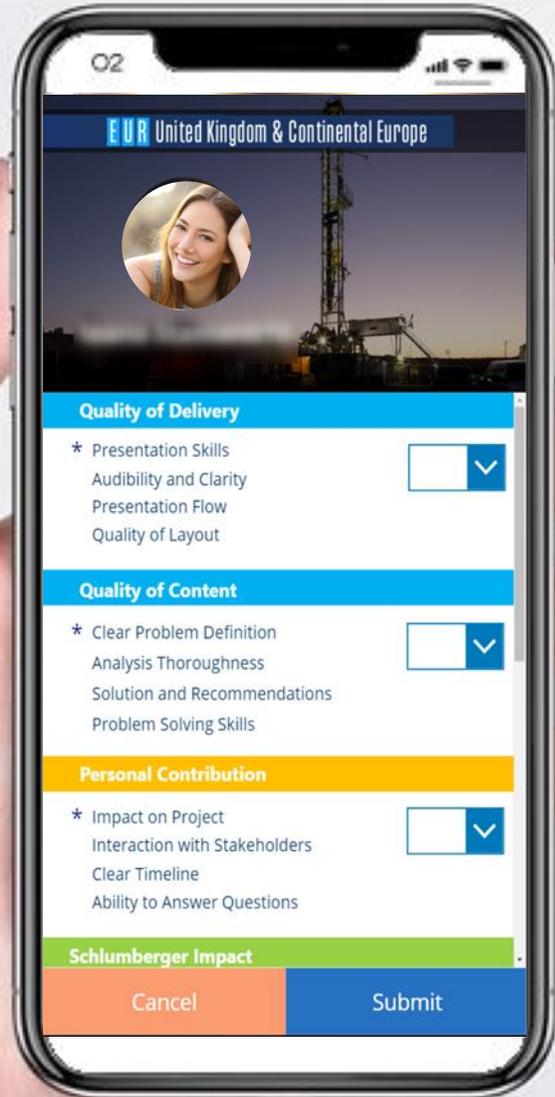
MY TEAM MEMBERS

My Teams Home Create Your Team Now

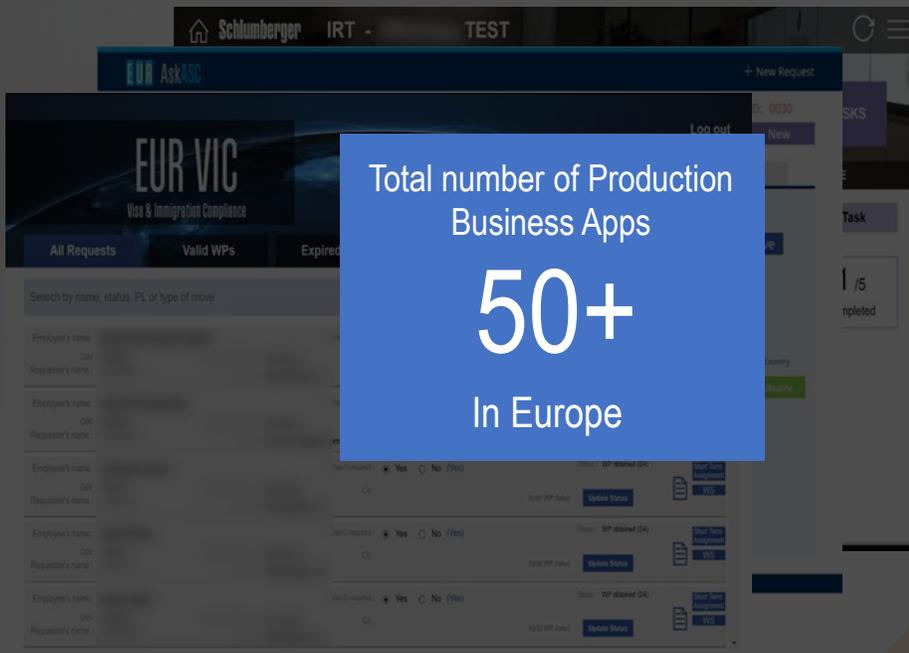
... *Get Active!*

1970-2018

Schlumberger Europe Apps

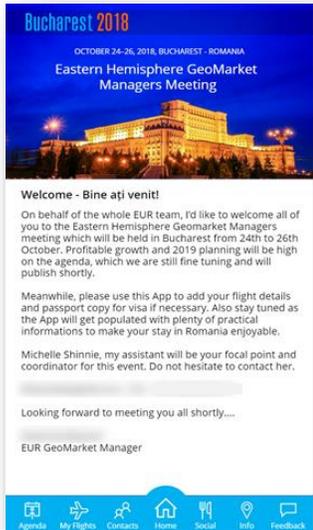


Average App Built-Time
2 hours



Time to train up a Citizen Developer
1~2 week

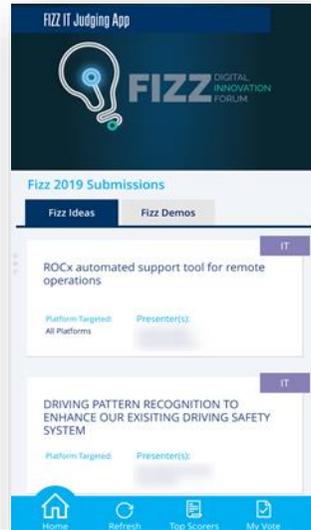
Schlumberger Europe Apps



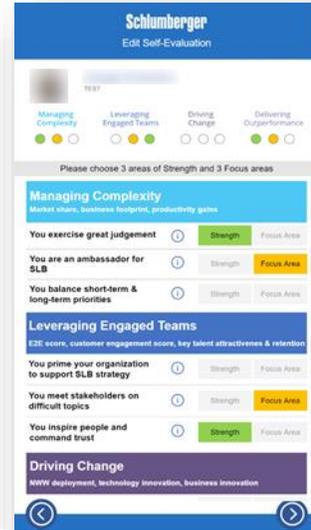
Event Portal



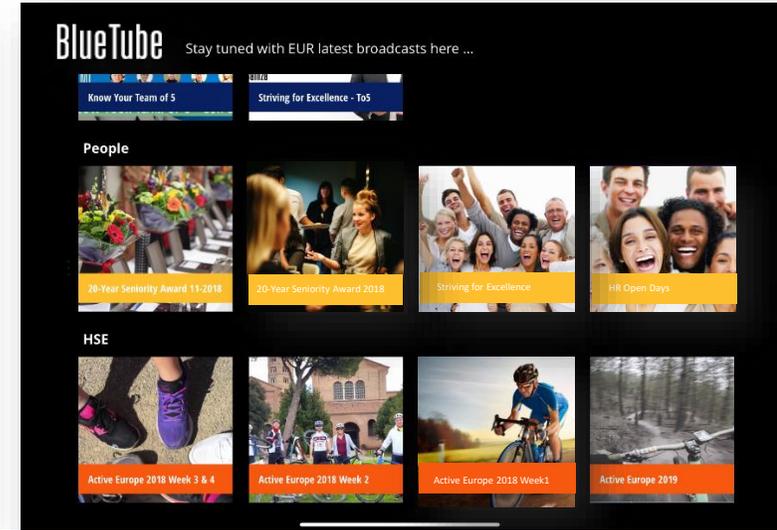
Workshop Feedback



Rating App



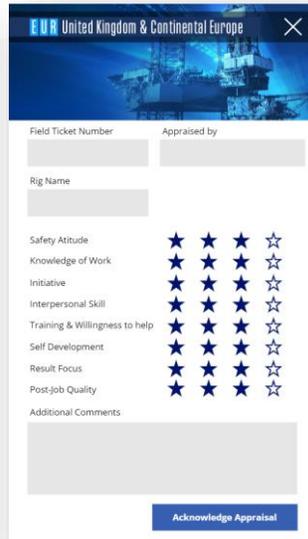
CEO-1 Appraisal



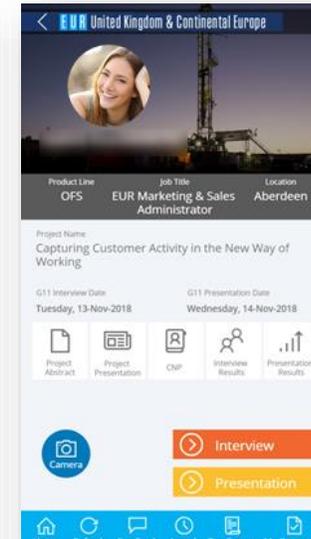
Video On Demand Portal



People Announcement



Operators Appraisal



Career Fixed Step



Event Management



Legal Operations Guidelines - eBook



Oil Prices



Schlumberger

Digital Transformation



“The future is digital, the future is ours!”

