

Microsoft PowerPlatform

Wolfgang Strasser



Hi!

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Power BI Usergroup Austria



Power What?



Power Platform

Microsoft Corporation (MSFT) Q3 2018 Earnings Conference Call Transcript

MSFT earnings call for the period ending March 31, 2018.

Satya Nadella -- Chief Executive Officer

Yeah, one of the things that I talked about in my remarks this time was this power platform. One of the areas of, in fact, real breakout growth and differentiation as being in Power BI, Power Apps, and Flow, for the first time, in fact, in our own Microsoft history, we have an extensibility model that is the same for Office 365 and Dynamics 365. This has been a dream of mine for, I don't know, for 15 years, probably. And we're finally here and we are executing super well, but the interesting thing is it's not just even for our own SAAS applications -- it is the extensibility model for every SAAS application out there, including a common data model. So, I think that that's where the synergies lie because AI starts with having a data state that can really bring data from all of your applications -- siloes, in some sense -- together so that you can start building the analytical power that you can then visualize and put in the hands of people using Power BI or run an AI model that does some prediction that you can deploy in your system, whether it's forecasting, sales lead scoring, what have you.

<https://www.fool.com/earnings/call-transcripts/2018/04/26/microsoft-corporation-msft-q3-2018-earnings-confer.aspx>

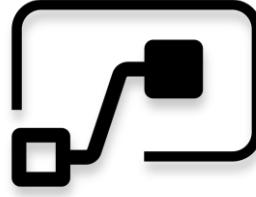
Microsoft Power Platform



Power BI

analyze

self-service analytics



Flow

automate

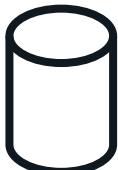
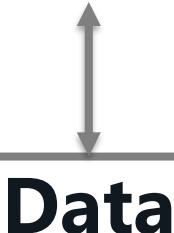
robotic process automation



