



envision
VIRTUAL SUMMIT SERIES
DATA & ANALYTICS

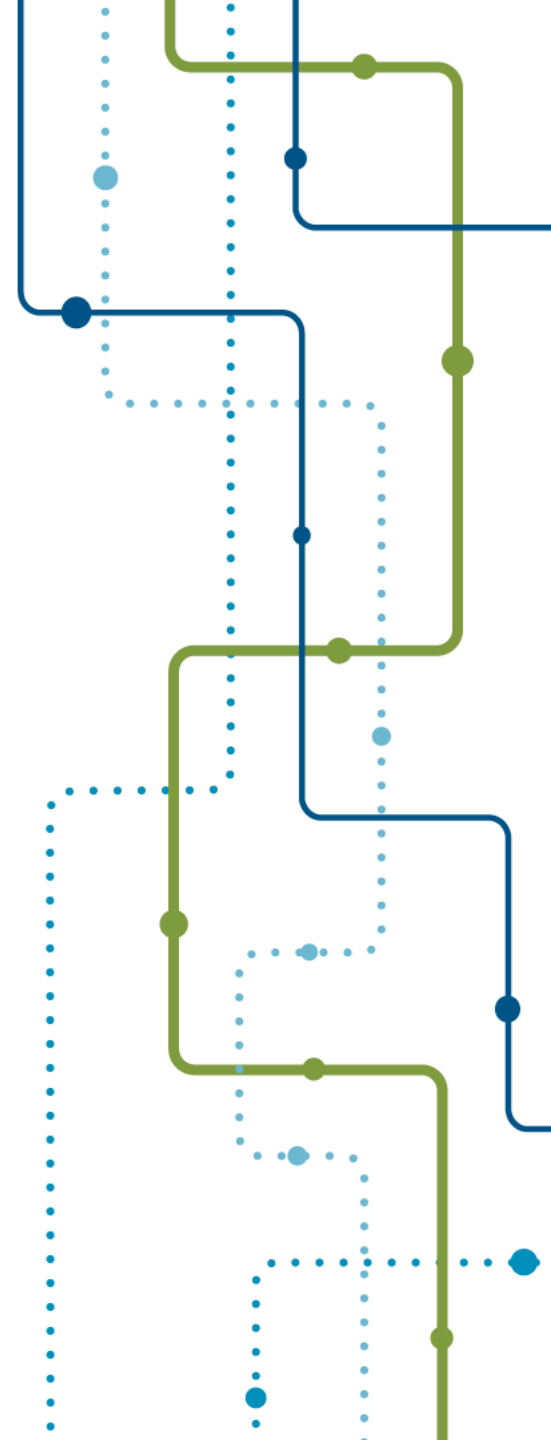
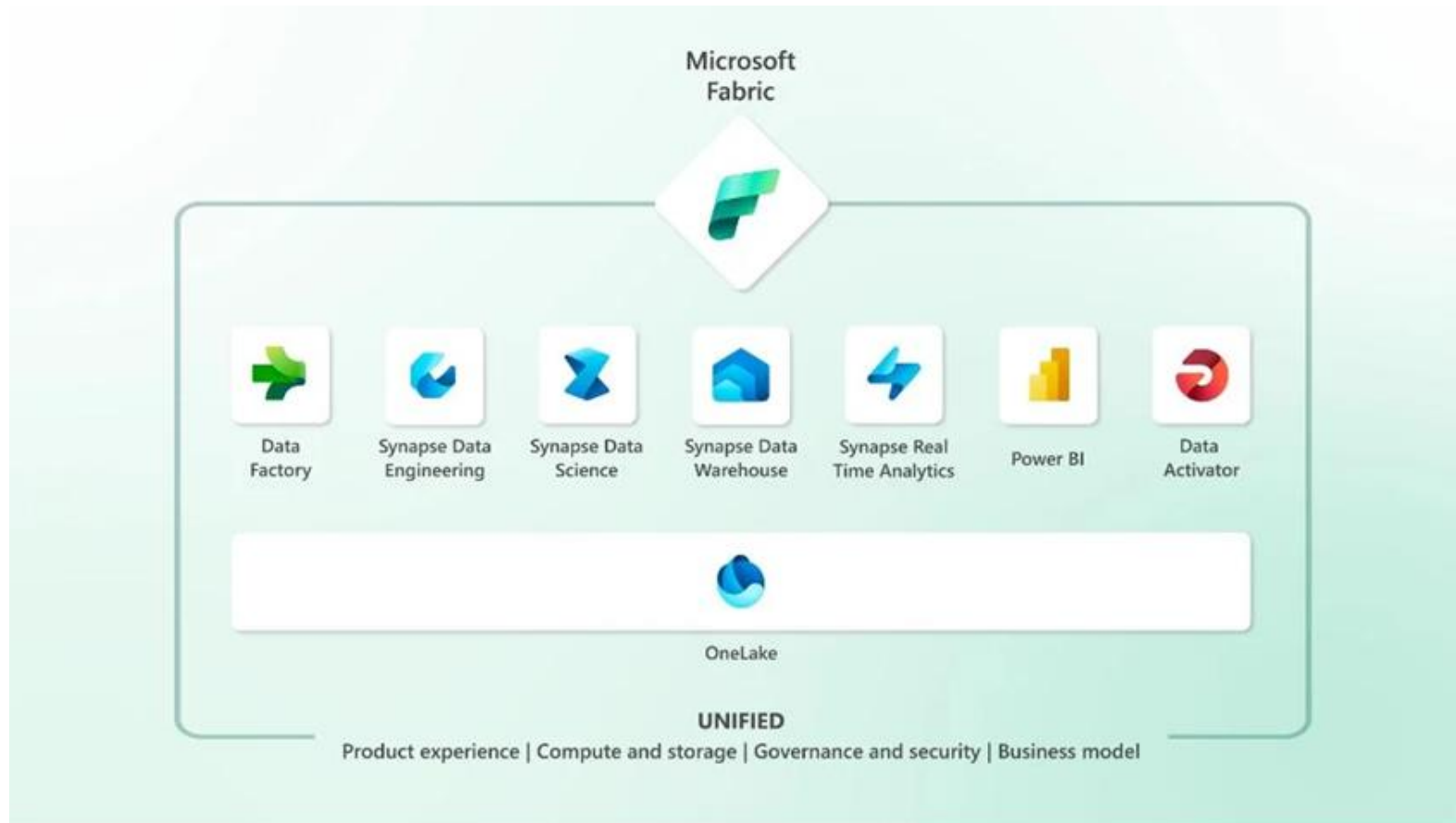
Generative AI with Power BI

