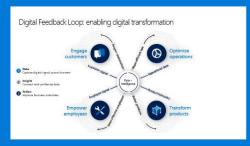


Before we're getting started

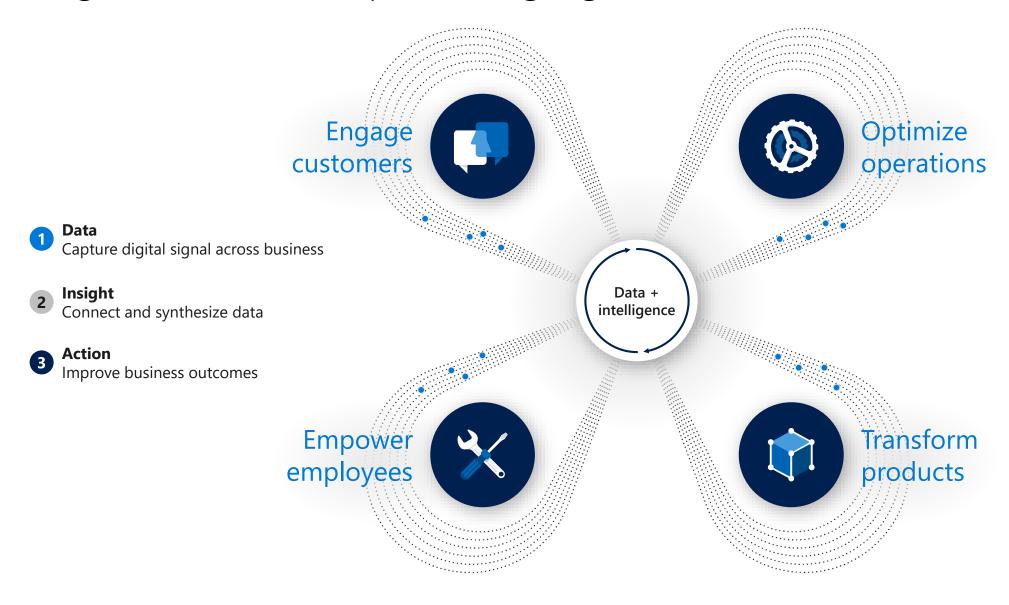
Aligning on our Digital Feedback Loop



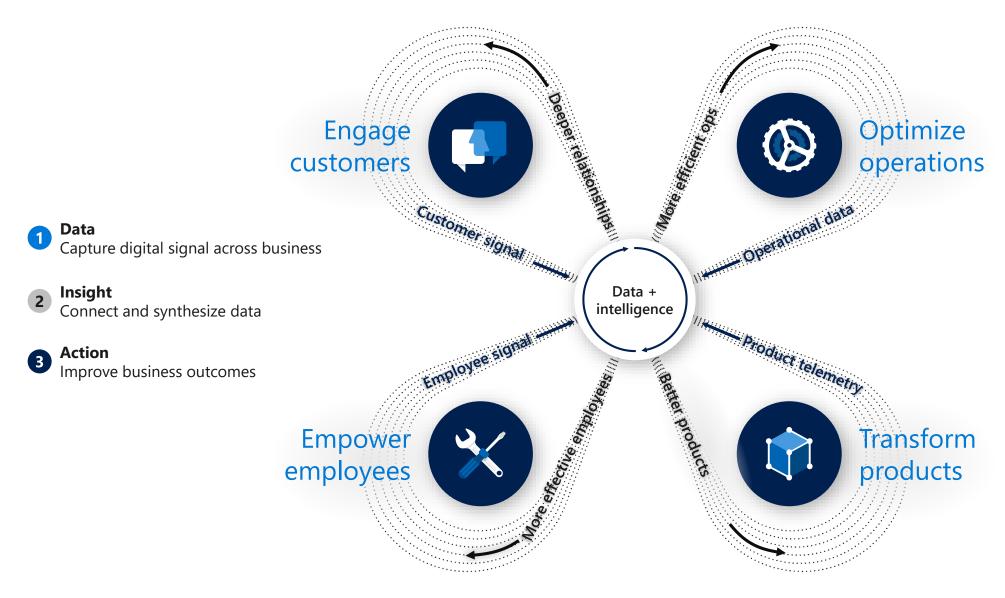




Digital Feedback Loop: enabling digital transformation



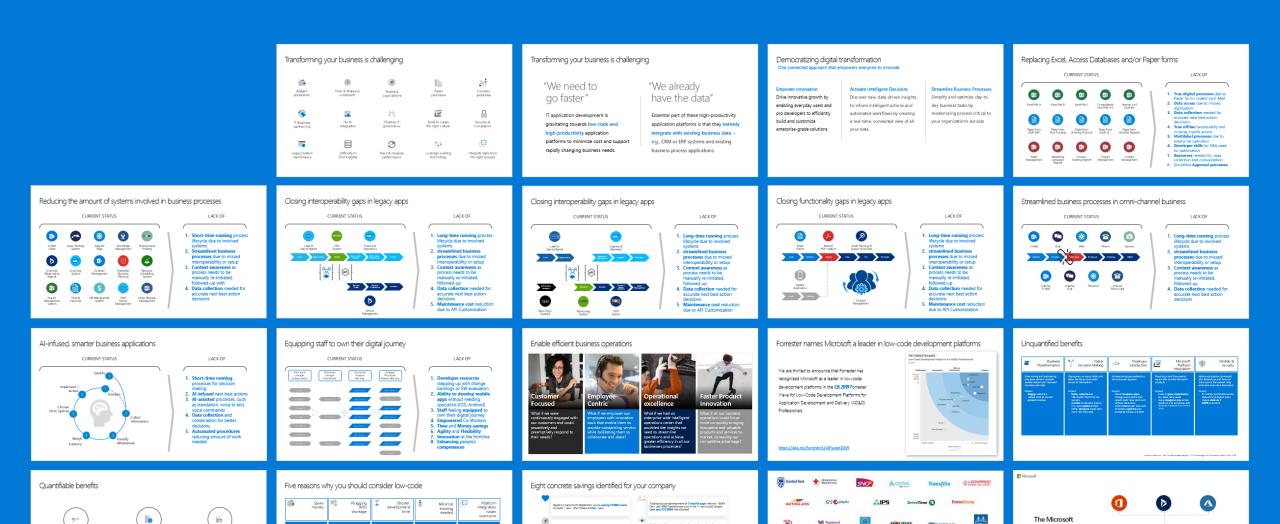
Digital Feedback Loop: enabling digital transformation



What we want to share with you today

- Introducing Business challenges of traditional software development and building software
- Providing our understanding of where you're coming from
- Offering you values and benefits when thinking about your change
 - Unquantifiable benefits that should be considered
 - Quantifiable benefits and possible KPI measurements
- Drilling into more details using both
 - Independent Analysts view
 - Concrete savings identified for you
- Highlighting customers already using the Power platform
- Bring together your solution based on Microsoft's Power Platform, covering
 - What the **Power Platform** is good for?
 - What this means to Office 365 extensibility?
 - What this means to **Dynamics 365 extensibility**?
- Summarizing today's key findings and offering next actions





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Reduced

Effort

3rd Party

Applications

Power Platform

applications

virgin atlantic

AYLOR SMITH

Heathrow

₹ TELSTRA apollo ½

One high productivity platform that spans Office 365, Dynamics 365, and standalone *****

PowerApps

Transforming your business is challenging



Budget constraints



Time & Resource constraints



Business expectations



Paper processes



Complex processes



IT/Business partnership



No BI integration



"Shadow IT" governance



Tools to create the right culture



Security & Compliance



Legacy system maintenance



Difficulty to find insights



Track & measure performance



Leverage existing technology



Integrate data from the right sources

Transforming your business is challenging

"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.