Olivier Le Peuch, Schlumberger COO

An aerial view of a large industrial facility, likely an oil or gas processing plant. The image shows a complex network of pipes, walkways, and large pieces of machinery. The color palette is dominated by yellow and blue. In the center, there is a large white structure with a grid-like pattern. The overall scene is brightly lit, suggesting an outdoor or well-lit indoor environment.

Schlumberger

Digital Strategy – The 5 Layers of Execution



	Build Time	Lifetime	
 Self-service	1-2 weeks	6-12 months	Decentralized IT
 Digital Cells	3-6 months	6-24 months	
 Digital Studios	3-6 months	6-24 months	Centralized IT
 Digital Products	1-2 years	5-7 years	
	7 years	10-15 years	

Hackathon Summary



30+
Countries



400+
Participants



106
Teams



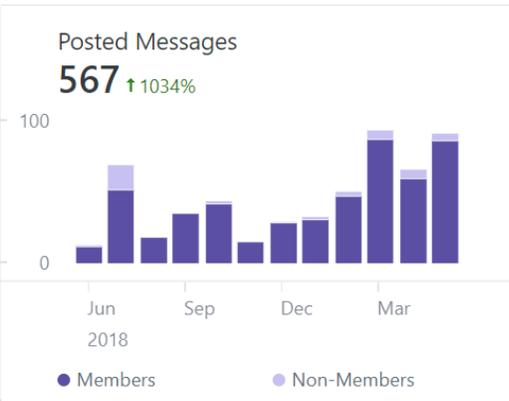
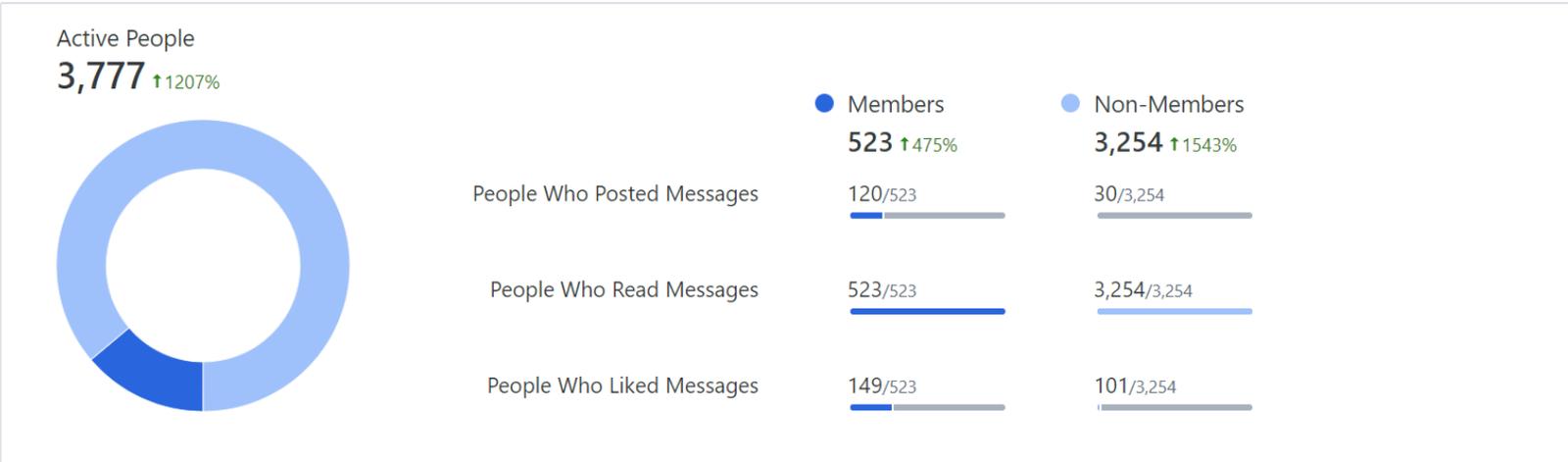
61
Apps



29
Mentors

Creating a PowerApps Community

Last 12 Months ▾ PowerApps Group



SLB PowerApps Today



10,000

Monthly Active Users (MAU)



1300

Apps (300 production)



