



Dashboard in a Day

Vishal Pawar
Microsoft MVP, MCT



Prerequisites and setup steps



- At minimum, a computer with 2-cores and 4GB RAM running Windows 8 / Windows Server 2008 R2, or later
- **Display:** At least 1440x900 or 1600x900 (16:9) recommended.
- **Internet connectivity:** You must have the ability to connect to the Internet outside your organization
- **Microsoft Power BI Desktop installed:** you should have downloaded and installed Power BI Desktop from the Microsoft Store <https://www.microsoft.com/en-us/p/power-bi-desktop/9ntxr16hnw1t> or from the download center <https://go.microsoft.com/fwlink/?LinkId=521662>.
- Microsoft Power BI Desktop requires Internet Explorer 10 or later.
- **Signup for Power BI:** Go to <http://aka.ms/pbidiadtraining> and sign up for Power BI with a business email address. If you cannot sign up for Power BI, let the instructor know.
- If you have an existing account, please go to <https://powerbi.microsoft.com> and **Sign in** using your **Power BI account**

Agenda *(times are approximate and will be fluid with the class)*

Morning

- 09:00 AM – 09:30 AM – Introduction to Power BI and Power BI Desktop overview
- 09:30 AM – 12:00 PM – Power BI Desktop – Lab
- 12:00 PM – 01:00 PM – Lunch and demos

Afternoon

- 01:00 PM – 02:00 PM – Power BI Desktop – Lab (Continued)
- 02:00 PM – 02:15 PM – Power BI Service overview
- 02:15 PM – 03:00 PM – Power BI service – Lab
- 03:00 PM – 05:00 PM – Bring your own data and build dashboards

Dashboard in a Day

 VANARSDEL 

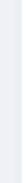
Manufacturer Analysis

Last 7 Years (Calendar) Manufacturers 

1/1/2011 - 12/31/2017

KPIs & Gauges

Revenue and PY Sales

\$2.25bn  \$3bn  \$0bn \$5bn

Revenue and % Growth by Year

Revenue ● % Growth



Year	Revenue (\$bn)	% Growth
2011	~\$0.25	~28%
2012	~\$0.30	~22%
2013	~\$0.32	~18%
2014	~\$0.35	~15%
2015	~\$0.38	~12%
2016	~\$0.40	~10%
2017	~\$0.45	~8%

Year

     Year

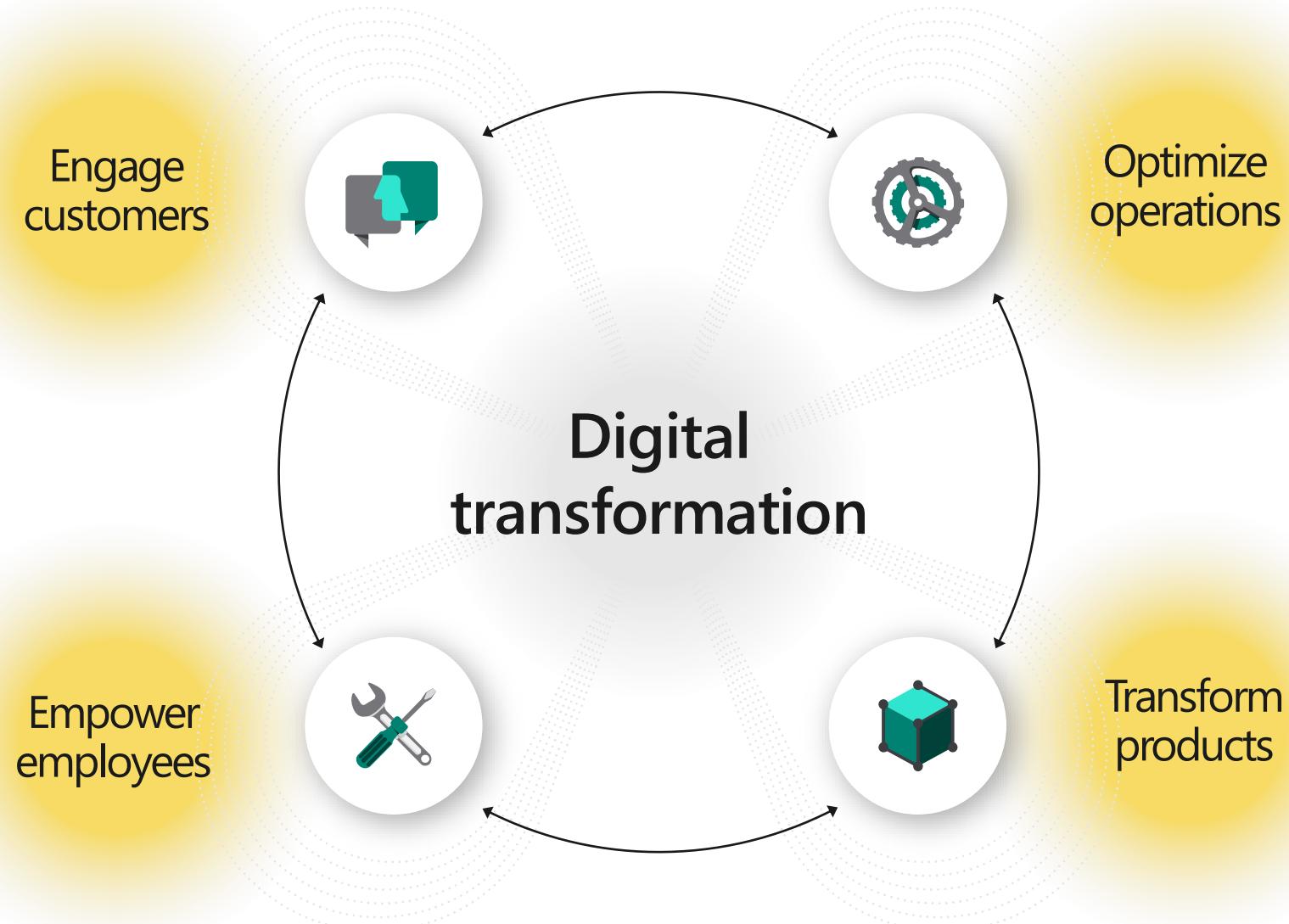
Revenue by Country

Country	Revenue (\$M)
USA	\$1,455M
Australia	\$659M
Japan	\$197M
Nigeria	\$72M
Germany	\$60M
Mexico	\$46M
Canada	\$16M

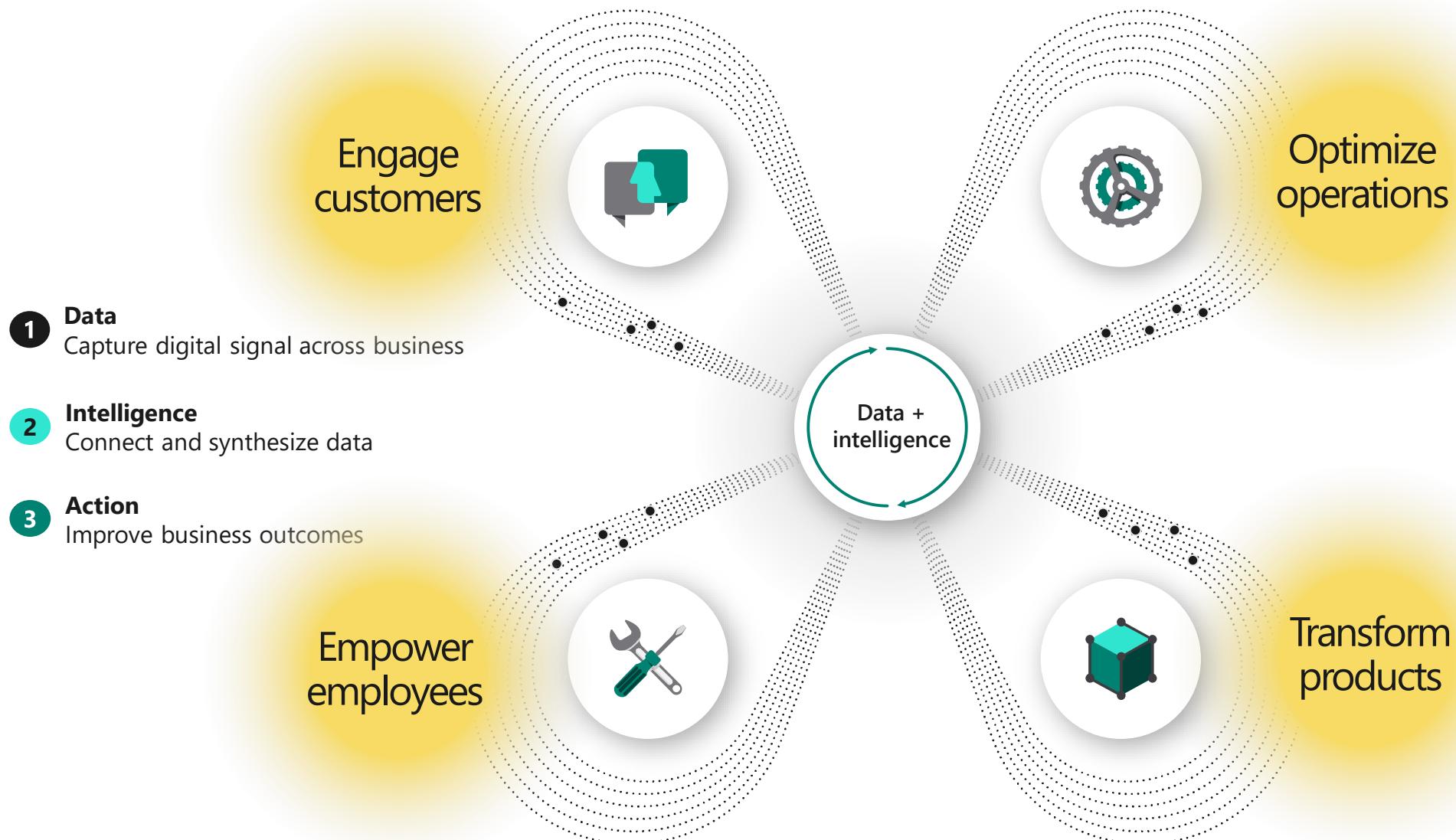
Drill Down/Up to see more info

Category	Revenue	Bar	% GT Revenue
Urban	\$2,018,994,602		80.63%
Rural	\$424,498,959		16.95%
Mix	\$30,259,696		1.21%
Youth	\$30,173,691		1.21%
Total	\$2,503,926,948		100.00%