Democratizing digital transformation

One connected approach that empowers everyone to innovate

Empower innovation

Drive innovative growth by enabling everyday users and pro developers to efficiently build and customize enterprise-grade solutions

Activate Intelligent Decisions

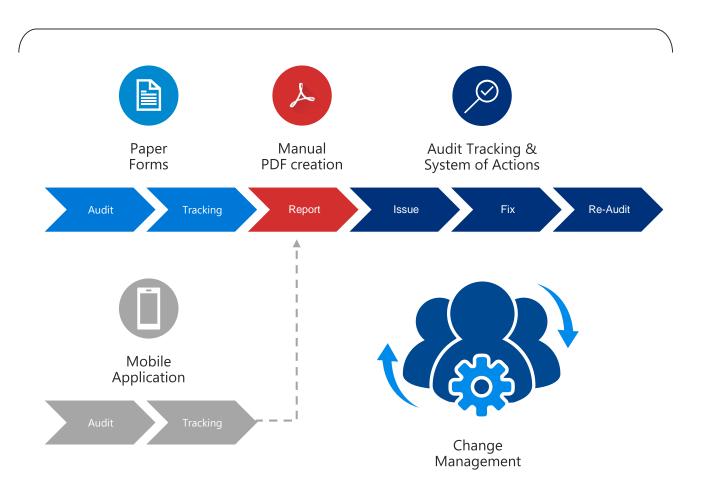
Discover new, data-driven insights to inform intelligent actions and automated workflows by creating a real-time, connected view of all your data.

Streamline Business Processes

Simplify and optimize day-today business tasks by modernizing process critical to your organization's success

Closing functionality gaps in legacy apps

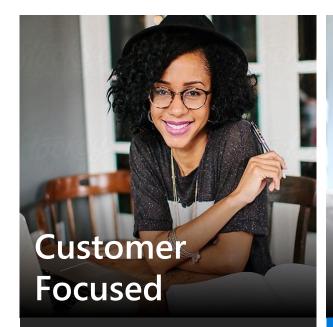
CURRENT STATUS



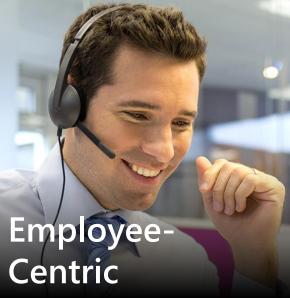
LACK OF

- Long-time running process lifecycle due to involved systems
- 2. streamlined business processes due to missed interoperability or setup
- **3. Context awareness** as process needs to be manually re-initiated, followed-up
- **4. Data collection** needed for accurate next best action decisions
- **5. Maintenance cost** reduction due to API Customization

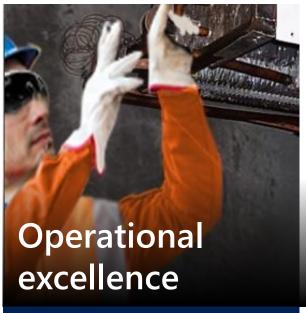
Enable efficient business operations



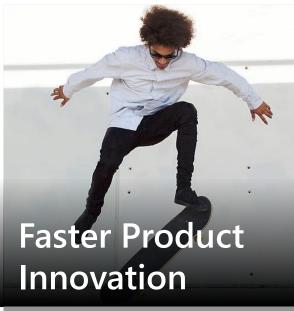
What if we were continuously engaged with our customers and could proactively and preemptively respond to their needs?



What if we empower our employees with innovative tools that enable them to provide outstanding service, while facilitating them to collaborate and share?



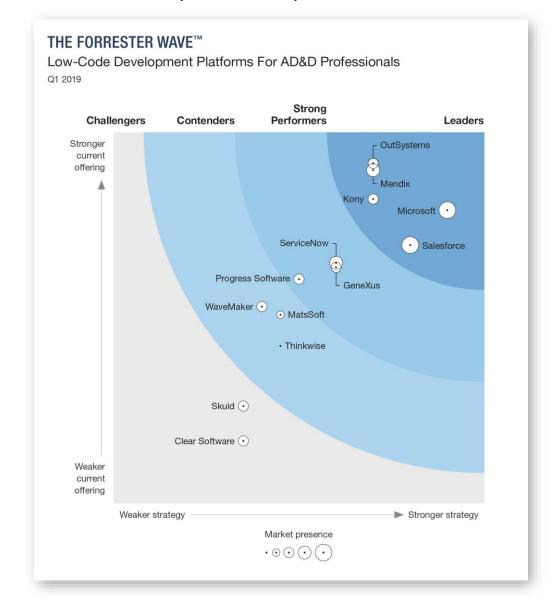
What if we had an enterprise-wide intelligent operations center that provided the insights we need to streamline operations and achieve greater efficiency in all our businesses processes?



What if all our business operations could focus more on quickly bringing innovative and valuable products and services to market, increasing our competitive advantage?

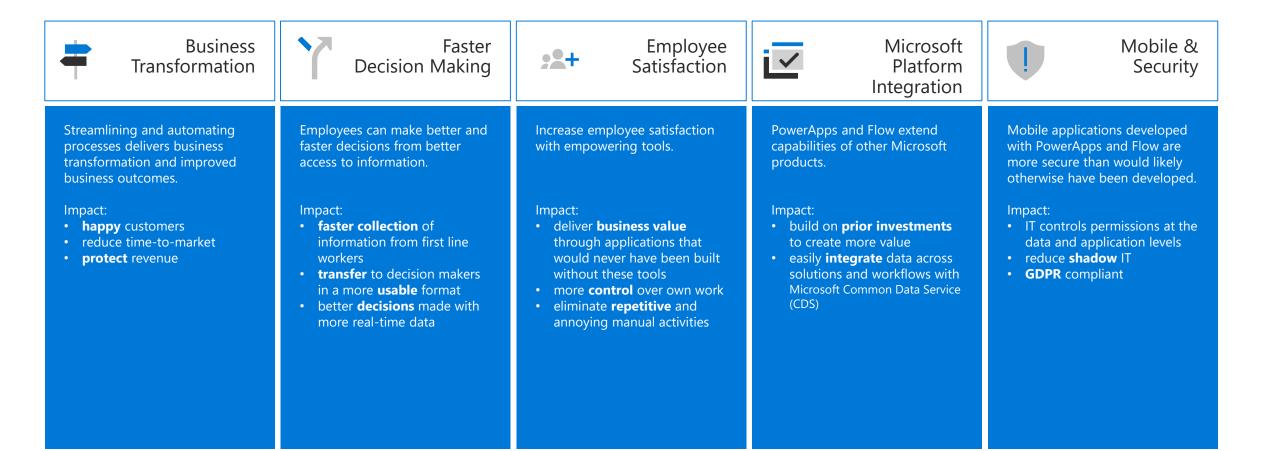
Forrester names Microsoft a leader in low-code development platforms

