

No premium? No problem!

Sign up for a free of charge Fabric trial that lasts for a period of 60 days.

<https://aka.ms/try-fabric>

All workshop materials available at:
<https://aka.ms/pbiworkshops>

Folder: Day After Dashboard in a Day

Day After Dashboard in a Day

with Microsoft Fabric



A cluster of translucent, multi-colored geometric shapes (cubes, spheres, and cylinders) in shades of blue, green, yellow, and pink, arranged in a loose, overlapping composition against a white background.

Session material and setup

Attendee learning styles



Visual

- Studies notes on presentations.
- Reads diagrams.
- Great sense of direction.
- Takes detailed notes.



Auditory

- Enjoys story-telling.
- Understands changes in tone.
- Participates vocally.
- Engages in open discussions.



Kinesthetic

- Learns by doing.
- Likes to explore.
- Gets satisfaction from building.
- Enjoys the “clicks” and “keys”.



(Optional) Tutorial and trial

All materials available at:

<https://aka.ms/pbiworkshops>

Folder:

Day After Dashboard in a Day

Fabric trial:

<https://aka.ms/try-fabric>



(Optional) Demo user profile

Open a new incognito browser session:

Ctrl+Shift+N

Place initials next to demo user profile:
(<https://aka.ms/sqlkonfuser>)

Login with demo user profile:
(<https://office.com>)



The background features a collection of semi-transparent, multi-colored 3D geometric shapes (cubes, spheres, and cylinders) in shades of blue, green, yellow, and pink, suspended in a white space with faint wireframe grid patterns.

Microsoft Fabric overview



Microsoft Fabric

An end-to-end data platform that brings together all the data and analytics tools that organizations need to go from the data lake to the business user



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



AI-powered



OneLake



Purview

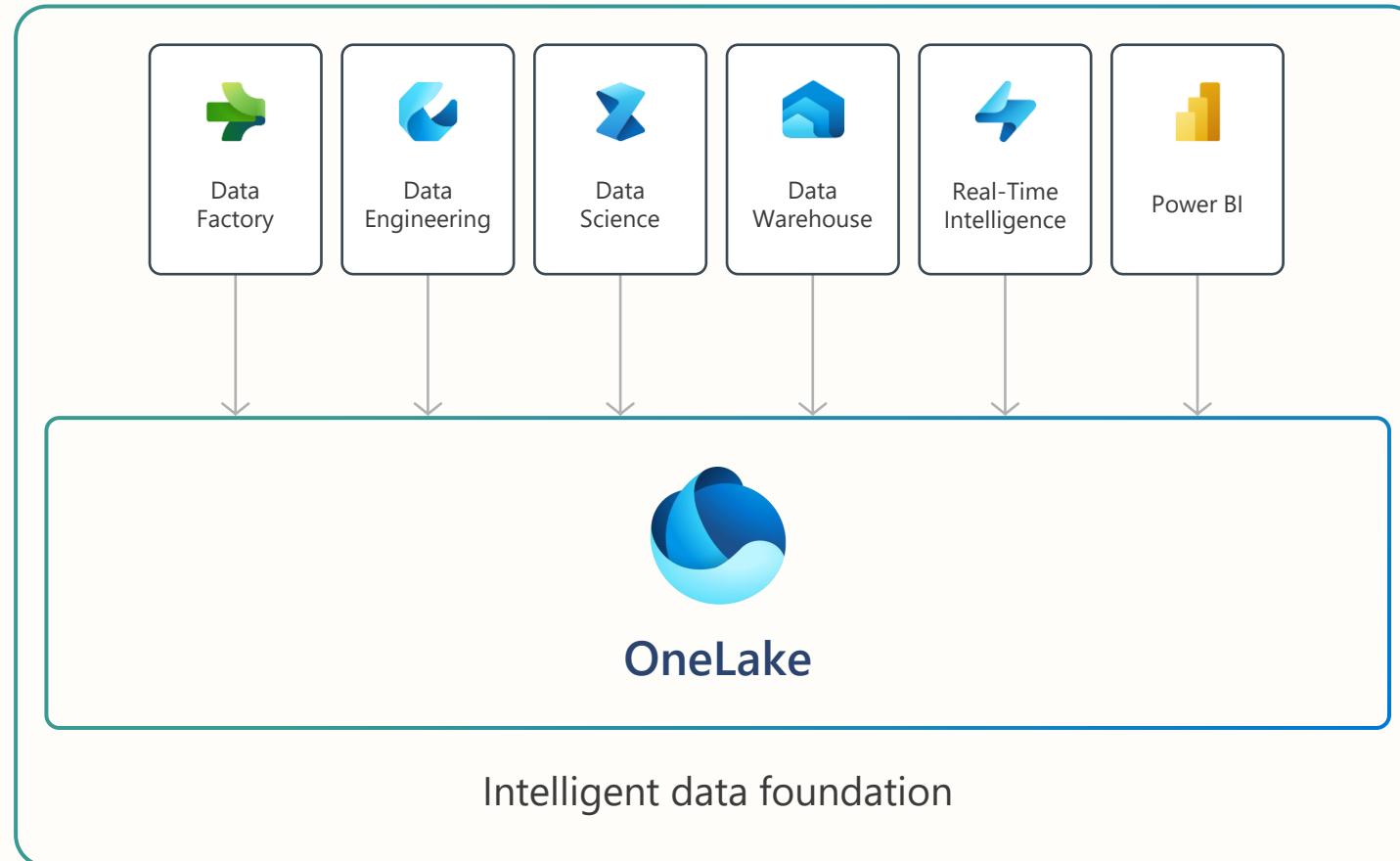
**“The OneDrive
for Data”**



OneLake

OneLake for All Data

“The OneDrive for Data”



A single SaaS lake for the whole organization

Provisioned automatically with the tenant

All workloads automatically store their data in the OneLake workspace folders

All the data is organized in an intuitive hierarchical namespace

The data in OneLake is automatically indexed for discovery, MIP labels, lineage, PII scans, sharing, governance and compliance