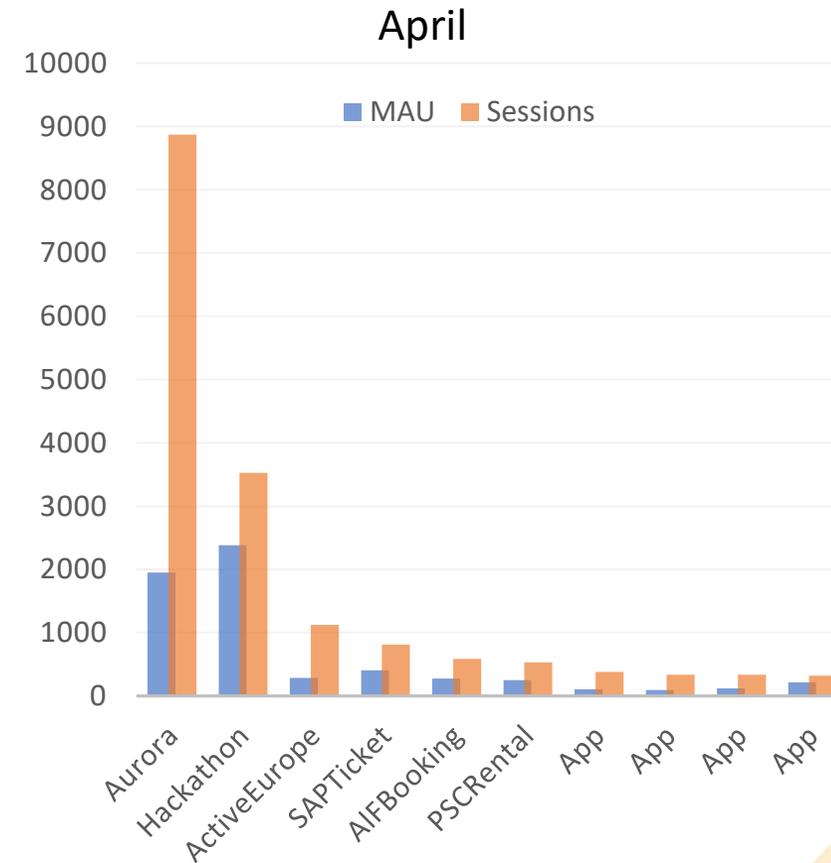
400

Creators

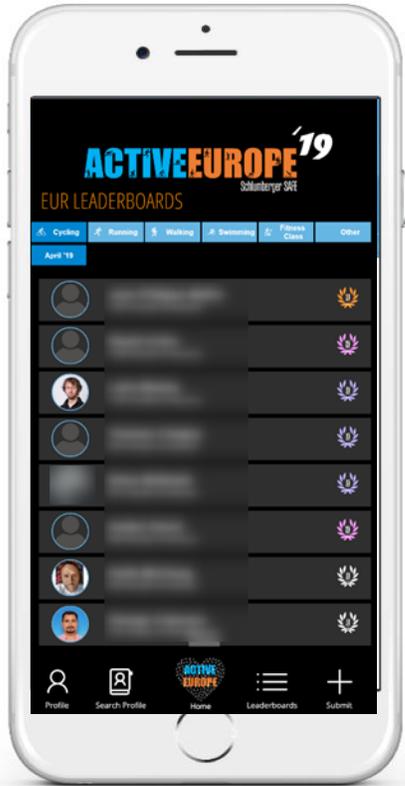


86

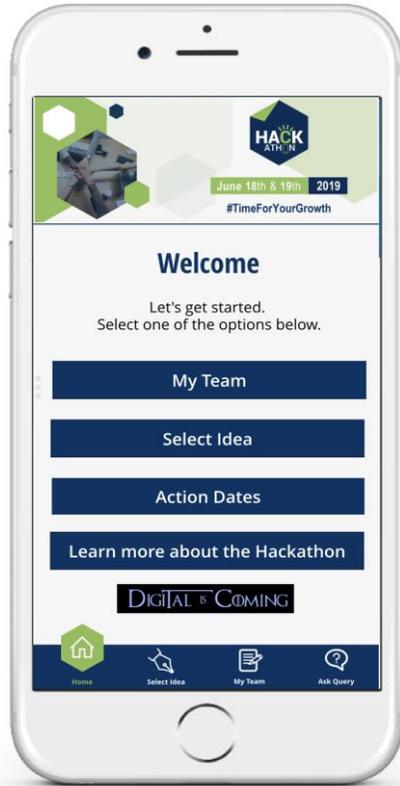
Countries



SLB PowerApps Today



1100 MAU



3500 MAU

Create SAP Ticket

If you are opening this request for SOMEONE ELSE, please insert THEIR SLB Alias:

800 MAU

REQUIRED ONLY IF OPENING ON BEHALF OF SOMEONE ELSE

*Issue is related to

REQUIRED

*Product

REQUIRED

*ITT Release

REQUIRED

*Short Description

EXAMPLE

*Details of Request

EXAMPLE

TCode / R

ENTER IF

Impact

NOT RE

Urgency

NOT RE

Attachment

Choose

Back

Schlumberger

Rooms Booking Count

600 MAU

AI Forsan Booking System



Ladd Laird

Mobility Solutions Leader

Product Line/Function: IT

Country of Assignment: US

Recognition Credit Balance: 990/1000

Current Quarter AURORA Points:100

Annual AURORA Points:210

HR Calendar

Life Event - eCards

Feedback

Help

Leaderboards

Recognition

Question of The Day

Knowledge

HSE Training

Surveys

HSE Reporting

9000 MAU

MAU = Monthly Active Users

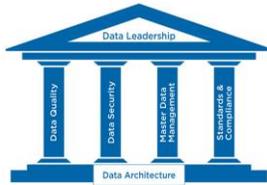
Schlumberger

Creating Value Through a COE



Community

Promote Awareness, self service, use cases, & business outcomes



Governance

Environments, Master Data, Security, DLP, Architecture



Self Service

Training, resources, best practices, reusable components



Empowerment

On Demand UX, Dev, Support, Solution Architecture

COE = Center of Excellence

Hackathon 2019



PowerApps Hackathon'19



PowerApps Nominations

960
Total Participants

156
Teams

449
Participants in Team

511
Individual participations

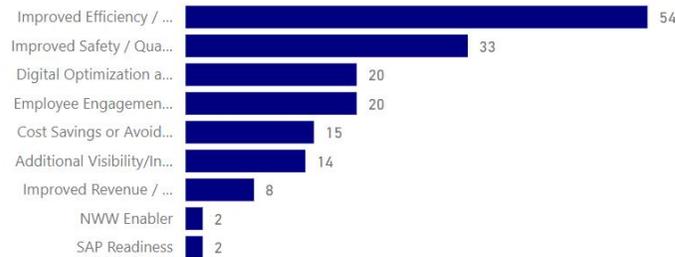
99
Number of Cities

168
All Ideas

Nominations by Location



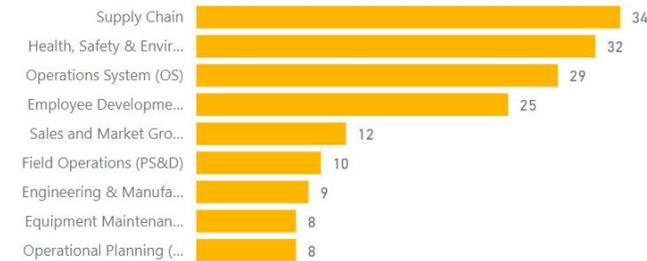
Ideas by Value



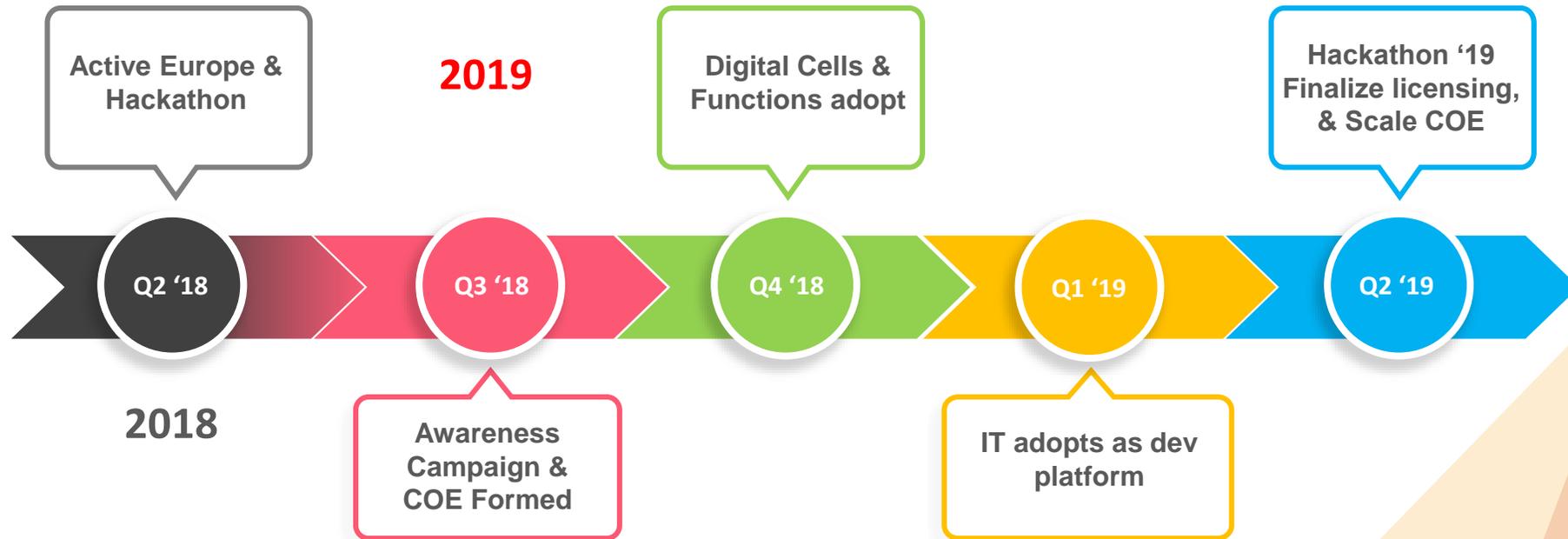
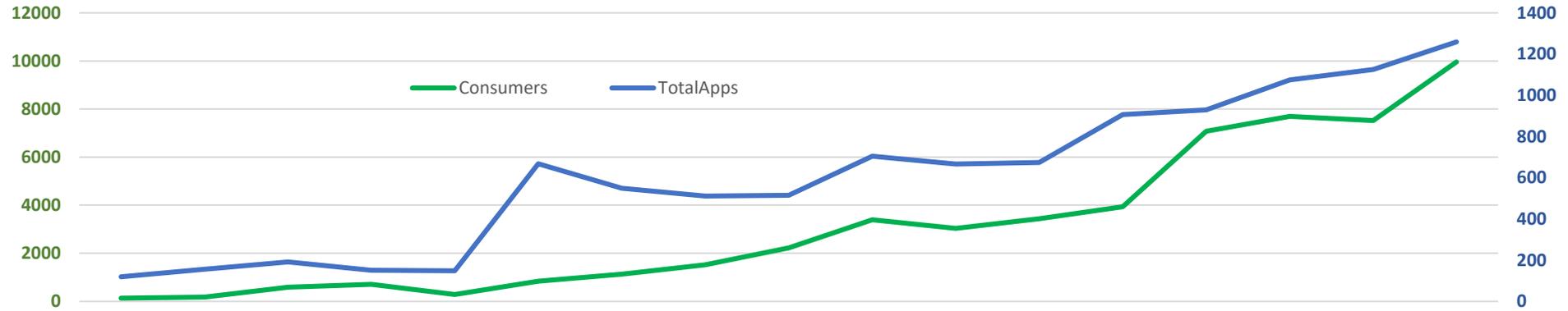
LEADERBOARD