We are thrilled to announce that Forrester has recognized Microsoft as a leader in low-code development platforms in the Q1 2019 Forrester Wave for Low-Code Development Platforms for Application Development and Delivery (AD&D) Professionals.

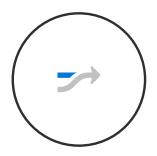


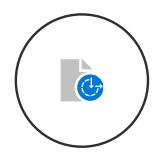
https://aka.ms/forresterLCAPwave2019

Unquantified benefits



Quantifiable benefits







Streamlined
Business
Processes

Total number of process improvement projects
Number of affected workers
Average fully burdened cost
Total efficiency gain
Productivity capture

Reduced IT Effort

Avg. avoided traditional development costs
Reduced IT management and maintenance
Reduced IT effort
Increased number of development projects
Decreased number of change backlog

Retired
3rd Party
Applications

Saved License costs for 3rd party projects Saved Professional Services costs for partners Total number of retired 3rd party applications

Five reasons why you should consider low-code



Saves money



Plugging skills shortage



Shorter development time



Minimal training needed



Platform integration issues overcome

- Save money by avoiding the cost of bringing in an external app development team
- Designed to be used by internal teams
- Plug the skills gap by enabling existing IT staff and nondevelopers to build apps
- Any updates can also be carried out by the internal team

- Dramatically
 shorten the
 development cycle
- Develop the app almost in parallel with specifying the requirements
- Low code
 development
 platforms offer
 staff options to
 leverage existing
 skills
- Incorporate preexisting software or develop new customization

- Develop once for every device
- Your app will run on mobiles, tablets and desktops
- Allow data from multiple databases to be used in a single app

Eight concrete savings identified for your company



Based on paper form digitization you're saving 25.000 sheets of paper / year – that makes 3 trees / year



An avg of 40.3 work hours/week for a full-time employee a 5% efficiency gain could already save you ~ 2 hours/week or ~105 hours/yr/employee spent for something new



Streamlined business processes with 5% efficiency gain for 375 worker involved in the 1st year and a 25% productivity capture will save you already almost 365.000 € risk adjusted



On avg, companies spent \$1.075 per learner in 2017, and employees received 47.6 hours of training / year. 49% saying budget remained same as in 2016



Traditional app development of 5 mobile apps with est. ~60k€ Dev- and 40k€ Maintenance cost in the 1st year could already save you 525.000€ risk adjusted



Artificial intelligence transforms how we live and work. Automation and AI can sort through huge amounts of data to find trends and make predictions A task that would need thousands of human beings and hours of performing



Building business solutions around IoT is a process of ongoing innovation. Requirements are fuzzy. The development of viable applications requires rapid experimentation, frequent iteration and close collaboration between business and IT.



Instead of banning the use of Shadow IT applications, seek to implement security solutions to control their use. Invest in a tool that allows you to protect your systems in a comprehensive way, by **protecting** the organization's **sensitive** data both in the internal flow and in interactions in the cloud.

Sources:

http://conservatree.org/learn/Envirolssues/TreeStats.shtm

https://trainingmag.com/trgmag-article/2017-training-industry-report/

https://www.infoworld.com/article/3305019/internet-of-things/how-iot-leaders-can-embrace-smart-apps.htm

http://www.gb-advisors.com/shadow-it-2/

Forrester - The Total Economic Impact™ Of PowerApps And Microsoft Flow, June 2018































































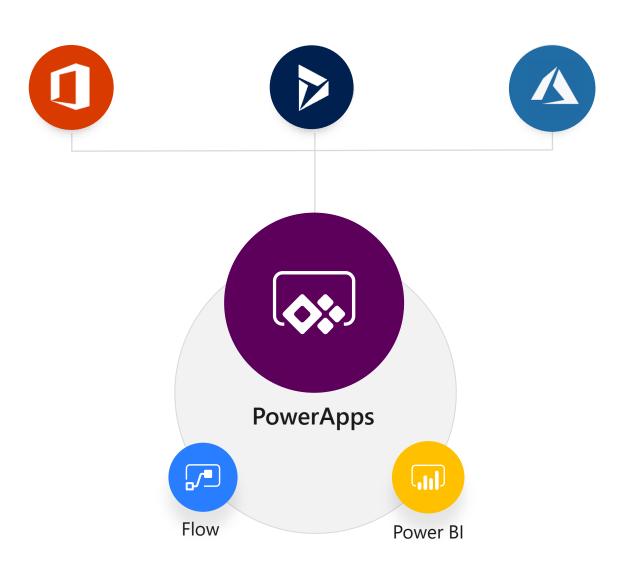






The Microsoft Power Platform

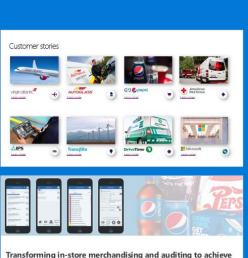
One high productivity platform that spans Office 365, Dynamics 365, and standalone applications



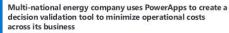
Customer Stories

What other customers are using Power Platform for?