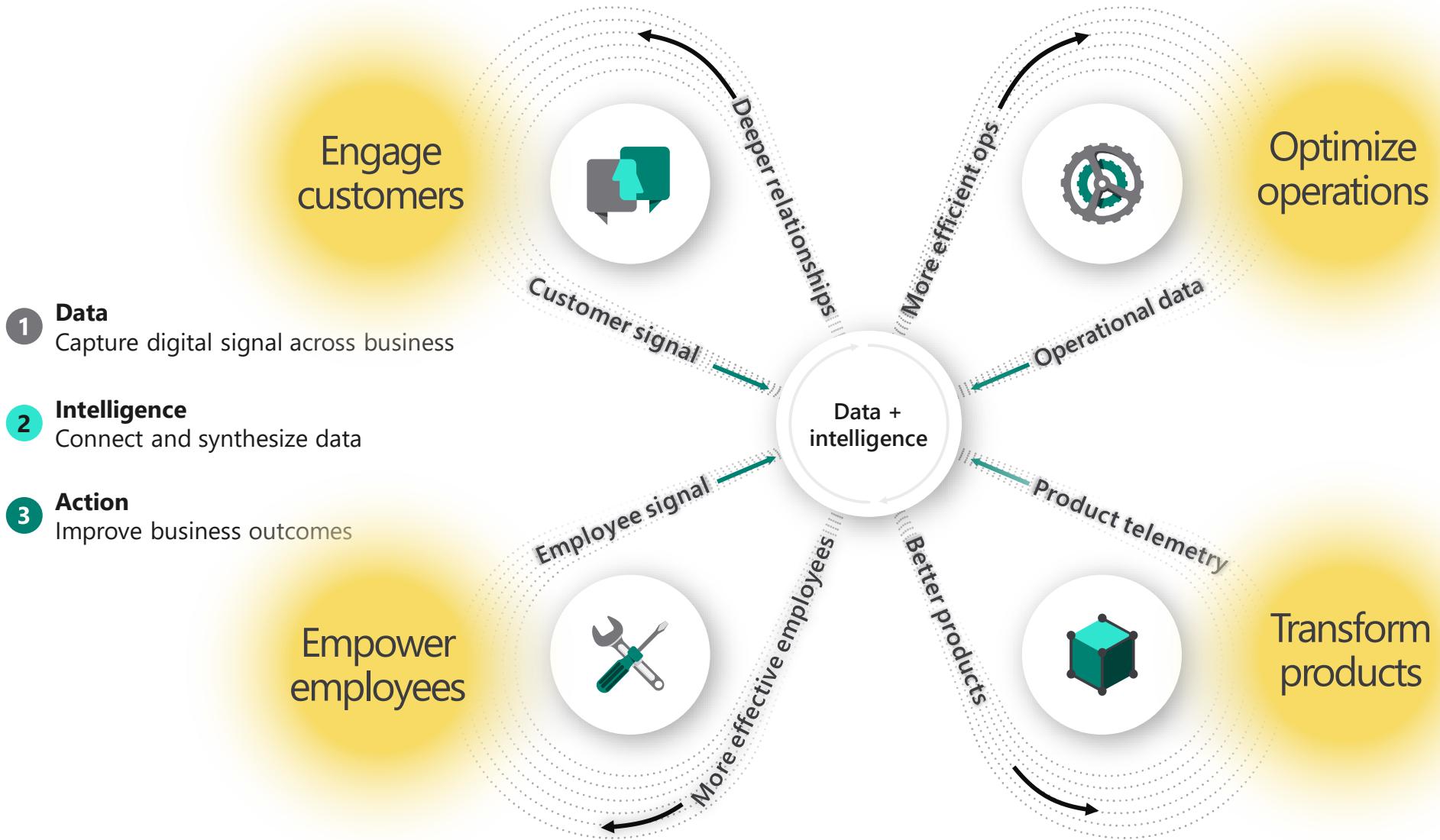
Digital Transformation



Digital Feedback Loop



Digital Feedback Loop



Power Platform

One connected platform that empowers everyone to innovate



Analyze

Make sense of your data through interactive, real-time dashboards and unlock the insights needed to drive your business forward



Act

Build apps in hours—not months—that easily connect to data, use Excel-like expressions to add logic, and run on the web, iOS, and Android devices



Automate

Include powerful workflow automation directly in your apps with a no-code approach that connects to hundreds of popular apps and services