Ideas	Votes
SLB InnovInspire	128
Ariba Projects Control Tool	103
C-MyPrice	103
Financial Dashboard	75
LoadChart Request On-The-Go	66
Sourcing performance monitoring App	58
W&HR Apps	57
Five Thousand Spies	52
Country Information and Visit Orientation	38
Audit\Inspection App	26
MyCIP	25
Customer Pre-Visit Briefing	24
Customer X-Ray	23
Total	1554

Ideas by Functions



PowerApps @ SLB Journey





Virgin Atlantic



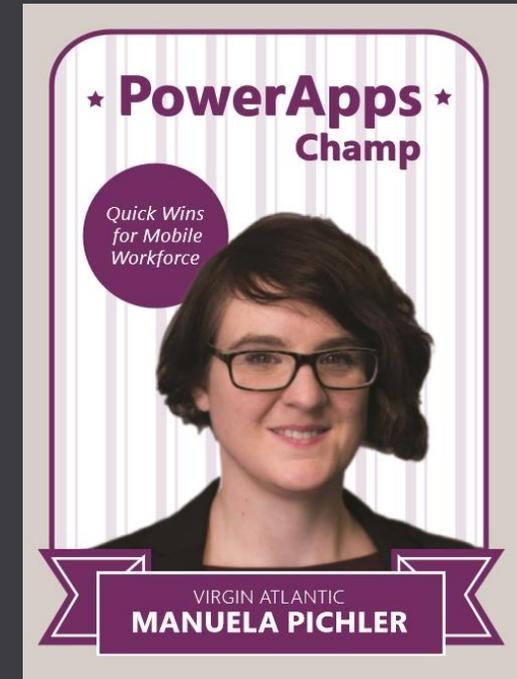
Virgin Atlantic



Manuela Pichler

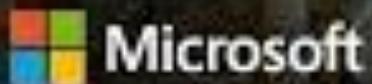
Manager – Business Systems Development

Microsoft Business
Applications Summit

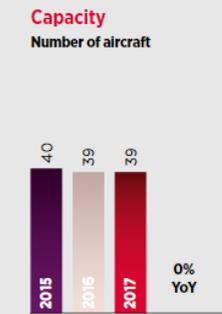




Virgin Atlantic creates
custom-built mobile apps
with PowerApps



Virgin Atlantic – who we are



The “IT Lite” team

Deliver quick wins, tactical solutions and proof of concepts

End to end engagement with business and IT

High performing and high trust environment

Ability to be agile and innovative

Building relationships

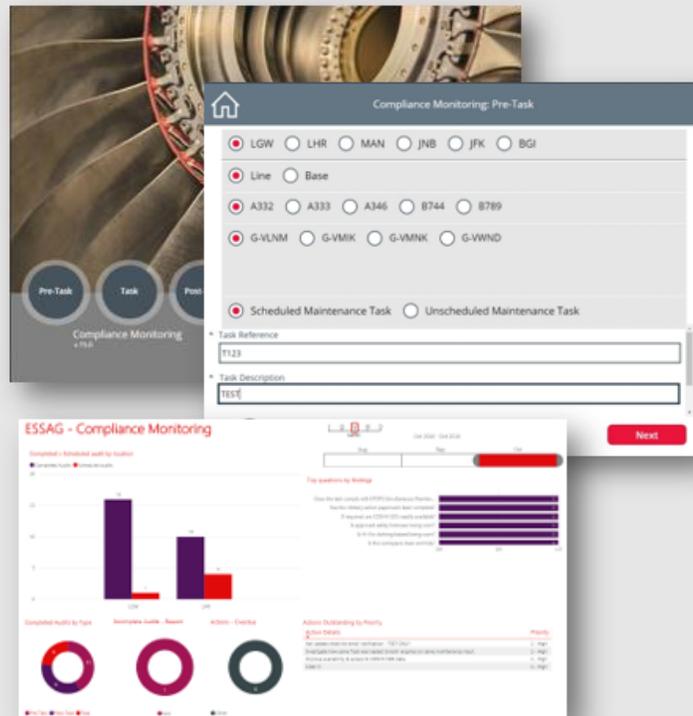


Virgin Atlantic – Mobile Workforce



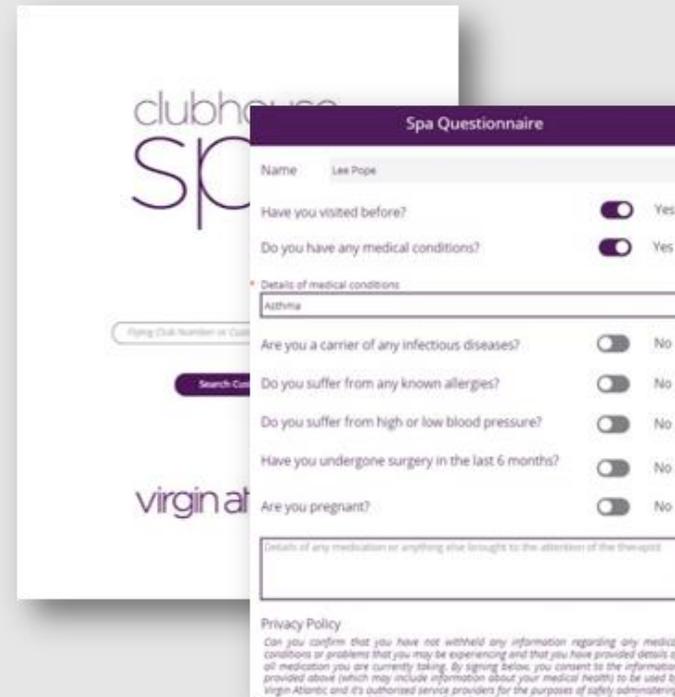
Journey and Examples

Compliance Monitoring



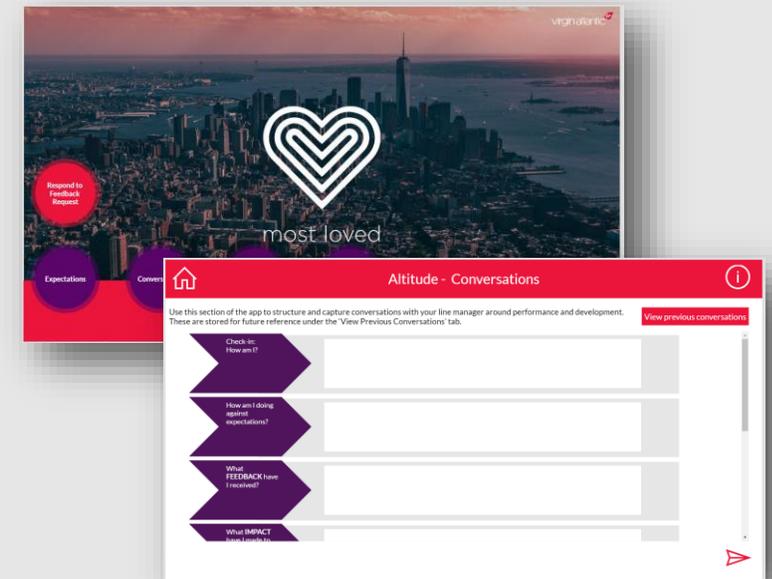
Replacing: Excel and paper
Data Source: **SharePoint**

