

## Power BI Updates

Chris Wagner & Helen Wall











- Error Bar Improvements & GA
- Composite models on Power BI Datasets & Analysis Services
- Filled Map for Azure Maps Visual!
- Metric Visuals Updates

## Modeling

- New DAX function: NETWORKDAYS
- Multi-role RLS in composite models
- **Query performance improvement**



### Service and Mobile

### Service

- Data Hub improvements data preview & export
- Accessibility enhancements for embedded reports

### Mobile

- Data In SPAAAAAAACE!!!!
- Track metrics with multiple milestones & targets



- Connect to Datamarts
- Display Name Dataverse (<u>breaking</u> change?)
- · Databricks Update

- FactSet RMS New
- Funnel New



- New Format Pane (Generally available)
- Updates to Error Bars (Preview)
- Information protection updates
- Table navigation improvements
- Canvas zoom in Teams

- Capabilities.json file for defining visual permissions
- Improving custom visual load time

## Modeling

 Composite models for SQL Server Analysis Services



### Service and Mobile

### Service

- Data Storytelling
- Data hub
- Metrics updates

## **Embedded Analytics**

- Hierarchy slicers (JS API's)
- Paginated reports with SSO data
- JS SDK Paginated Reports parameters
- DirectQuery for Power BI Datasets



- Datamarts! (Preview)
- Databricks (New)
- SingleStore (New)
- Hexagon PPM Smart API (Update)
- Snowflake (Update)
- Vessel Insight (Update)
- Workplace Analytics/Viva Insights (Update)
- Anaplan (Update)
- Azure Databricks (Update)
- Dremio Cloud (Update)
- FactSet Analytics (Update)







- Field parameters Preview!
- Composite model Management!!
- Format pane updates Preview
- Canvas Zoom
- Data point rectangular selection

- Charticulator is now GA!!
- Error bars for combo charts Preview
- ArcGIS visual updates
- Dumbbell Bar Chart (Nova Silva)
- Drill Down Map PRO (ZoomCharts)



### Service and Mobile

### Service

- File downloads API
- Datasets hub improvements
- Deprecation of dashboard features

### Mobile

- Goal updates in activity feed
- Windows app new minimum OS requirement



- Azure DataBricks Update
- Denodo Update
- Google Sheets Update!
- Autodesk Construction Cloud Update
- FactSet RMS New
- Funnel New



- New Format Pane Updates (Preview)
- Tooltips for drill actions in matrix, line, and area charts!
- Error bars for clustered and bar charts
- Bookmark navigator displays last selected bookmark per group
- PowerGantt Chart by Nova Silva

## Modeling

- Dynamic query parameters now generally available
- Updates to required permissions for composition model datasets



### Service and Mobile

### Service

 Updates for Power BI Goals with bulk updates, as well as sharing and access banner

### Mobile

- Visual interaction support in formatting options
- Goals push notifications



- Autodesk Construction Cloud (New)
- Digital Construction Works Insights (Update)
- Dremio, Dremio Cloud (Update)







- Dynamic Format Strings!
- Error Bars!
- Multi-Row card selection (take 2)
- Quick Create from SharePoint

- Improved slicer accessibility
- graphomate 2021.4
- Updated sensitivity labels
- Azure map visual updates

- Charticulator NOW CERTIFIED
- Create reports from SharePoint documents



### Service and Mobile

### Service

- Datasets hub improvements
- Goals Enhancements
  - Custom Statuses
  - Notifications

### **Embedded Analytics**

- Improved method for multi-tenancy deployment
- Paginated reports support for SSO data sources



- Anaplan Update
- Bloomberg Enterprise Data & Analytics Update
- FactSet Analytics Update
- AssembleViews Update
- BitSight New



- New Format Pane (Preview)
- Plotly.js (Akvelon)
- HTML Text Styler 2.0
- Multiple Sparklines (Excelnaccess.com)
- Financial Reporting Matrix (Profitbase)

## Modeling

Dynamic query parameters now supported in SQL Server
 + other data sources! (Preview)



### Service and Mobile

### **Embedded**

- Power BI Dataset as data source for paginated reports
- New Dataset permission API's
- Delete Dashboard API

### Service

- Download \*.pbix improvements
- Deployment pipeline enhancements
- Updated Goals (notifications, multiple owners, personal workspaces)

### Mobile

- Mobile-optimized report authoring enhancements
- Dark mode (Windows app)
- App new look available