Microsoft Fabric

The data platform for the era of AI

Complete analytics platform

Everything, unified

SaaS-ified

Secure and governed

Lake centric and open

OneLake

One Copy

Open at every tier

Empower every business user

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI-powered experiences

Copilot accelerated

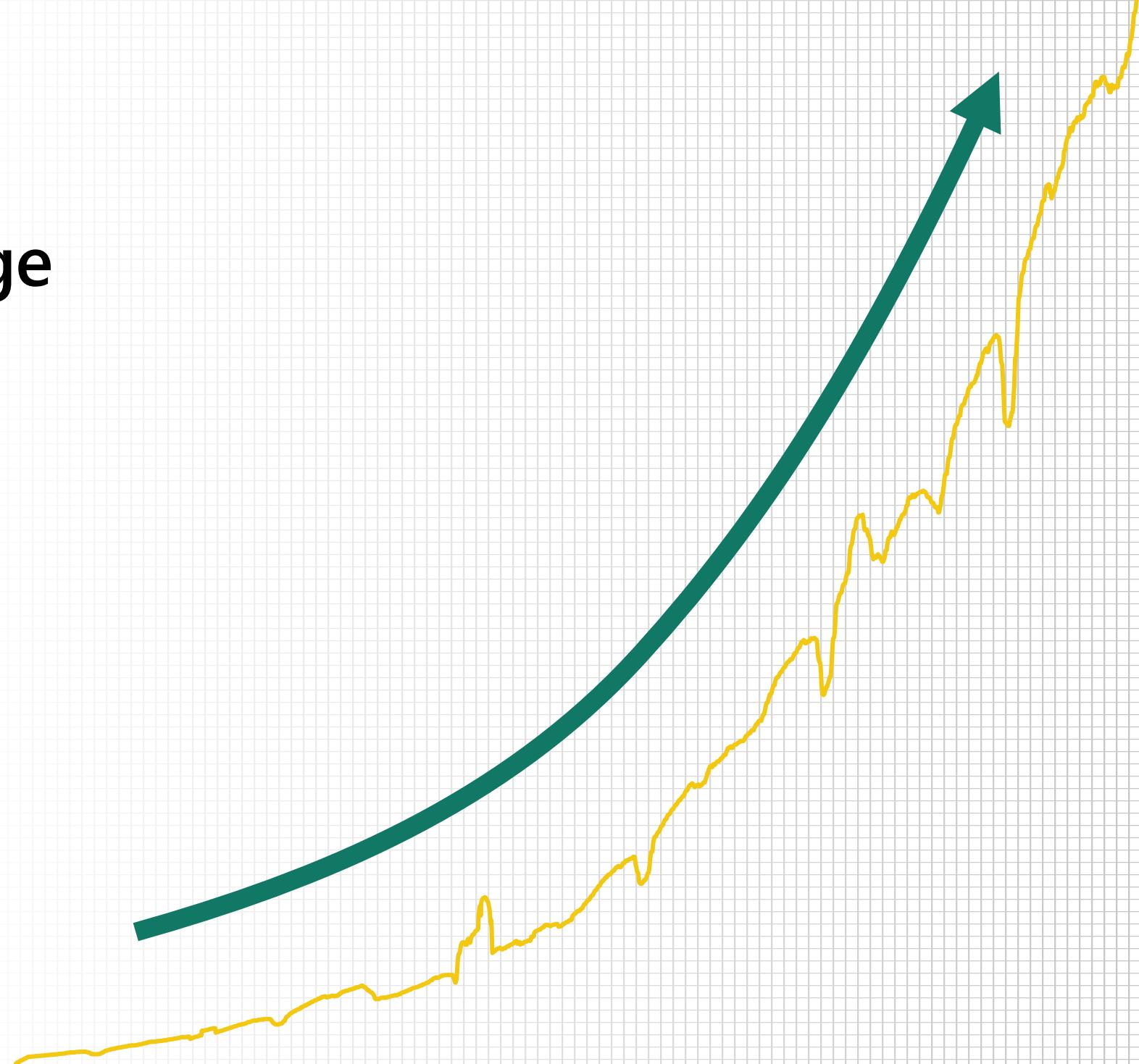
ChatGPT on your data

AI driven insights

Power BI monthly active usage

8 years
of rapid growth

300k+
Organizations





1.6M
Community
Members

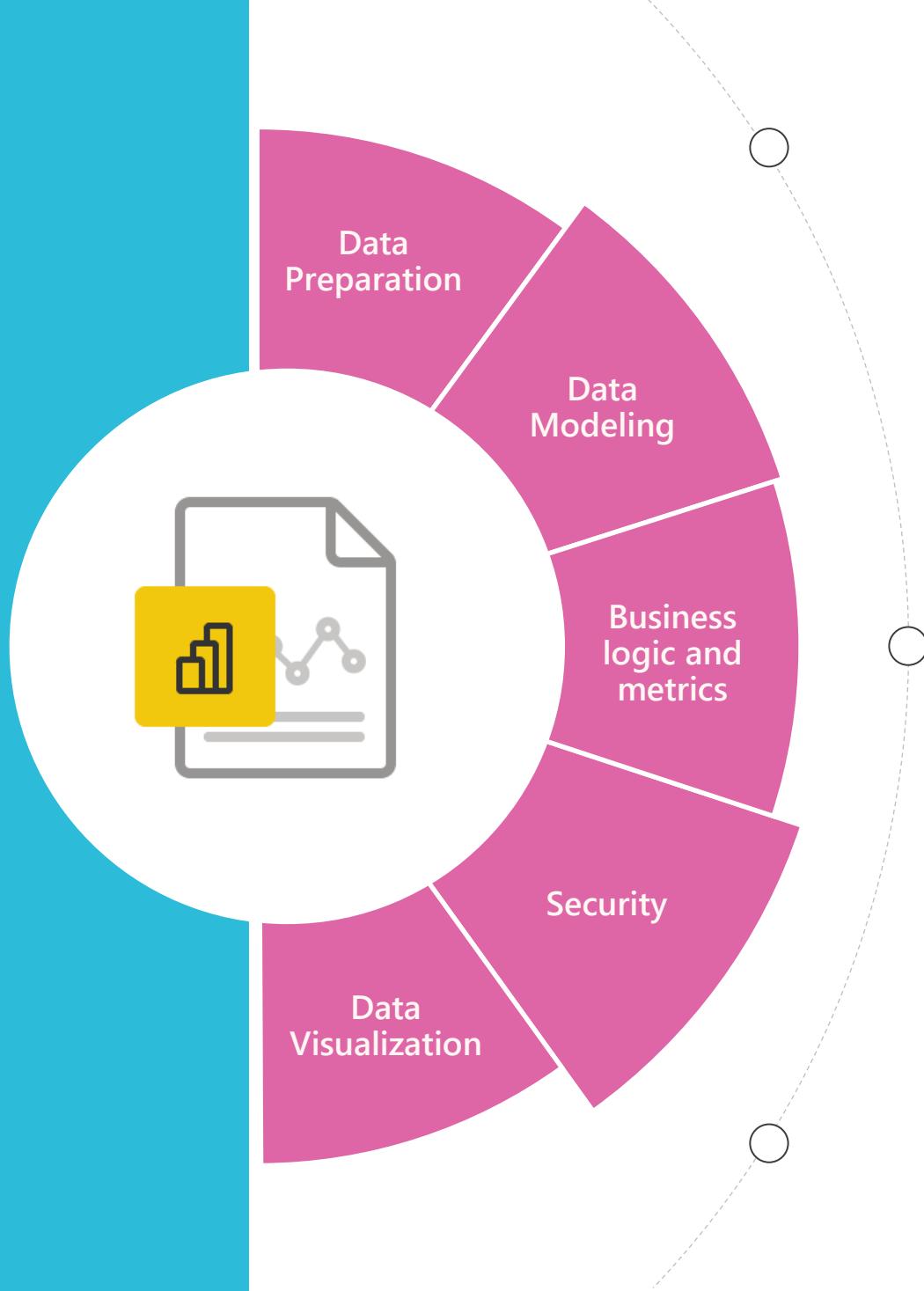
300+
Independent Power BI
User Groups Worldwide

Microsoft Fabric Items

Power BI

Use data to find insights, track progress, and make decisions faster. [Learn more](#)