Spa Questionnaire



Replacing: Paper
Data Source: **Dynamics 365**

Altitude



Replacing: third-party solution
Data Source: **SQL Server**

Supporting Citizen Developers

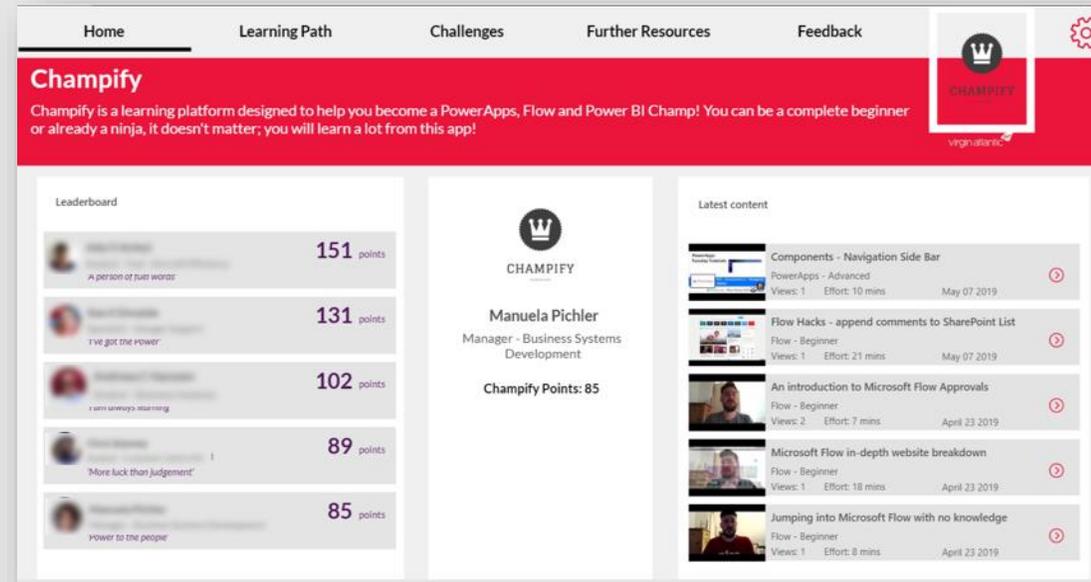
Learning Lunches and 1:1 sessions to help citizen developers achieve their goals

Hackathons to solve business cases

Workplace Group to share tips, success stories and **"show & tell"** of apps

"Welcome email" with learning resources and monthly newsletter with platform updates

Champify for self paced learning and Internal App In A Day



<https://aka.ms/champify>

Supporting IT

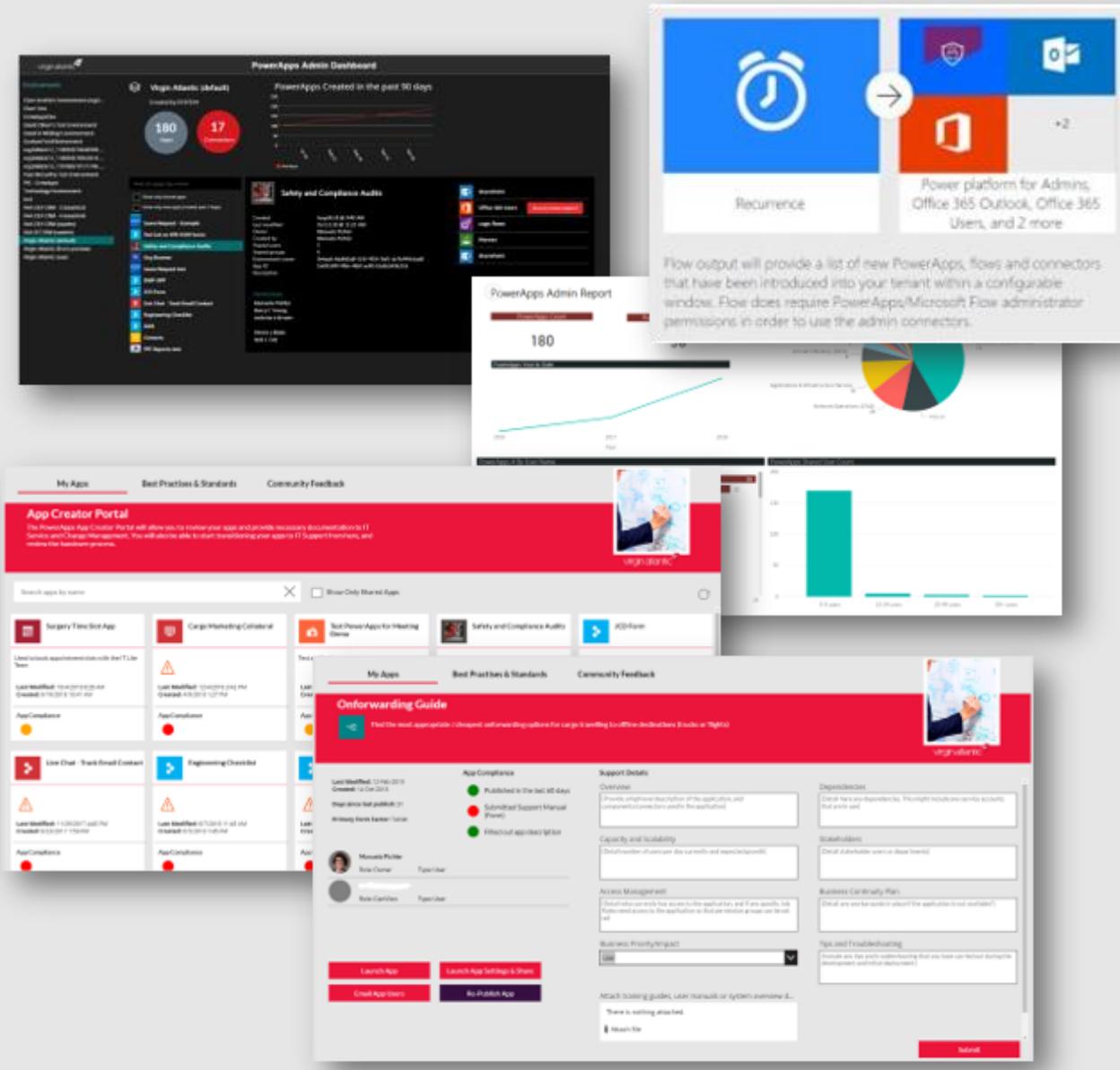
Admin Dashboard

SharePoint Online site to store material (whitepaper, code standards, handover documents) and share updates and new features

Flow to notify Ops Management and InfoSec about newly created apps

Learning Lunches and **Show & Tell** sessions

Compliance and Governance supported through **App Creator Portal**



Learnings

Engagement – build relationships with your end users, citizen developers and all parts of IT (Operations, Support, Architecture, Infrastructure)

Administration and Governance – admin connectors are powerful but not (yet?) the same as PowerShell script

Be part of the community - learn from others & help others learn!



Swiss Federal Railway SBB

Swiss Federal Railways SBB.

We are shaping the
mobility of the future.