PowerApps

interact

no-code/low code app dev



Common Data Service

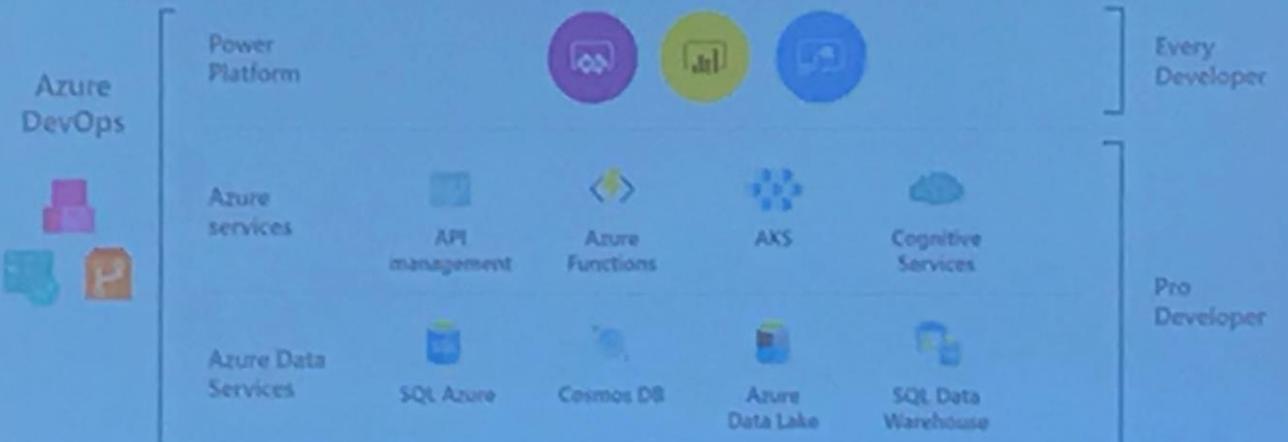
Data

AI Builder

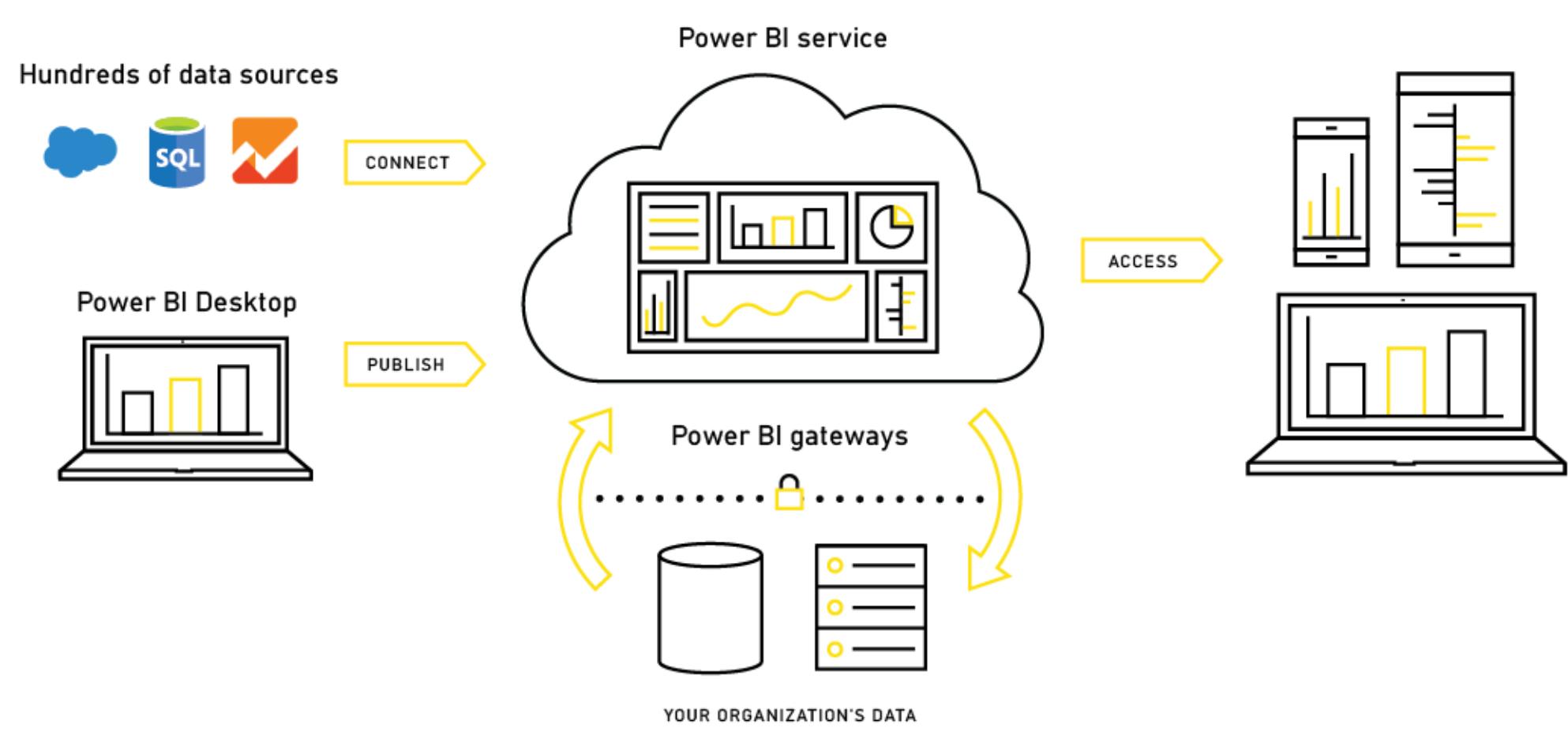


Connectors

Power Platform ❤️'s every developer...



Power BI



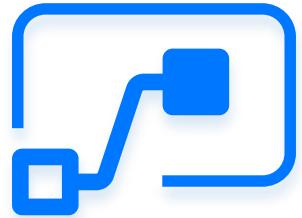
PowerApps



Business Applications

Across Web & Mobile

Rapid Application Development



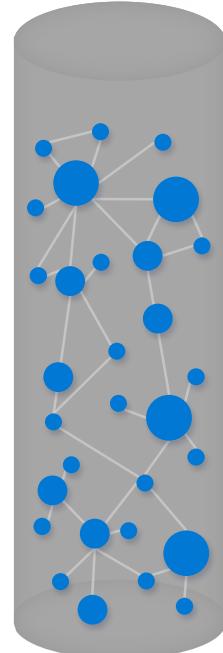
Workflows for business tasks

Give flow power to everyone!

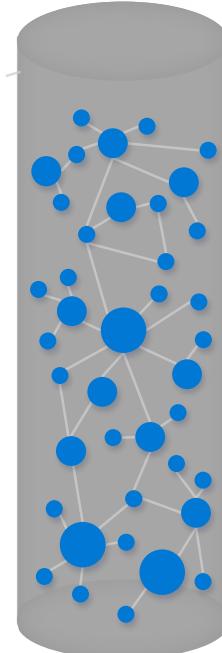
Citizen Integrators

Need a shared data model with rich semantics

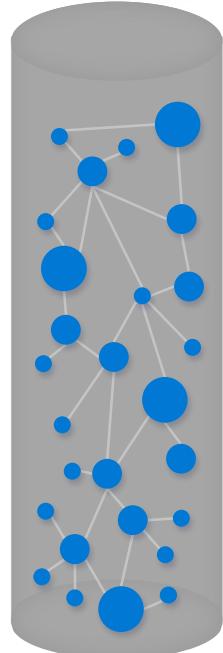
Mobile/Web



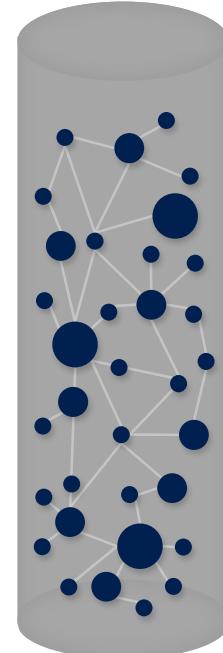
Transactions



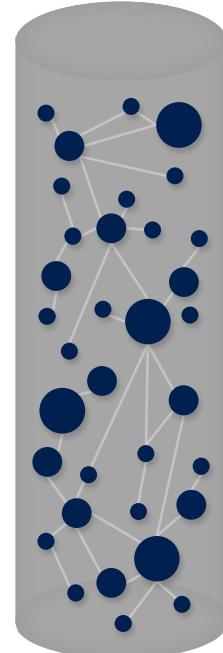
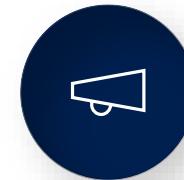
IoT



