

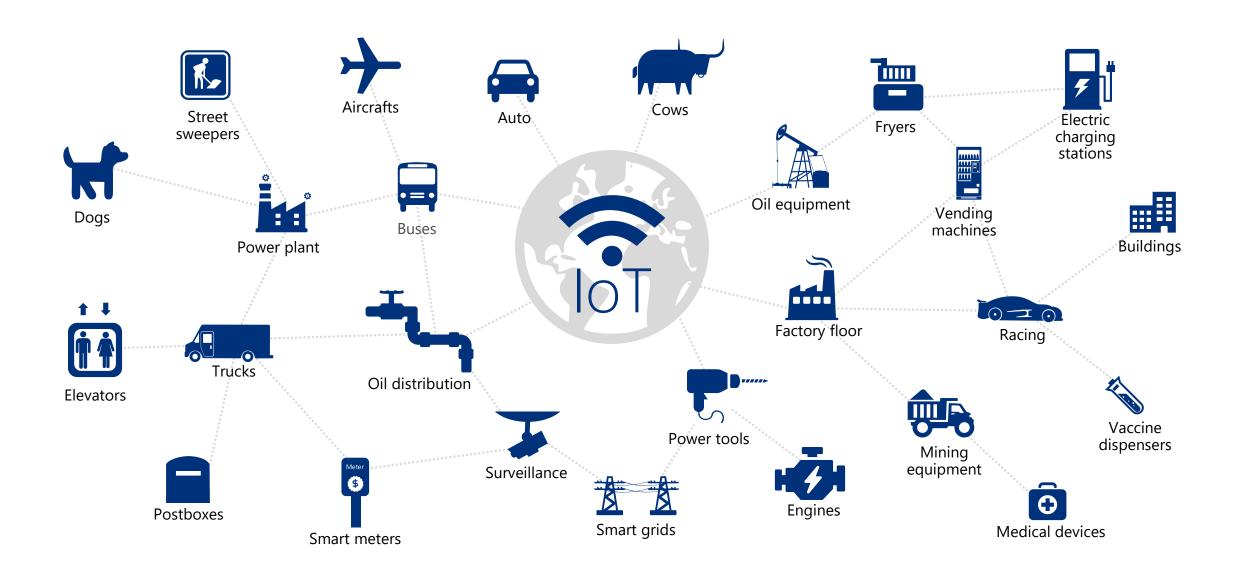
日期	進入活動頁人數 (不重複) Mobile	達成領 (不重複) Mobile	領 <mark>上上</mark> 人數 (不重複) Mobile	領 上限人數 (不重複) Mobile	新擊次數 Mobile	領 Mobile	達成我要抽獎人數 (不重複) Mobile	進行我要抽獎人數 (不重複) Mobile	大數 Mobile	加碼 (不重複) Mobile
	0	26232	6959	1070	8211	23231	48939	1696	16216	384
	0	29376	6878	1344	8164	26125	23471			
	0						13936	3339	29185	494
	0	29183	5932	1467	7190	25865	10595	3992	34532	626
	0	28647								557
	0	27777	5050	1290	6094	22400	7373	3858	32600	545
	0			1430				4189	33973	544
	0	28630	5762	1581	7032	26874	6470	4627	38265	589
	0	27684	5314	1438	6538	24942	5775	4524	35479	543
	0	27986	5345	1430						
	0						6073	4521	38048	537
	0	28629	5694	1508	6847	26460	6077	4643	37511	543
	0	28189								
	0	28767	5536	1508	6758	26098	5170	5110		
	0	28759	5016					4724	38740	490
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活動期間總計不重複人數(不分裝置)	0	166876	46817					26628	501508	7917

可領獎通知1點擊人數(不重複): 0 可領獎通知2點擊人數(不重複): 0 排行榜領獎通知點擊人數(不重複): 0

可領獎通知1跳出人數(不重複):0 可領獎通知2跳出人數(不重複):0 排行榜領獎通知跳出人數(不重複):0

領取大獎人數:82/100

### Innovation at work – real IoT use cases



# Reporting has evolved

Queries that support the data visual respond to user requests and yield contextual insights