BECOME A DATA WIZARD

September 12, 2023

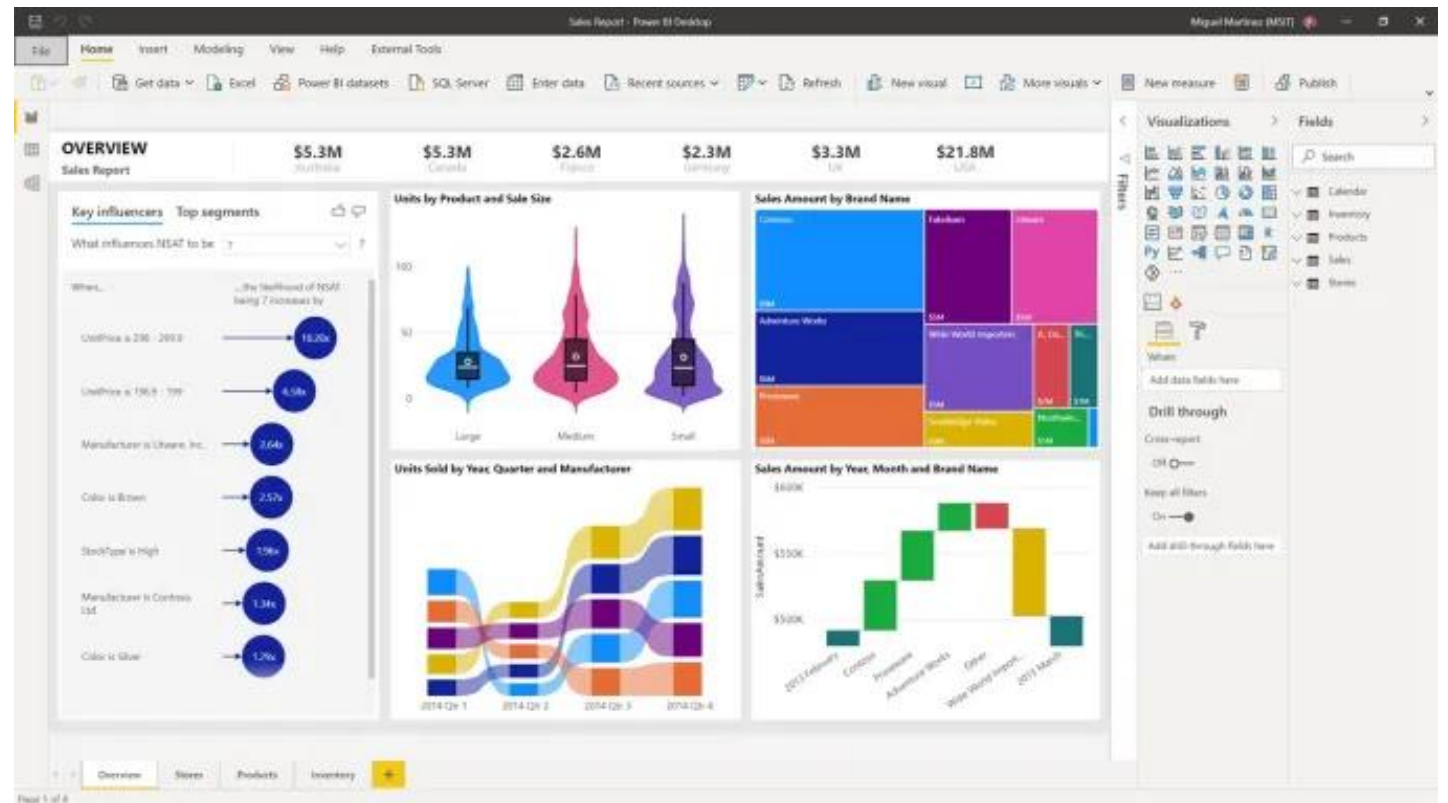
PRESENTED BY  3Cloud

Power BI & Fabric: The Magic of Data Analysis



Enchant Your Data with Power BI

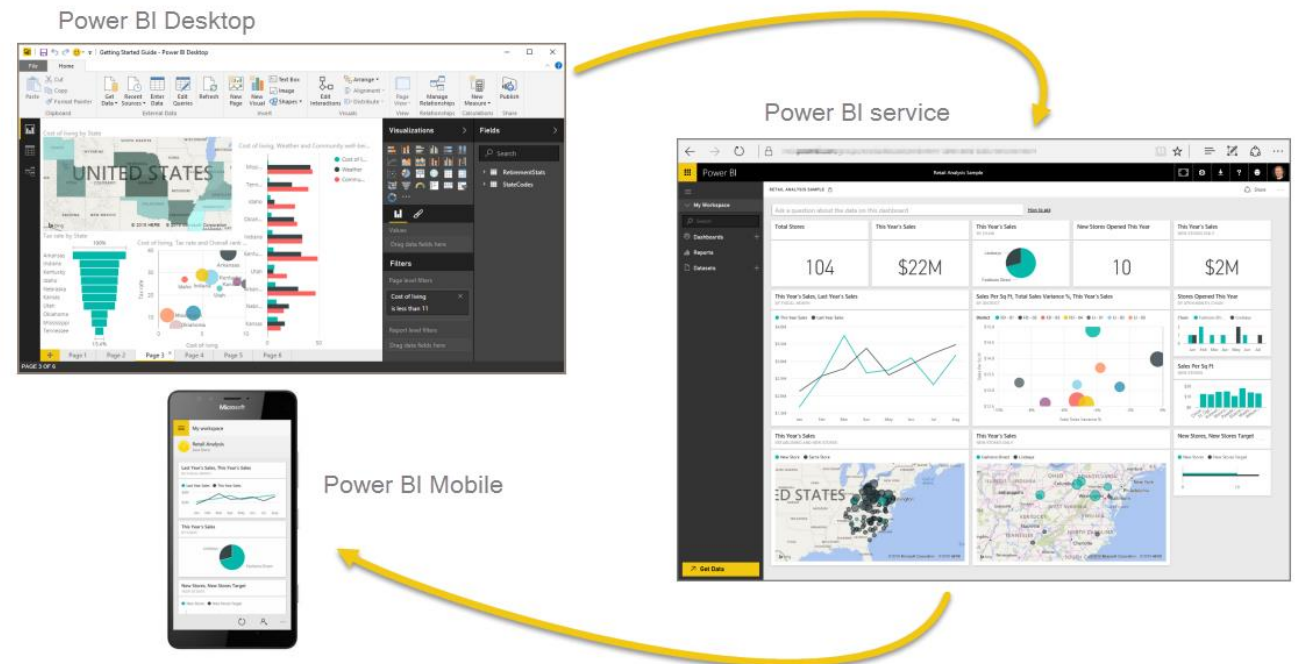
- Power BI is a revolutionary reporting tool that allows you to turn **raw data into actionable insights**
- **Responsive visuals** allow you to **interact** with data and **uncover trends** like never before



Power BI: The Crux

Creating effective Power BI Reports requires basic understanding of data modeling and visualization best practices.

A well-designed data model allows visuals to respond and be filtered correctly.

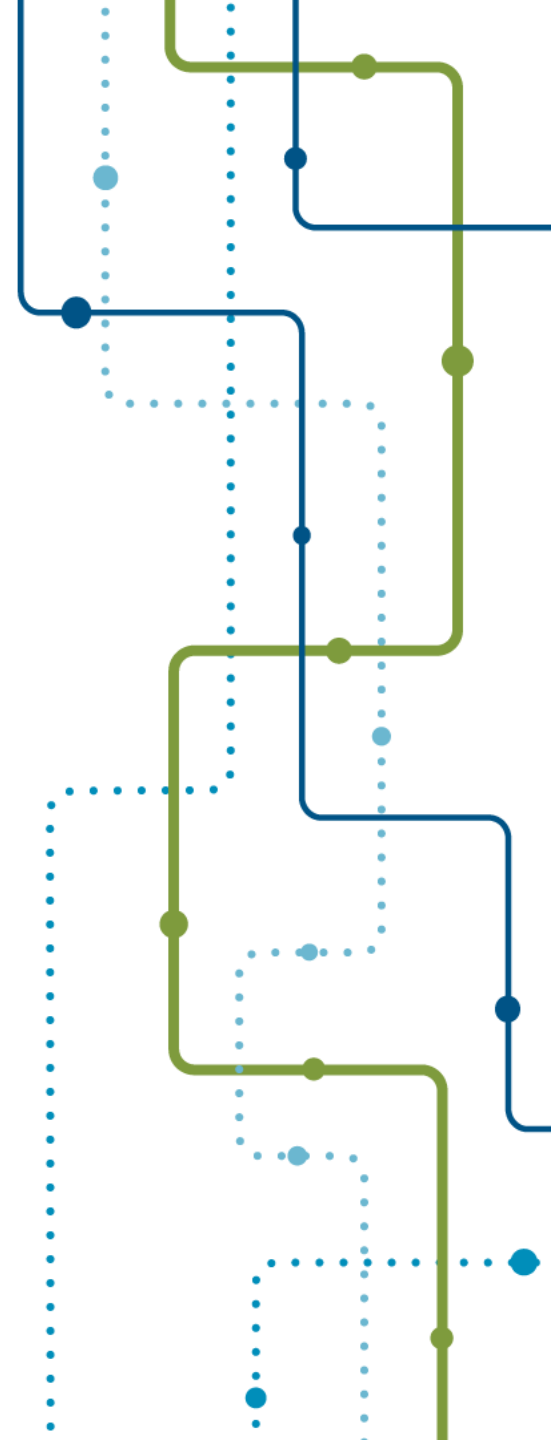


The Dangers of Improper Report Creation

- *Incorrect measure calculations*
- *Confusing visual interactions*
- *Misinformed conclusions from the audience*