Power BI



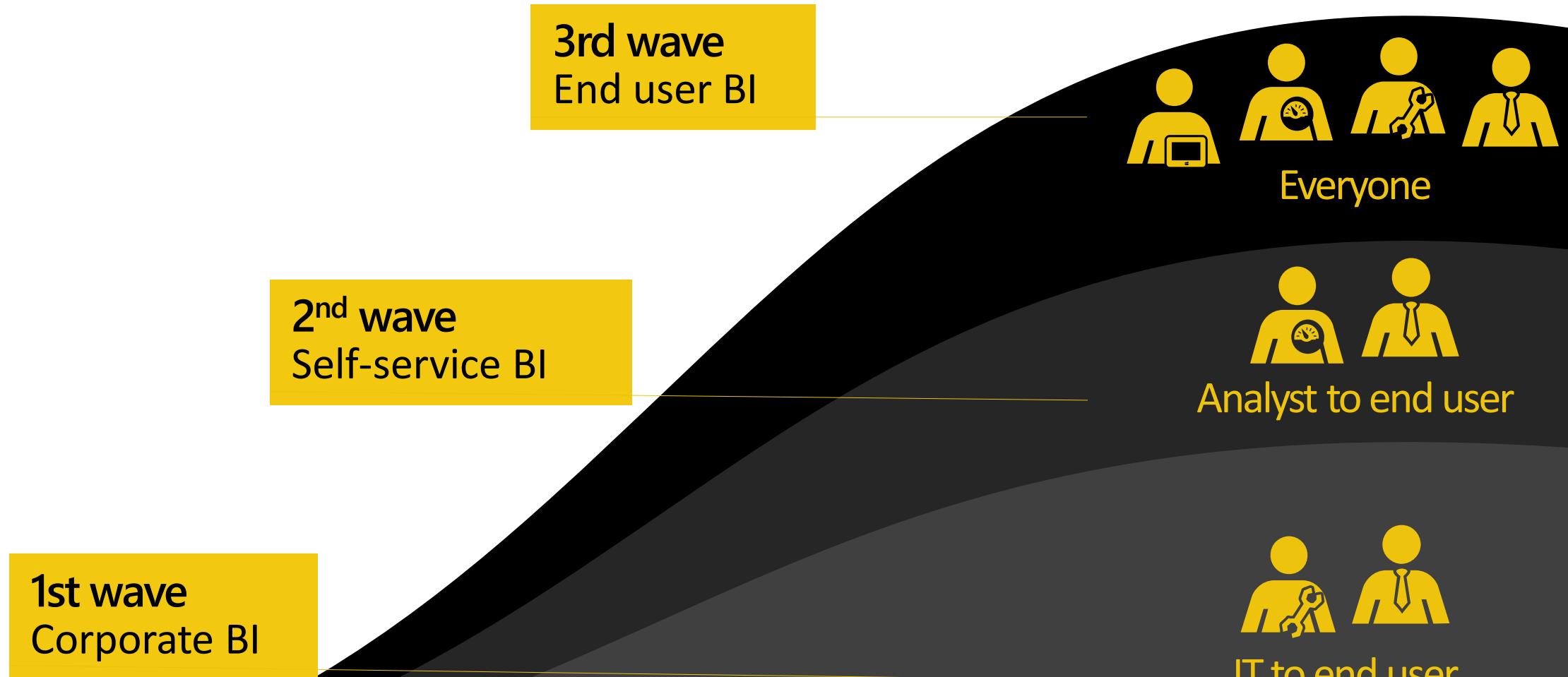
PowerApps



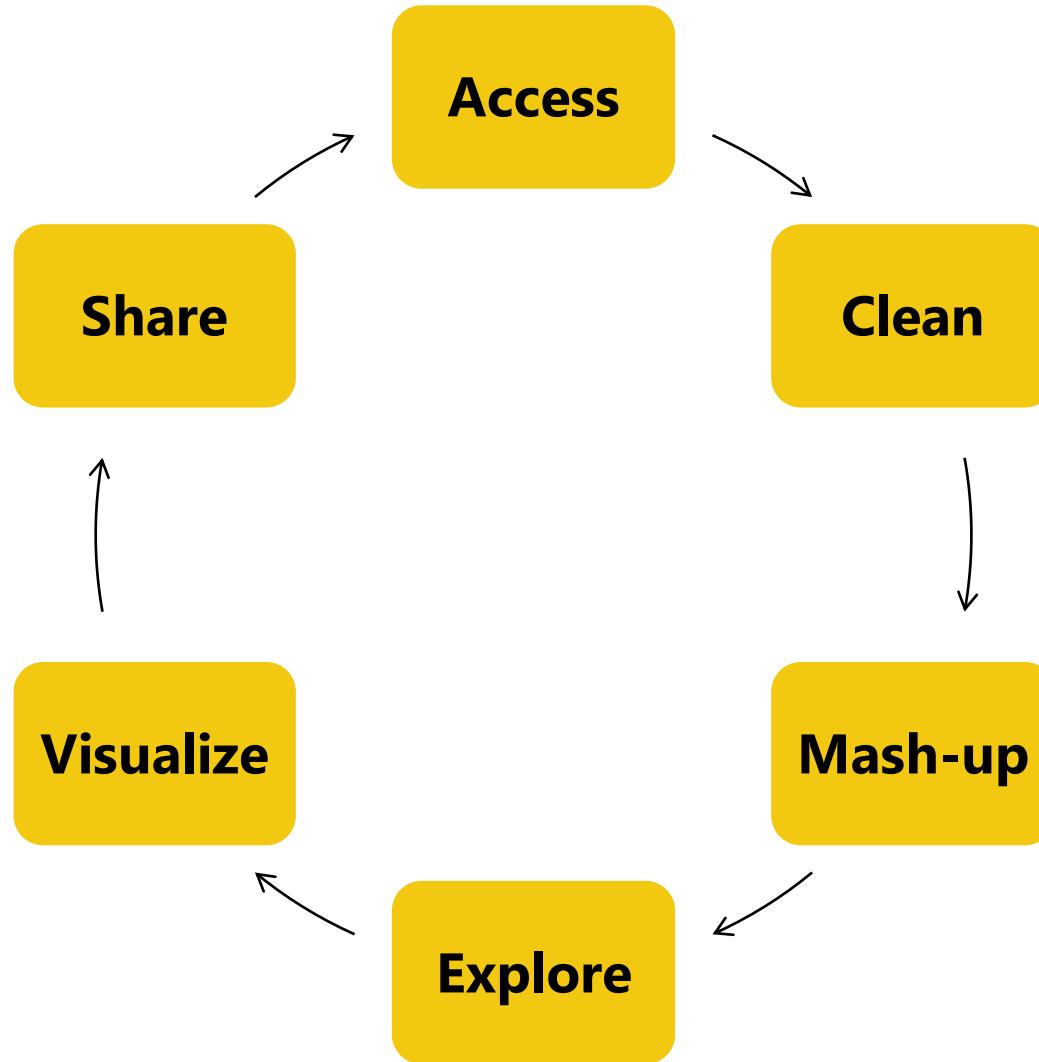
Microsoft Flow

Microsoft Power Platform

The Evolution of BI

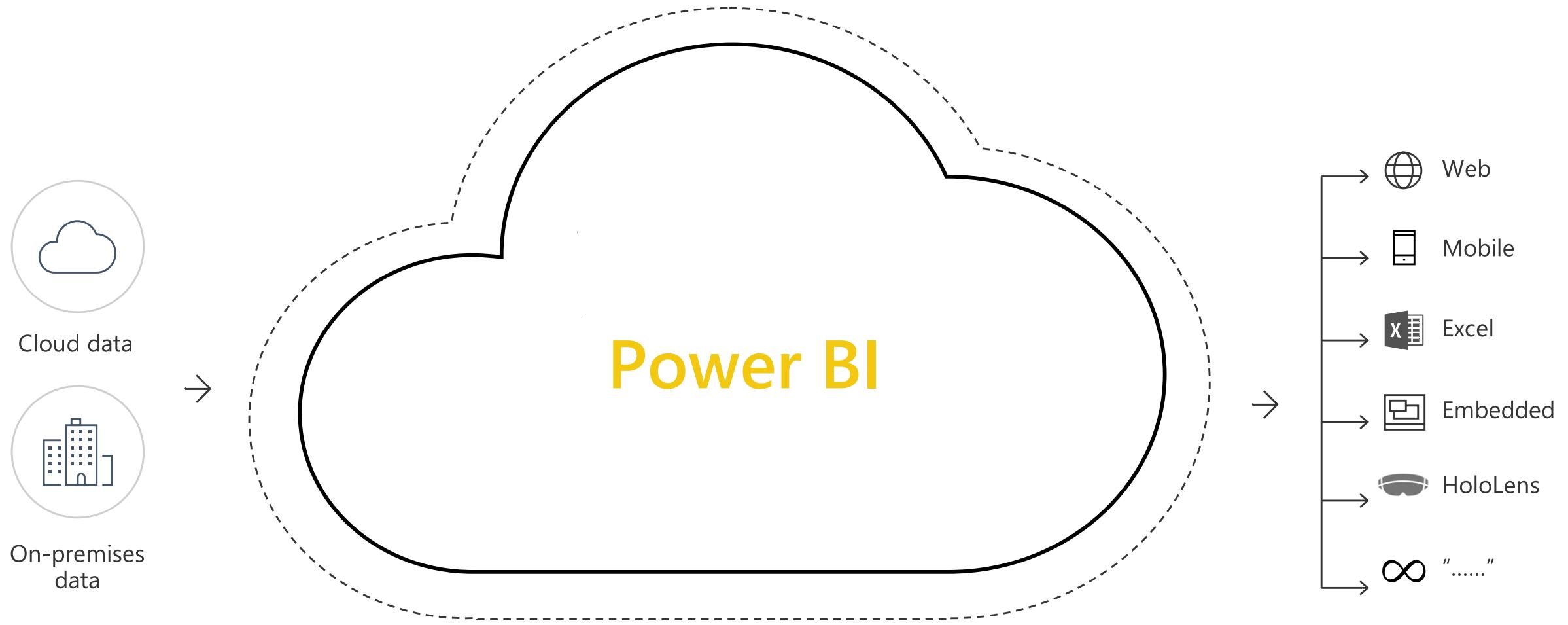


End User Needs



Power BI: experience your data

Any data, any way, anywhere



Data sources



SaaS solutions

e.g. *Marketo, Salesforce, GitHub, Google Analytics*



Organizational

Corporate data sources or external data services



On-premises Data



Azure services

Azure SQL, Stream Analytics...



Excel files



Power BI Desktop files
Data from files, databases, Azure, and other sources

Connect to 115+ data sources, both on-premises and cloud

- Data from Applications
 - SaaS services that you already use
- Data from your organization
 - Content published by others in your org (Datasets and Dataflows)
- Big data and more
 - Azure data services, e.g. SQL DW, ADLS.
 - On-premises data sources, e.g. Oracle & SSAS
- Data from files
 - Import data from Text, CSV, Excel and Power BI Desktop files

Access all your **DATA**

Get Data

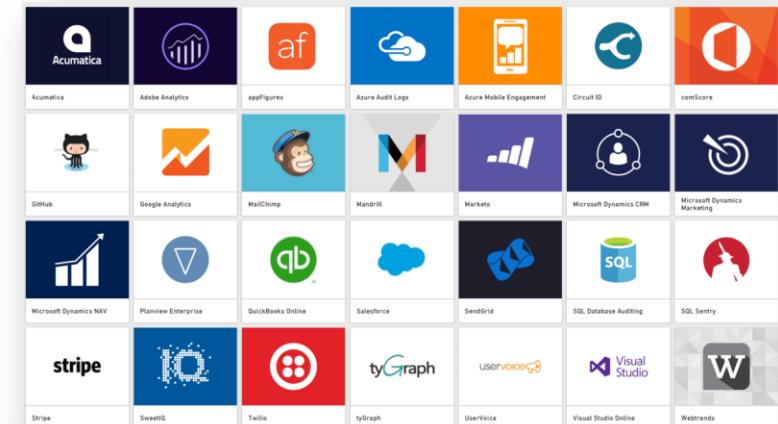
Need more guidance? [Try this tutorial](#) or [watch a video](#)

Discover content Create new content

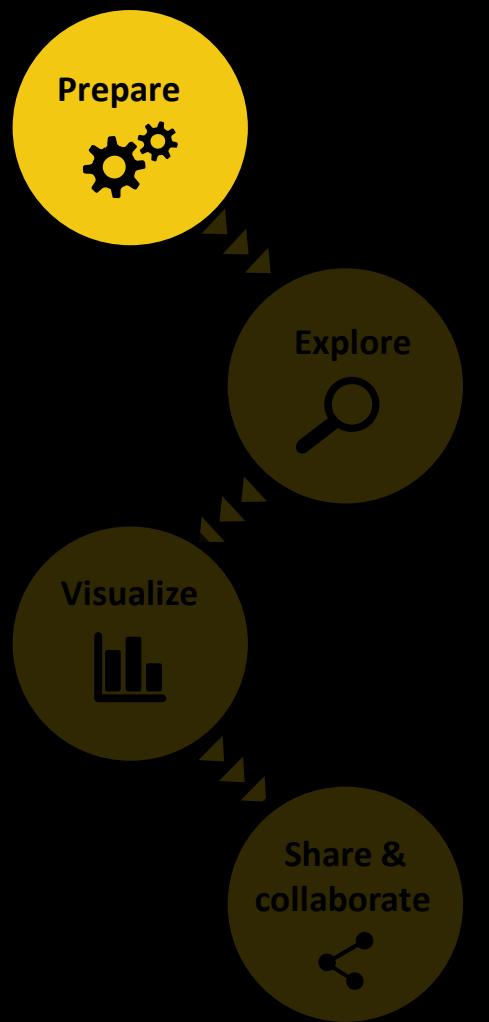
My organization	Services	Files	Databases
Discover apps published by other people in your organization.	Choose apps from online services that you use.	Bring in your reports, workbooks, or data from Excel, Power BI Desktop or CSV files.	Use Power BI Desktop to connect to data in Azure SQL Database and more.
Get	Get	Get	Get

More ways to create your own content

[Samples](#) [Organizational Content Packs](#)
[Partner Showcase](#) [Service Content Packs](#)



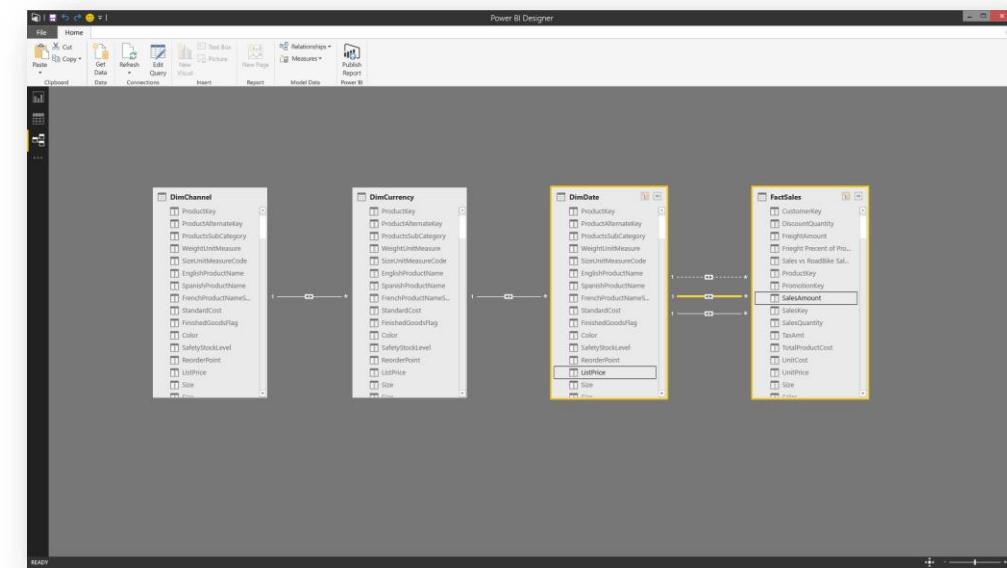
Clean and mash-up your **DATA**



- Consolidate data from a broad range of sources
 - Merge or append queries to combine data from multiple queries into a single query
- Transform data to fit your needs using intuitive UI
 - Select data for inclusion
 - Cleanse data and remove errors
- Define calculations to generate new fields for use in reports
- Develop advanced analytics using a combination of measures and relationships
 - Uncover correlations, highlight exceptions and understand business outcomes

A screenshot of the Power BI Data Editor. The top ribbon shows "File", "Home", "Transform", "Add Column", and "View". The "Transform" tab is selected. The "Data Type" dropdown is set to "Whole Number". The "Table" pane on the left shows "7 Queries" with items: Sales, Date, Geo, Manufacturer, and Product. The main area displays a table with columns: ProductID, Date, Zip, Units, Revenue, and Country. The table has 6 rows of data. The "Transform" ribbon bar includes tools like Transpose, Detect Data Type, Replace Errors, Pivot Column, Unpivot Columns, Fill, Move, Split, Format, ABC Extract, Merge Columns, and Parse.