**Free-flow exploration** 

Pre-set parameters enable users to see different views of their data

**On-demand reporting** 

Underlying data can be exported and analyzed offline

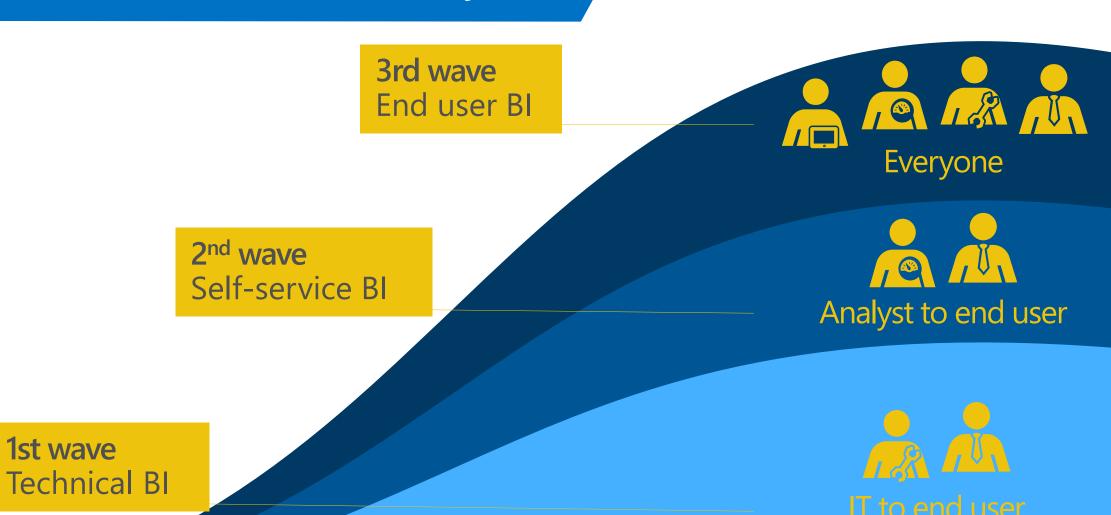
**Data exports** 

Static images and graphs offer one slice of data in time

**Pictures** 

# Today, BI extends to everyone

1st wave



# Turning data into BI is challenging

### Common BI challenges include...



End-to-end view

Data often resides in disparate locations, making it difficult to see a complete picture of your business



Multiple data sources

Data residing in cloud solutions and on-premise locations is difficult to access and refresh securely



Right data for the right users at the right time

Different roles have different needs and business users need the latest operational data

### What is Power BI



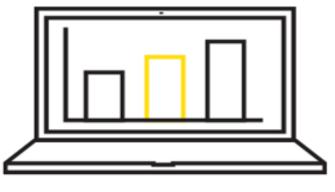
Transforms your company's data into rich visuals for you to collect and organize so you can focus on what matters to you.