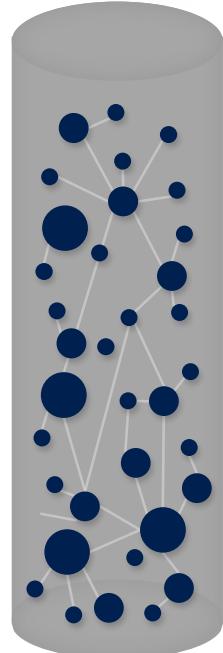
Social



Advertising



Marketplace



Data is stored within internal and external silos

Mobile/Web



Transactions



IoT



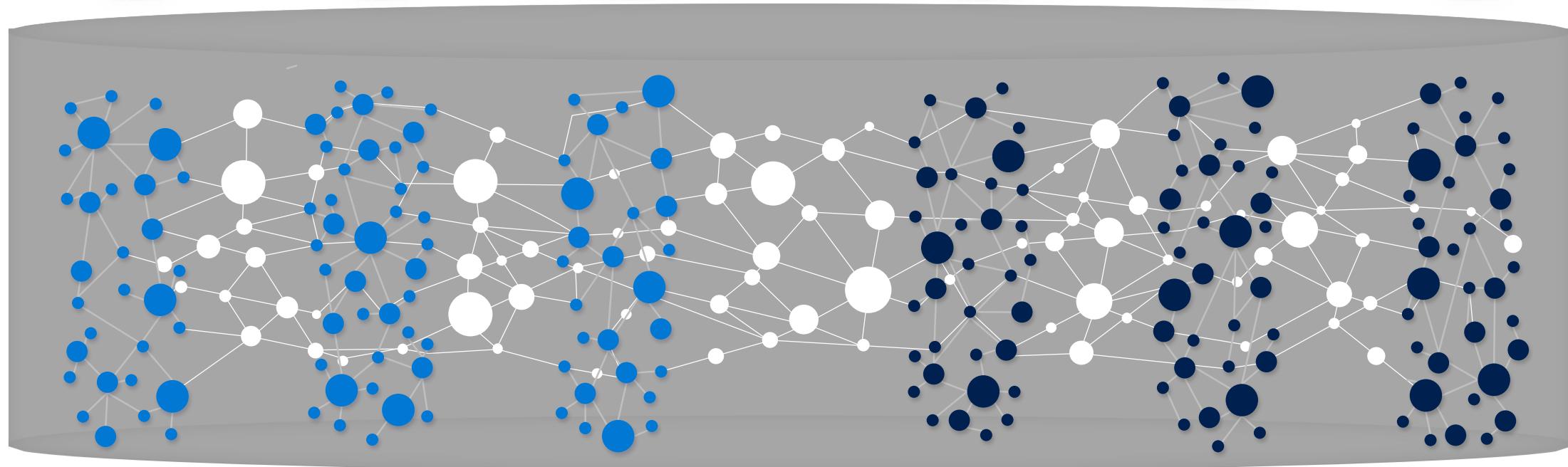
Social



Advertising



Marketplace



Common Data Model

Data Schema

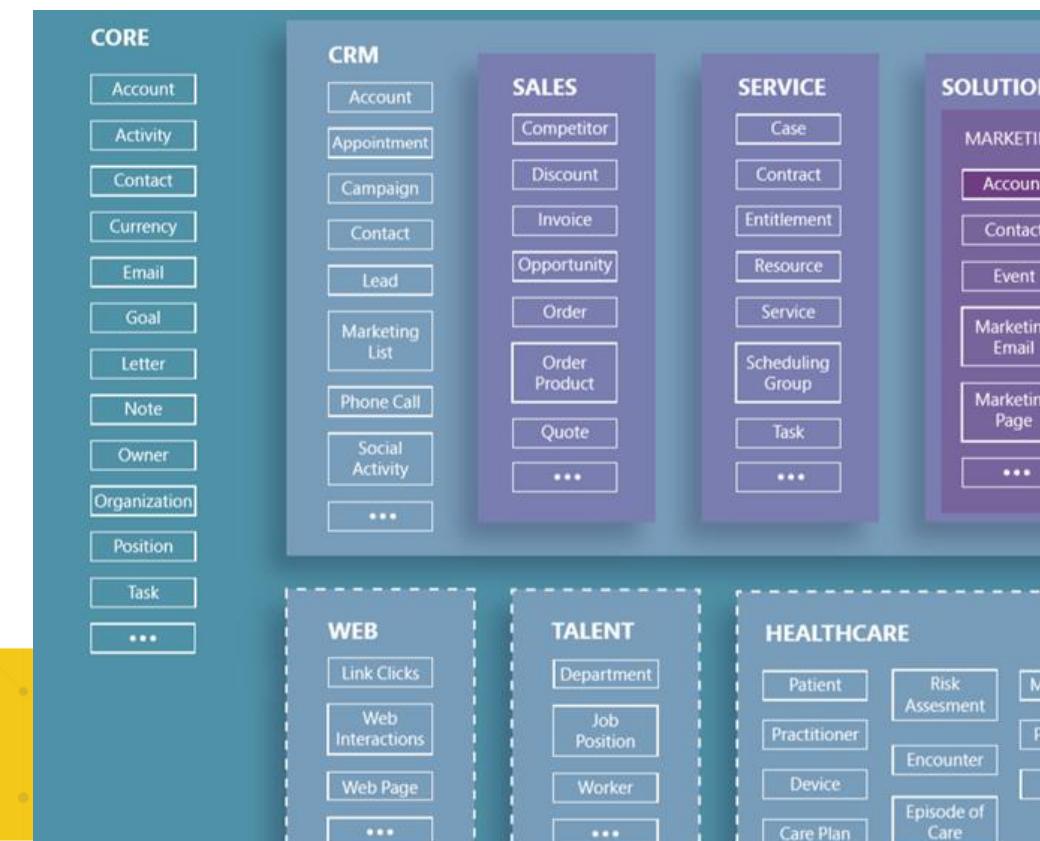
Standardized, modular, extensible

consists of

Entities

Attributes

Semantic metadata
relationships

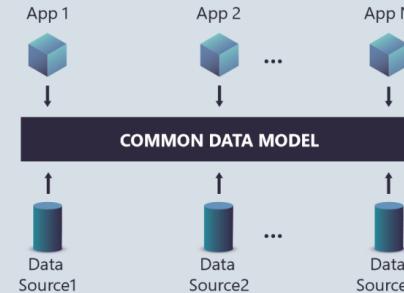


INTEGRATE & DISAMBIGUATE DATA WITH THE COMMON DATA MODEL

An **open-sourced** definition of modular and extensible **business entities** with **semantic metadata** that **simplify the challenges of application development and data integration**.



CDM unifies data in a well-known schema with semantic consistency.



App developers and backend integrators can develop **independently**.



Enables quick application deployment and development, out-of-the-box intelligence, and much more.

There's a growing collection of solutions that store data in CDM form:



Power BI



Dynamics 365



PowerApps



Azure

Open Data Initiative

As announced at Microsoft Ignite (2018), the Common Data Model is evolving as part of the [Open Data Initiative](#), a jointly-developed vision by Microsoft, Adobe, and SAP.

Common Data Service (CDS)

CDM is the definition, but...

