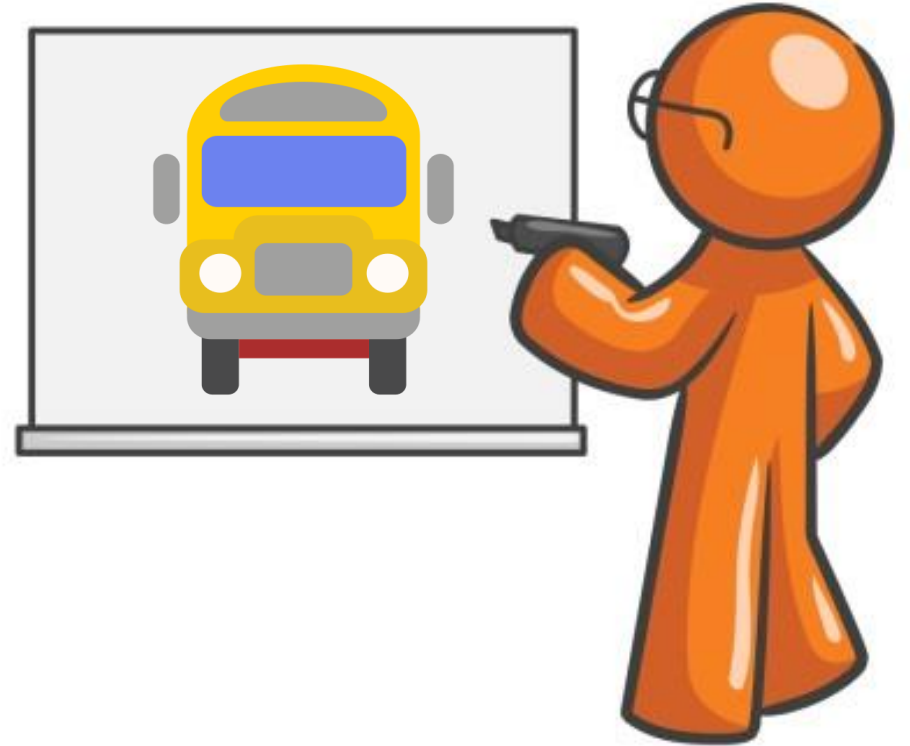


Introduction to Power BI

Agenda

- Short history – what is Power BI ?
- Power BI components
- Power BI delivery approaches
- Power BI development phases
- The roadmap