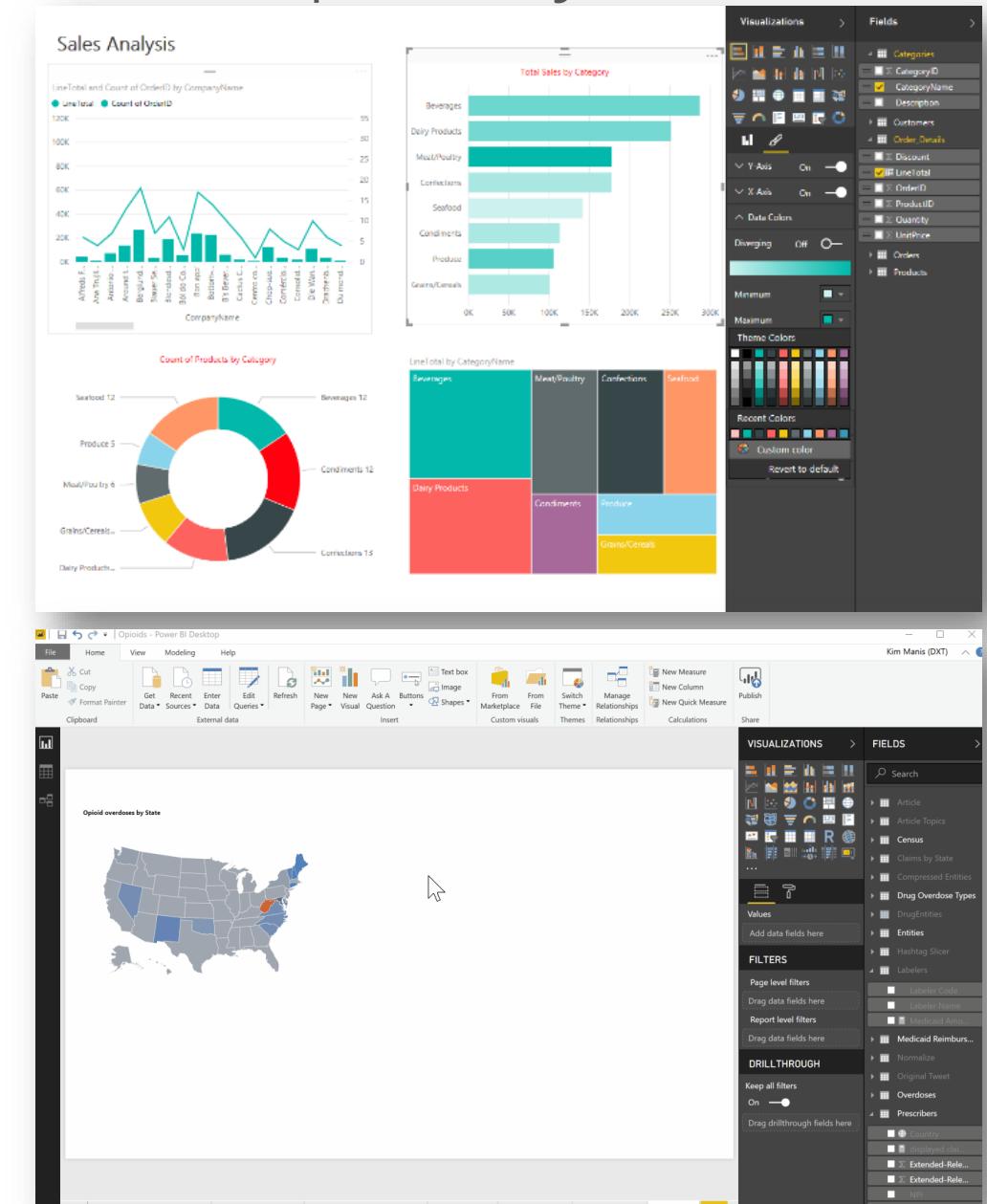
ProductID	Date	Zip	Units	Revenue	Country
1	833	1/15/1999	76108	1	797.9475
2	837	1/15/1999	33436	1	813.6975
3	837	1/15/1999	76531	1	813.6975
4	838	1/15/1999	29526	1	934.4475
5	838	1/15/1999	33584	1	944.9475
6	838	1/15/1999	33947	1	944.9475



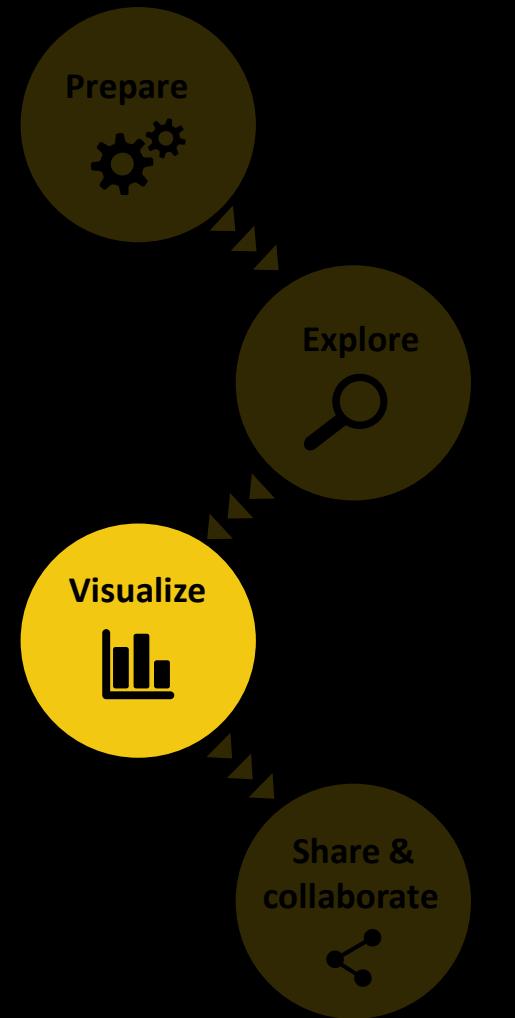
Explore your DATA



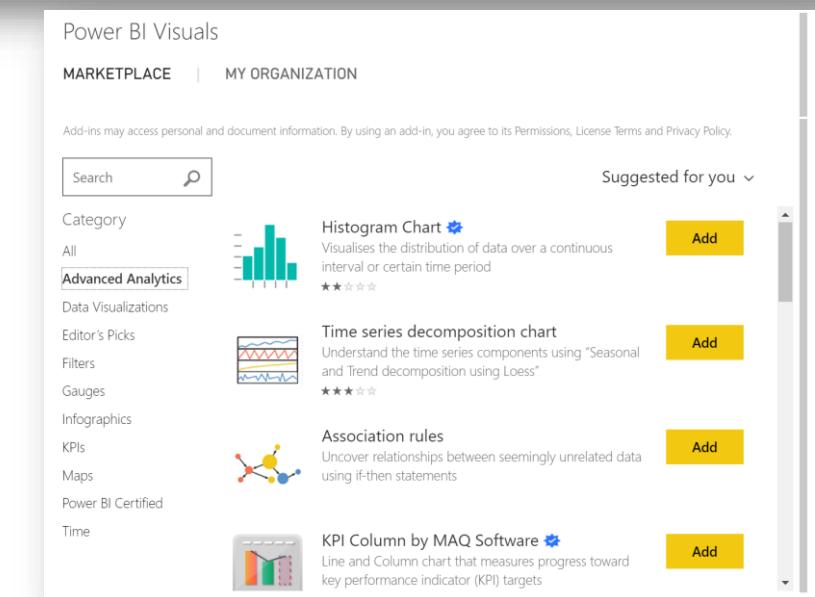
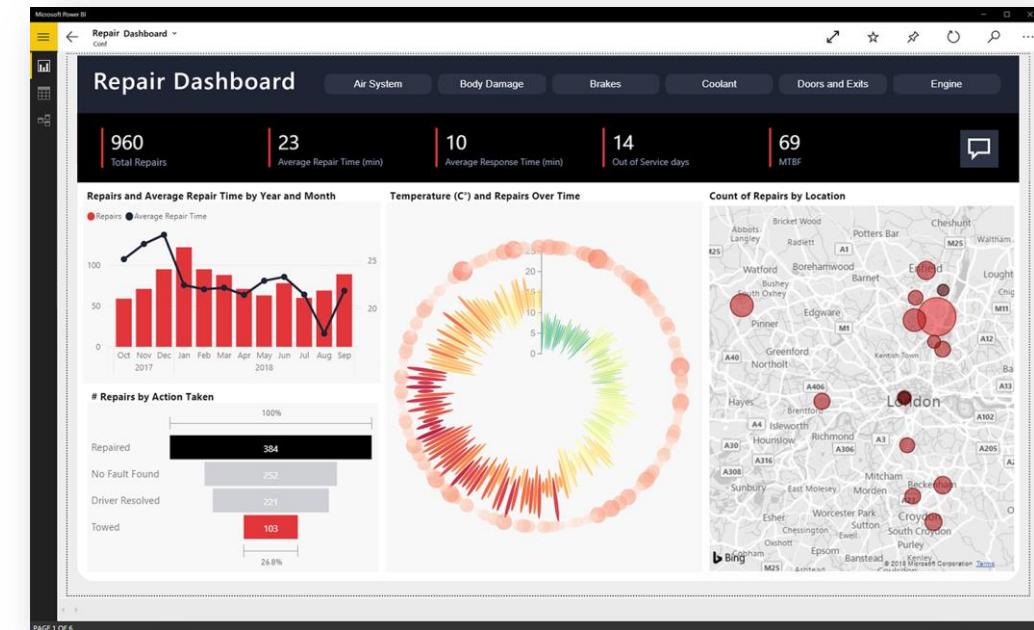
- Explore data in a variety of ways and across multiple visualizations using drag and drop canvas
- Dig deeper into your reports
 - Drill-down in your hierarchical data
 - Filter, sort, hover over and highlight data
- Leverage Quick Insights to find insights in your data
- Ask questions of your data in natural language with Q&A
 - Type questions in plain language
 - Q&A intelligently filters, sorts, aggregates, groups and displays data based on the question