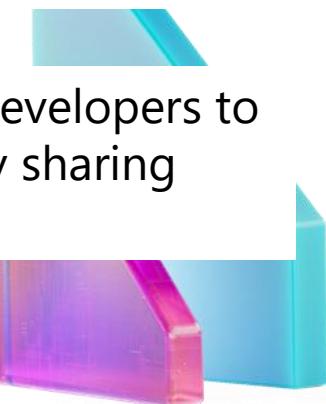
Report Create an interactive presentation of your data.	Paginated report Display tabular data in a report that's easy to print and share.	Scorecard Define, track, and share key metrics for your organization.	Real-Time Intelligence Find insights, track progress, and make decisions faster.
Dashboard Build a single-page data story.	Dataflow Prep, clean, and transform data.	Datamart (preview) Provide strategic insights from multiple sources into your business-focused or departmental data.	Eventhouse Rapidly load structured, unstructured and streaming data for querying.
Streaming dataset Build visuals from real-time data.	Streaming dataflow Combine and transform streaming data.		KQL Queryset Run queries on your data to produce shareable tables and visuals.
Data Warehouse Provide strategic insights from multiple sources into your entire business. Learn more			Real-Time Dashboard Visualize key insights to share with your team.
Warehouse Provide strategic insights from multiple sources into your entire business.	Mirrored Azure SQL Database (preview) Easily replicate data from an existing source into an analytics-friendly format.	Mirrored Azure Databricks catalog (preview) Explore Unity Catalog Tables	Data Engineering Create a lakehouse and operationalize your workflow to build, transform, and share your data estate.
Mirrored Snowflake Easily replicate data from an existing source into an analytics-friendly format.	Mirrored Azure Cosmos DB (preview) Easily replicate data from an existing source into an analytics-friendly format.		Lakehouse Store big data for cleaning, querying, reporting, and sharing.
Data Factory Empower your organization to get value from data faster than ever.			Notebook Explore data and build machine learning solutions with Apache Spark applications.
Dataflow Gen2 Prep, clean, and transform data.	Data pipeline Ingest data at scale and schedule data workflows.	Azure Data Factory (preview) Mount an ADF into Fabric to monitor all your pipelines in one data integration platform.	Environment Set up shared libraries, Spark compute settings, and resources for notebooks and Spark job definitions.
Apache Airflow job (Preview) Simplifies the creation and management of Apache Airflow environments on which you can operate end-to-end data pipelines at scale.			Experiment Create, run, and track development of multiple models for validating hypotheses.
			AI Skill (preview) Create AI-powered workflows over your data, and connect these to Copilots and applications across Fabric.
			Notebook Explore data and build machine learning solutions with Apache Spark applications.



Separating Development

**For enterprise-scale deployments,
separate the data preparation,
semantic model, and report
development from a single file
solution**

This approach enables different solution developers to work independently and collaboratively by sharing components





Data
Preparation

Scenario

Collect and process daily file extracts from a data source.

To ensure that multiple teams in our organization can access this information, we will use data pipelines to collect the data and dataflows to prepare it.

This will enable us to create reusable tables that our colleagues can easily connect to in a lakehouse.



Dataflow Gen2

Next generation of data preparation

- **Easy to use**, no-code ETL & ELT
- Includes **smart AI-based data prep**
- More than **300+ transformations**
- **Output data destinations**
Write output of dataflows to Azure SQL database, Data warehouse, Lakehouse and more

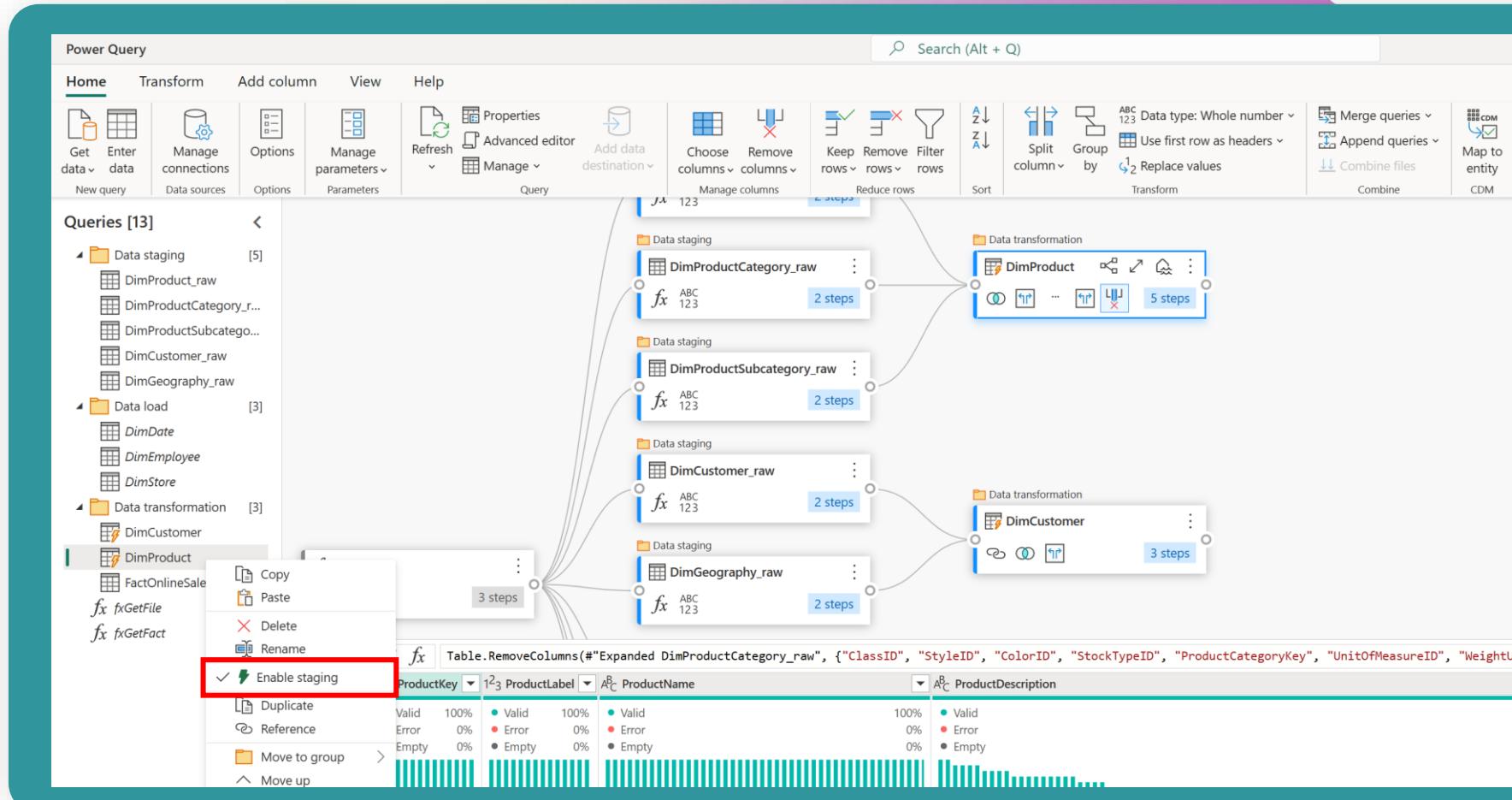
The screenshot shows the Microsoft Power Query interface within the Power BI service. The left sidebar displays the 'Queries' list, which includes 'Data staging' (5 items), 'Data load' (3 items), and 'Data transformation' (3 items). The 'DimCustomer' query is currently selected, indicated by a red arrow pointing to its icon. The main area shows a preview of the data with various columns and their data types. The top ribbon bar has tabs for Home, Transform, Add column, View, and Help. The Transform tab is active. The ribbon also contains various data manipulation tools like Refresh, Advanced editor, Manage, Properties, and Options. On the right side, there are sections for 'Query settings' (Properties, Name: DimCustomer, Entity type: Custom) and 'Applied steps' (Source, Merged queries, Expanded DimGeography_raw). At the bottom, there's a 'Data destination' section indicating 'No data destination'.