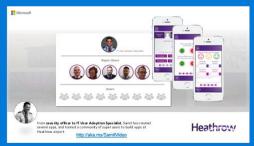










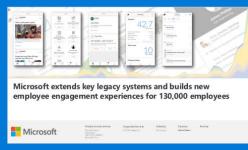






Motor and generator service company develops custom apps, unifying processes and enhancing customer experience







Customer stories















































Virgin Atlantic easily creates custom-built mobile applications with Microsoft PowerApps and Dynamics 365





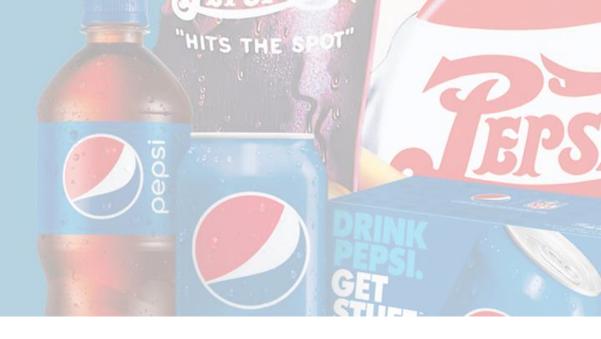
Vehicle glass repair provider digitizes processes and increases productivity with self-developed apps











Transforming in-store merchandising and auditing to achieve targeted business goals



Consumer goods



Streamlining logistics to empower employees and volunteers to deliver relief timely and effectively





Motor and generator service company develops custom apps, unifying processes and enhancing customer experience



Services



Multi-national energy company uses PowerApps to create a decision validation tool to minimize operational costs across its business

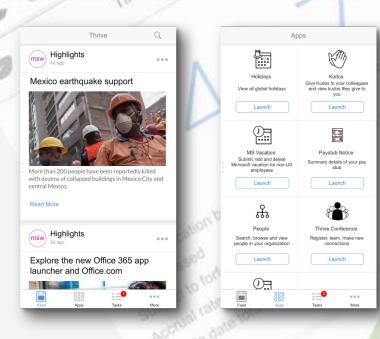


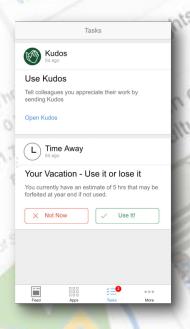


Auto retailer transforms business processes and creates opportunity with custom app

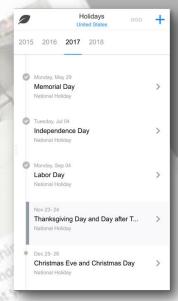


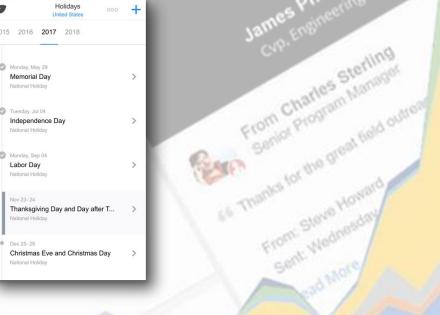
Retail











Microsoft extends key legacy systems and builds new employee engagement experiences for 130,000 employees



130,000 employees





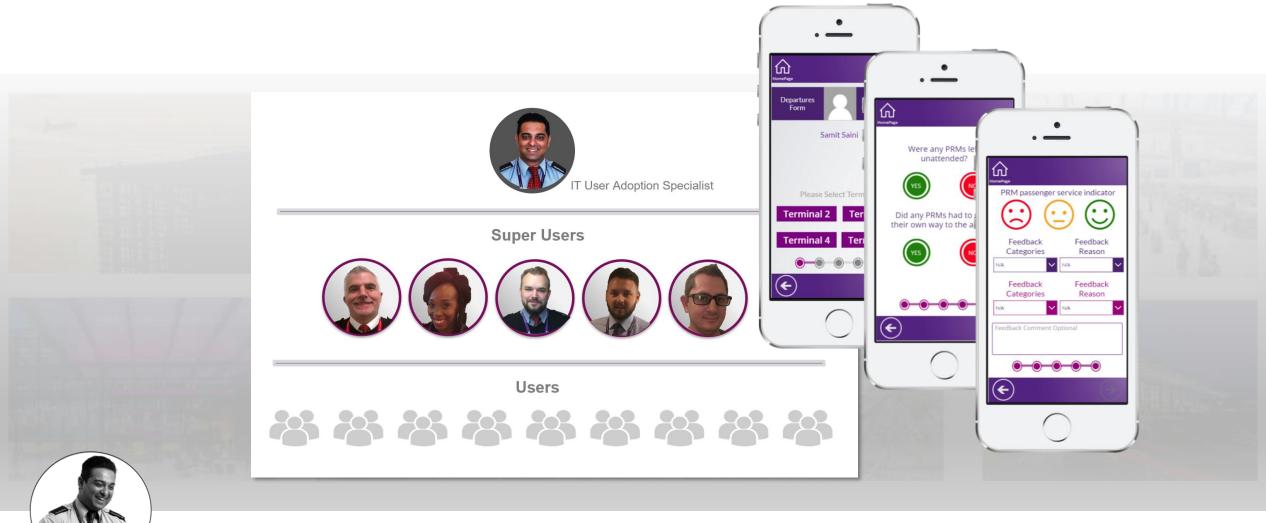
Remi's IT **development team** at the French national railway started by **reducing error rates 40-50%** in one process, and is now going on to transform the way 165K employees work









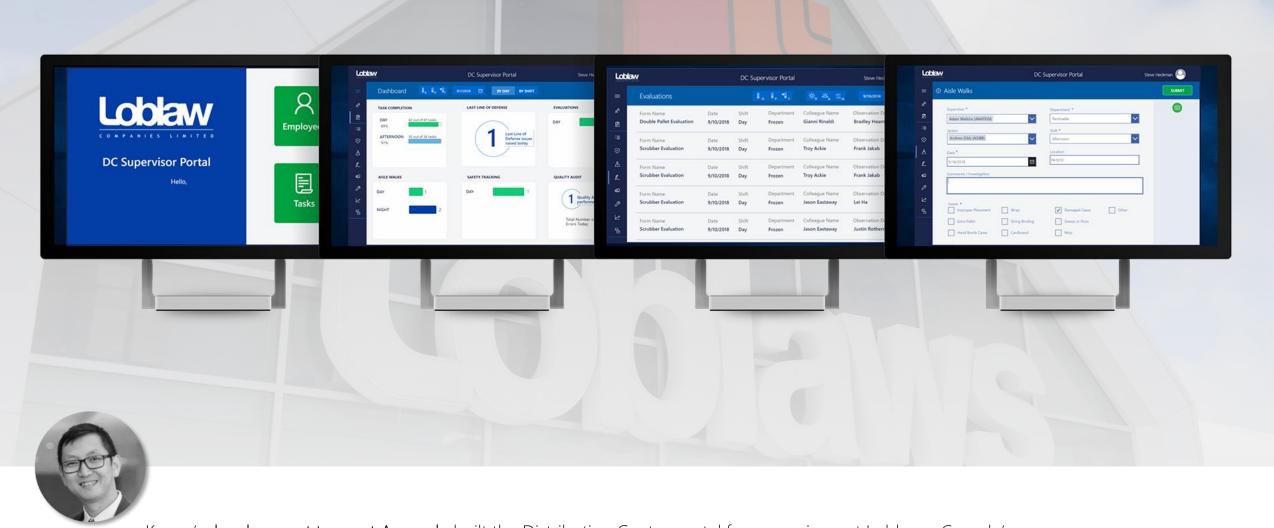


From **security officer to IT User Adoption Specialist**, Samit has created several apps, and trained a community of super users to build apps at Heathrow airport.