Visualize your DATA



- Visualize data in a variety of ways
- Growing number of visualization types
 - Donuts, basic area, waterfall, filled maps, tree maps, funnel, gauges combo charts and more
 - Custom visuals available from Power BI Visuals Marketplace
 - Tools to develop, test, package new custom visuals
- Visualizations on report page are connected – select value in one visualization to change other visualizations
- Full screen pop out mode for report visuals to show additional details



Bring your story to life with **DATA**

Prepare



Explore



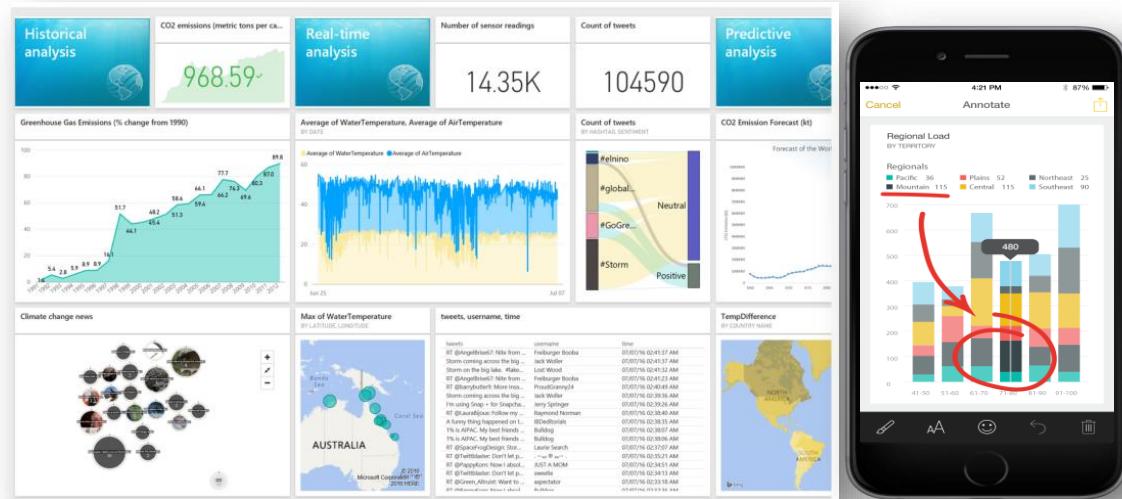
Visualize



Share & collaborate



- Save Power BI Desktop report files and easily publish them to powerbi.com
 - Access dashboards using native mobile apps for Windows, iOS and Android
 - Share as appropriate with other Power BI users in your organization
 - Package your reports in apps for easy consumption and control
 - Easily embed interactive Power BI visualizations in blog posts, websites, through emails or social media With Power BI
- Publish to web**