### Power BI Overview

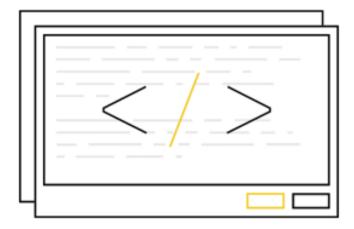
Microsoft Power BI

Experience your data. Any data, any way, anywhere

### Power BI Overview



Power BI Desktop



Power BI Embedded



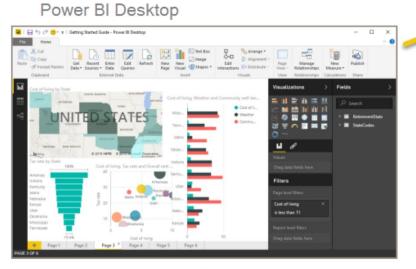
Power BI service



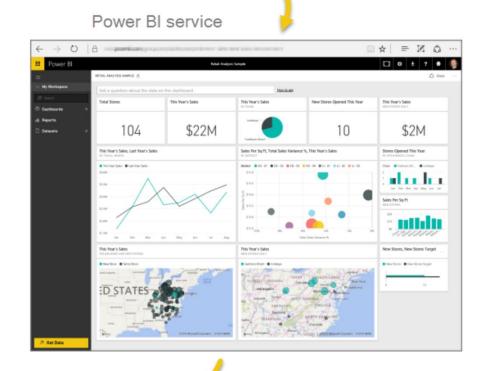
Power BI Mobile

#### 1. Bring data into Power BI Desktop, and create a report.

### 2. Publish to the Power BI service, where you create new visualizations or build dashboards







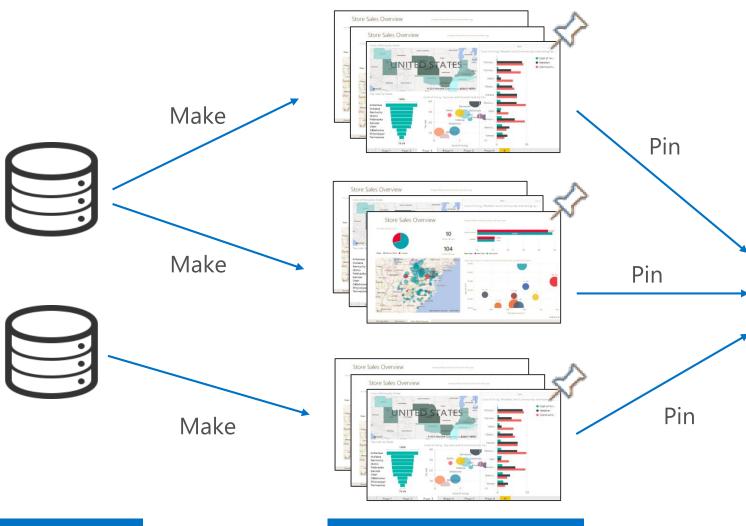
3. Share your dashboards with others, especially people who are on the go

4. View and interact with shared dashboards and reports in Power BI Mobile apps

### Power BI online service

- The Power BI online service offers a simple, intuitive experience for interacting with data
- The service and features have been designed to:
  - Simplify engaging with data from heterogeneous sources
  - Fuel faster, more insightful business decisions
  - Deliver a rich, consolidated view of key information, no matter where the underlying data is stored
  - Share data insights

# Live dashboards & reports





### Power BI mobile applications

- Install native mobile applications to access dashboards, available for:
  - Windows
  - iOS (iPhone and iPad)
  - Android
- Supported capabilities:
  - Set favorites for important visualizations
  - Zoom in and out of visualizations
  - Annotate visualizations and share snapshots with others
  - Configure alerts to receive notifications of critical business KPIs











### Power BI Desktop

- Power BI Desktop is a visual data exploration and reporting tool
  - A freely downloadable 32- or 64-bit desktop application optimized for use with the Power BI service
  - Integrates proven Microsoft technologies
    - Excel add-ins: Power Query, Power Pivot and Power View
  - Enables multiple ways to transform schema and data
  - Updated (at least) on a monthly basis

# Get started by free version



#### Go to PowerBl.com

- Go to PowerBl.com
- Enter your organizational email address
- Start using Power BI for free, no credit card needed

#### Let us help you bring your data to life

Power BI transforms your company's data into rich visuals for you to collect and organize so you can focus on what matters to you. Stay in the know, spot trends as they happen, and push your business

Enter your work email address

Use it free



#### **Download Power BI Desktop version**

- Download for free
- Easily get started today
- Acquire and prepare data with extensive query capabilities
- Explore data in new ways through a freeform, drag-and-drop canvas





#### **Connect to your data**

- Access cloud, on-premises and hybrid data sources using the Power BI service and Power BI Desktop
- Get to your data in as few as four clicks





#### **Get instant insight** from cloud services

#### **Use pre-built dashboards** and reports for:

- Azure SOL Database and Data Warehouse, SQL Server **GitHub**
- Zendesk
- GitHub
- zendesk
- Troux
- More added regularly

#### Leverage the SCCM solution template to:

- Stand up a scalable and extensible SCCM analytics dashboard in hours
- Monitor real-time capacity, availability and compliance