Dataflow Gen2 staging

Highly scalable using
Fabric compute

A **seamless experience** -
yielding fast, easy and powerful
results

Abstracts away the
complexities of traditional ETL
and ELT

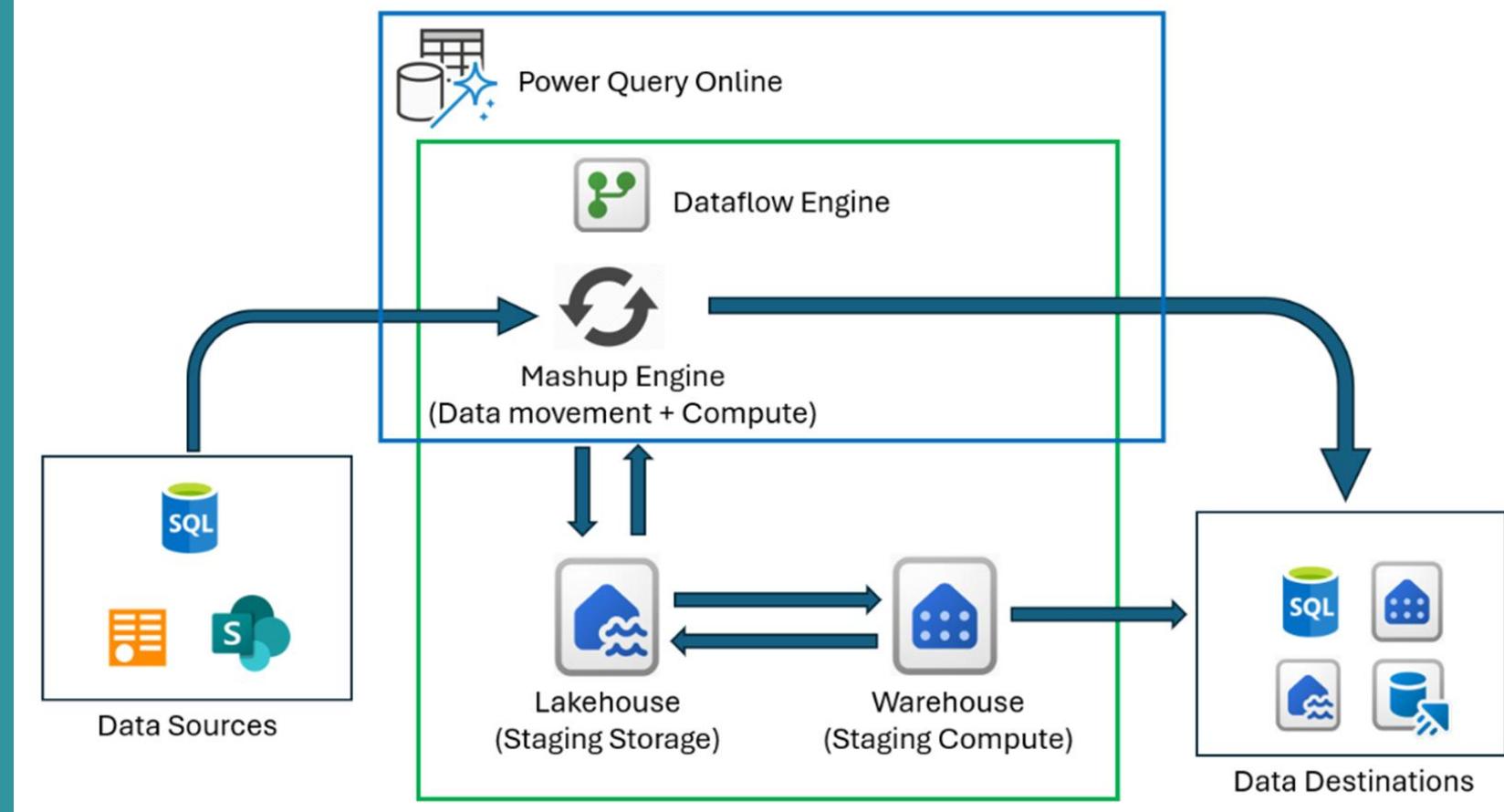


*Previously titled "Enable load"

Dataflow Gen2 staging

Optimize the use of dataflows with Fabric compute

1. Connect to your data and **copy** it into Fabric using the ***Enable staging** option (***On by default**)
2. Create a **reference** query in a new query.
3. Apply transformation steps to the **computed** table for complex ETL operations such as join, distinct, filter and group by – leveraging Fabric compute.