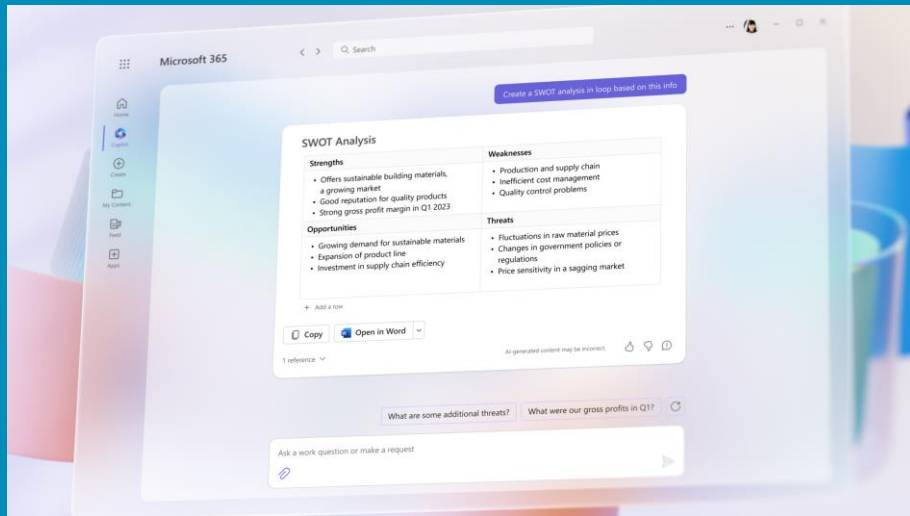
Wouldn't it be nice if you could wave a magic wand and turn data into insights?





Introducing Generative AI

Generative AI

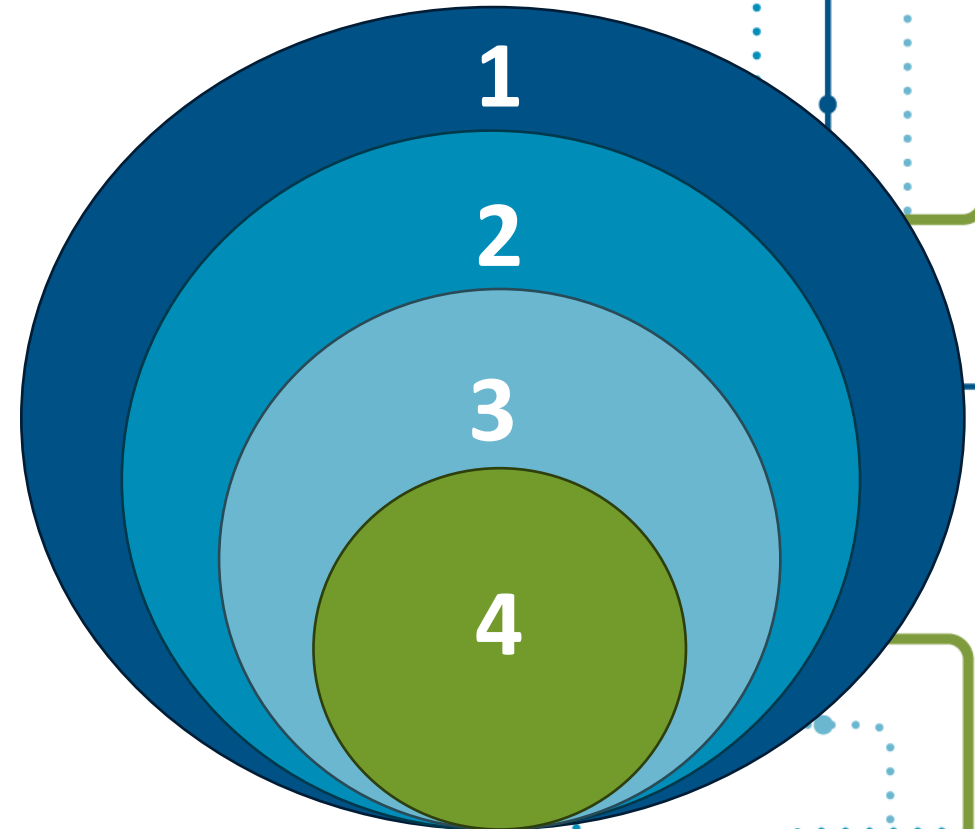


- Generative AI allows you to create content by entering a simple natural language prompt.
- Generative AI tools automatically generate content for you based on your commands.
 - **Add more details** to your prompts to customize results.
 - At any time, you can **modify** or **remove** content created using natural language prompts.

Generative AI: Is it Magic?

Sadly, **no.**

- Generative AI draws upon existing data in *Large Language Models (LLMs)* hosted in the Microsoft Cloud
- Tools like **Copilot**, **Chat GPT**, and **OpenAI** analyze existing data and use historical trends to generate content.





Should I Trust Generative AI?

You Remain in Control

Security is of utmost importance to Microsoft.

At the end of each chat session, data is discarded and is not shared with other organizations.

Copilot inherits your organization's Microsoft 365 Privacy Standards:

- Two-Factor authentication
- Compliance standards
- Privacy protection standards
- Responsible AI statements