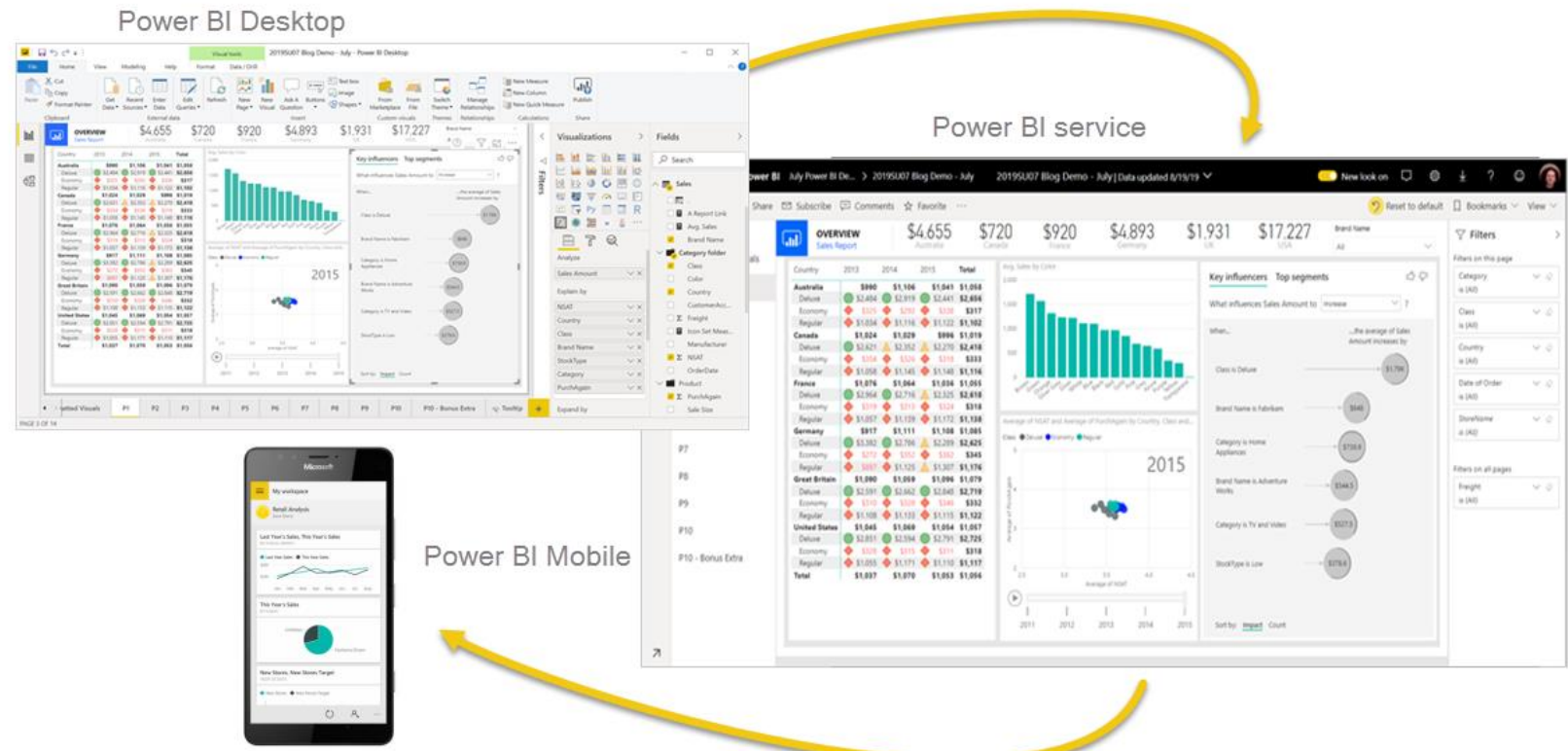


Short history – what is Power BI ?

- Power BI is a brand name that covers all of Microsoft's self-service BI tools – or maybe just the cloud bits?
- The Power BI of today is really Power BI version 2.0
- Power BI V1.0 was based around Excel and Office 365:
 - Power Query, Power Pivot and Power View add-ins in Excel
 - Native Excel features like PivotTables for reporting and visualisation
 - Sharing handled through SharePoint Online in Office 365
- This was a great idea but a commercial failure
- Power BI V2.0 is the same technology but repackaged in a way that is easier to use and easier to buy