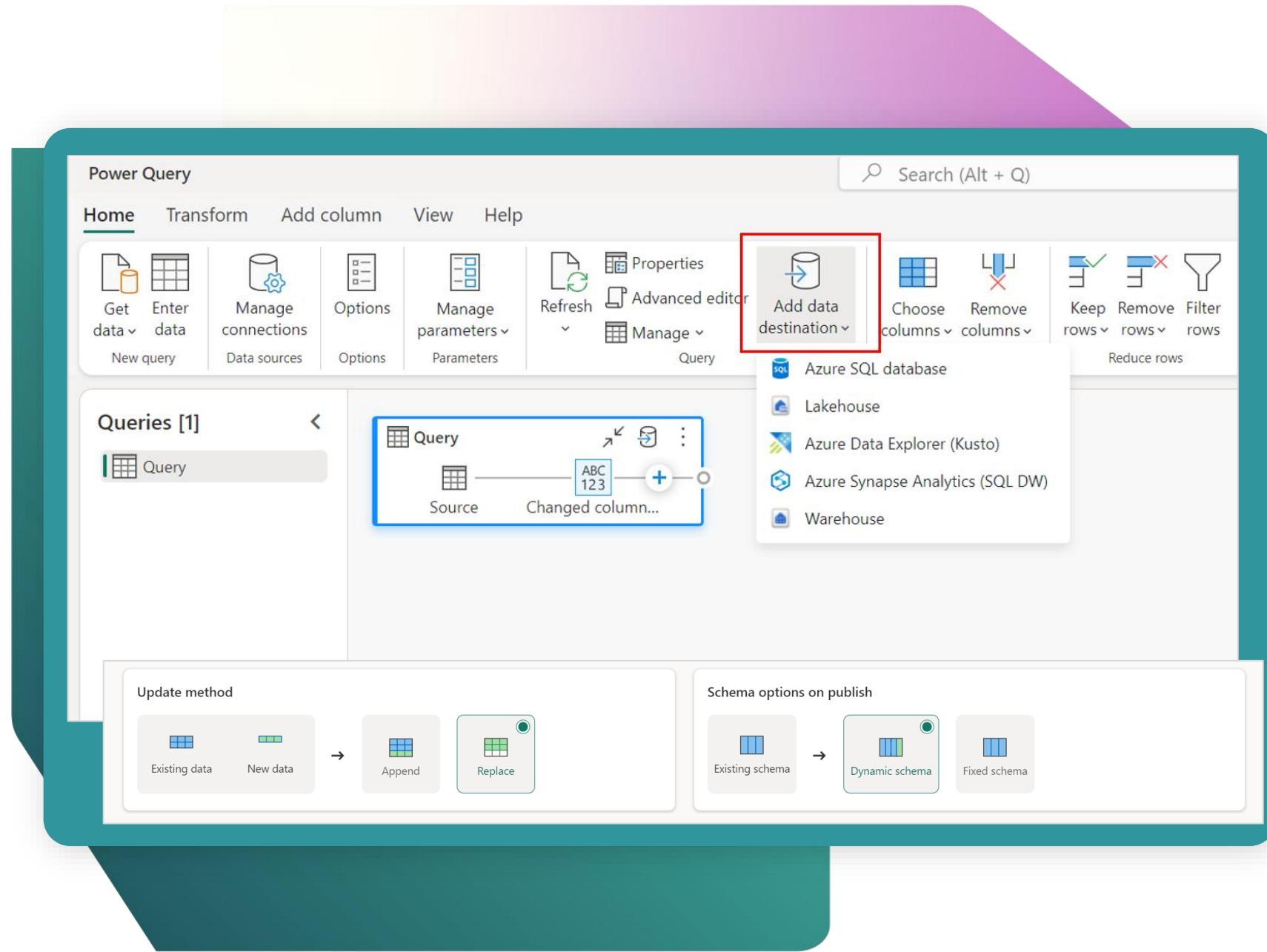
Data destinations

Supported destinations:

- Lakehouse
- Warehouse
- Eventhouse
- Azure SQL database
- Azure Synapse Analytics

Update methods:

- Replace
- Append



Data pipelines

Seamlessly connect and ingest data into Fabric using a **no-code** interface.

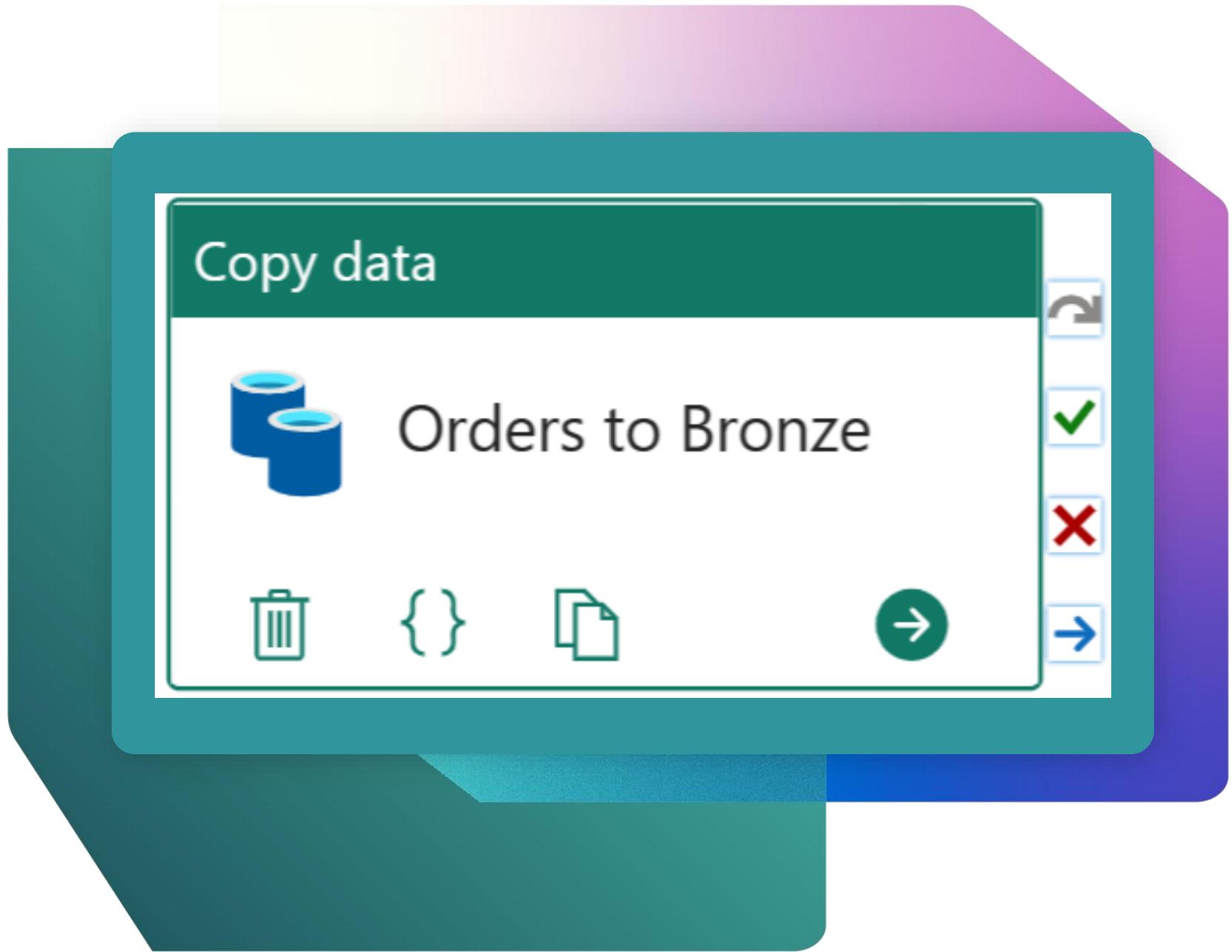
- Evolution of **Azure Data Factory** pipelines
- Rich library of **activities**
- Fast copy of binary files using Az-Copy
- Jumpstart with **Copy Assistant**



Copy activity

The Copy Activity is the **core** of data pipelines

- Jumpstart with **Copy job** or **Copy assistant**
- **Fine grain control** of file type conversion, column mapping, merging/splitting of files, and more..
- Workspace Source and Destinations include Lakehouse (Tables & Files), Warehouse, and KQL Database
- Supports external sources and destinations



Expression builder

Allows you to create and manage dynamic data-driven content

Wide range of functions and operators that can be used to manipulate and transform data

Greater flexibility and reusability, and to perform advanced data transformations without the need for custom code

Add dynamic content [Alt+Shift+D]

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

```
@string(add(mul(int(if(startswith(split(split(pipeline().parameters.interval, ':')[0], '.'), '0'), substring(split(split(pipeline().parameters.interval, ':')[0], '.'), 1)
```

Clear contents

Parameters System variables Functions Variables

Search

Expand all

Collection Functions

Conversion Functions

Date Functions

Logical Functions

Math Functions

String Functions

Conditional paths

Enable you to build **robust pipelines** with error handling and branching logic

There are four types:

- On Skip
- On success
- On fail
- On completion

Set variable

(X) Set variable1



</>



On skip



On success



On fail

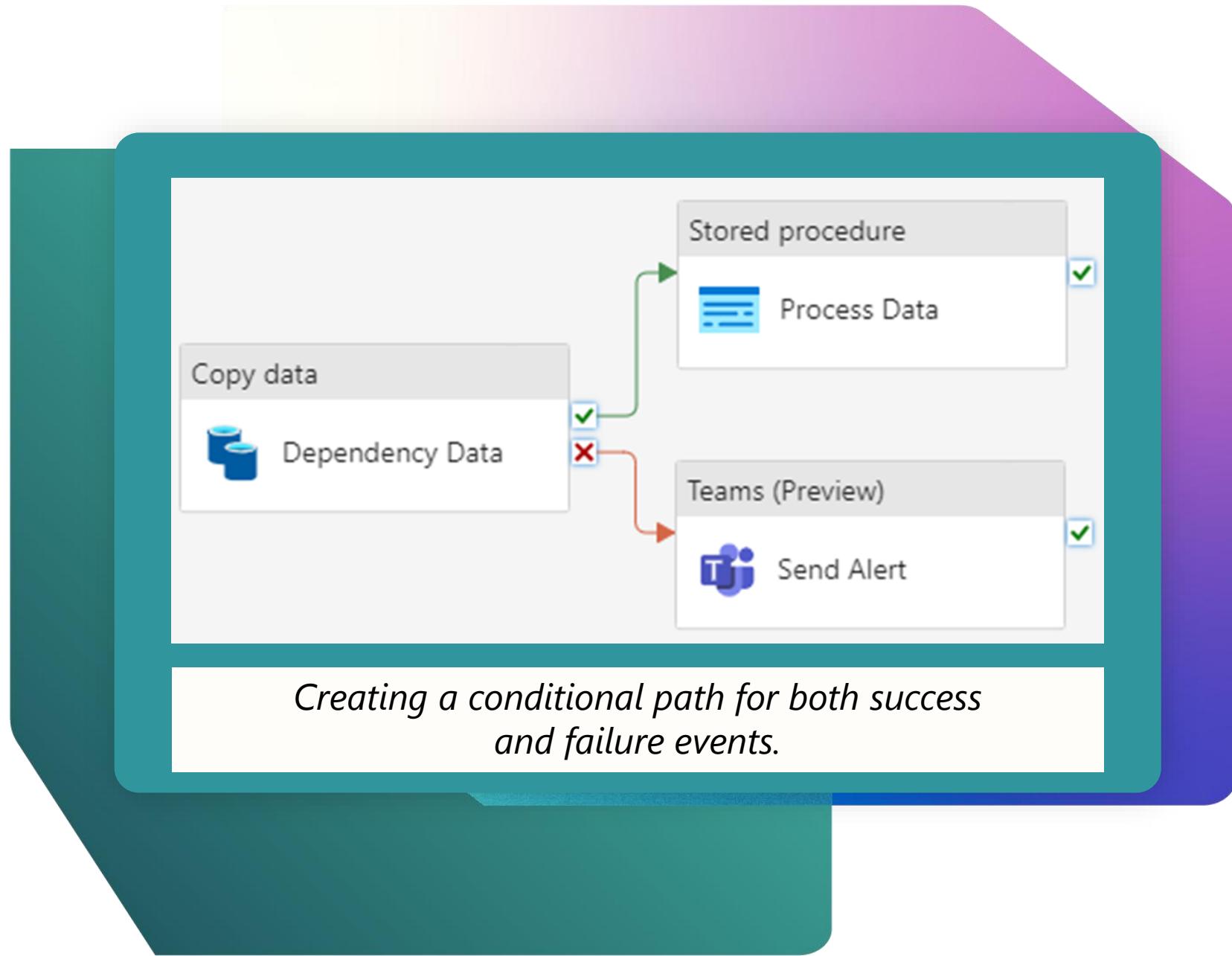


On completion

Conditional paths

Define different execution paths based on the outcome of a previous activity.

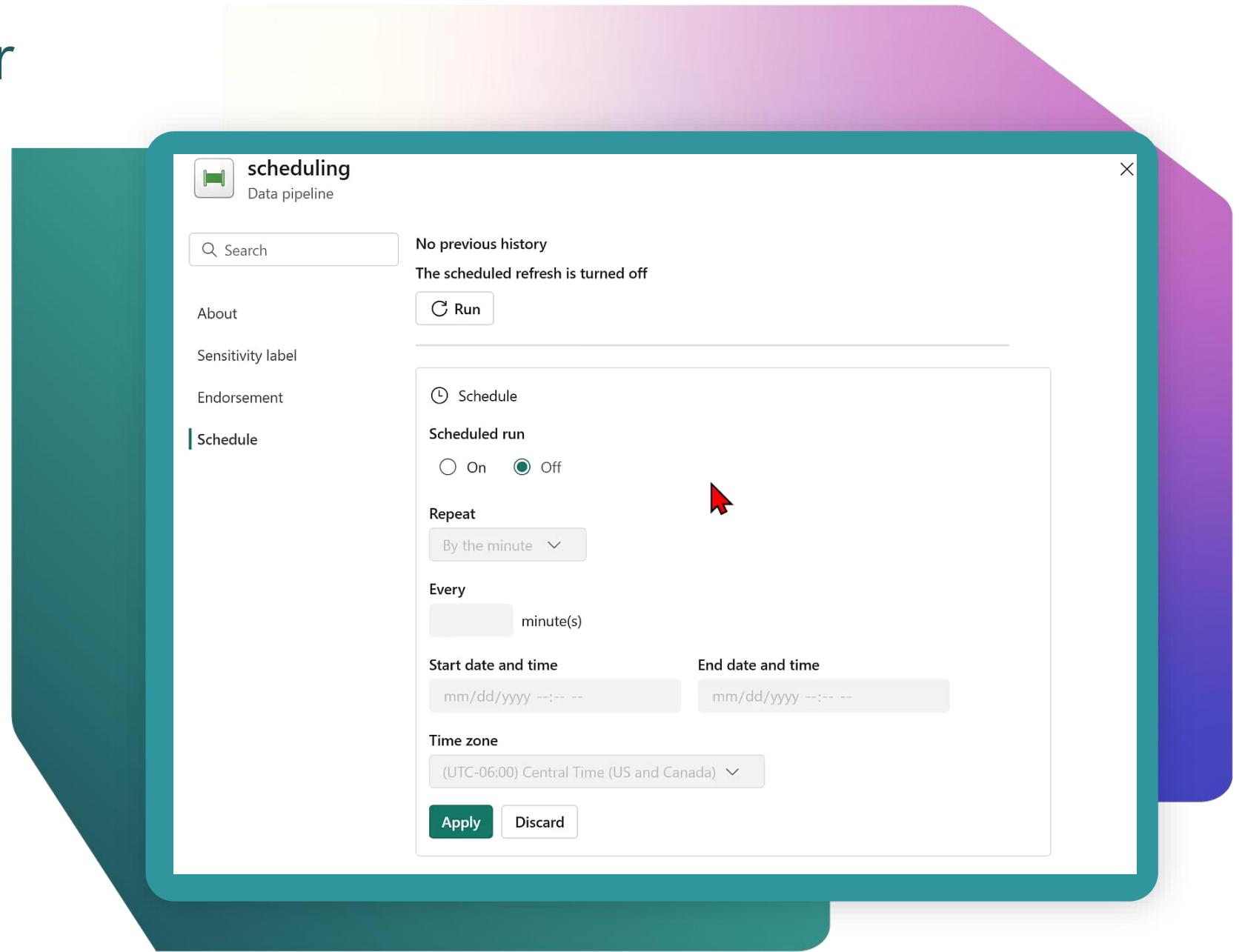
- Blocking dependencies
- Non-blocking dependencies
- Error handling



Platform scheduler

Schedule events at desired intervals

- Deeply integrated with monitoring hub
- Scheduled:
 - By the minute
 - Hourly
 - Daily
 - Weekly
 - *Monthly



DEMO

Creating a...