Combine the Forces of Generative AI & Power BI

Copilot



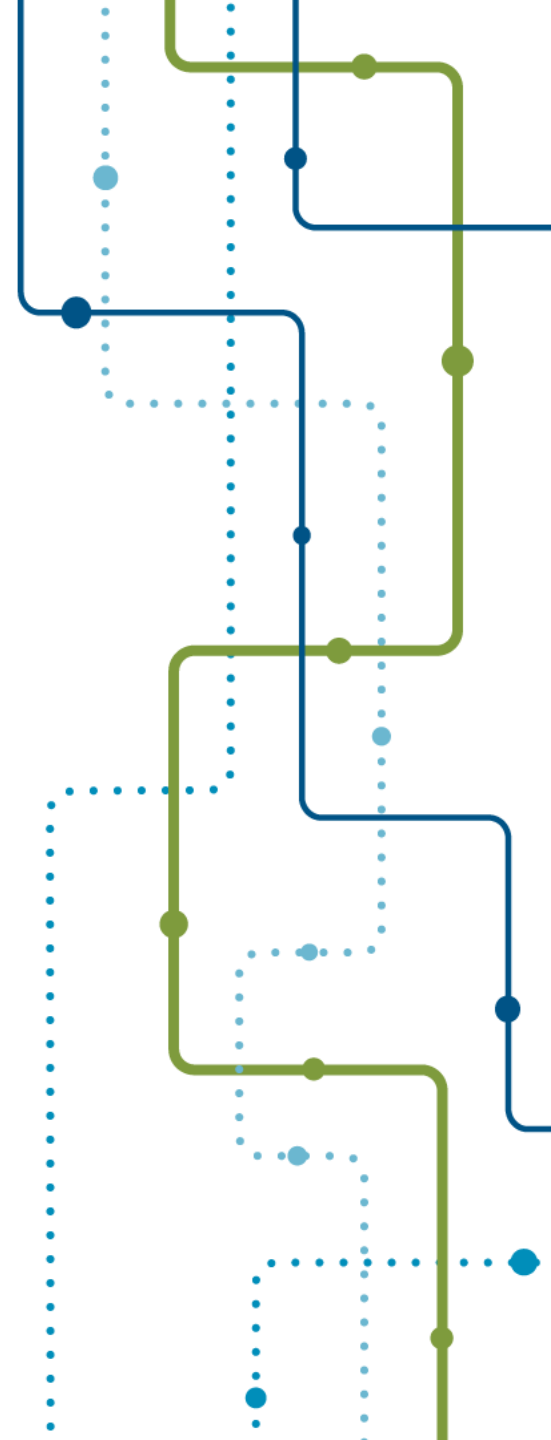
“You’re a Wizard, Satya”

- “Today marks the next major step in the evolution of how we interact with computing, which will **fundamentally change** the way we work and unlock a *new wave of productivity growth*,” said Satya Nadella.
- “With our new **copilot** for work, we’re giving people more agency and making technology more accessible through the most universal interface — **natural language.**”



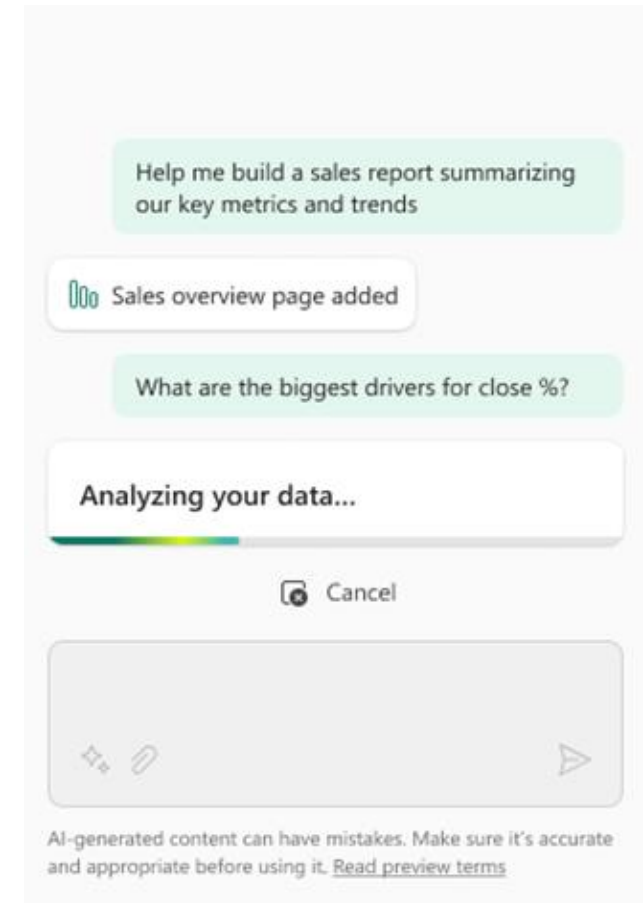
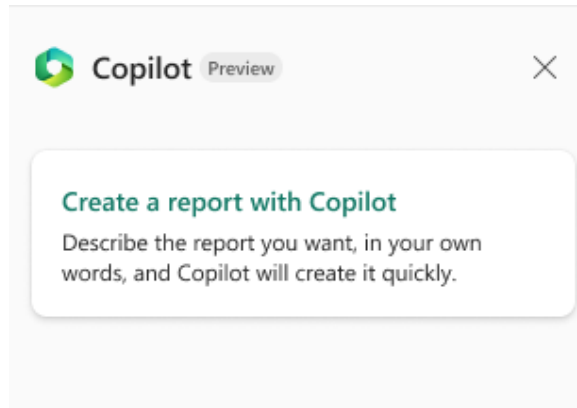
Copilot: Your Assistant for Work

- **Ask questions or enter commands**, and Copilot automatically generates content.
- You can choose **to keep, to discard, or to modify** any content generated by Copilot.
- Will be built into all tools in the M365 stack – *Word, Excel, Outlook, Teams, Power BI.*



Automate Report Creation

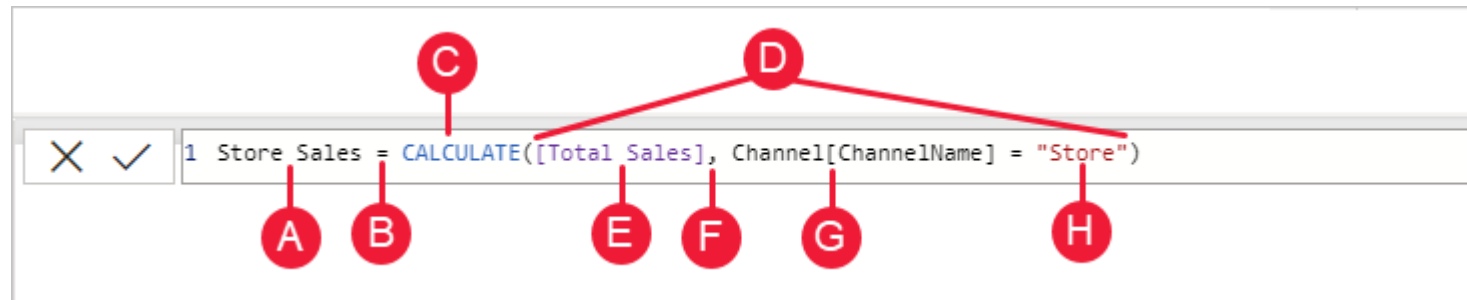
- Use Copilot to create new Power BI reports and visualizations.
- Enter a brief description of *what you want to analyze* and *how you want to visualize* the data.
- Copilot generates the report **automatically!**



Demystify DAX with Copilot

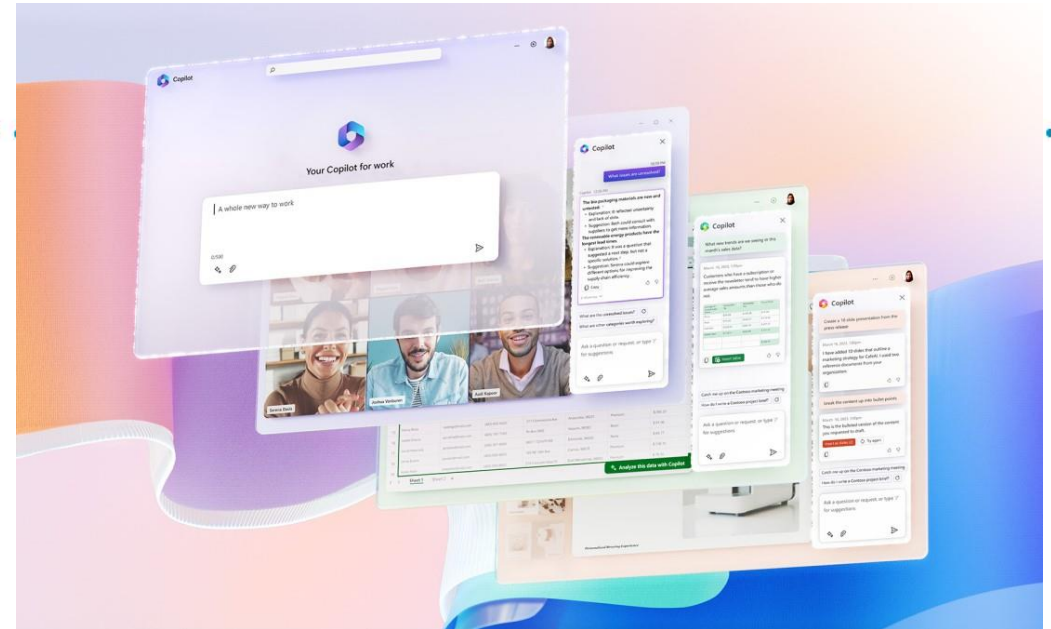
Data Analysis Expression (DAX) is the formula language in Power BI that allows you to analyze data with custom filter contexts and to create unique insights.