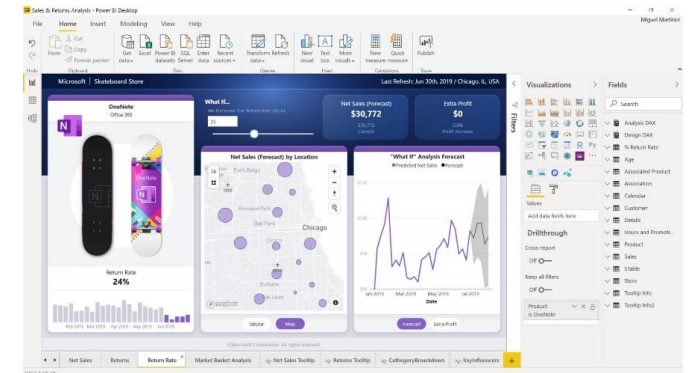
Power BI components

- On the Desktop
- In the Cloud
- Mobile apps



Power BI Desktop

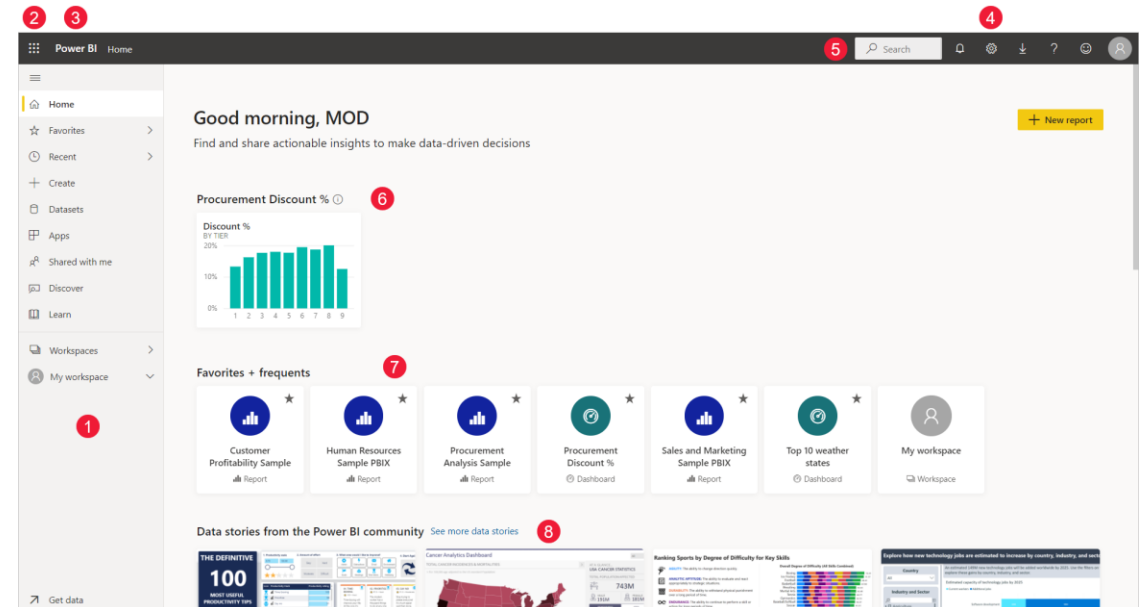
- Free standalone Windows Desktop application
- Combines Power Query, Power Pivot Data Model and Power View from Excel into a seamless experience
- Access data from hundreds of supported on-premises and cloud-based sources
- Provide advanced analytics with the familiarity of Office
- Publish to Power BI Service



Power BI Service

- Consume and view published reports
- Share within and/or outside organization
- Connect to on-premises and cloud data

- License:
 - Free
 - Pro
 - Premium



Power BI on Tablet and Mobile

- Dedicated IOS app
- Dedicated Android app
- Dedicated Windows app
- HTML5 clients