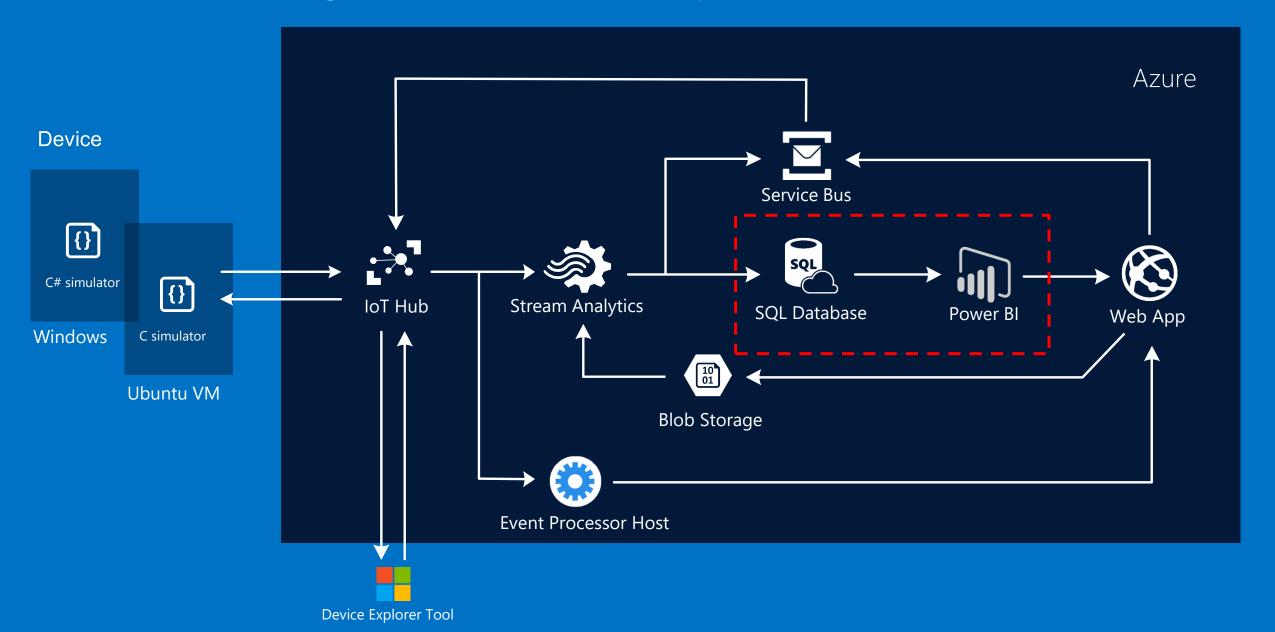
# HOL 6 – Creating a Power Bl Desktop Solution

### Development methodology

- In contrast to the simple and quick "get then visualize" approach, more complex schemas may follow this methodology:
- 1. Create queries and use the **Query Editor** to filter, cleanse and reshape data
- 2. Configure/refine relationships to establish the foundations of a model
- 3. Enrich the model with calculation logic and formatting
- 4. Design interactive reports with a broad range of modern data visualizations
- 5. Publish solutions directly to the Power BI service

Create	Configure	Enhance the	Design	Publish to
queries	relationships	model	reports	Power BI

### HOL 6 – Creating a Power BI Desktop Solution



# Wind Generator Analysis

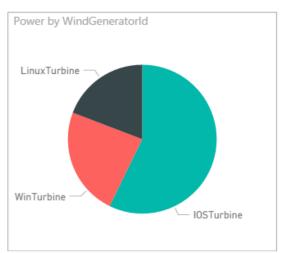
2015

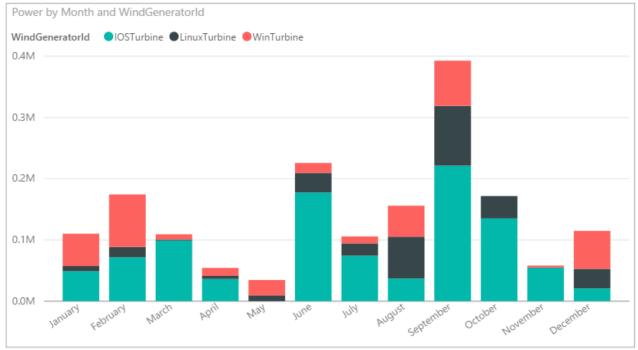
2016

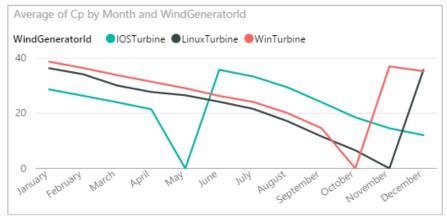
2M Power

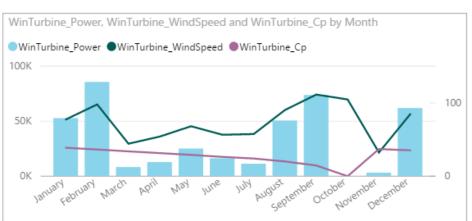


ld	Employee Name	Fan Radius	Height
IOSTurbine	Walker	2.20	13
LinuxTurbine	Andy	2.20	13
WinTurbine	Walker	1.30	11