- Use Copilot to quickly enter text prompts and generate **complex** calculations:
 - “Show Net Revenue for the last 12 rolling months.”
- **Optimize** and **refine** existing DAX calculations



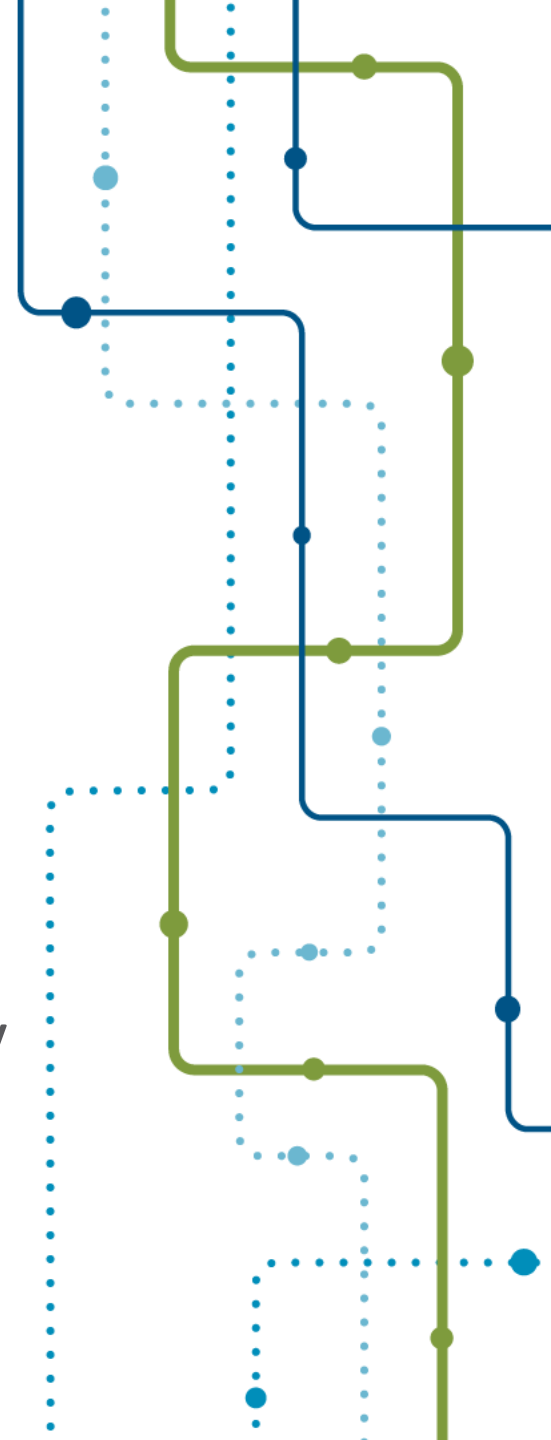
When Can I Start?

Private Preview



Private Preview Status

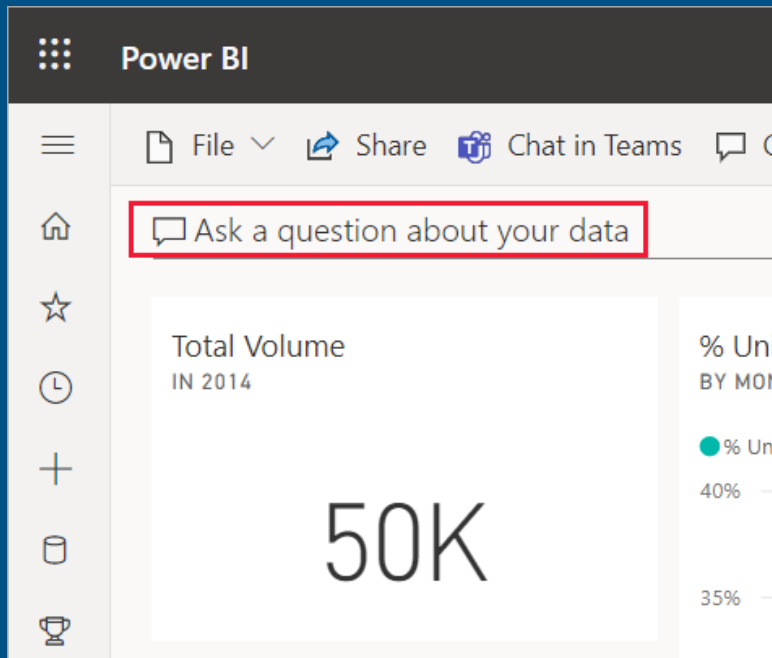
- Copilot was announced at **Microsoft Inspire** on July 18, 2023.
- Microsoft is currently **testing the functionality** with a small group of customers and **will release the functionality for public preview after testing.**
 - Still on upcoming release roadmap.
- Microsoft has **not** released pricing, licensing, or availability information.