http://aka.ms/SamitVideo





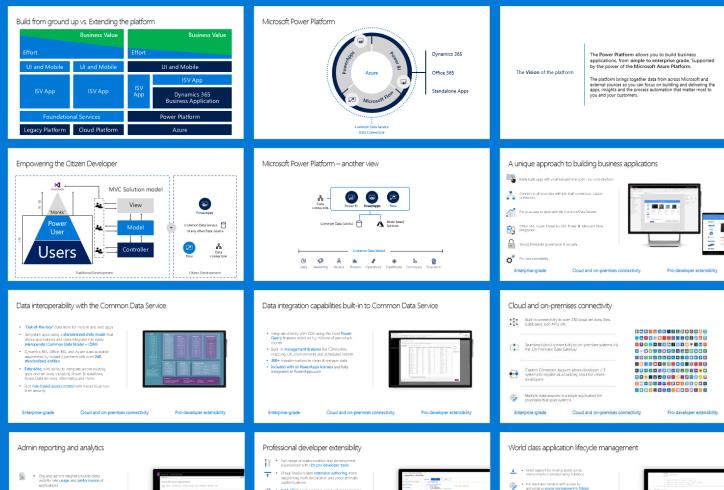


Kenny's development team at Avanade built the Distribution Center portal for supervisors at Loblaw – Canada's largest grocery super market - to increase the productivity & operational efficiency. The portal helped to provide visibility to management and enabled sharing of data across centers.



What about your solution?

And.



Innovate faster with a low-code/no-code platform Apps for web and mobile

- Craft pixel-perfect experiences from a blank canvas for highly customized, task and role-based apps
- Generate immersive, declarative, responsive apps
- Connect to 230+ data sources for events and actions, from Microsoft and other vendors Leverage native mobile capabilities like corner
- Build with intelligence including Natural Langu Processing, image detection, and other built in cognitive services powered by Assure

Cloud and on-premises connectivity

Pro-developer extensibility

Digital processes automation and integration with Microsoft Flow

Cloud and on-premises connectivity

- After the trigges actions can read and write data in any of the 230+ connectors in integration workflows Quick modelling of business processes that span across apps and services
- Everything from simple Y-this-then-that processes to detailed conditional branching that leverages the Microsoft Cognitive Services for Al-powered decision
- Included with all PowerApps licenses and fully integrated

Pro-developer extensibility

Gain insights from data regardless of where it lives with Power BI

- Build smart apps by **infusing insights** from your data and drive action with the power of the Power Platforn
- Visualize insights in the content of your business

Enterprise-grade governance

- comprehensive management across 1= party, 3rd party and custom apps in an AAD tenant or environment enabling rich policies and multi factor authentication
- Includes identity management, full audit logs, usage analytics and data loss
- Compliance with 13+ standards including FedRAMP high, HPPA, EU Model Clauses, SOC and GDPR
- Mobile Application Management / Mode

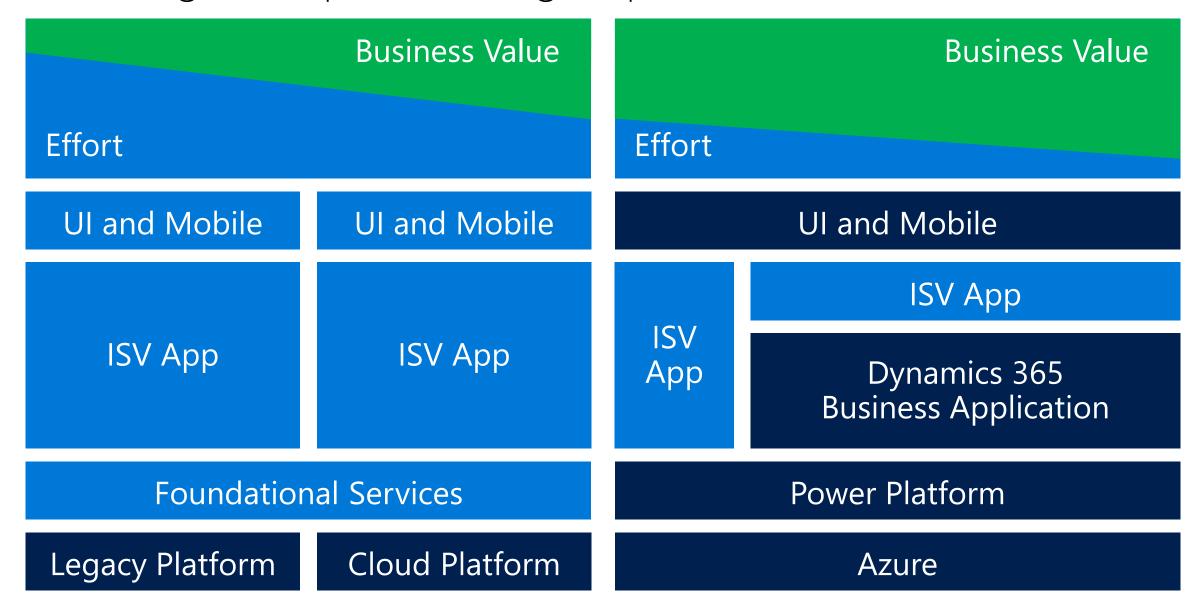


Cloud and on-premises connectivity

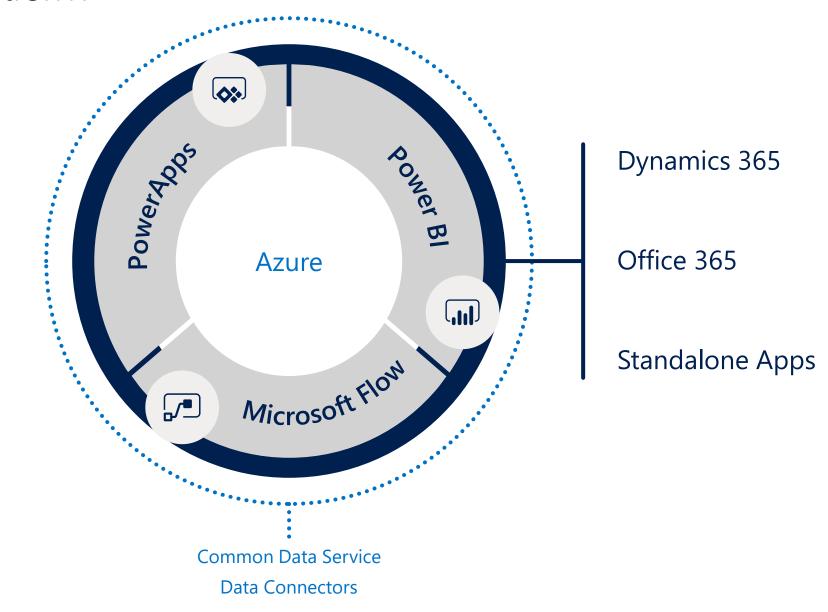
Improves quality by helping to detect all issues early and respond proactively to