Martin Zandegiacomo

Technical Consultant Office 365



- With SBB for 4+ years
- Started with PowerApps in March 2018
- In IT since 2009
- Coming from a system engineering path, not a software developer

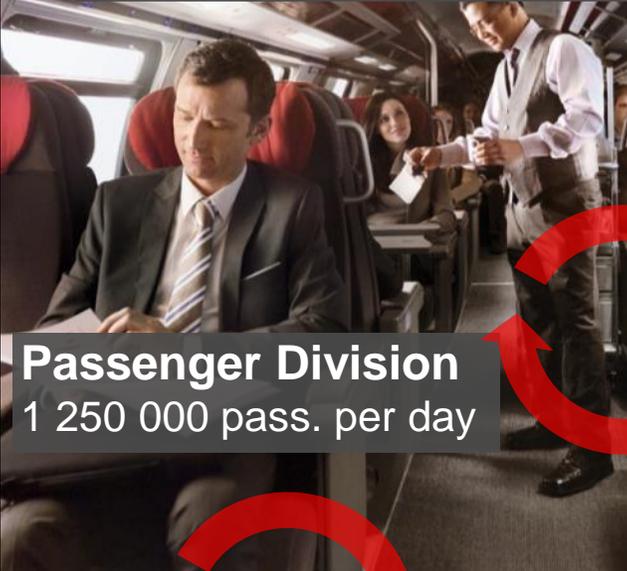
Rapid Solution Unit

- Providing fast, reliable and economic software solutions for our internal customers
- 26 Engineers
 - 2 Engineers for PowerApps, Flow and Power BI

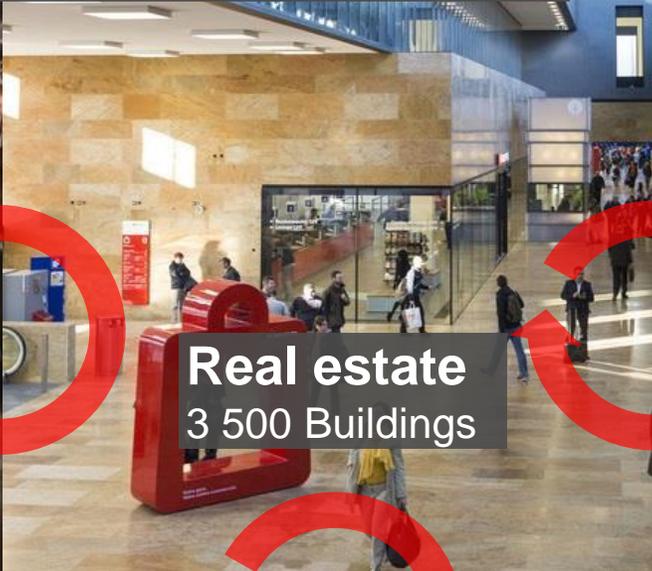


- Technologies provided
 - MS PowerApps, Flow, Power BI, SharePoint Online, Azure
 - MS Access, .NET, VBA
 - Lotus Domino, Java Web, Opentext DMS

We move Switzerland – every day.



Passenger Division
1 250 000 pass. per day



Real estate
3 500 Buildings



SBB Cargo
210 000 t of freight
per day



**Information
Technology**



Infrastructure
3 230 km of rail network
10608 trains on the network per day



With 32,300 employees from 98 countries in 150 different occupations, SBB is one of Switzerland's largest employers.

These are our challenges.



Customer requirements and mobility patterns are undergoing a transformation.



Competition from other forms of transport is increasing, due not least to increased transparency.



Whilst rail operators are facing rising **overall costs**, other carriers can potentially cut theirs by half.



New technologies are accelerating developments (safety, capacity, flexibility, environmental sustainability).



Coordinated planning of road/rail capacity is required.



Regulatory and spatial planning requirements are intensifying.



Public funds are growing scarcer.





PowerApps journey: from forms to apps.

Project «Form Migration»: Challenges.



Migrating 300 forms from 'on premise' to the cloud in order to be used in our award-winning intranet posed different challenges.

Time

Three Languages

Consolidation

Send Mails with Attachments

Mit diesem Formular können Sie Instandhaltungsvorschriften (IHV) für Schienenfahrzeuge ändern oder löschen lassen oder neue IHV in Auftrag geben.

IHV-Meldender	
Benutzernamen	<input type="text"/>
Name	<input type="text"/>
Vorname	<input type="text"/>
E-Mail	<input type="text"/>
Telefon	<input type="text"/>
OE	<input type="text"/>
Antragsdatum *	<input type="text"/>
Sicherheitsrelevanz	
Prüfrelevanz? *	<input type="radio"/> Änderungen nicht prüfrelevant gemäss K250.1 <input type="radio"/> Änderungen prüfrelevant gemäss K250.1
Falls prüfrelevant zwingend Dokumentennummer CAA des Prüfprotokolls angeben!	<input type="text"/>
Stichworte zum Thema *	<input type="text"/> max. 50 Zeichen (Bsp. System und Fz)
IHV-Vorgaben	
Verwendung *	<input type="radio"/> Technik <input type="radio"/> Clean <input type="radio"/> Revision <input type="radio"/> Kurativ <input type="radio"/> Modulare Revision

Verspätungsmeldung MOL-Züge

Sehr geehrte Damen und Herren

es verkehrt folgender Zug verspätet
 vorzeitig

Zug

Am *

Relation

Erster Wagen in Komp

Letzter Wagen in Komp

Ort

Kunde

Ware

Frachtbezeichnung

Prognose Verspätung

Bemerkungen/Grund

Für die Absprache des weiteren Vorgehens steht Ihnen der Bereich Kundeninfo zur Verfügung:
+41 79 821 88 38

Fixe Empfänger

Weitere Dienste CIS-TP13

Produktionsbereich Ticino

Produktionsbereich Rhône

Produktionsbereich

Overtime Reporting App.

- Overtime reporting for train crews
- 90% mobile users
- Used 4500+ times since January
- Used by 2200+ Users

Formular Reservetzettel de

Empfänger: Zugpersonalsteuerung (ZUE255)

Absender

Suche U-Nr, Name, Mail

* Benutzerid
221501

Anzeigename
Zandegiacomo Martin (IT-SCG-K)

Nachname
Zandegiacomo

Vorname
Martin

Mail
martin.zandegiacomo@ebb.ch

Telefon
+41 79 505 30 20

OE
IT-SCG-KB-RSU

* E-Mail Vorgesetzte/r (erhält eine Kopie)
Find items

* Depot

* Tour

* Datum der Tour
31.12.2001

Zeiterfassung

* Arbeitsbeginn (hh:mm)

* Arbeitsende (hh:mm)

Zug 4

gemäss Fahrplan

effektive Zeit

im Auftrag von

Grund

Bemerkungen

Senden

Adding value to the forms.