Create an app workspace

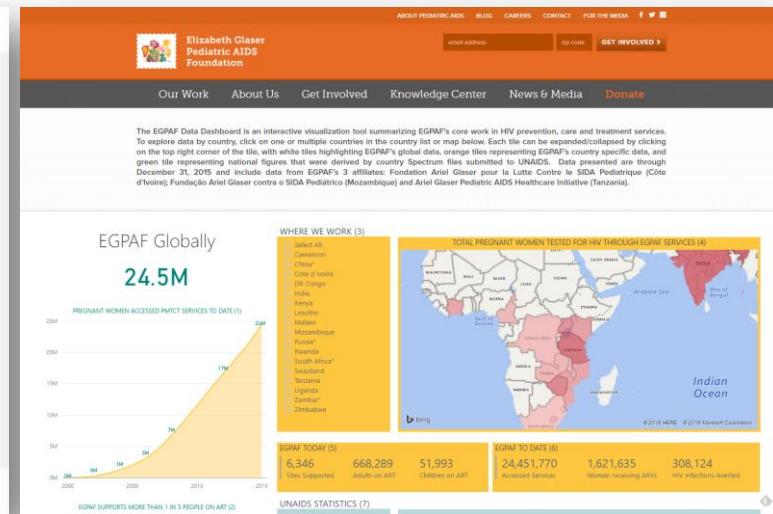
Name your workspace

Private - Only approved members can see what's inside

Members can edit Power BI content

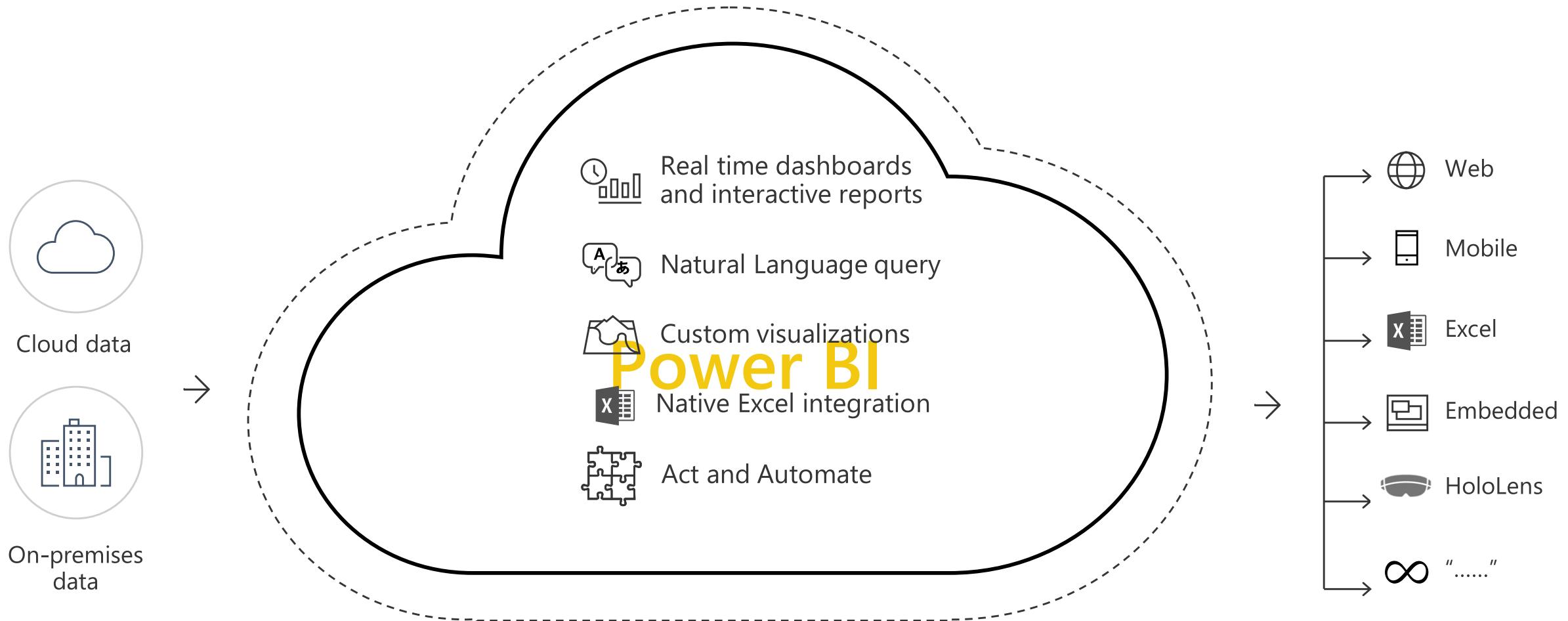
Add workspace members

Advanced

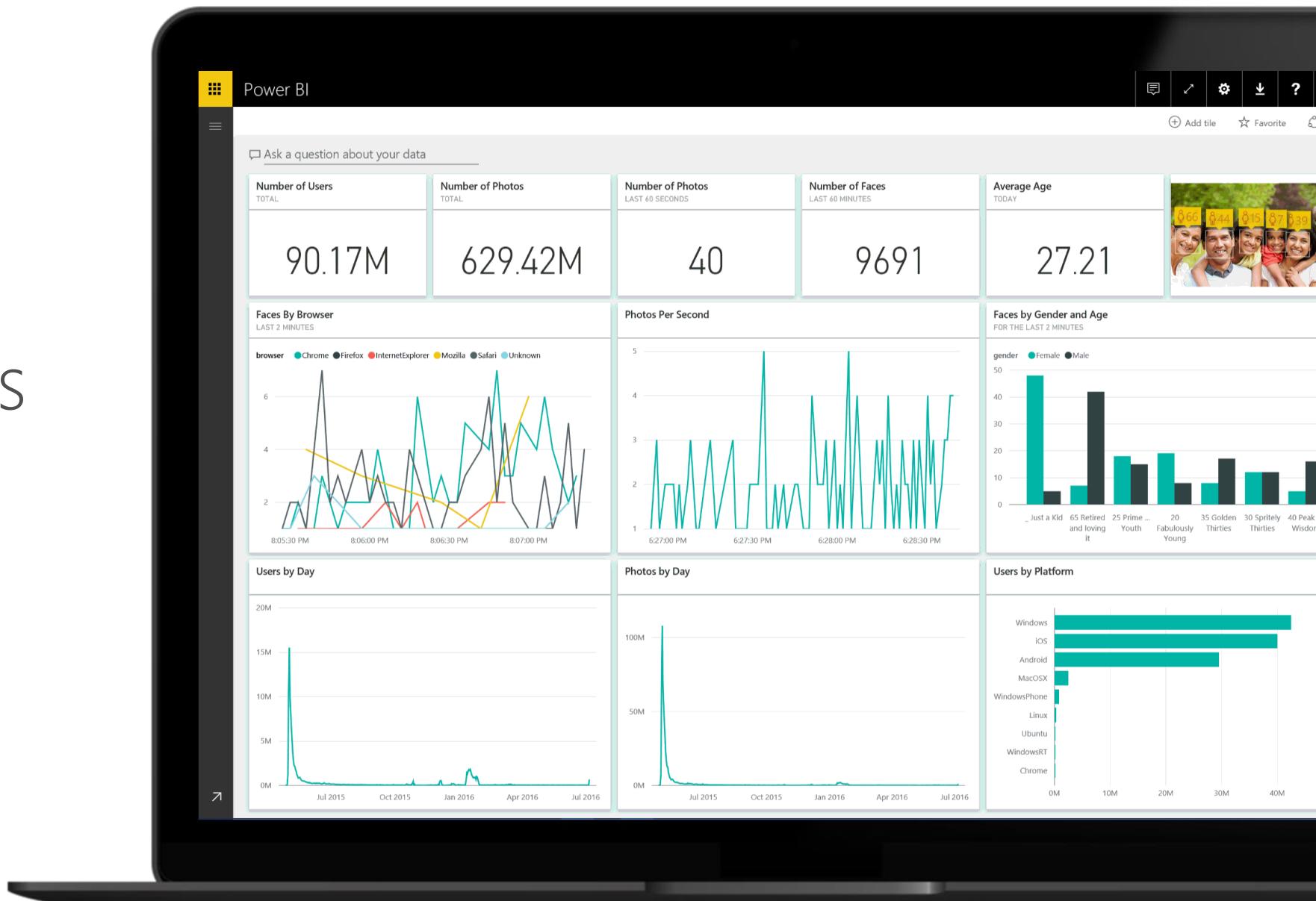


Power BI: experience your data

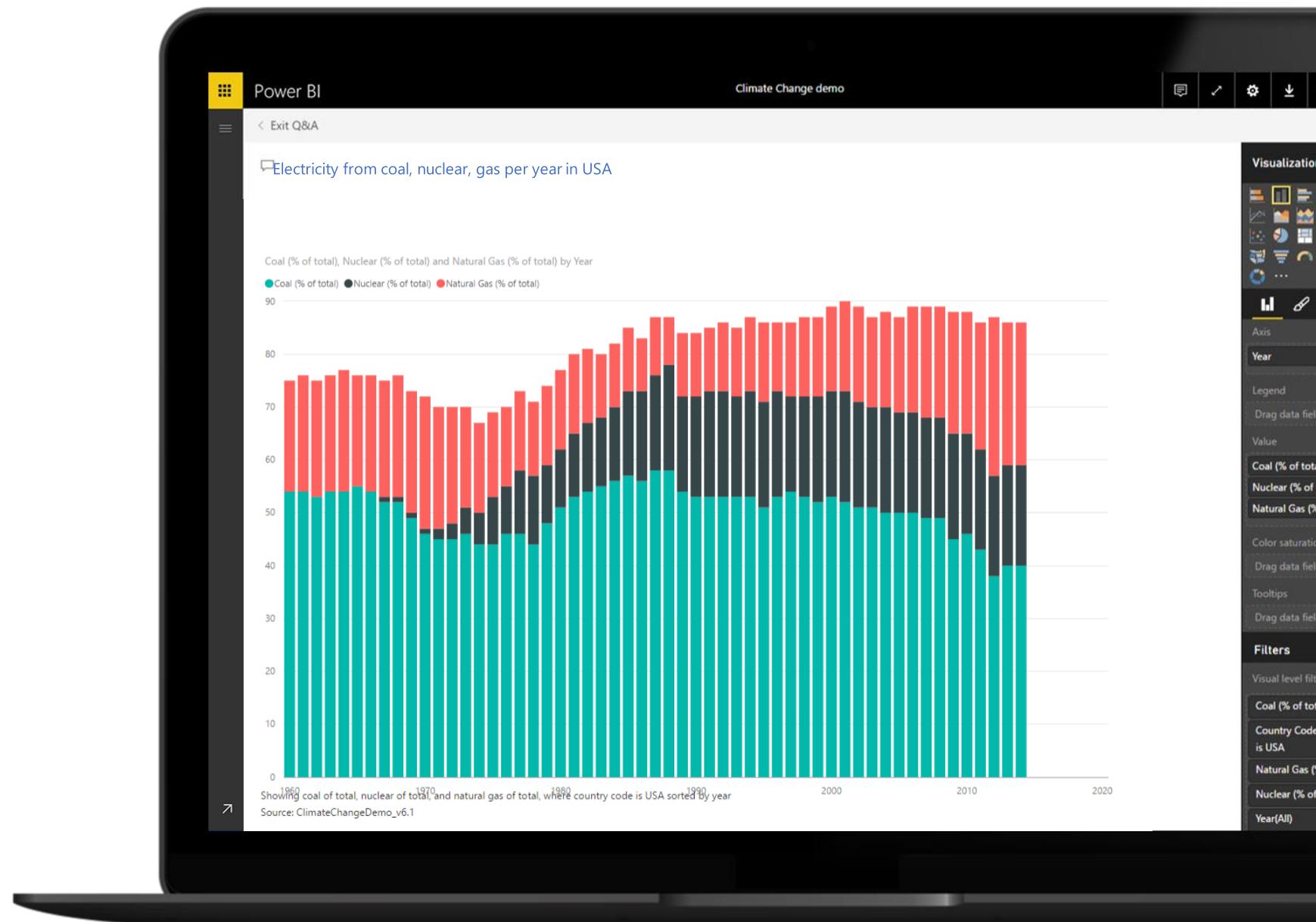
Any data, any way, anywhere



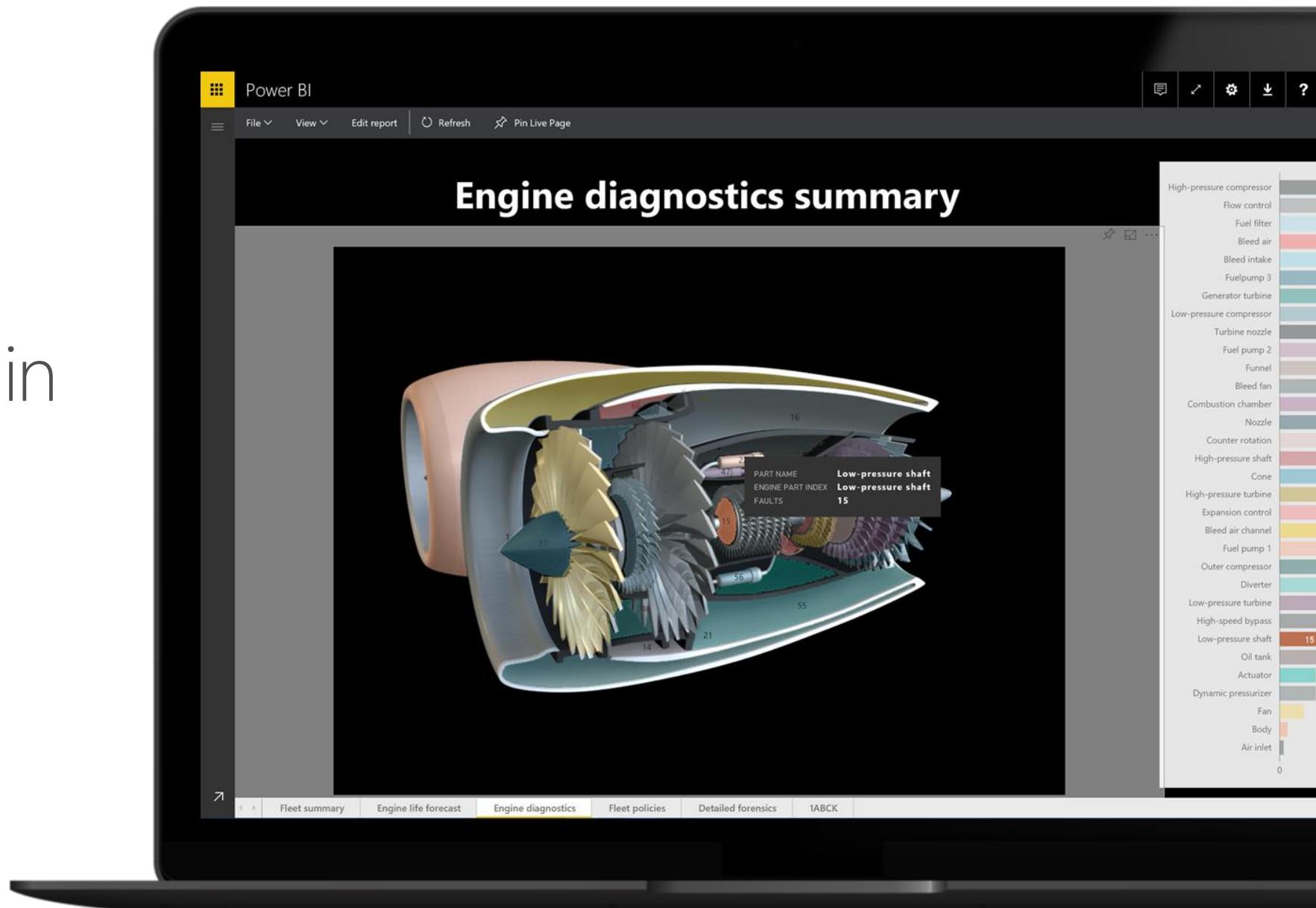
Run your business in real time with live dashboards



Ask questions of your data



Visualize insights in
the context of
your business



Deliver insights through deep integration with Excel



Info

New

Open

Save

Save As

Print

Share

Export

Publish

Close

Account

Feedback

Options

Publish

Publish to Power BI

Publish to Power BI

Use Power BI to create and share rich visual reports and dashboards from your workbook. [Learn more](#)

You're signed in to Power BI as tfarag@microsoft.com. [Use another account](#)

Select where you'd like to publish to in Power BI:

My Workspace



Upload your workbook to Power BI

- Interact with your Excel workbook just as you would in Excel Online.
- Pin selections from your workbook to Power BI dashboards.
- Share your workbook or selected elements through Power BI.



Export workbook data to Power BI

- Export table data and data model into a Power BI dataset.
- Create Power BI reports and dashboards from your dataset.