- Task flow
- Lakehouse
- Data pipeline
- Dataflow Gen2

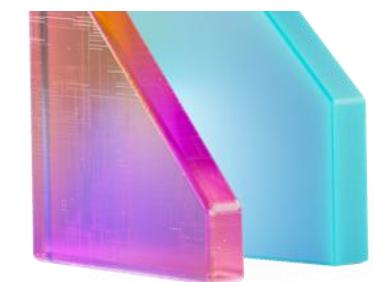




Scenario

Ensure the data is available in real-time, is blazing-fast, and can support various analytics use cases.

To ensure our semantic model aligns with business requirements, we will validate various model requirements, focusing on connectivity mode selection and design decisions.



Analysis Services Engine

Most used, most battle-tested analytics engine

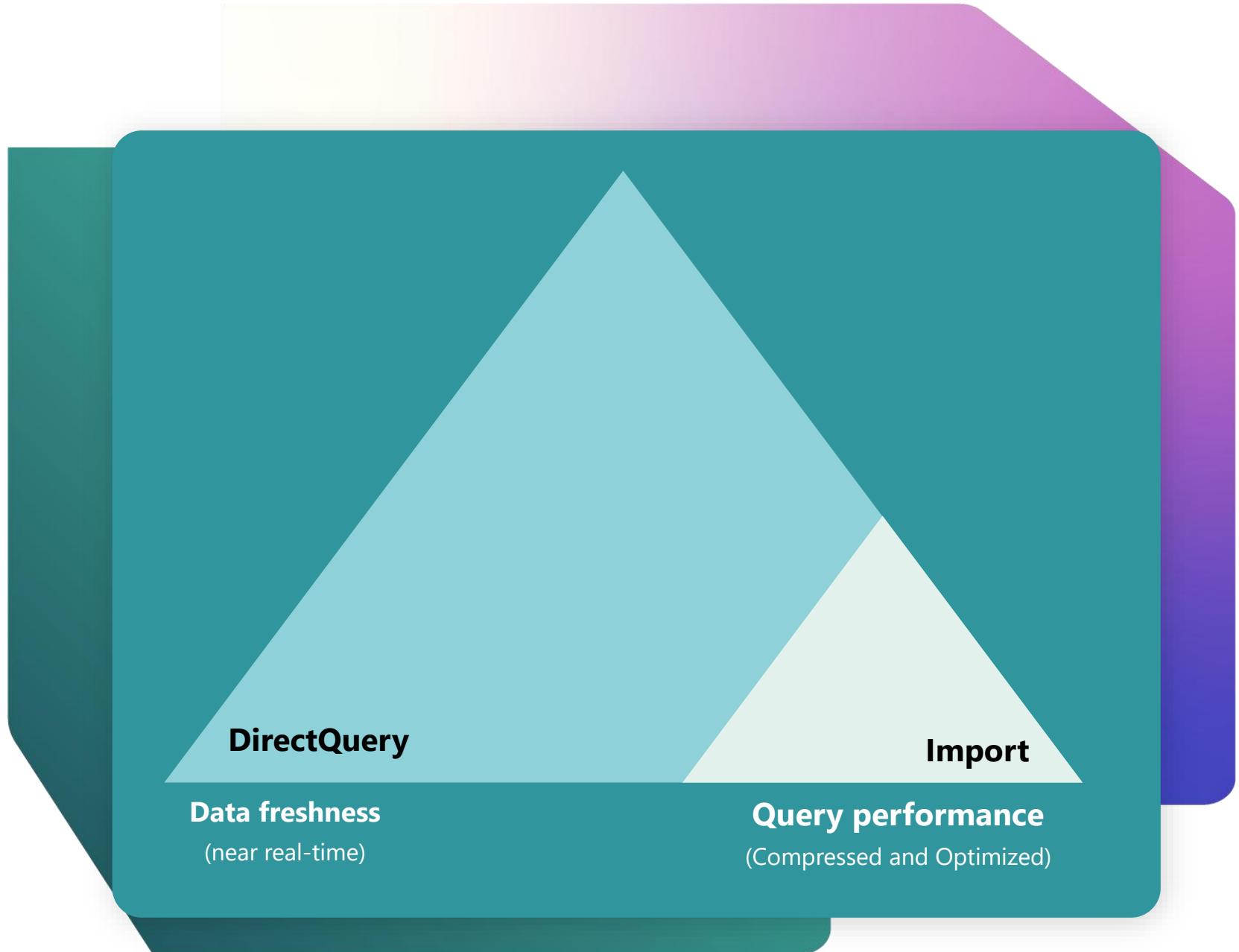
- Enterprise grade analytics **engine** as a service
- Leading query performance over massive data volumes
- Rich semantic modeling
- Interactive Exploration over even **TRILLIONS** of rows of data, by intelligent proactive caching of aggregates



Storage modes

Import: Caches data into memory for extremely fast performance using the analysis services database engine. It is the default mode for new Power BI Desktop solutions and offers the most design flexibility.

DirectQuery: Does not import data into memory. Instead, it uses native queries to retrieve data from the underlying data source when the model is queried.