- Amazon OpenSearch Service
- OpenSearch Project
- Data Construction Works Insight
- Azure Databricks Update
- BQE Core Update
- MicroStrategy Update
- Starburst Enterprise Update



# January 2022: The Microsoft Power BI team is taking a much-deserved break this month!





- Sparklines! (Preview)
- Format pane updates (Preview)
- Zebra BI Cards 1.0
- Drill Down Combo Bar PRO (ZoomCharts)

## Modeling

 Visualize data with PowerApps/Dynamics 365 (Preview)



### Service and Mobile

### **Embedded**

- Improved matrix performance (4.1 API)
- Dataset as data source for paginated reports

### Service

- Hybrid Tables (Premium)
- Email subscription access via Admin API
- Sharing links include updates to report changes

### Mobile

- New report default view
- Recommended Content support hints
- Support for Goals



- Azure Data Explore Update
- FHIR Update
- Dremio Software Update
- BQE Core Update
- Exasol Update

- Starburst Enterprise Update
- TIBCO Data Virtualization (Generally Available)







- Page and Bookmark Navigators
- New Formatting Options
- Sort legend
- Bold, italic, and underline text formats
- Text box super/subscripts, bullet lists

- Scorecard visual
- AppSource find report files
- Drill Down map PRO
- Inforiver standard edition
- Lipstick Bar Chart

- New format pane (Preview)
- Tenant-level Bing Maps feature switch update



### Service and Mobile

### Mobile

- Updated report filters
- QR codes with URL parameters

### Service

- Datasets hub improvements
- Azure Lockbox Support
- Power BI Goals (goal level permissions, Power Automate Integration, formatting)

### **Embedded Analytics**

- Power BI Embedded Gen2
- Control embed token expiry
- Embedding support for paginated report visuals



- Azure Synapse Analytics (Preview)
- Google Sheets (Preview)
- Azure Cosmos DB V2 (Preview)
- Delta Sharing (Preview)

- Google BigQuery (Update)
- Cognite Data Fusion (Update)
- Dremio Cloud (Update)



- Azure Maps Visual Heat Map Layer •
- Proxy Models Individual Table(s) linking

## Modeling

- Switch Functions- Performance Improvements
- Bitwise Functions
  - BITLSHIFT/BITRSHIFT
  - BITAND/BITOR/BITXOR
- Lollipop Bar Chart Nova Silva
- Drill Down TimeSeries
  Pro ZoomCharts



### Service and Mobile

### **Embedded**

- Object Level Security (OLS) is now GA
- Adjust Zoom levels
- Export API Update

### Service

- Premium Gen2 GA!!!!
- Auto Install Power BI in Teams
- API Who has access to what
- Deployment Pipelines APIs- GA

## **Developers**

- Modern Tooltips
- Modern Dialog

### **Paginated Reports**

ODBC Connector - GA



- Azure Databricks UPDATE!!!!
- Amazon Redshift Update
- Dataverse Update
- Azure Cosmos DB V2 New

- Amazon Athena GA
- SIS-CC-SDMX New
- SumTotal Update
- Usercube New







- PAFnow Process Mining flowchart
- Drill Down Network PRO
- Annotated Bar
- Graphomate pictograms

- New button formatting
- Waterfall charts toggle totals
- Line chart series labels
- Sensitivity label for templates
- CALCULATE aggregate functions
- XIRR new parameters



### Service and Mobile

### Mobile

- Goals Available
- Content Exploration
- Request Access to reports

### Service

- Goals: Automated status rules and improved filtering
- API's to Determine Artifacts
- Service Principals support for read-only Admin API's

### **Paginated Reports**

 New version of Power BI Report Builder



- Power BI Connector in Power Automate (New)
- Azure Databricks (Update)

- Bloomberg Enterprise Data and Analytics (Update)
- DataVirtuality (Update)
- Vena (Update)

## **Authors**



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Helen is an instructor for several courses in the **LinkedIn Learning** library that focus on business intelligence applications such as Microsoft's Power BI and AWS QuickSight. Helen recorded the videos comprising these courses, and also authored, developed, and designed the creative content and projects within these courses. LinkedIn Learning is a paid subscription service, but it's a great investment to learn more about technology and business skills as a subscription allows you to access unlimited courses in the online library.

## Chris Wagner

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Chris has been working in the Data and Analytics space for nearly 20 years. Chris has dedicated his professional career to making data and information accessible to the masses. A significant component in making data available is continually learning new things and teaching others from these experiences. To help people keep up with this ever-changing landscape, Chris frequently posts on LinkedIn and to this blog.