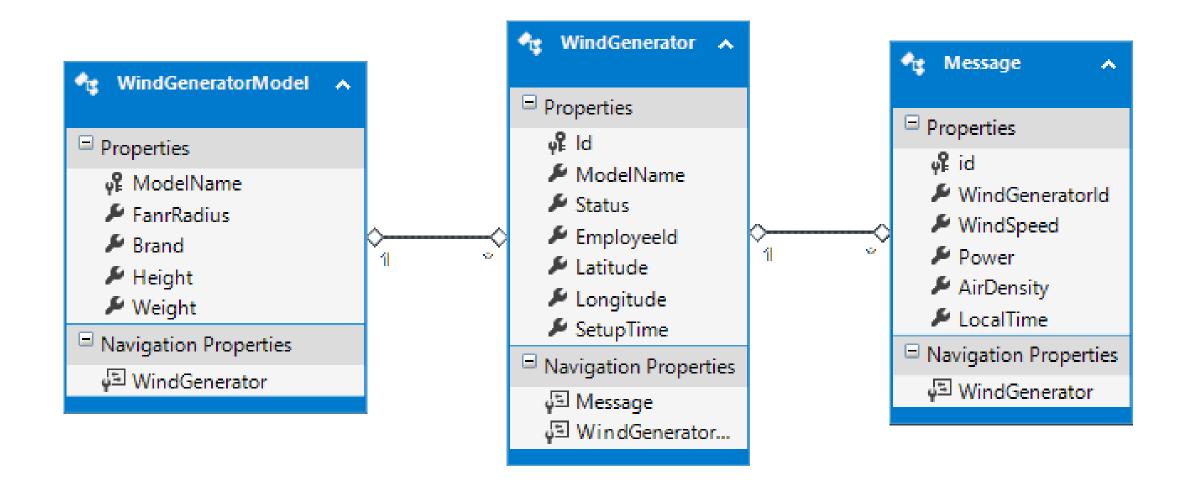








### Table Schema



### Let's Go

#### You will learn how to

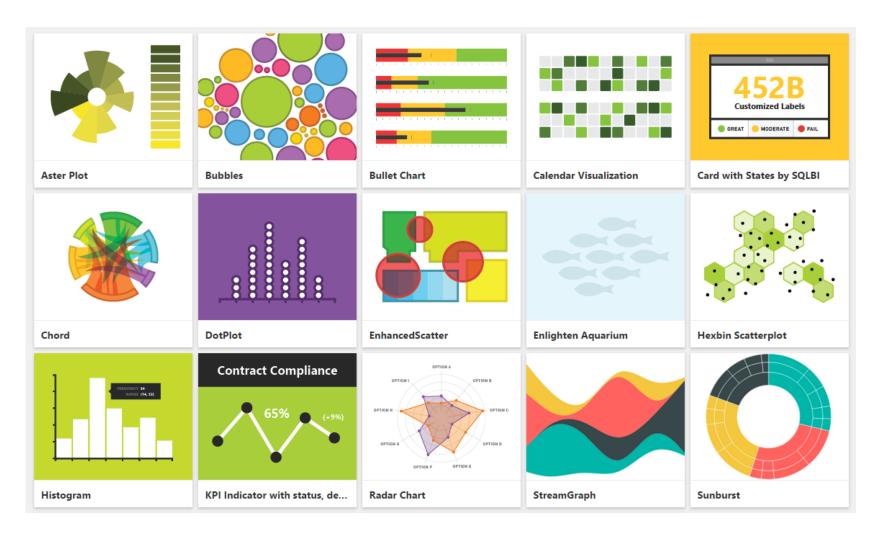
- Create a Power BI Desktop solution
- Create queries based on a variety of data sources
- Prepare a model for reporting
- Create an interactive report layout consisting of several data visualizations
- Publish Power BI Desktop solution to Power BI Service

### Formula

$$P = \frac{1}{2}A * V^3 * Cp * D * \eta$$

$$A = \frac{1}{2}\pi R^{2}$$

### Visual Gallery





#### **Synoptic Panel by OKViz**

\* And the list is growing!

### Reference

### Power BI Document

https://powerbi.microsoft.com/zh-tw/guided-learning/

### Power BI Visuals Gallery

https://app.powerbi.com/visuals

### Extend Power BI with Custom Visuals

- https://store.office.com/zh-tw/appshome.aspx?productgroup=PowerBI&ui=en-US&rs=zh-TW&ad=TW
- https://github.com/microsoft/powerbi-visuals

### Virtual Labs

https://technet.microsoft.com/en-us/virtuallabs