Language Switch



Sammelformular Automatenstörung

Bitte Formular wählen
Automatenstörung - Auszahlung max. CHF 20

Direkte Auszahlung des Betrages - keine Abklärungen des Differenzbetrages nötig

Betrag CHF
vom Kunden geforderter Betrag

WS-ID
Automatennummer (8-stellig) oder Beschreibung Standort

Meldestelle
Find items

Datum / Zeit
17.05.2019 10

Liste Billettautomaten

Report Sammelformular Automatenstörungen

Filter Einstellungen

Formularname
 Auszahlung Complaint Card - Automat KTU
 Auszahlung Complaint Card - Betrag NOK > CHF 20
 Auszahlung Complaint Card - Betrag NOK max. CHF 20
 Automatenstörung - Auszahlung > CHF 20
 Automatenstörung - Auszahlung max. CHF 20
 Fehldruck / Schwarzdruck / Entwertung 6. Fahrt
 Fehlerhafte Kartenbelastung

Bahnhof
Aarau
Affoltern am Albis
Aigle
Amriswil
Arbon
Arth-Goldau
Baar
Baden
Basel SBB
Bern
Biel/Bienne
Brig
Brugg AG
Brunnen
Bülach
Burgdorf
CC Brig
Chur
Delémont
Dielsdorf
Dietikon

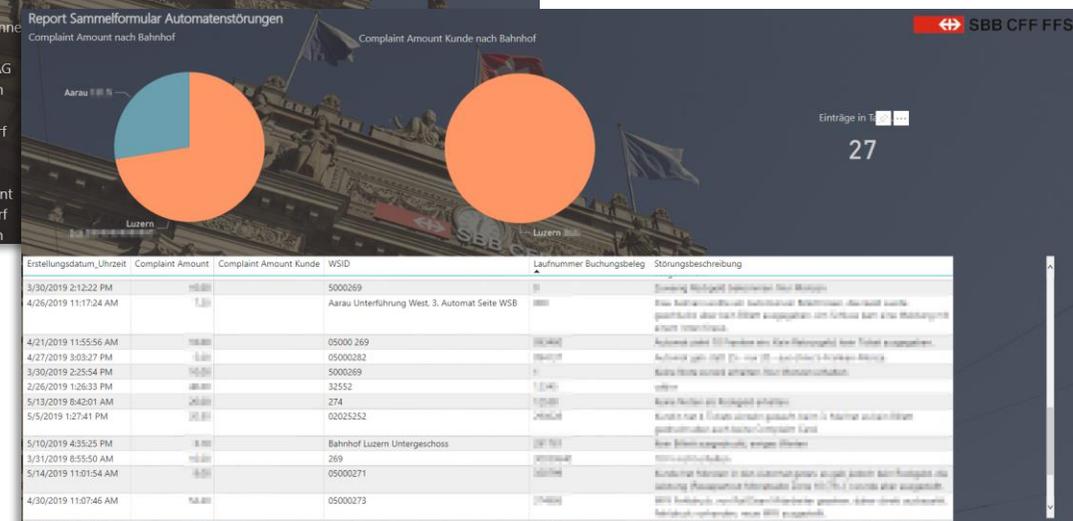
Erstellungsdatum
26.02.2019 17.05.2019

Reporting using Power BI

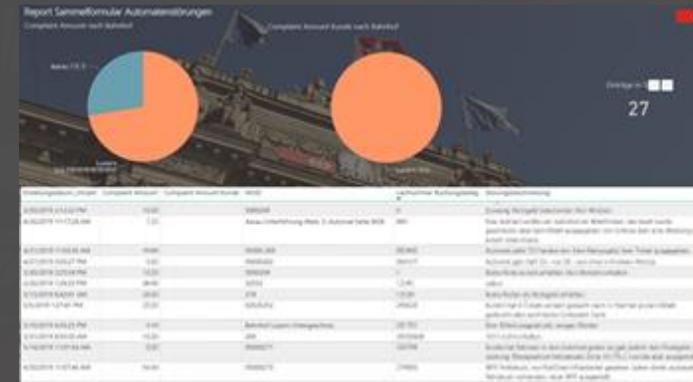
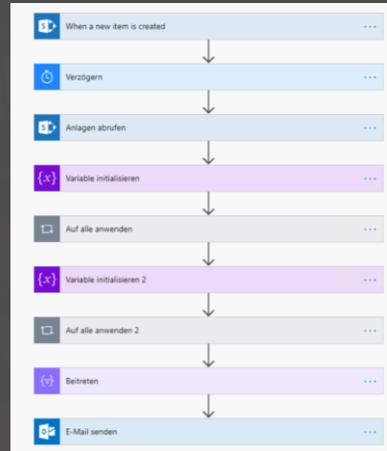
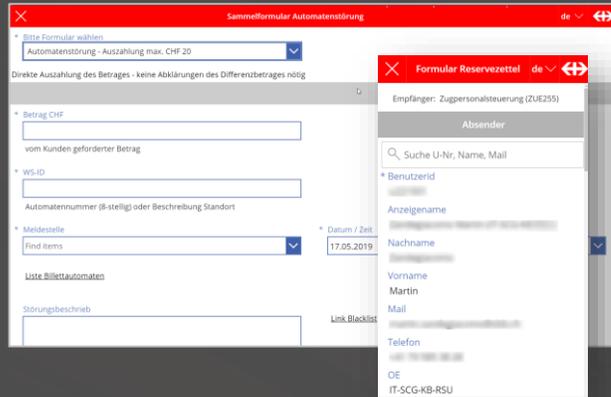
Bitte Formular wählen
Automatenstörung - Auszahlung max. CHF 20

Direkte Auszahlung des Betrages - keine Abklärungen des Differenzbetrages nötig

One App instead of 7 forms



Architecture



- R/W data from SPO lists
- Read translations from SPO list for multi-language support
- Used on mobile & desktop devices

- Flows connected SharePoint
- Sends emails to the responsible Business Unit or System

- Power BI reports connected to SPO lists
- Show a summary of the data collected



180+ PowerApps



Supporting flows



Power BI reports



Gateways and connectors



SharePoint Online is used to store data of the Form

Project «Form Migration»: Timeline.