Power BI delivery approaches

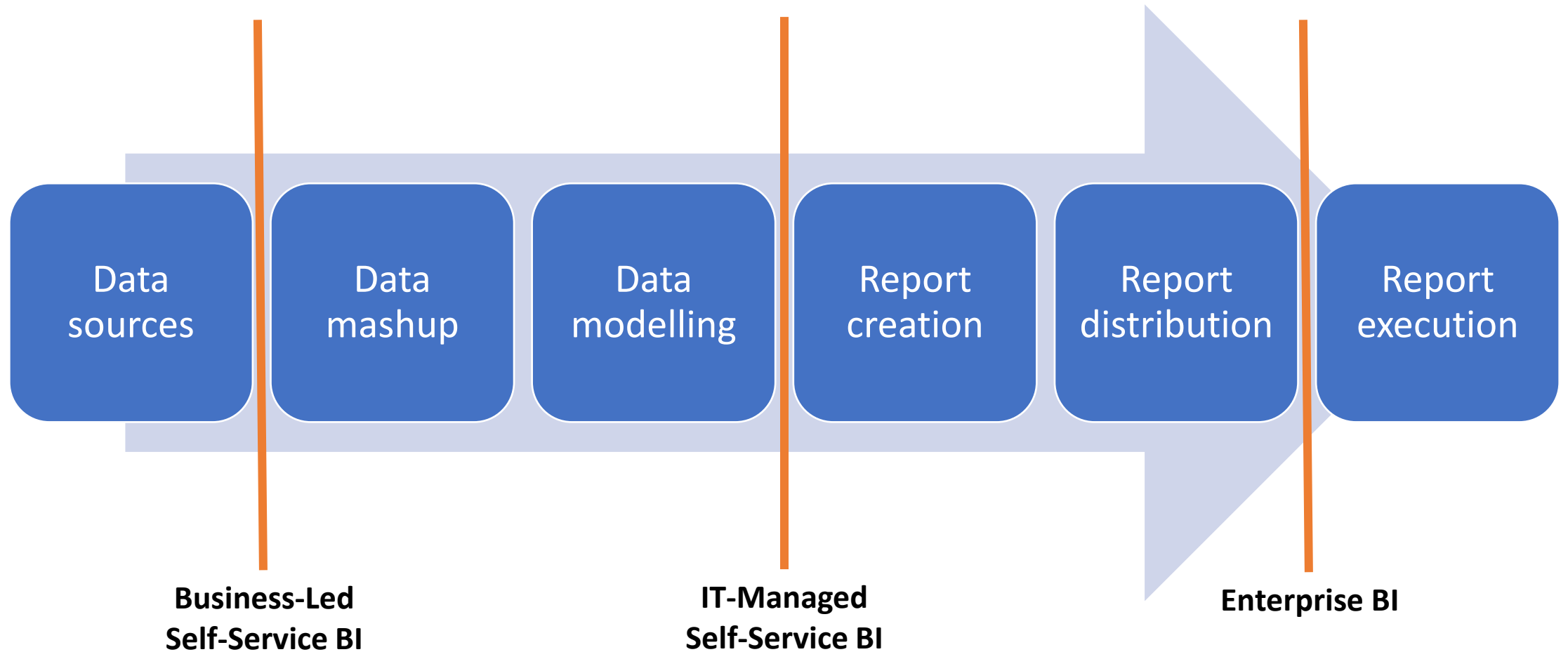
Business-Led Self-Service BI	IT-Managed Self-Service BI	Enterprise BI
<p>Analysis using any type of data source; emphasis on data exploration and freedom to innovate</p> <p>Ownership: Business supports all elements of the solution</p> <p>Business users: Data preparation, data modeling, report creation & execution</p> <p>Governed by: Business</p>	<p>A “managed” approach wherein reporting utilizes only predefined/governed data sources</p> <p>Ownership: IT: data + semantic layer Business: reports</p> <p>Business users: Creation of reports and dashboards</p> <p>Governed by: IT: data + semantic layer Business: reports</p>	<p>Utilization of reports and dashboards published by IT for business users to consume</p> <p>Ownership: IT supports all elements of the solution</p> <p>Business users: Execution of published reports</p> <p>Governed by: IT</p>