The screenshot shows a Microsoft Excel spreadsheet titled "UniqueLCIDsByEventId.xlsx - Read-Only - Excel". The spreadsheet contains two tables: "Plant" and "Material Type". The "Plant" table lists various locations with their corresponding cities and states. The "Material Type" table lists different material types with their descriptions. A "Create Forecast Worksheet" dialog box is open, showing a line chart with historical data points and a trend line. The dialog box includes fields for "Category" (set to "All") and "Date" (set to "All"). The chart area has a title "Total Defect Qty" and a subtitle "2014". The chart shows fluctuating data points over time, with a legend indicating multiple series. The overall interface includes the Excel ribbon at the top and the PivotTable Fields pane on the right.

Get from insights to actions quickly

Power BI Belron > Fleet Check Performance

File View Edit report Explore Refresh Pin Live Page Reset to default Bookmarks Usage metrics View related Unfavorite Subscribe

AUTOGLASS® Fleet Check Performance

Replacement Performance by Region

Region	Performance (%)
South	~25%
North	~15%
East	~5%
West	~10%

Repair Performance by Region

Region	Performance (%)
South	~25%
North	~15%
West	~5%
East	~10%

Repairs and Replacements by Quarter

Quarter	Value
Qtr 1	218.40
Qtr 2	187.20
Qtr 3	202.67
Qtr 4	209.33

Repairs and Replacements by Location

Bing

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BMW

Model: M3 Sedan, Year: 2015, Plate: RED6662, Date: 12/31/2001, Fleet: Redwest, Damage: On, Replacement: Off, Follow Up By: 10/17/2018, Argic No.: WSB1244ADFBLA

Confirm



EU Model Clauses

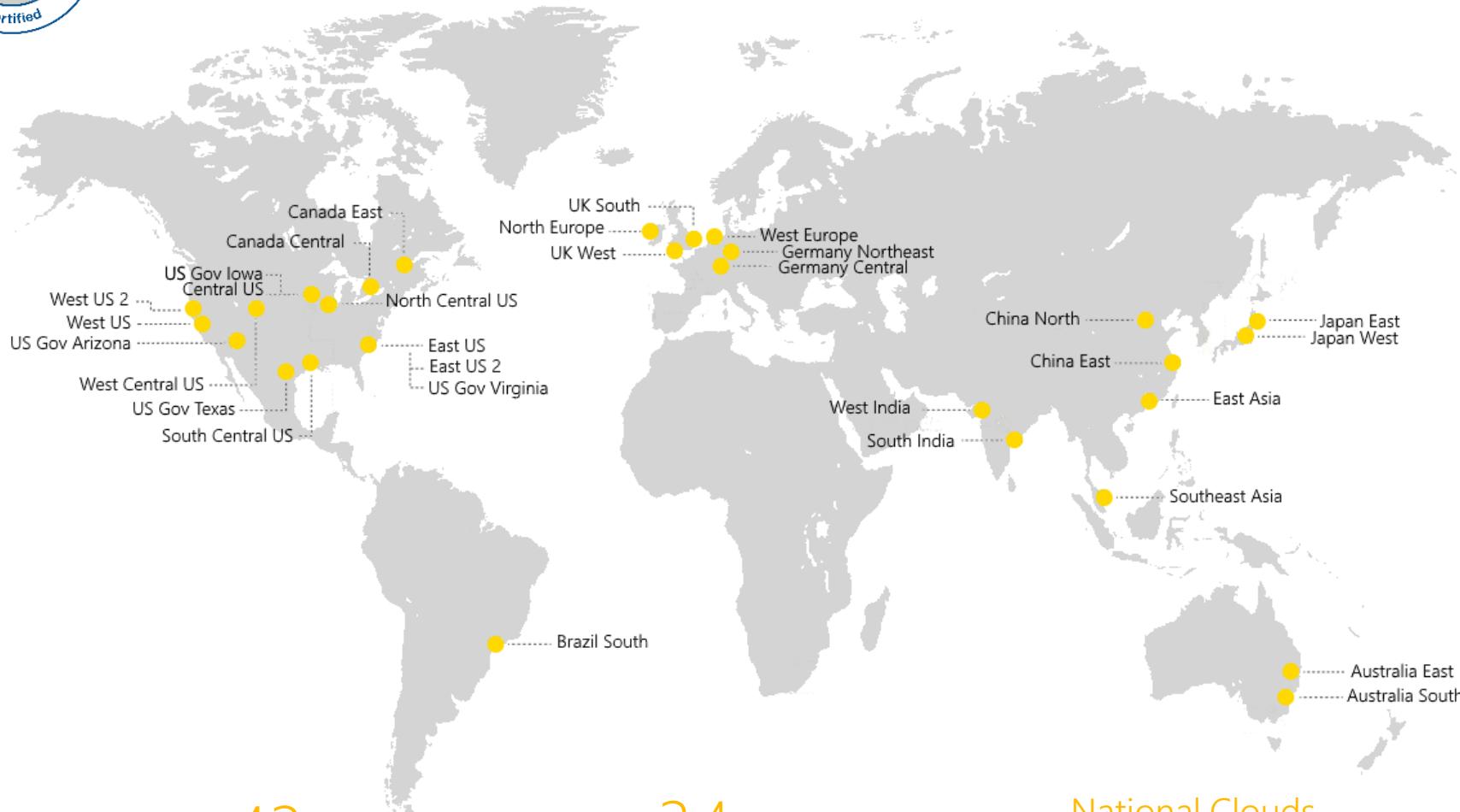


China GB 18030

43
Languages

34
Primary and backup
datacenters worldwide

National Clouds
US Government
China
Germany



Largest Global Footprint



February 2019

A Leader in Analytics & BI Platforms*



Source: Gartner (February 2019)

*Gartner "Magic Quadrant for Analytics and Business Intelligence Platforms," by Cindi Howson, James Richardson, Rita Sallam, Austin Kronz, 11 February 2019

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January 2019

A Leader in Data Management Solutions for Analytics*

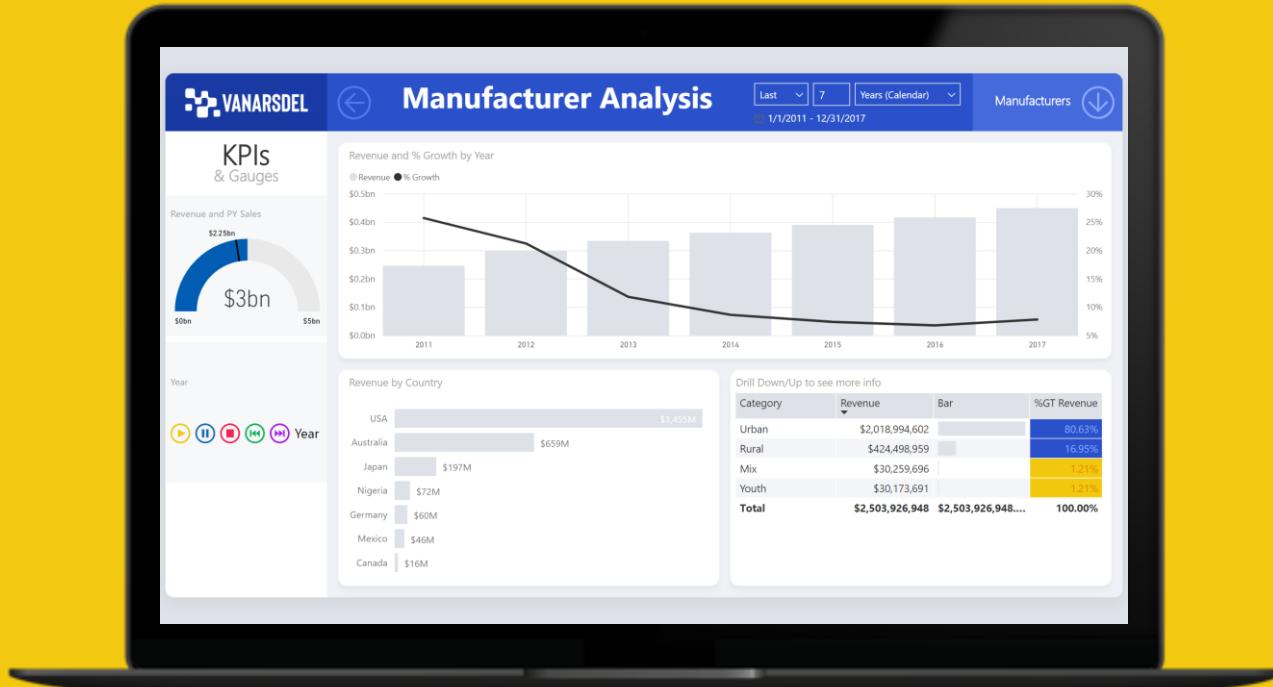


*Gartner Magic Quadrant for Data Management Solutions for Analytics, Adam Ronthal, Roxane Edjlali, Rick Greenwald, 21 January 2019.

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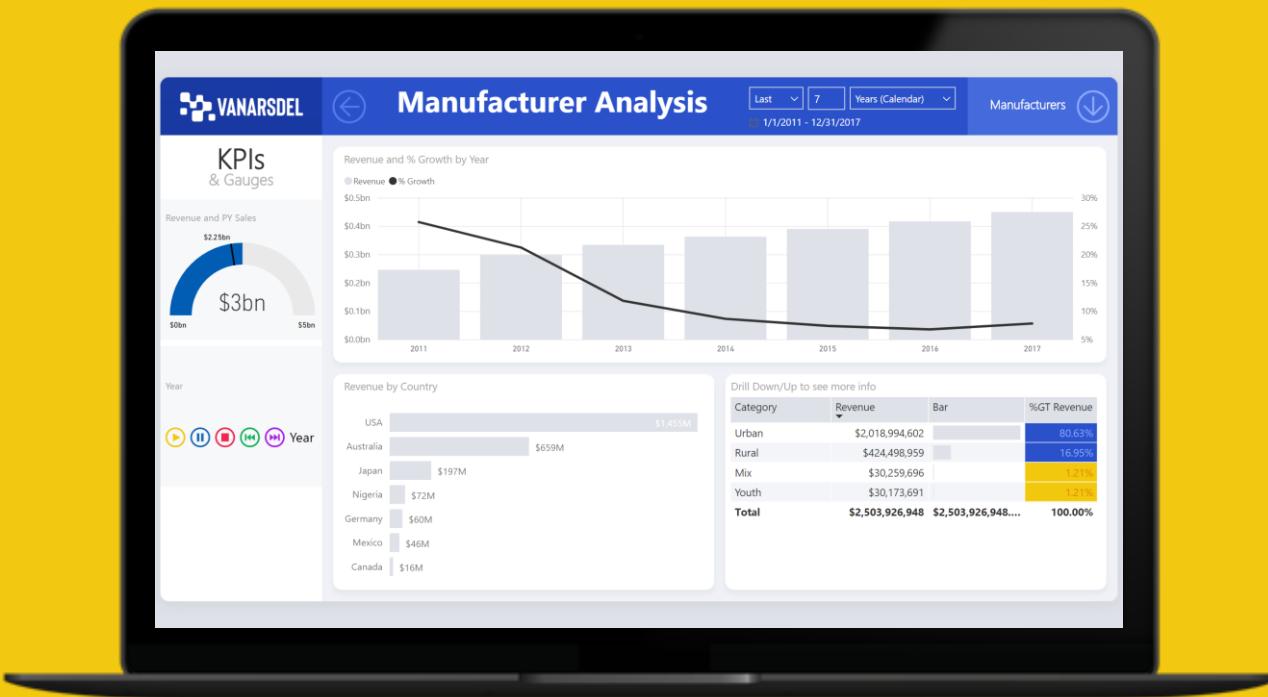
Power BI