- that to augment standard platform behavior
- PowerApps Component Framework (PCF) to

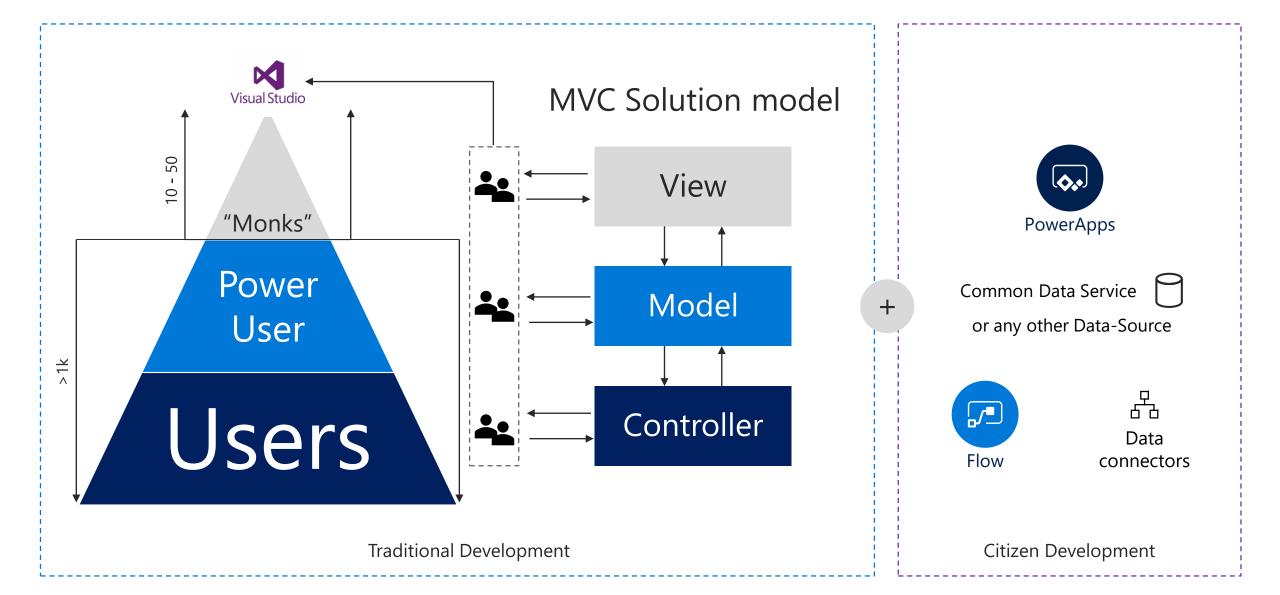
Build from ground up vs. Extending the platform



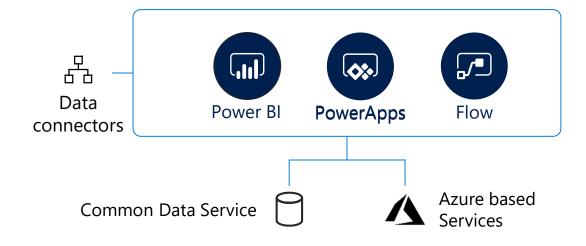
Microsoft Power Platform



Empowering the Citizen Developer



Microsoft Power Platform – another view





A unique approach to building business applications



Easily build apps with a full featured low-code / no-code platform



Connect to all your data with pre-built connectors, custom connectors



Put your data to work with the Common Data Service



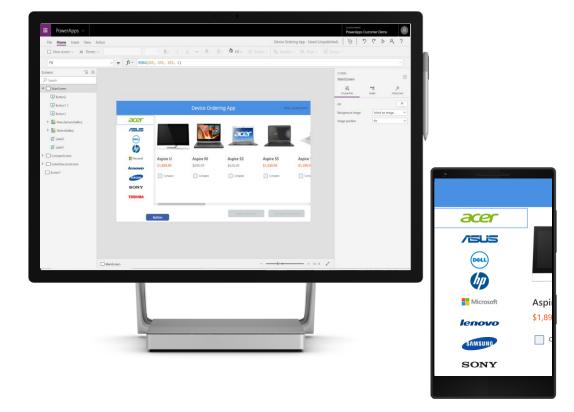
Office 365, Azure, Dynamics 365, Power BI, Microsoft Flow Integration



Strong Enterprise governance & security



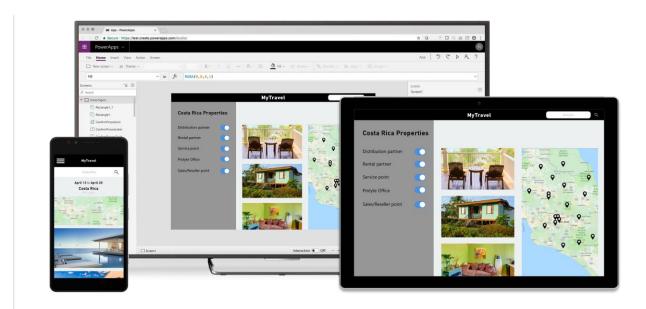
Pro-dev extensibility



Innovate faster with a low-code/no-code platform

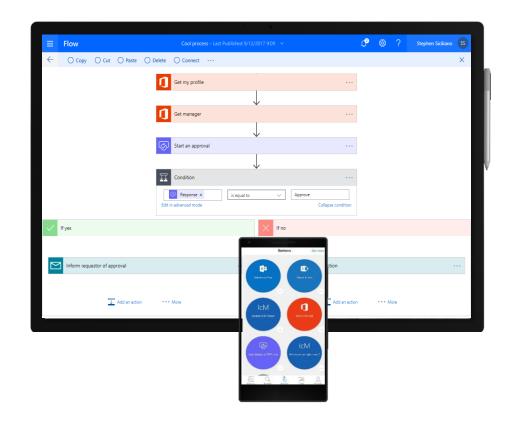
Apps for web and mobile

- Build standalone web and mobile apps, or customize existing apps in Office 365 and Dynamics 365 to deliver a seamless experience across channels
- Craft pixel-perfect experiences from a blank canvas for highly customized, task and role-based apps
- Generate immersive, declarative, responsive apps from a rich data model and workflow engine
- Connect to 230+ data sources for events and actions, from Microsoft and other vendors
- Leverage native mobile capabilities like camera, GPS, push notifications, add custom controls and more to build consumer grade applications
- Build with intelligence including Natural Language Processing, image detection, and other built-in cognitive services powered by Azure