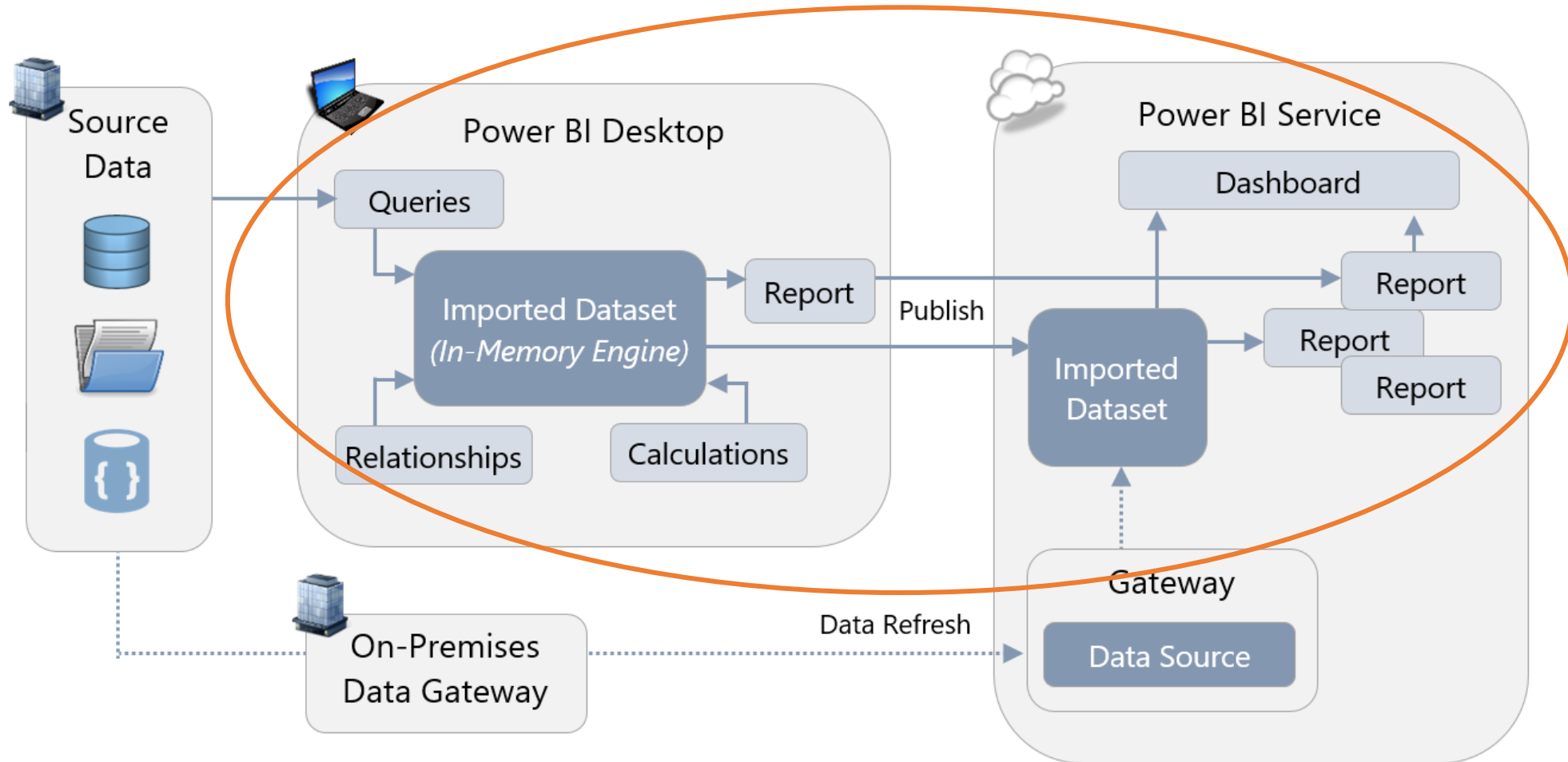
Ownership Transfer

Over time, certain self-service solutions deemed as critical to the business may transfer ownership and maintenance to IT. It's also possible for business users to adopt a prototype created by IT.