Existing AI Power BI Visuals

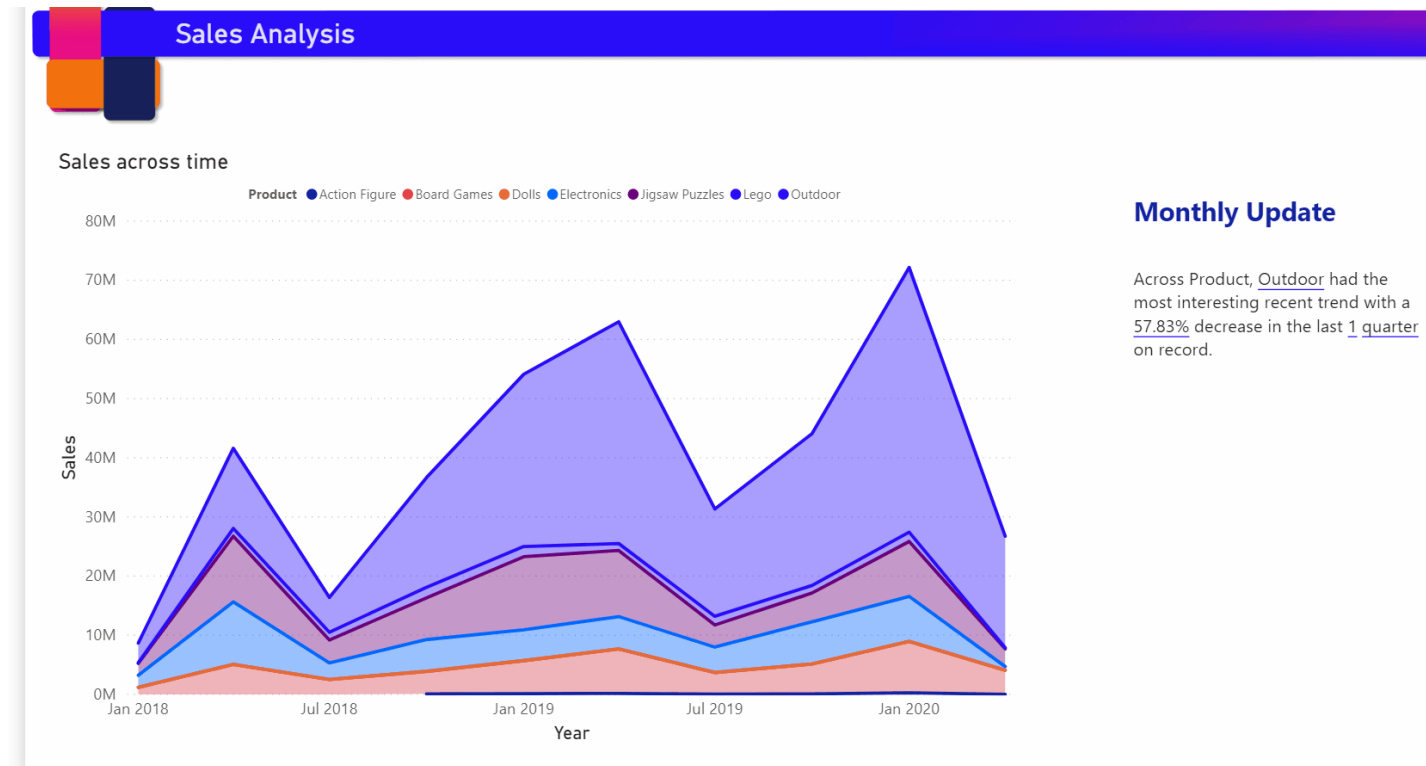
Q & A Visualization



- **Ask questions** about your data and automatically generate Power BI visualizations.
- Add more details to customize results.
- Add visuals to existing **reports & dashboards**.

Smart Narratives

- Power BI visualization that automatically generates **text summaries** to supplement Power BI reports.
- Makes content more **accessible** for non-technical audiences.
- The visualization **automatically updates based on user-interactions** in slicers and in other visuals.

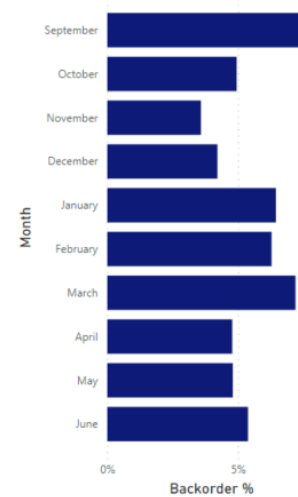


Decomposition Trees

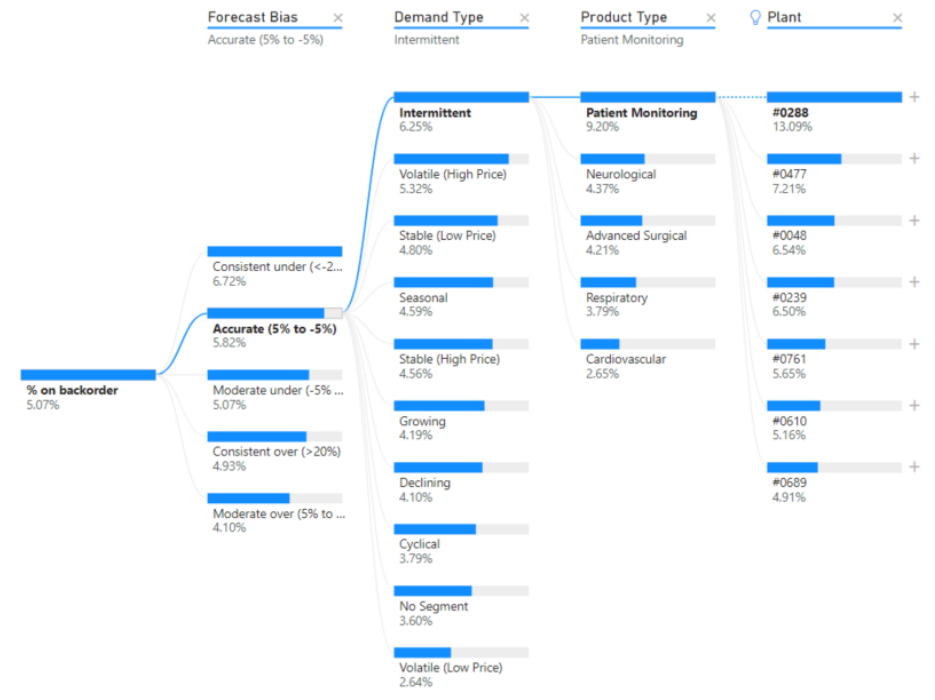
- Explore reasons for increases and decreases in business metrics.
- Analyze impact of different fields from the data to track and understand metrics.
- Create new perspectives on data and drive outcomes.

Root Cause Analysis

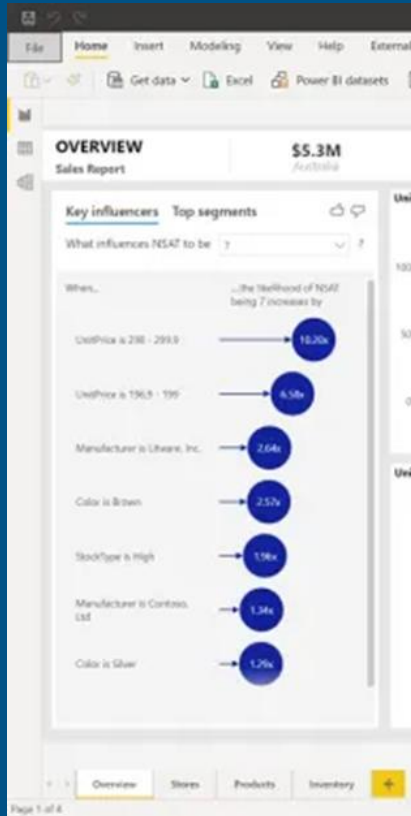
Average of Backorder % by Month



High Risk Low Risk



Key Influencers



Automatically highlight the most statistically significant contributors to business metrics.

- **Overcome human bias.**
- **Automatically updates** based on interactions with other visuals on the page.

The background features a network of blue and green lines, some solid and some dotted, with circular nodes at various points. The lines are arranged in a complex, interconnected pattern across the page.