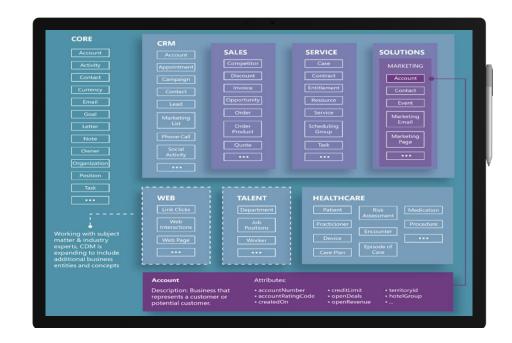
Digital processes automation and integration with Microsoft Flow

- Processes events from 400+ triggers out-of-box to start flows – plus custom events in external systems through custom connectors
- After the trigger, actions can read and write data in any of the 230+ connectors in integration workflows
- Quick modelling of business processes that span across apps and services
- Integrates with modern approvals that can be handled from inside email client or mobile device
- Everything from simple if-this-then-that processes to detailed conditional branching that leverages the Microsoft Cognitive Services for Al-powered decision making
- Included with all PowerApps licenses and fully integrated at PowerApps.com



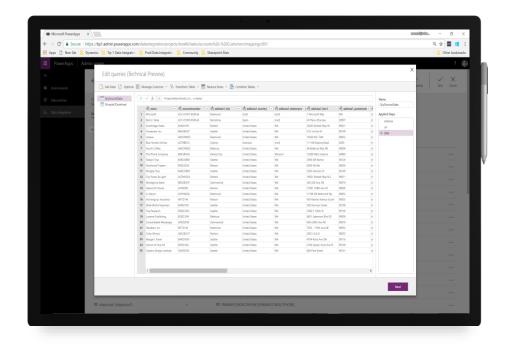
Data interoperability with the Common Data Service

- "Out-of-the-box" data store for mobile and web apps
- Jumpstart apps using a standardized data model that allows applications and data integrators to easily interoperate (Common Data Model – CDM)
- Dynamics 365, Office 365, and Azure data available, augmented by industry partners with over 260 standardized entities
- Extensible, with ability to integrate across existing apps and services, including Power BI dataflows, Azure Data services, Informatica and more
- Rich role-based access control with hierarchical rowlevel security



Data integration capabilities built-in to Common Data Service

- Integrate directly with CDS using the Excel Power Query features relied on by millions of users each month
- Built-in management features like CDM entity mapping UX, environments and scheduled refresh
- 300+ transformations to clean & reshape data
- Included with all PowerApps licenses and fully integrated at PowerApps.com



Cloud and on-premises connectivity



Built-in connectivity to over 230 cloud services, files, databases, web APIs, etc.



Seamless hybrid connectivity to on-premises systems via the On-Premises Data Gateway



Custom Connector support allows developer / IT systems to register as a building block for citizen developers



Multiple data sources in a single application for processes that span systems



Gain insights from data regardless of where it lives with Power BI

- Connect to all your data and get a consolidated view across your business through a single pane of glass
- Create ad-hoc analysis, live dashboards and interactive reports that are easy to consume on the web and across mobile devices
- Build smart apps by infusing insights from your data and drive action with the power of the Power Platform
- Visualize insights in the context of your business



Enterprise-grade governance



 Unified admin center provides comprehensive management across 1st party, 3rd party and custom apps in an AAD tenant or environment enabling rich policies and multi factor authentication



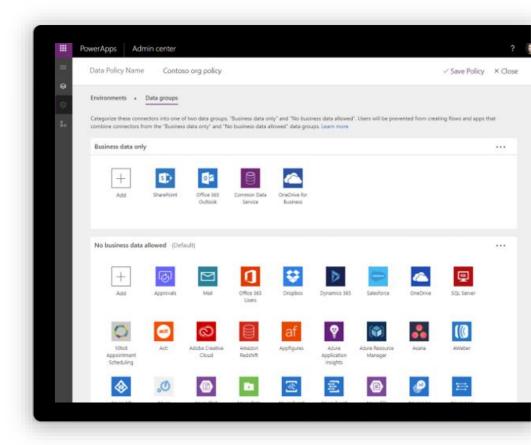
 Includes identity management, full audit logs, usage analytics and data loss prevention



 Compliance with 13+ standards including FedRAMP high, HIPPA, EU Model Clauses, SOC and GDPR



 Mobile Application Management / Model Device Management via Intune



Admin reporting and analytics



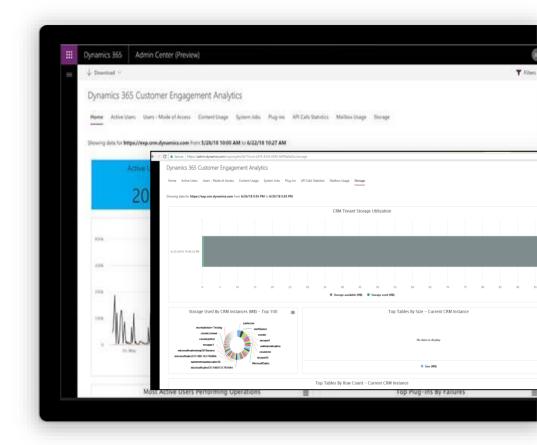
 Org and admin insights provide deep visibility into usage and performance of applications



 Improves quality by helping to detect all issues early and respond proactively to keep users on track



 Tracks health and implementation issues across all apps on the platform



Professional developer extensibility



 Full range of customization and development experiences with rich pro developer tools



 Visual Studio based extension authoring, tools supporting both declarative and programmatic customizations



 Web API for use across a variety of programming languages, platforms, and devices (supporting OData)



 Natively supported plug-ins [.NET assemblies] in C# or VB.NET for custom business logic (code) that to augment standard platform behavior



 PowerApps Component Framework (PCF) to create custom, re-usable UI components that connect to data and plug into any app (preview)

```
Home > imageoptimizer - ResizeImage
 imageoptimizer - Resizelmage
Search
Microsoft Azure Internal Consumption
Function Apps
                                                                                     // input blob, large size
                                             Stream imageSmall,
                                             Stream imageMedium) // output blobs
                                             var imageBuilder = ImageResizer.ImageBuilder.Current;
                                             var size = imageDimensionsTable[ImageSize.Small];
                                                new ResizeSettings(size.Item1, size.Item2, FitMode.Max, null), false);
                                            size = imageDimensionsTable[ImageSize.Medium];
                                             imageBuilder.Build(
                                                 new ResizeSettings(size.Item1, size.Item2, FitMode.Max, null), false);
                                     23 public enum ImageSize
Slots (preview)
                                            ExtraSmall, Small, Medium
                                     28 private static Dictionary<ImageSize, Tuple<int, int>> imageDimensionsTable = new Dictionary<ImageSize, Tuple</pre>
                                                      ImageSize.ExtraSmall, Tuple.Create(320, 200) }
                                                      ImageSize.Small,
                                                                            Tuple.Create(640, 400) },
                                                      ImageSize.Medium,

    Logs Errors and warnings Console
```