... CDS stores Common Data Model (CDM) data

CDS for Apps
Dynamics365
PowerApps

More Logic and Validation
Business Rules
Business process flows

The screenshot shows the PowerApps interface with a sidebar on the left containing navigation links: Home, Learn, Apps, Create, Data (which is expanded to show Entities), Option sets, Data integration, Connections, and Custom connectors. The main content area is titled "Entities > Account". Below this, there are tabs for Fields, Relationships, Business rules, Views, Forms, Dashboards, Charts, and Keys. The Fields tab is selected. A table lists the fields for the Account entity:

Display name	Data type
Account Name	Text
Account Number	Text
Account Rating	Option Set
Address 1	Multiline Text
Address 1: Address Type	Option Set
Address 1: City	Text
Address 1: Country/Region	Text
Address 1: County	Text
Address 1: Fax	Text
Address 1: Freight Terms	Option Set
Address 1: Latitude	Floating Point

CDS (for Power BI) – PBI data flows

Data integration

CDM target entities

Azure Data Lake Storage Gen2

CDM Folders

Choose data source

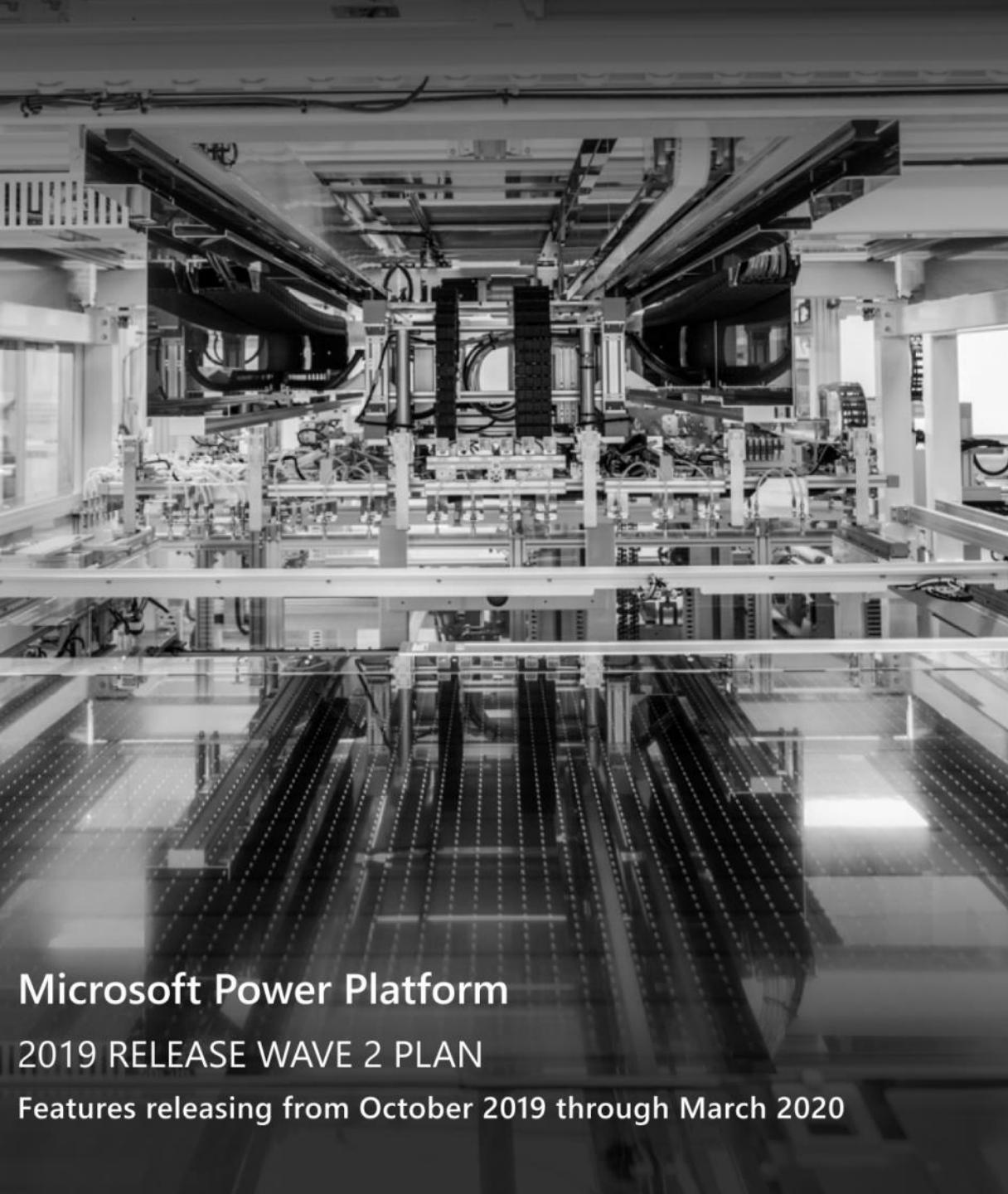
Power Query

All categories File Database Power BI Azure Online services Other

Data sources

 Access File	 Excel File	 Folder File
 Text/CSV File	 XML File	 Amazon Redshift Database
 MySQL database Database	 Oracle database Database	 PostgreSQL database Database
 Teradata database Database	 Vertica Database	 Power BI dataflows Power BI
 Azure HDInsight Spark Azure	 Azure SQL Data Warehouse Azure	 Azure SQL database Azure
 Microsoft Exchange Online Online services	 Salesforce objects Online services	 Salesforce reports Online services