Pack Your Bags

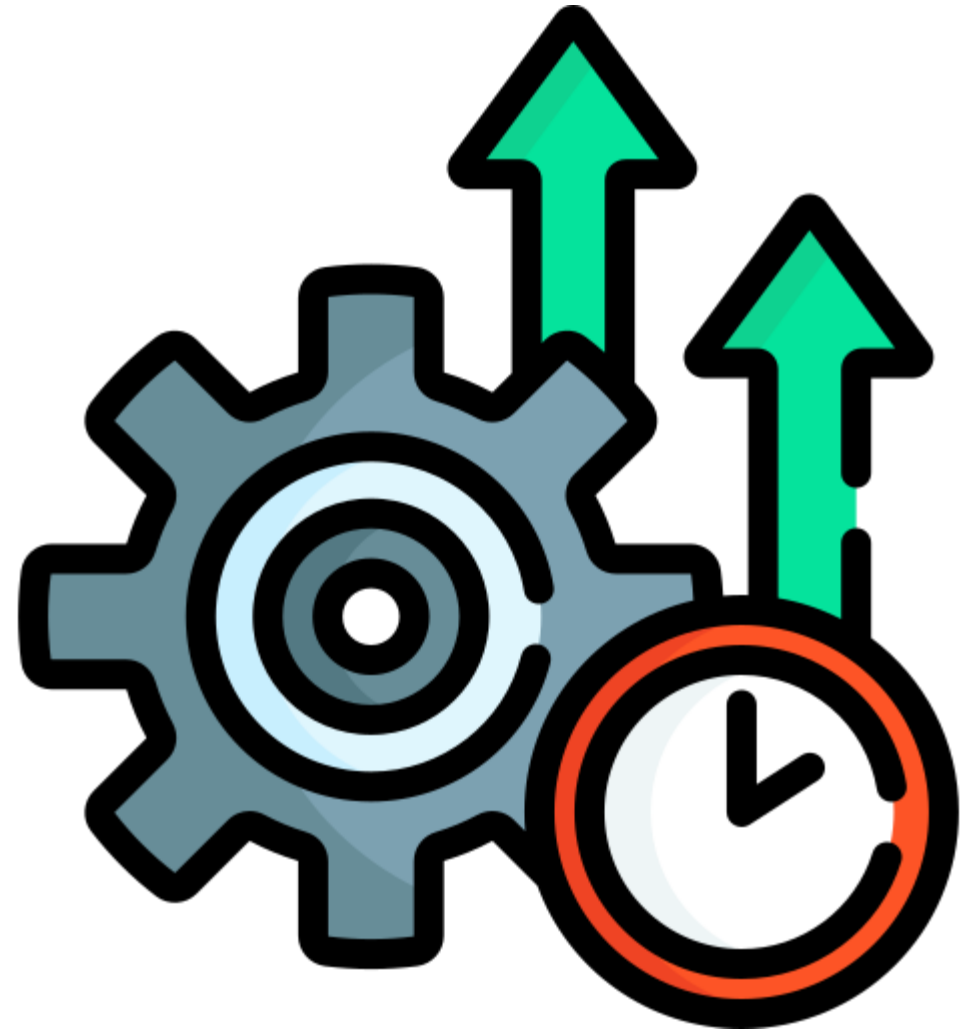
Unlock Your Potential



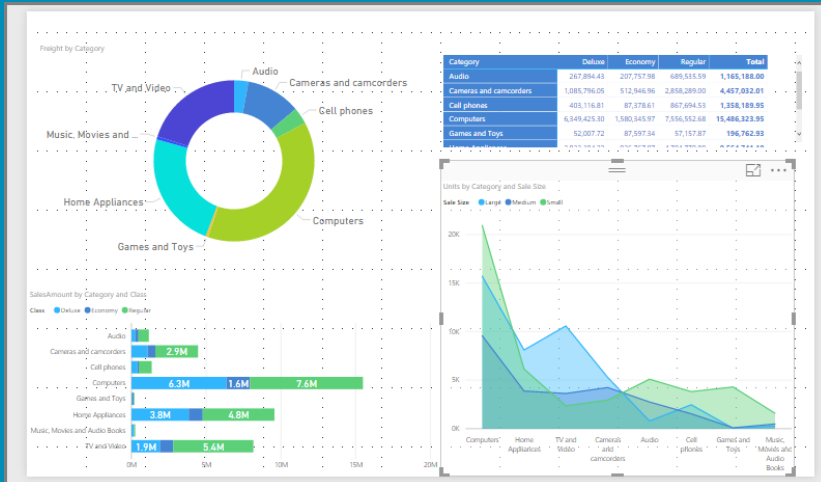
- **Saving time in development** allows you to *focus on analyzing* the data.
- Spend less time creating content and **more time sparking change** in your organization.
- **Maximize your return** on investments in Power BI.
 - Reserve investments for sophisticated engineers such as 3Cloud.

Increase Productivity

- **Save time** requesting content from IT.
- Create reports in a fraction of the time required before.
 - **Replace outdated manual report generation processes.**
- Spend less time on manual report creation and focus efforts on **complex analysis** of trends instead.

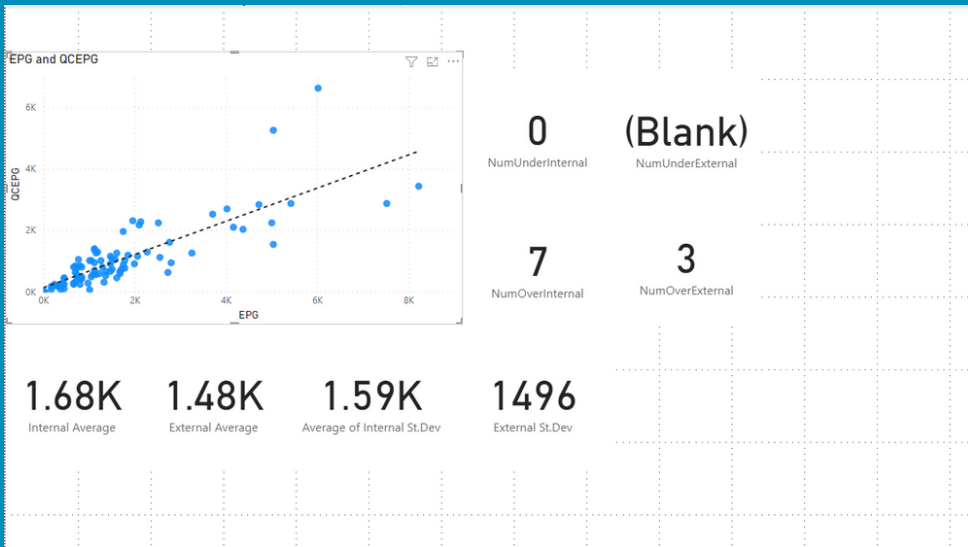


Bewitch Your Audiences



- Use natural language prompts to create **visually consistent** reports with ease.
 - Adhere to **organizational design standards** to create sleek, elegant reports.
- **Free your brain** from manual content creation.
 - *Allow yourself to dream* of more meaningful report design capabilities.