World class application lifecycle management



 Great support for moving assets across environments in product using Solutions



 Full developer isolation with access to authoritative source management in GitHub



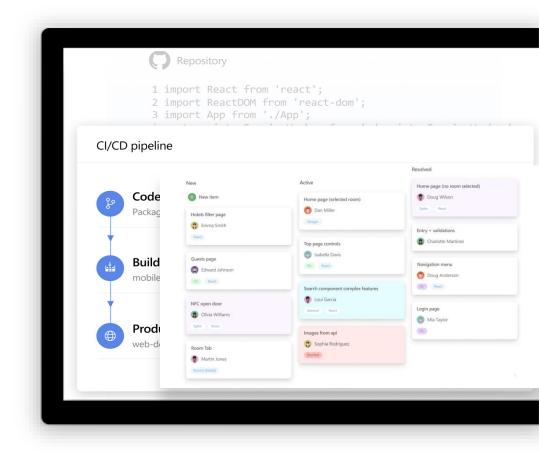
 Agile process governance and team collaboration through integration with Azure DevOps



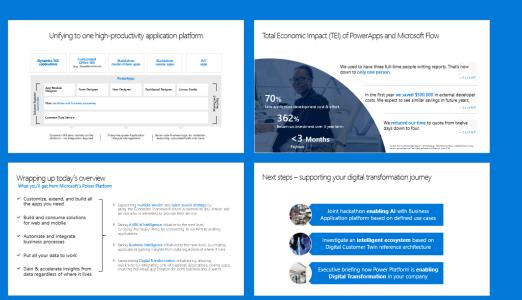
 Rich environment to view and manage Kanban boards, backlogs and sprints



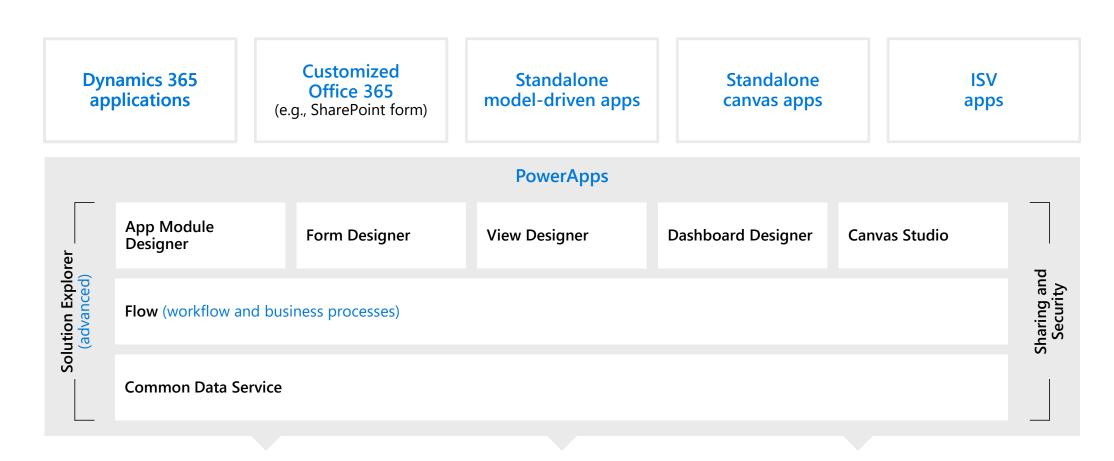
 Full automation of repeatable processes for tests and pipeline supporting any Continuous integration / Continuous Deployment framework



Wrapping up today's learnings



Unifying to one high-productivity application platform



Wrapping up today's overview

What you'll get from Microsoft's Power Platform

- Customize, extend, and build all the apps you need
- Build and consume solutions for web and mobile
- Automate and integrate business processes
- ✓ Put all your data to work
- ✓ Gain & accelerate insights from data regardless of where it lives

- Supporting multiple vendor and open source strategy by using the Connector Framework which is opened to any vendor and service who is interested to provide their service
- Taking Artificial Intelligence initiative to the next level, by doing the heavy lifting for connecting AI via APIs to existing applications
- Taking Business Intelligence initiatives to the next level, by creating applications gaining insights from data regardless of where it lives
- Surrounding **Digital Transformation** initiatives by, allowing quick wins by integrating Line-of-business applications, closing gaps, enabling individual app creation for both business and IT users

Next steps – supporting your digital transformation journey



Joint hackathon **enabling AI** with Business Application platform based on defined use cases

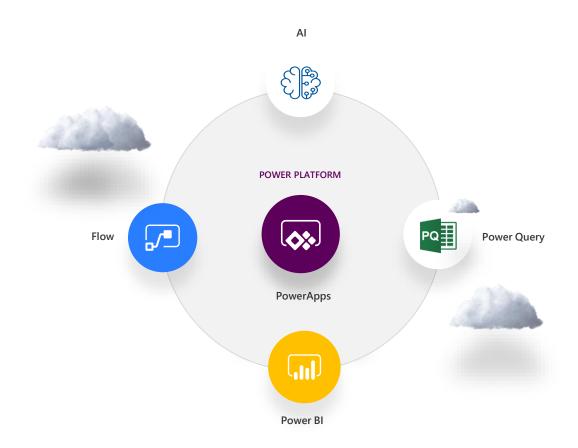


Investigate an **intelligent ecosystem** based on Digital Customer Twin reference architecture



Executive briefing how Power Platform is **enabling Digital Transformation** in your company















Thank you

Licensing



PowerApps licensing overview

PowerApps for Dynamics 365

Enterprise plans and apps

PowerApps Plan 2

PowerApps Plan 1

PowerApps for Office 365

Business Essentials, Premium, E1, E3, E5 Education, Education Plus

Create and run

Connect to data

Extend Office 365

Office 365 & cloud-

based services using

standard connectors

canvas apps

Office 365 F1

Firstline Workers
Run canvas apps

□ Data conn

 Data connectivity to a wide range of data using premium connectors

Connect to data

 Unlimited custom and onpremises connectors

Access the Common Data Service (CDS)

- Create and read / write custom entities
- Read / write simple Dynamics 365 entities
- Create and use business rules and server-side validation logic

Automate tasks with background workflows

Create and run model-driven apps

Build powerful apps with CDS

- Create & manage environments
- Use and create entities in CDS that include code add-ins
- Create and use entities that include real-time workflows

Automate business process

Guide through business processes

Manage your app environments

Manage data loss prevention policies

Create apps on Dynamics 365 data

Read access to restricted entities

Extend Dynamics 365

 Create and run applications within the context of the Dynamics 365 applications (except Dynamics 365 for Marketing, Sales Pro)

Create apps on Dynamics 365 data

 Read / write access to restricted entities

Access to Dynamics 365 app APIs

Greater the app complexity (data, logic and connectivity), higher the plan required