→ **300 forms** migrated into **170 Apps**

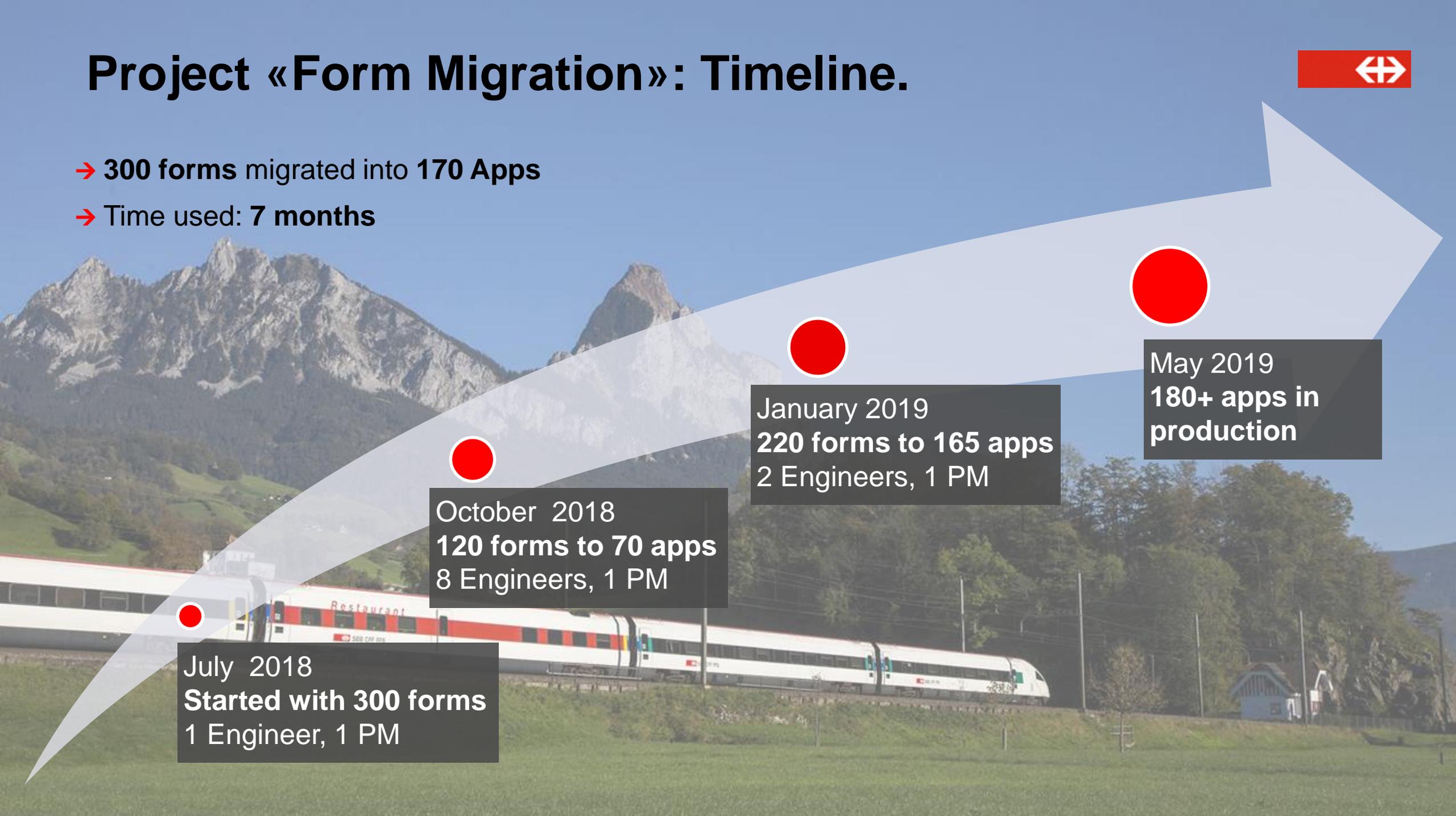
→ Time used: **7 months**

July 2018
Started with 300 forms
1 Engineer, 1 PM

October 2018
120 forms to 70 apps
8 Engineers, 1 PM

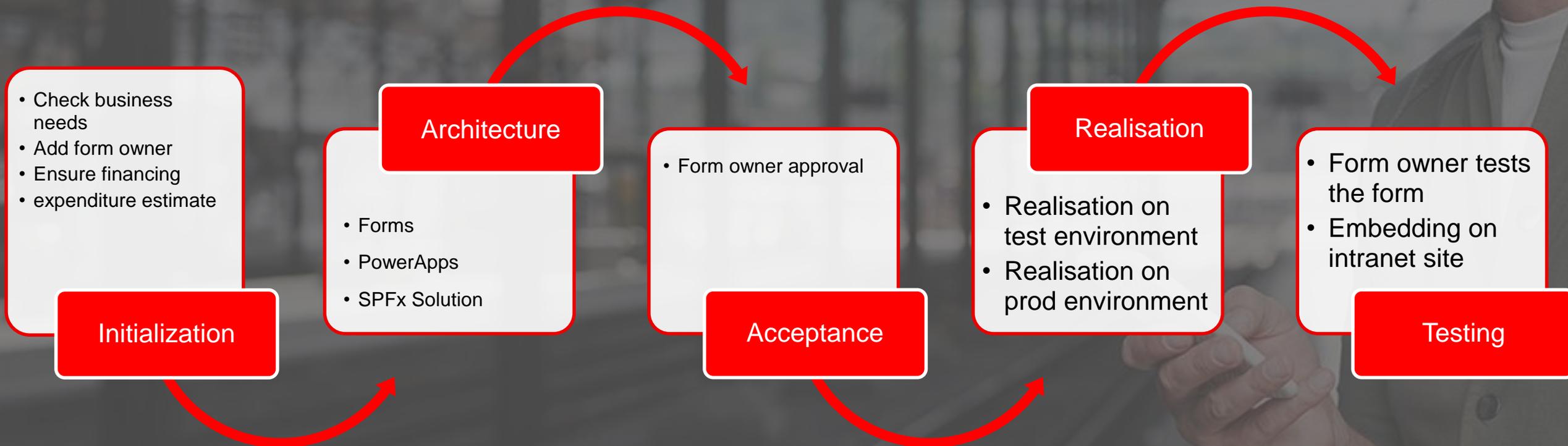
January 2019
220 forms to 165 apps
2 Engineers, 1 PM

May 2019
180+ apps in production





Project «Form Migration»: Process established.



Business units supported.



HR

- Contract requests
- E-Dossier management
- Internal reporting system
- Expense application
- Change work- place
- +23 more



Passenger Div.

- Reporting overtime
- Ticket refunds
- Report maintenance tasks
- Vacation requests
- Catering order
- Business trip ordering
- ~ 50 more



Finance

- Request a credit check
- Submit project completion
- Request financial competence adjustments
- change master data request
- +5 more



Cargo Division

- Locomotive request
- Report delays
- Oil train customer notifications
- Sick leave reporting
- Document change request
- Locomotive fault report
- + 34 more

Business Impact.



165+ Apps

On time
within budget

Leveraged Office
365 investment

Value+

Requirements
covered



Going beyond forms: CareBase app

CareBase App.

→ App to support the work of emergency psychological care givers

- Guides through a standardized questionnaire
- Provides instant Feedback on the condition of a person
- Solution to report time and conversations

→ 100% Mobile Users, rolled out in January

→ Used by 60+ Users

→ Replaces a paper and Excel based solution

→ Will be enhanced with Power BI reports

The image displays three overlapping screenshots of the CareBase mobile application interface. The top screenshot shows the main menu with two options: 'Liste der Betroffenen' (List of Affected) and 'Neuer Betroffener' (New Affected). The middle screenshot shows a questionnaire titled 'Kontakt' with two questions: '1) Hatten Sie während dem Ereignis oder kurz danach Angst oder sogar Todesangst?' and '2) Fühlen Sie sich psychisch sehr belastet, wenn Sie etwas sehen oder hören, das Sie an das Ereignis erinnert?'. Both questions have radio button options for 'Ja', 'Nein', and 'Nicht beantwortbar'. The bottom screenshot shows a 'Risikobeurteilung' (Risk Assessment) screen with a yellow warning icon and a 'Gefahrenhinweis Text...' field, and a 'Ressourcenbeurteilung' (Resource Assessment) screen with a black warning icon.



Learnings and looking ahead.

Learnings.



Challenge the business

Onboard the business

Check limitations

Start with a Plan

Make use of MS support

SharePoint online dependencies





Looking ahead.

Center of Competence

Support Business Users

Trainings

Community

Operation

Validate Platform Setup

App Gouvernance

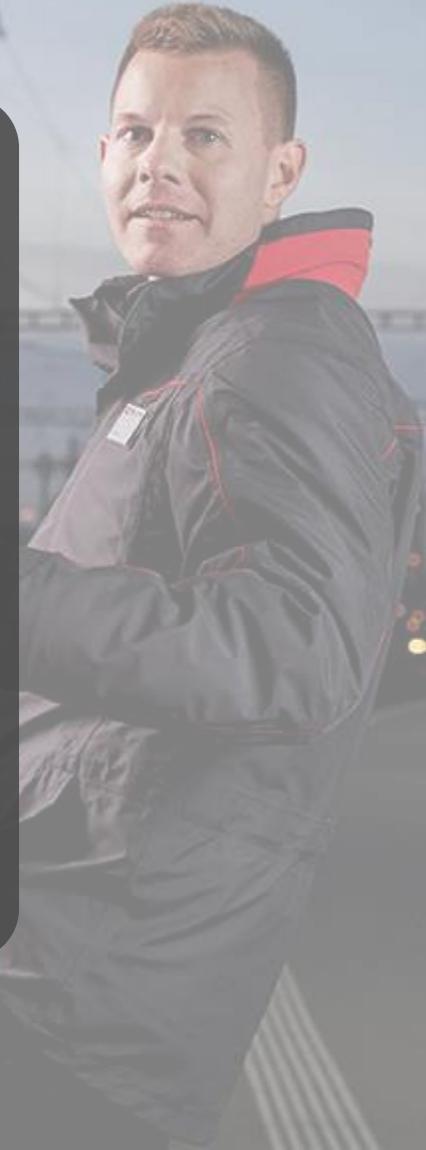
App Maintenance

Projects

New Requests

Further Development

Form consolidation continued





Thank you for your attention.



MAKE^{BI}
MICROSOFT POWER BI ARBEITSKREIS | 2019

Thank you !!!



community.powerbi.com



community.powerapps.com



community.flow.microsoft.com