Templates



Microsoft Power Platform

2019 RELEASE WAVE 2 PLAN

Features releasing from October 2019 through March 2020

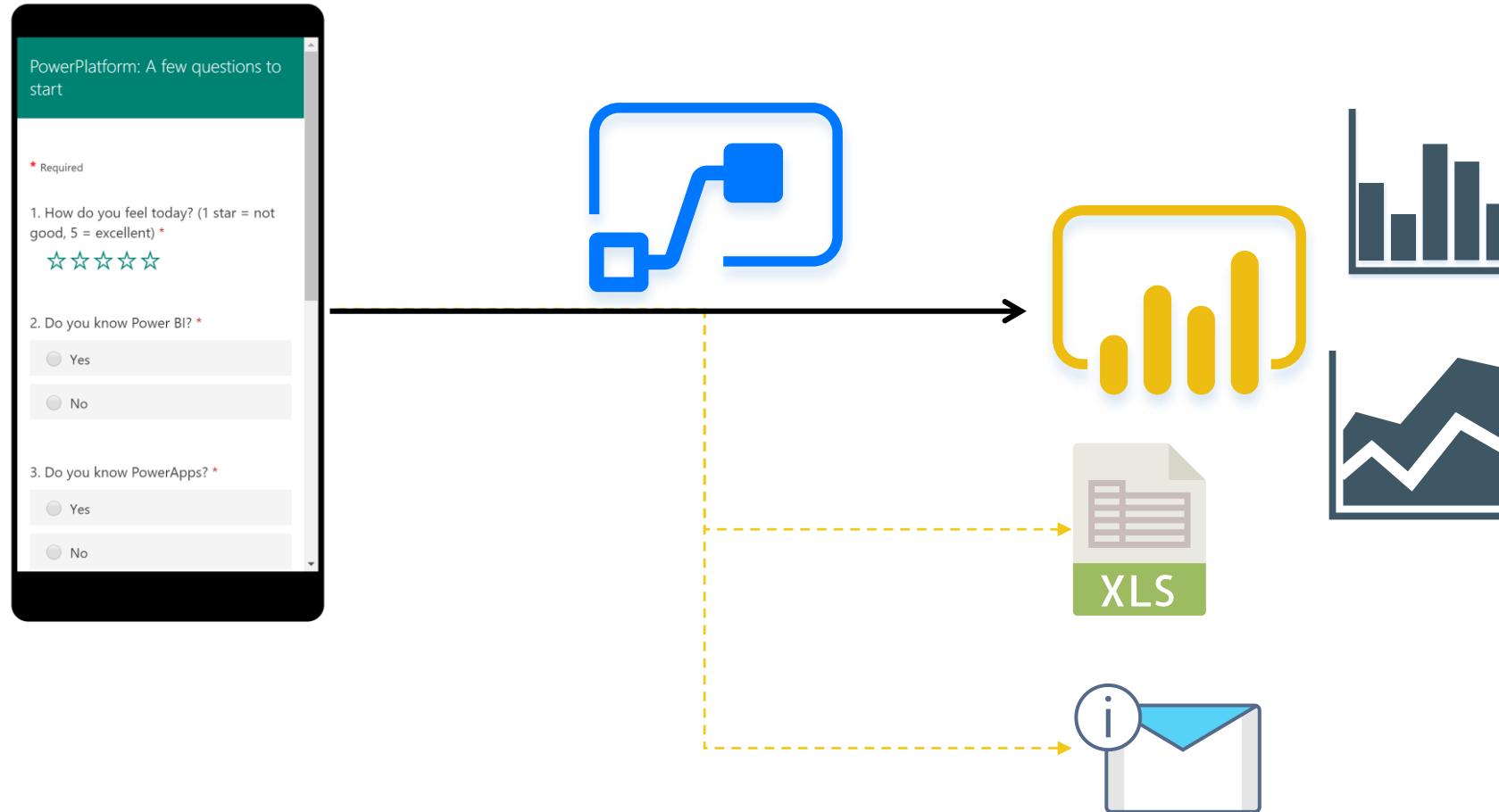
<http://aka.ms/businessappsreleasenotes>

#PowerplatformWT

Action!



Demo Setup





Integration





Teamwork

Power BI and PowerApps

The screenshot shows a Power BI dashboard titled "ScoreApp Dashboard". The main content area features a bar chart titled "Score BY NAME" with yellow bars representing individual scores. The names on the x-axis are Benutzer, Wolfgang, Kerstin, Thomas, User, chuck, Hans, Hans Zimmer, Thomas N, Winner, and WoLfi. The scores are 32, 31, 29, 15, 13, 10, 10, 10, 10, 8, and 5 respectively. Below the chart is a search bar labeled "Ask a question about your data". To the right of the chart is a dark panel with a "Name" field containing "Winner" and a "Score" field containing "10". A blue button at the bottom right of this panel says "Submit your Score". The top navigation bar includes icons for "Power BI", "Demos", "ScoreApp Dashboard", and various sharing and settings options.

Name	Score
Benutzer	32
Wolfgang	31
Kerstin	29
Thomas	15
User	13
chuck	10
Hans	10
Hans Zimmer	10
Thomas N	10
Winner	8
WoLfi	5

PowerApps and Flow

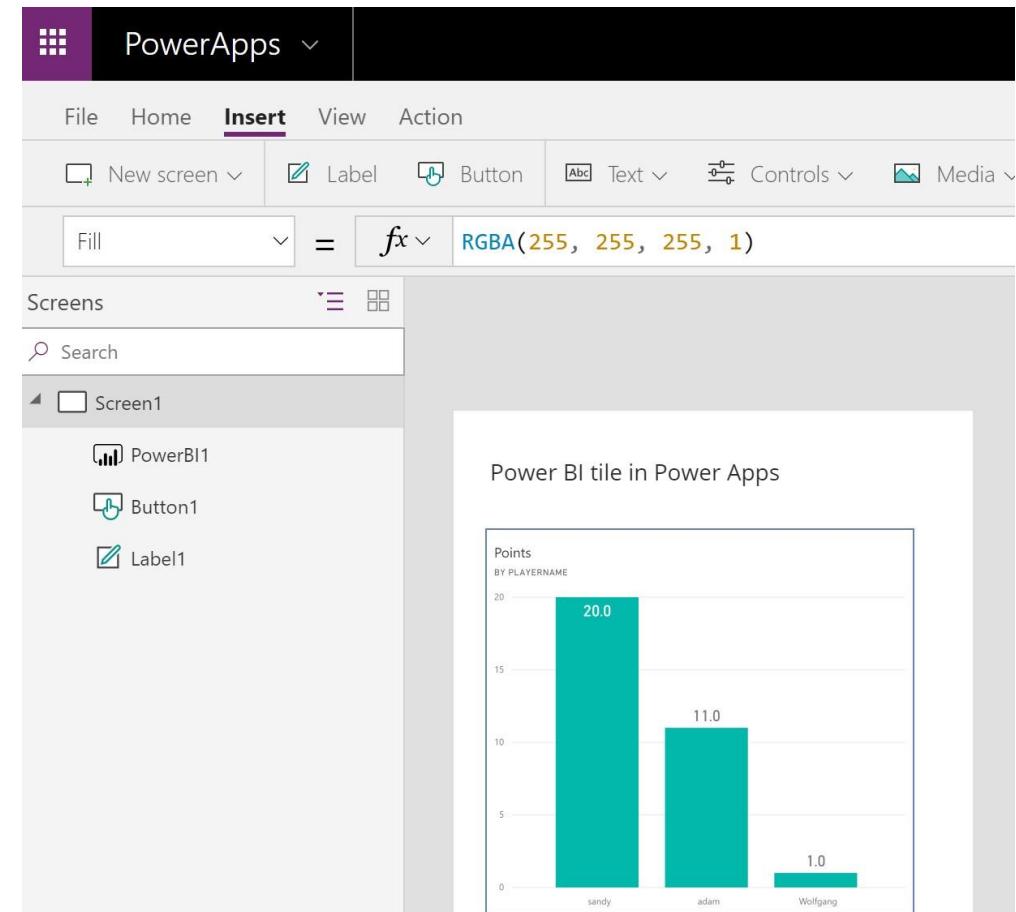
The screenshot shows the Microsoft Flow editor interface. At the top, there's a navigation bar with icons for Home, My flows, Approvals, Templates, Connectors, Learn, and a search bar. Below the navigation bar, the title "Flow Session" is displayed, followed by a "Save" button.