Demo



Power BI Desktop

Hands-on learning





**JOIN OUR THRIVING
COMMUNITY**

850K Active Community
Members

Join our Global Community today!
community.powerbi.com

USER VOICE: **103,431** Users

16,432 Ideas Submitted

3,162 Active Ideas



**ENGAGE WITH A
USER GROUP**



222

Independent Power BI User
Groups World Wide

49,685

User Groups Members in
over 60 countries

Join your local PUG today!
pbiusergroup.com

Find industry solutions in the Partner Showcase

The screenshot shows the Microsoft Power BI Partner Showcase page. At the top, there's a yellow header bar with the title "See what our partners are doing with Power BI". Below this, a black section highlights "World-class BI solutions, customized for your business" and features logos for six partners: Avanade, Bismart, Dell, Hitachi Solutions, KPMG, and Karabina. The main content area includes a search bar labeled "Search Partners" and dropdown menus for "All Countries", "All Industries", and "All Departments". At the bottom, two partner profiles are displayed: AAEON Technology Inc. - Intelligent Vending and AIS - Enterprise Social Insights.

Microsoft Power BI Partner Showcase

Microsoft Power BI Products Solutions Partners Learn Sign in Sign up free

Need to discover the right BI solution for your business data? Our certified partners have a wealth of experience across a wide number of industries and technologies. Browse the Partner Solution Showcase now to find the right solution for your organization.

See what our partners are doing with Power BI

World-class BI solutions, customized for your business

Avanade Inc - Digital Workplace Insights Bismart - City Call Center Dell - Education Data Management Hitachi Solutions - Manufacturing IoT with Dynamics CRM Field Service Integration KPMG - KODE (KPMG Online Decision Engines) for Healthcare Karabina - Business Technology Solutions

Search Partners

All Countries All Industries All Departments

AAEON
an ASUS assoc. co.

AAEON Technology Inc. - Intelligent Vending
The showcase provides the information of the selling performance, service coverage, and the analysis of sale quantity, profit, and stock for the world-wide vending machine business.

AIS
APPLIED INFORMATION SCIENCES

AIS - Enterprise Social Insights
Self-service reporting and analytics accelerated with Power BI for insights into the effectiveness of your enterprise social tools.

Request demo

Maximize your BI investments with analytics



Free Infographic

Gartner

Four Steps to Improve Data and Analytics Capabilities When Business Intelligence Maturity Is Low

Published 19 October 2018 - ID G00368407 - 21 min read

Organizations with low levels of analytics and BI maturity often struggle to tap the value of their data assets. Data and analytics leaders can evolve their organizations' capabilities for greater business impact by taking simple steps in the areas of strategy, people, governance and technology.

Overview

Key Challenges

- Due to disengagement from business users, data and analytics leaders in organizations with low BI maturity often find it difficult to do an enterprise-wide strategic planning, which helps them consolidate business requirements, leverage resources and design holistic solutions.
- Organizations with low BI maturity typically lack the budgeting, staffing, experience and collaborative approach needed to apply analytics to dynamic business requirements.
- Due to a lack of central data and analytics management, organizations with low BI maturity struggle to deal with poor data quality, inconsistent processes, data silos and limited analytics use cases.
- Many companies are slow to upgrade, augment or exploit their analytics BI platforms, which are primarily reporting-based and are not sufficient to meet requirements from business teams in agility, autonomy, speed and usability to enable impactful and timely analytics.

Recommendations

Data and analytics leaders responsible for analytics and BI modernization should:

- Develop holistic data and analytics strategies with clear vision by proactively engaging with business stakeholders to define project roadmaps, business outcomes and performance metrics ("strategy").

Free Gartner Report



Free eBook



Free eBook

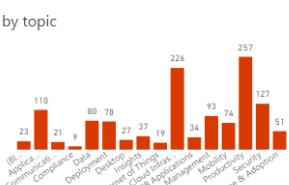
Get Started Today with Free Azure SQL Data Warehouse Trial

Explore and share your data stories

Data Stories Gallery : Microsoft Ignite Session Browser

Microsoft Ignite Session Browser

by topic



by format

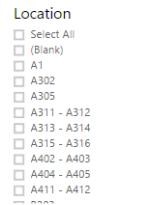


by level



tyGraph

Location



1,266 Sessions

1019 Speakers

Data Stories Gallery : Analysis of the Congress of the Republic of Peru

Day	Start	Session Code	Duration	Level	Title
Sunday	9/25/2016 9:00:00 AM	PRE01	480	300	Build an Office
Sunday	9/25/2016 9:00:00 AM	PRE01	480	300	Build an Office
Sunday	9/25/2016 9:00:00 AM	PRE02	480	200	Build cross-plat
Sunday	9/25/2016 9:00:00 AM	PRE02	480	200	Build cross-plat
Sunday	9/25/2016 9:00:00 AM	PRE03	480	200	Get started with
Sunday	9/25/2016 9:00:00 AM	PRE04	480	200	Dashboard in a
Sunday	9/25/2016 9:00:00 AM	PRE05	480	200	DEV Immersion
Sunday	9/25/2016 9:00:00 AM	PRE05	480	200	DEV Immersion
Sunday	9/25/2016 9:00:00 AM	PRE06	480	400	DevOps Hackat
Sunday	9/25/2016 9:00:00 AM	PRE07	480	400	Get Microsoft's

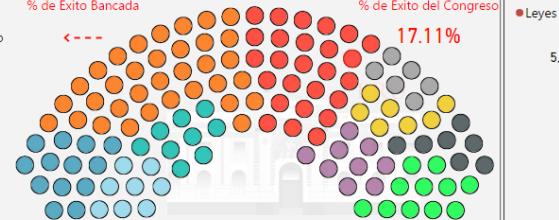
Select All (Blank) Sunday

Select All (Blank) 09:00 AM 09:15 AM 09:50 AM 10:00 AM 10:15 AM

Microsoft Power BI

Resultados por Bancada Perú 2011-2016

Distribución del Congreso



Rechazadas vs

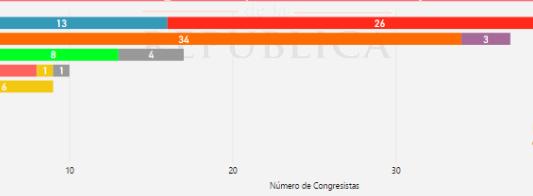
Leyes Rechazadas

L

Microsoft Power BI



Número de Congresistas por Partido Político y Bancada



de Congresistas

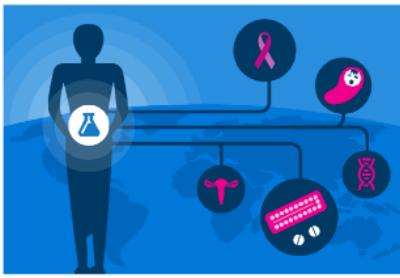
130

Nota: Partidos Políticos y cómo
están distribuidos por Bancada

Fuente: Tomada de www.congreso.gob.pe, Creación de un conjunto de Datos
Creado por: Alejandro Humberto Sánchez Núñez

Microsoft Power BI

< 2 of 4 >



Ion Kleopas
Winner

87.713%
Winner Score

25,063
Views

493
Participants

2,392
Submissions

CORTANA INTELLIGENCE COMPETITION
Women's Health Risk Assessment
[Visit Competition page for more details](#)

\$5,000 prizes in total
Ended 10/1/2016, 7:59:59 AM (GMT Daylight Time)

Summary

Based on the World Health Organization (WHO) report in 2011, about 820,000 women and men aged 15-24 were newly infected with HIV in developing countries. Among these newly infected, more than 60% were women.

Developing countries face serious reproductive health problems such as sexually transmitted infections (STIs), unintended pregnancies, and complications from childbirth. Emphasize prevention and provision of information about STIs and other reproductive tract infections (RTIs) was listed as one of the top priorities for policymakers, researchers, and health care providers.

To help achieve the goal of improving women's reproductive health outcomes in underdeveloped regions, [this competition calls for optimized machine learning solutions](#) so that a patient can be accurately categorized into different health risk segments and subgroups.

Please see [this video](#) and [this blog post](#).

WHR Competition Power BI Companion [by DevScope](#).

< 1 of 7 >



In the [Data Stories Gallery](#)

Power BI Service

Demo



Power BI Service

Hands-on learning



Build reports and dashboards

On your own data



Get Started Now at PowerBI.com



Power BI

Products

Pricing

Solutions

Partners

Learn

Sign in

Sign up free

Business intelligence like never before

Go from data to insights in minutes.
Any data, any way, anywhere. And all in one view.

START FREE >

The image displays four different devices, each showing a different view of a Power BI report. The desktop computer screen shows a complex dashboard with multiple cards and visualizations, including a KPI card for Actual Revenue (\$1.523M) and Variance to Budget (\$16.7M), a bar chart for Actual Revenue by Product, and a map of Europe. The laptop screen shows a similar dashboard with a focus on campaigns, featuring a sunburst chart for Profits by Campaign Tactic and Product Category. The tablet screen shows a simplified executive summary with a large green bar for Actual Revenue and a small chart for Marketing cost. The smartphone screen shows a single card for Actual Revenue by Product, highlighting Furniture and Lighting. The overall theme is the versatility and accessibility of Power BI across various devices.

Q&A