Power BI development: IT vs Business



Business-Led Self-Service BI: Import data



Power BI roadmap

- Power BI changes faster than any other Microsoft tool has ever changed!
- Monthly Power BI Desktop releases and weekly service updates
 - New releases usually contain significant new features
 - Bugs and functionality changes do happen
- Keep updated:
 - <https://powerbi.microsoft.com/da-dk/blog/>
 - <https://www.youtube.com/user/mspowerbi/search?query=Power+BI+Desktop+Update>
 - <https://docs.microsoft.com/en-us/power-platform-release-plan/2022wave1/>

Monthly releases

April	May	June	July	August	September
Reporting <ul style="list-style-type: none"> Q&A Explorer (preview) Buttons to trigger actions Combo chart line styles Improved default sort for visuals Numeric Slicer GA Organizational custom visuals GA Analytics <ul style="list-style-type: none"> Update your linguistic schema New DAX function: COMBINEVALUES() Data connectivity <ul style="list-style-type: none"> Adobe Analytics connector now generally available SAP HANA connector improvement: Port selection Dynamics 365 Business Central connector 	Reporting <ul style="list-style-type: none"> Conditional formatting by a different field Advanced slicer syncing Log axis improvements Data label options for funnel chart Set line stroke width to zero Analytics <ul style="list-style-type: none"> Measure drillthrough Power BI Premium <ul style="list-style-type: none"> Incremental refresh (preview) Data connectivity <ul style="list-style-type: none"> New "From Web" connector - By example data extraction (preview) Common Data Service for Apps connector (beta) Azure KustoDB connector (beta) Google BigQuery and Azure HDInsight Spark connectors now generally available Adobe Analytics connector update - Support for multiple domain logins (preview) Visual Studio Team Services connector update - Analytics views support OLE DB connector update - Support for alternate Windows credentials SAP BW DirectQuery connector update - Improved technical name support Data preparation <ul style="list-style-type: none"> Improvements to Add Column From Examples 	Reporting <ul style="list-style-type: none"> High contrast support for reports Donut radius control Pie and donut detail labels position control Format data labels separately for each measure in a combo chart Longer phone reports Modeling <ul style="list-style-type: none"> Filtering and sorting in data view Improved locale formatting Data connectivity <ul style="list-style-type: none"> SAP BusinessWarehouse connector improvements - New driver and improved performance & Improved support for hierarchy variables Spark connector now supports Windows Authentication OData V4 connector enhancements ODBC connector improvements Folding support for Top Rows Ability to filter navigation by DSN catalog Other <ul style="list-style-type: none"> National cloud selector 	Reporting <ul style="list-style-type: none"> New visual header with more flexibility and formatting Wallpaper formatting Theming update – more visual and page control (preview) Tooltips for table and matrix Turn tooltips off for visuals Slicer accessibility Formatting pane improvements Stepped line support for line and combo charts Turn off combo chart data labels for individual series Sorting experience improvement Modeling <ul style="list-style-type: none"> Composite models (preview) Analytics <ul style="list-style-type: none"> Distribution factor insights Data Connectivity <ul style="list-style-type: none"> IBM DB2 DirectQuery connector (preview) Improvements to Web By Example connector - Importing multiple custom tables, Automatic completions for sample values, & exposure of attribute selectors SAP HANA – Default values for variables in Variable Input experience 	Reporting <ul style="list-style-type: none"> Print reports through Export to PDF Create bookmark groups Theming generally available Slicer restatement Modeling <ul style="list-style-type: none"> Data categories for measures Statistical DAX functions Analytics <ul style="list-style-type: none"> Conditional formatting by values Python integration (preview) Q&A improvements Q&A in Power BI Desktop generally available Better matching experience for Power BI Desktop and Power BI Premium Data connectivity <ul style="list-style-type: none"> Spark connector generally available 	Reporting <ul style="list-style-type: none"> Dot plot layout support in scatter charts Copy value and selection from table & matrix Built-in report theme options Report page tooltips generally available & Card support Accessibility improvements for analytics and formatting pane support Analytics <ul style="list-style-type: none"> Aggregations (preview) Q&A support for RLS Data connectivity <ul style="list-style-type: none"> PDF file connector (preview) SAP BW connector – support for measure properties Dataflows connector (beta) Data preparation <ul style="list-style-type: none"> M intellisense (preview) Add Column From Examples – support for text padding