The main area shows a flow step titled "PowerApps". A yellow callout box highlights the "Add rows to a dataset (Preview)" step. This step has the following configuration:

- * Workspace: Demos01
- * Dataset: ScoreDataset
- * Table: RealTimeData
- Playername: Addrowstoada... (with an 'x' icon)
- Points: Addrowstoada... (with an 'x' icon)

At the bottom of the step configuration, there are buttons for "+ New step" and "Save".

PowerApps and Power BI



SharePoint and PowerApps

Save X Cancel ⌂ Copy link ⚙ Customize

New item

Title *

Enter value here

ProductName

Enter value here

Details

Yes

Price

Enter a number

Availability

Enter a date

Color

Azure

Attachments

Add attachments

Save Cancel



Save X Cancel ⌂ Copy link ⚙ Customize

ProductName

Data Monster

Details

Price

15

Availability

10/27/2018

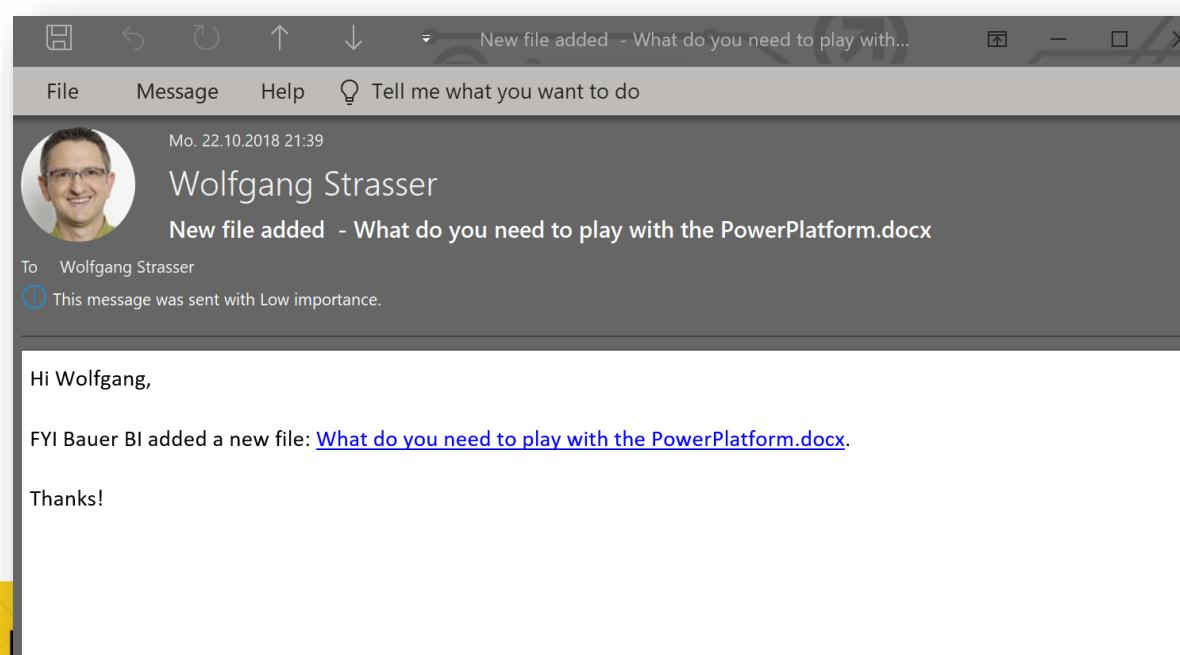
Color

Green



#PowerPlatformWWT

SharePoint and Flow



A screenshot of a SharePoint "Documents" library. The top navigation bar includes "New", "Upload", "Sync", "Export to Excel", "Flow" (with a dropdown menu), and three dots. A tooltip for the "Flow" tab shows two options: "Create a flow" and "See your flows".

A screenshot of the Microsoft Flow designer. A workflow titled "Send a customized email when a new file is added" is shown. The steps are:

- When a file is created (properties only)
 - Site Address: Demo - https://powerofbiat.sharepoint.com/sites/Demo
 - Library Name: Documents
 - Folder: /Shared Documents
- Get my profile (V2)
- Send an email
 - To: Mail
 - Subject: New file added - File name with ...
 - Body:

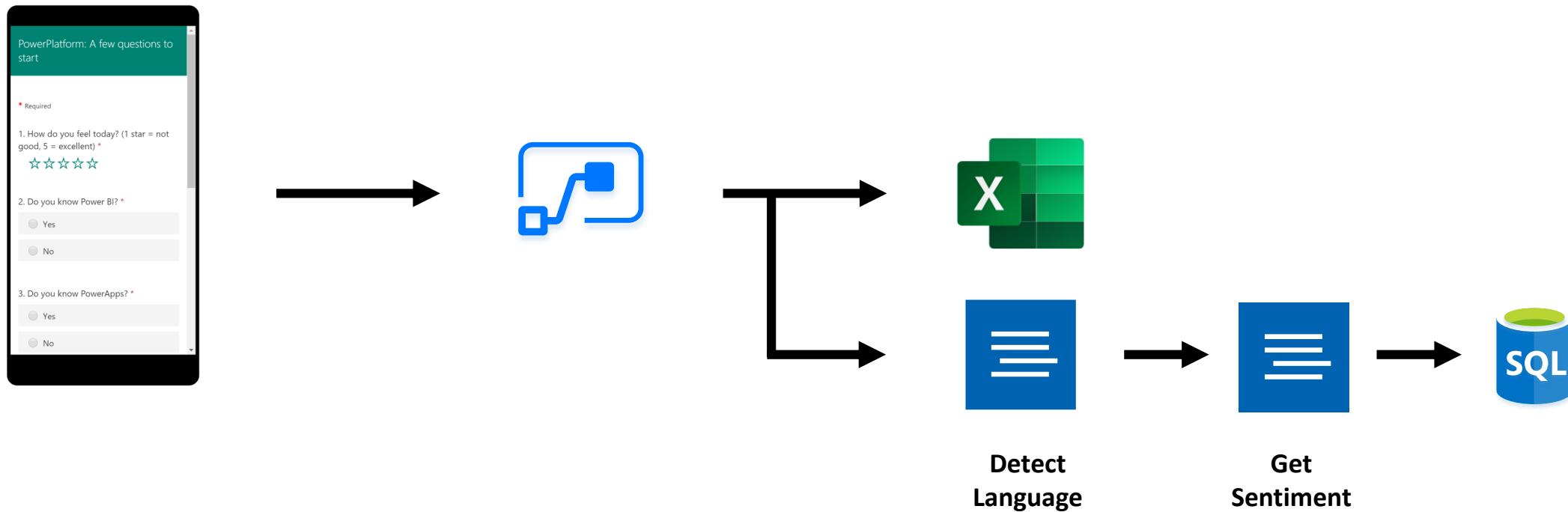
Hi Given Name
FYI Created By Dis... added a new file: Link to item
File name with ...

Excel and Flow

The screenshot shows a Microsoft Excel Online interface with a green header bar. The header includes the 'Excel Online' logo, the path 'Demo > Shared Documents', the title 'Book', and a user profile 'Wolfgang S...'. Below the header is a ribbon menu with tabs: FILE, HOME, INSERT, DATA, REVIEW, and VIEW. The 'DATA' tab is selected, revealing a 'Sort & Filter' group containing 'Filter' (which is highlighted in green), 'Sort Ascending', 'Sort Descending', 'Clear', 'Reapply', 'Flash Fill', 'Data Validation', and 'Data Tools'. The main content area displays a table with four columns: 'TweetText' (A), 'Event' (B), 'Score' (C), and an empty column (D). The table has 9 rows, with the 4th row currently selected. The 'Score' column contains numerical values: 0.975789, 0.017107, and 0.998578. To the right of the table, there is a 'Flow' card titled 'My flows' with a '+ New' button. The card lists a single flow named 'Get Text Sentiment Score for TweetText'.

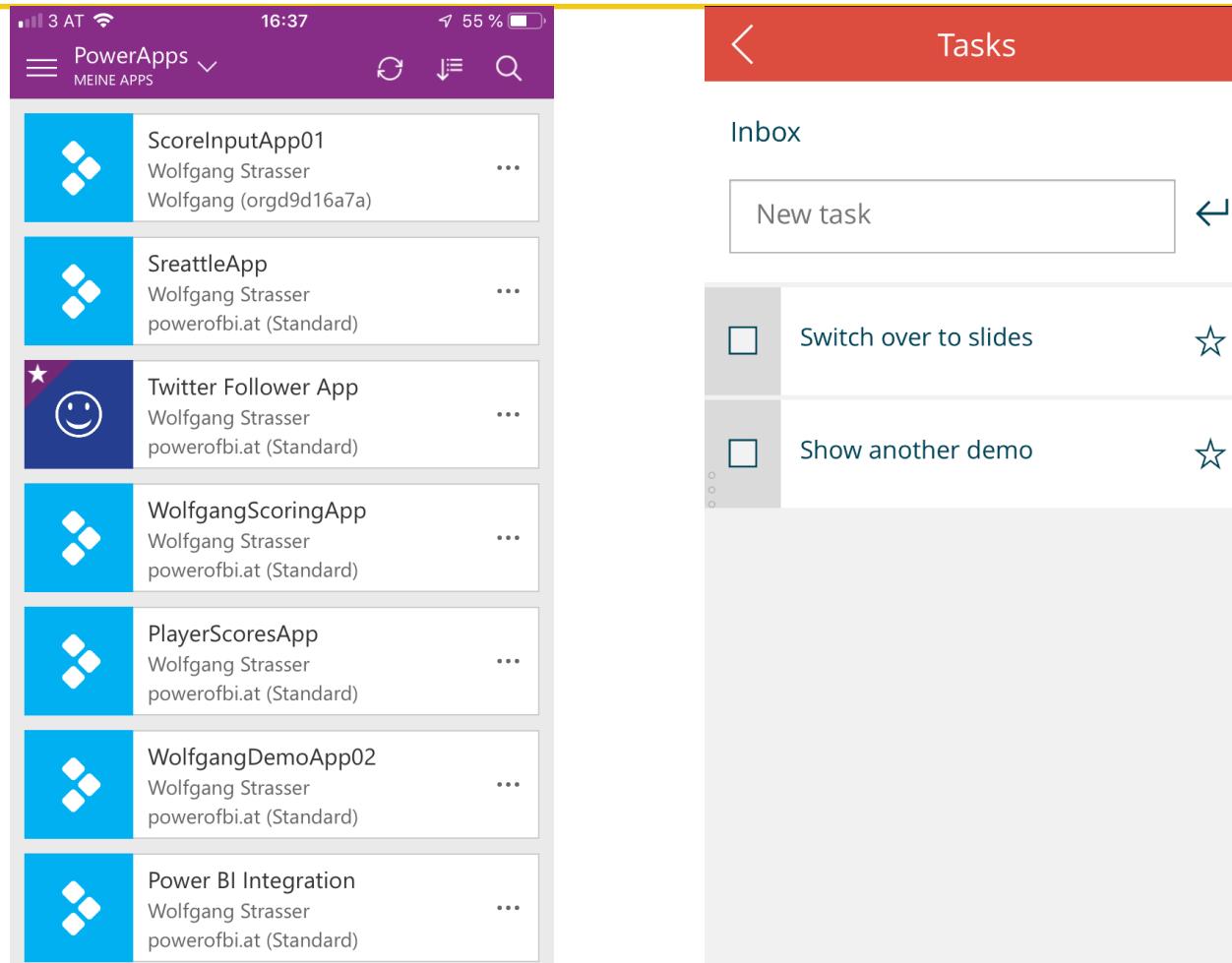
	A	B	C	D
1	TweetText	Event	Score	
2	Happy Greetings from this Sessions!	#SQLSatMunich	0.975789	
3	OMG I am soooo angry	#SQLSatMunich	0.017107	
4	Super Happy	#SQLsatMunich	0.998578	
5				
6				
7				
8				
9				