Overcome Bias

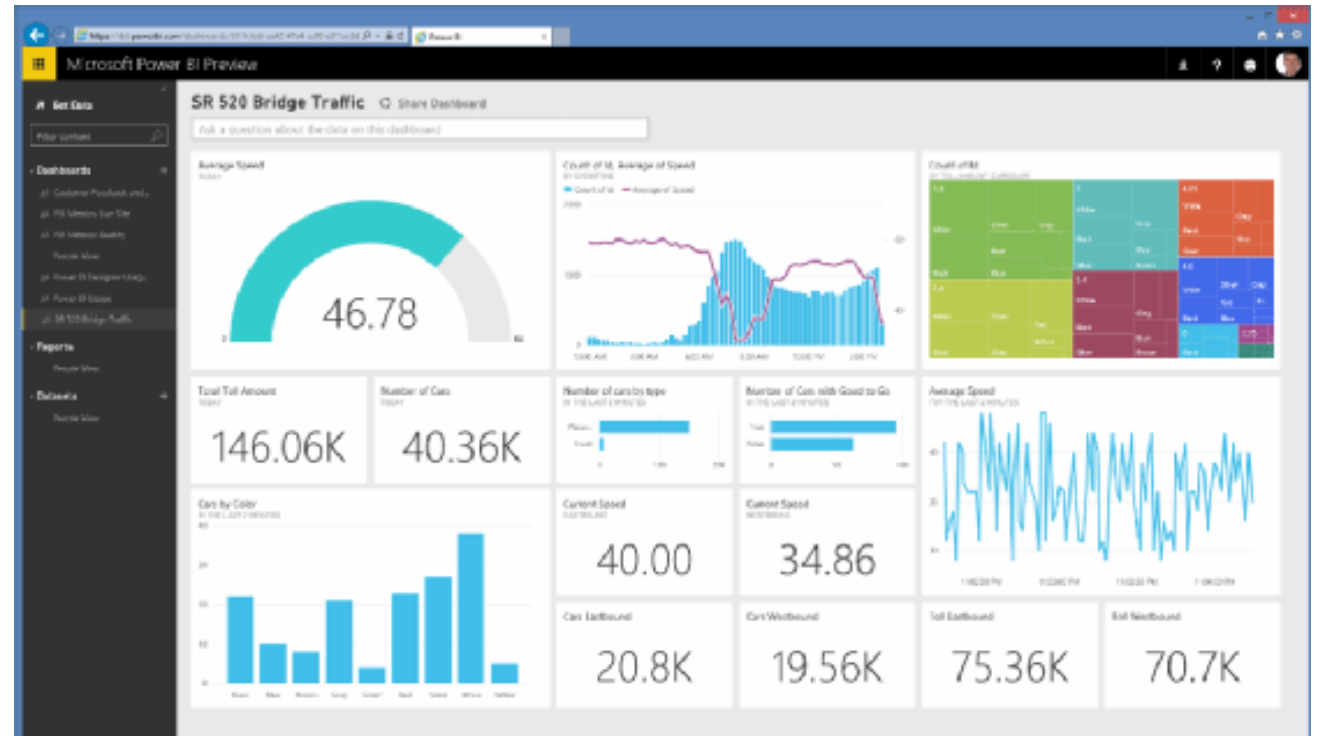


- Allow **impartial** AI algorithms to analyze data *without preconceived notions or leading assumptions*.
- Create **new perspectives** and drive **new business decisions** based on trusted data insights.
- Computers see more than the human eye and can **identify outliers** more efficiently.

Democratize Development

If you can read this slide, you can create a **complex, interactive** Power BI Report.

- Elevate reporting standards by **empowering everyone** to leverage Power BI.
- You're only as strong as your weakest link.



Cui Bono? *Everyone.*

- **Executives**

- “Give me the highlights.”

- **Business Users & Analysts**

- “Power BI is not the focus of my job, but I need to analyze data in a more sophisticated way than in Excel.”
- “I need an executive summary for my upcoming presentation.”

- **Field Sales Representatives**

- “I’m on the road, and I need reports as soon as possible.”

- **Developers**

- “I want to devote more of my time to creating complex calculations and configuring custom report designs.”

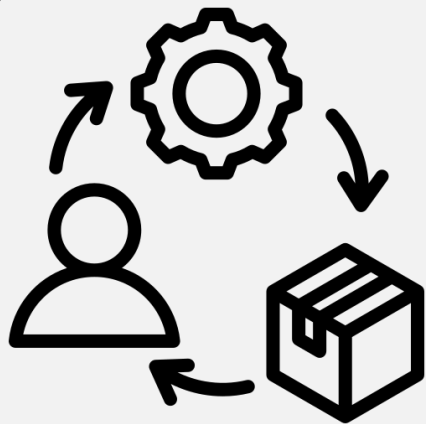
The background features a complex network of lines and dots. Solid lines in blue and green connect various circular nodes. Some lines are solid, while others are dotted. The nodes are also colored in blue and green, creating a visual flow across the page.

Industry Examples

AI For All

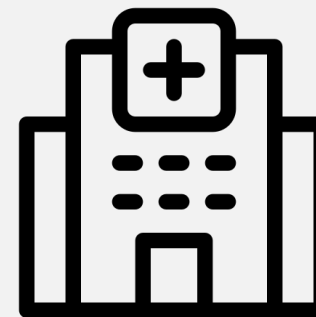
Supply Chain

- “Build a report that allows me to *select dates* and **analyze worker productivity trends** by departments.”



Healthcare

- “Show me a report that *dynamically identifies medical outliers* between patient classes and **color-codes** the results.”



AI for All

Finance

- “Generate a dashboard that *compares market trends year-over-year* and automatically updates based on what **industry I select.**”



Education

- “Create a report that *analyzes student performance across courses* for the **last rolling twelve months.**”



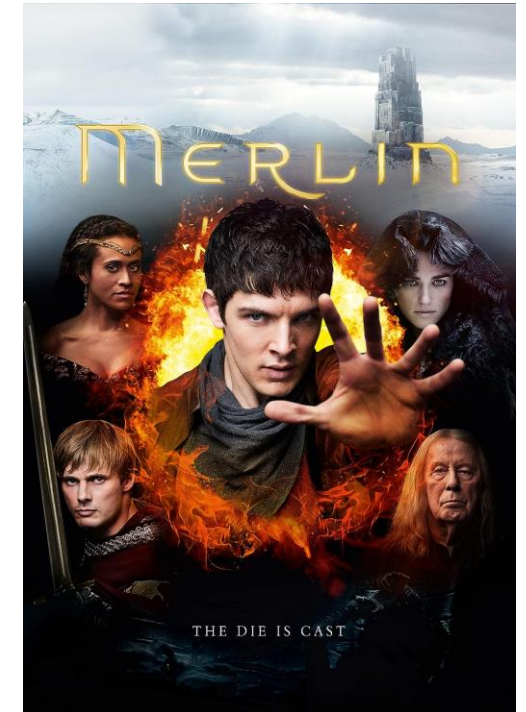


Partner with 3Cloud

envision

©2023 3Cloud

Pop Quiz: What Do These Wizards Have in Common?



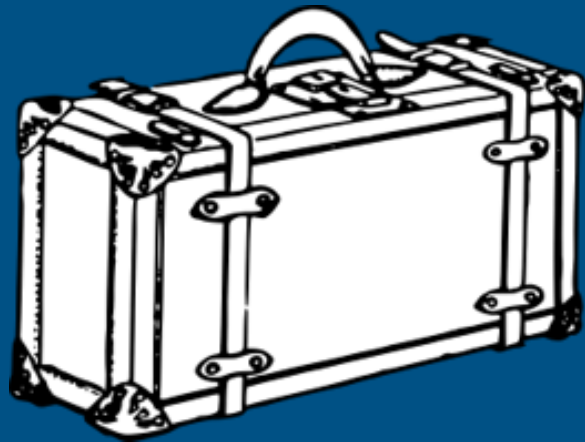
Don't Travel Alone



Answer: Each wizard travels with a group of **trusted advisors** and **partners**.

- No successful wizard learns the ropes on his or her own.
- The most powerful among us learn from others through **expert advice, guidance, and collaboration**.

Embark on a Journey with 3Cloud



- Provide **expert guidance** on AI implementation in Power BI.
- **Transcend content created with AI** with *more creative solutions based on your company's unique needs.*
- Validation of AI-generated content for **accuracy** and for **relevance**.

3Cloud: Engagement Options

Professional Services Engagements:

- Receive dedicated support to implement solutions in a *fixed timeline*.
- Develop AI-infused solutions in a **short time frame**.

Managed Data Engagements:

- Receive dedicated support *over a span of months*.
- Flexible engagement options for **both solution implementation** and **strategic training** on best practices for AI implementation in Power BI.



Enter the World of Pure Imagination with Generative AI

The Next Stops on Your Journey

Sept 14: 1-2 PM EDT

Your Toolbelt Arsenal for Revamping Inherited Power BI Reports

- *“Get ready for an exhilarating journey of report revamping!”*



Krystina Hughes
3Cloud Senior Data &
Analytics Consultant

Sept 14: 4-5 PM EDT

Microsoft Fabric | The Magic of a Unified Analytic Reporting Platform

- *“Get ready to be blown away by Microsoft's sensational lake house architecture, powered up with the incredible capabilities of Power BI!”*



Paul Turley

Director, Data & Analytics // 3Cloud