Flow, Cognitive Services, all together





PowerApps Mobile



Power BI Mobile

The image displays two side-by-side screenshots of the Microsoft Power BI mobile application on an iPhone. Both screens show a similar layout with navigation and status bars at the top.

Top Bar: Shows signal strength, time (16:24), battery level (94%), and a green battery icon.

Header: Displays a user profile picture, the word "Home", a bell icon, and a search icon.

Section 1: Häufig aufgerufen (Frequently Accessed)

- A card for the "Hybrid Power BI Dashboard" from 10.2018, showing a welcome message and a small thumbnail image.
- A partially visible card for "VanArsdel" with a "Dashboard" link.

Section 2: Zuletzt geöffnet (Recently Opened)

- A card for the "VanArsdel Dashboard" last updated on 24.10.2019, featuring a large "47.55%" value and a line chart titled "retweetcount BY DATE".
- A card for the "DIAD Final Report" with a bar chart titled "Revenue BY MANUFACTURER, YEAR".

Bottom Navigation Bar: Includes icons for Home, Favorites, Grid, Reports, and a three-dot menu. A yellow footer bar at the bottom left contains the text "Power Platform World Tour" and a yellow footer bar at the bottom right contains the text "#PowerplatformWT".

Flow Mobile

3 AT WiFi 16:24 94 %

Feed Genehmigungen

HEUTE

Automation: When a new tweet is posted #POWERPLATFORM -> Insert row
Der Flow wurde 59-mal erfolgreich ausgeführt.

21m >

Automation: TWITTER Follower Statistics
Flow wurde 1-mal erfolgreich ausgeführt.

14h >

GESTERN

Automation: When a new tweet is posted #POWERPLATFORM -> Insert row
Der Flow wurde 61-mal erfolgreich ausgeführt.

11:03 PM >

Automation: TWITTER Follower Statistics
Flow wurde 1-mal erfolgreich ausgeführt.

2:01 AM >

VOR 2 TAGEN

Aktivität Suchen Schaltfl. Flows Konto

This screenshot shows the Power Automate mobile application interface. At the top, it displays signal strength, time (16:24), and battery level (94%). Below this, there are two sections: 'Feed' and 'Genehmigungen'. The 'Feed' section is titled 'HEUTE' and contains four items: 1) 'Automation: When a new tweet is posted #POWERPLATFORM -> Insert row' (executed 59 times, 21m ago); 2) 'Automation: TWITTER Follower Statistics' (executed 1 time, 14h ago); 3) 'Automation: When a new tweet is posted #POWERPLATFORM -> Insert row' (executed 61 times, 11:03 PM); 4) 'Automation: TWITTER Follower Statistics' (executed 1 time, 2:01 AM). The 'Genehmigungen' section is currently empty. At the bottom, there are navigation icons for Aktivität, Suchen, Schaltfl., Flows, and Konto.

3 AT WiFi 16:28 95 %

X Flow bearb. Aktualisieren

Flowname

Automation: TWITTER Follower Statistics

Recurrence →

Get user →

Insert row →

Tabellenname: twitterFollowers
logTimestamp: @utcNow()
followercount: Anzahl von Fo... x

Verbunden mit "strasserdaten SQL Azure".
Ändern Sie die Verbindung.

This screenshot shows the Power Automate mobile application in edit mode for a flow named 'Automation: TWITTER Follower Statistics'. The flow consists of three steps: 'Recurrence', 'Get user', and 'Insert row'. The 'Insert row' step is currently selected and expanded, showing its configuration details: 'Tabellenname' is set to 'twitterFollowers', 'logTimestamp' is set to '@utcNow()', and 'followercount' is set to 'Anzahl von Fo... x'. A note at the bottom states 'Verbunden mit "strasserdaten SQL Azure"' and 'Ändern Sie die Verbindung.' (Change connection).

3 AT WiFi 16:25 94 %

Schaltfl.

MileageTracker Button Flow

PP Demo: Get today's weather forecast for my current location

E-Mail mit meinem Standort an mich senden

Twitter Follower

This screenshot shows the Power Automate mobile application displaying a list of four flows. Each flow is represented by a circular icon with a blue border and a white icon: 1) 'MileageTracker Button Flow' (blue circle, Mileage icon); 2) 'PP Demo: Get today's weather forecast for my current location' (blue circle, Sun icon); 3) 'E-Mail mit meinem Standort an mich senden' (teal circle, Mail icon); 4) 'Twitter Follower' (blue circle, Twitter icon). Each flow has a three-dot menu icon to its right.

Power!

In the Platform

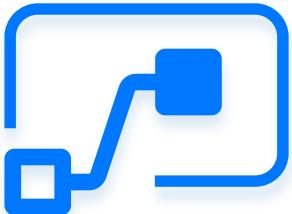
<https://workingondata.wordpress.com/2018/09/04/power-platform-link-collection/>



And – Try it out & learn more!



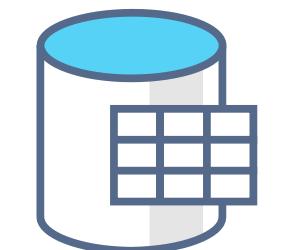
PowerBI.Microsoft.com



PowerApps.Microsoft.com



Flow.Microsoft.com



github.com/Microsoft/CDM

24 Days of PowerPlatform – <https://workingondata.wordpress.com>

<https://workingondata.wordpress.com/2018/09/04/power-platform-link-collection/>

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Read more at

RSS <https://workingondata.wordpress.com>