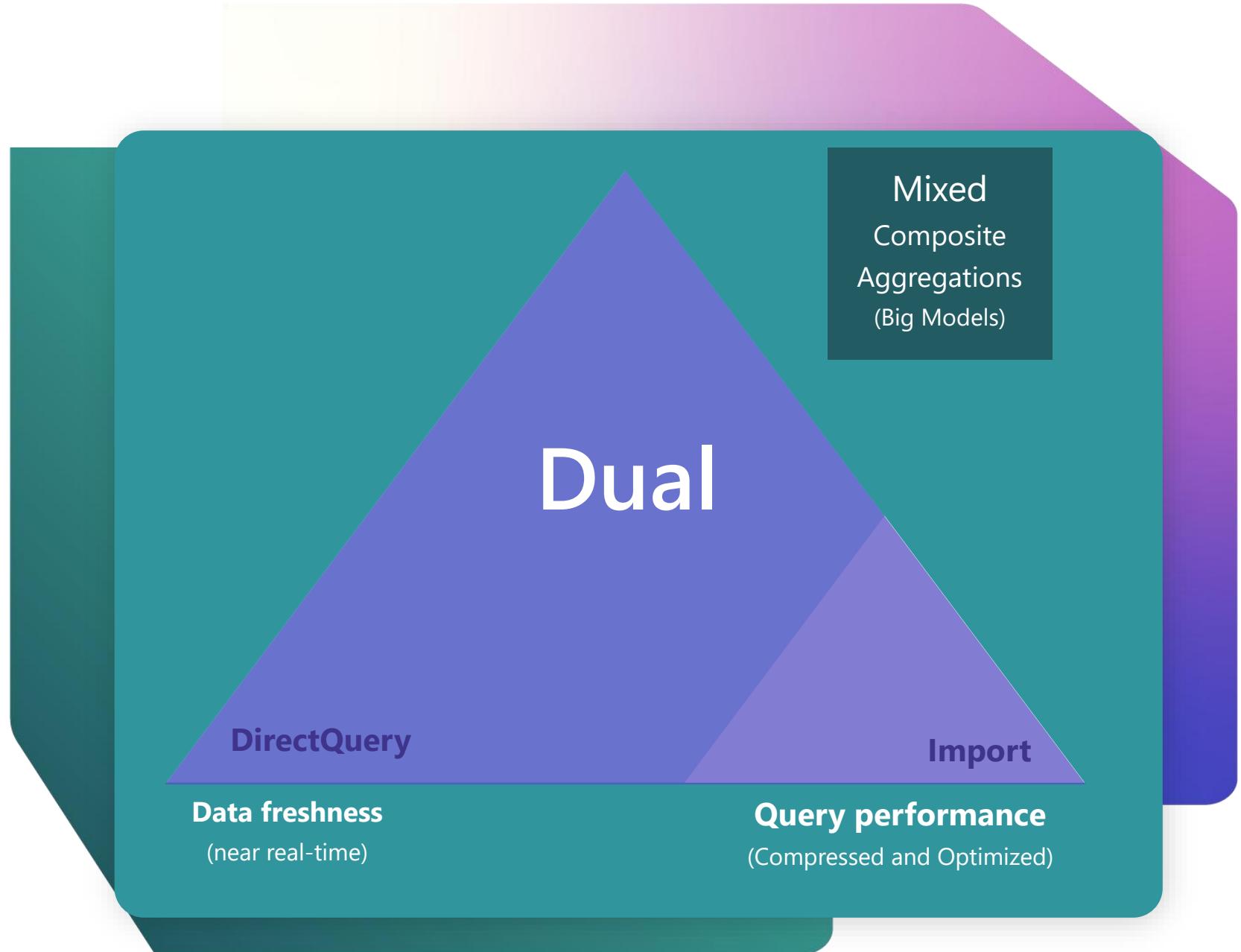


Storage modes

Import: Caches data into memory for extremely fast performance using the analysis services database engine. It is the default mode for new Power BI Desktop solutions and offers the most design flexibility.

DirectQuery: Does not import data into memory. Instead, it uses native queries to retrieve data from the underlying data source when the model is queried.

Dual: Can act as either cached or not cached, depending on the query context. It fulfills queries from cached data or by executing on-demand queries to the underlying data source.



Direct Lake storage mode

Direct Lake: Analyzes large data volumes by loading Delta Tables directly from the lakehouse.

- It offers performance similar to import mode.
- Eliminates the need to refresh and import data into semantic models.

DirectQuery (fallback):

Automatically switches modes based on current limitations or factors such as available memory in the capacity.

- This property can also be disabled.



Direct
Lake

Data freshness & Query performance



the

FLATFILE

which is better?...



the
vs.

STAR

Normalized data (flat)

Advantages:

- Single table to manage
- Limited maintenance

Disadvantages:

- Slow refresh times
- Lack of organization
- Potentially complicated DAX formulas
- Challenges with implementing Time Intelligence formulas

Relational modeling

Advantages:

- Filtering
- Aggregating
- Simpler DAX

Disadvantages:

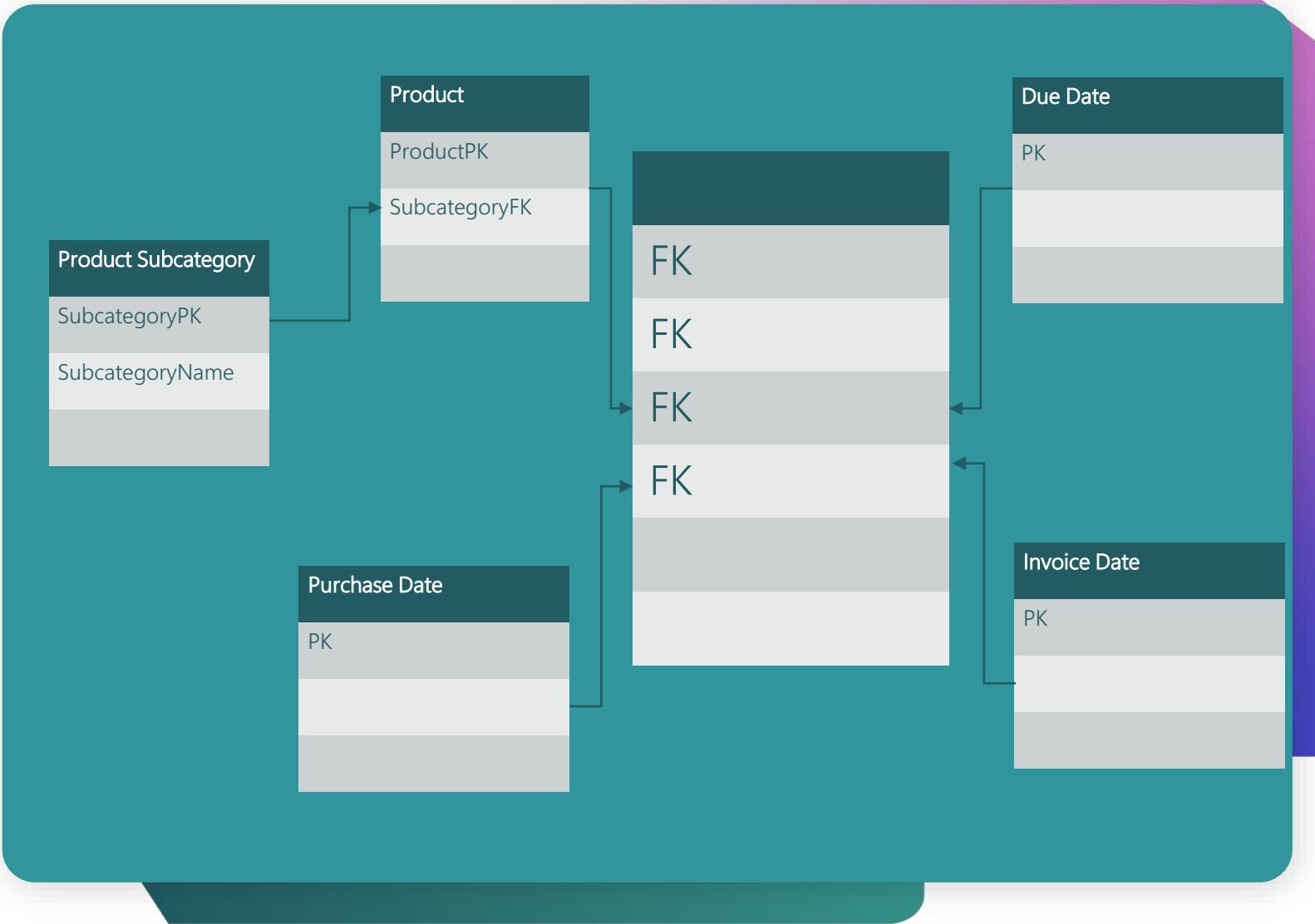
- Only one column for joins
- Can be costly
- Be careful with...
 - Many-to-many
 - Bi-directional



Snowflake schemas

Design decisions:

- More Tables
- Relationship size
- Possibly more complex DAX
- Possible query performance



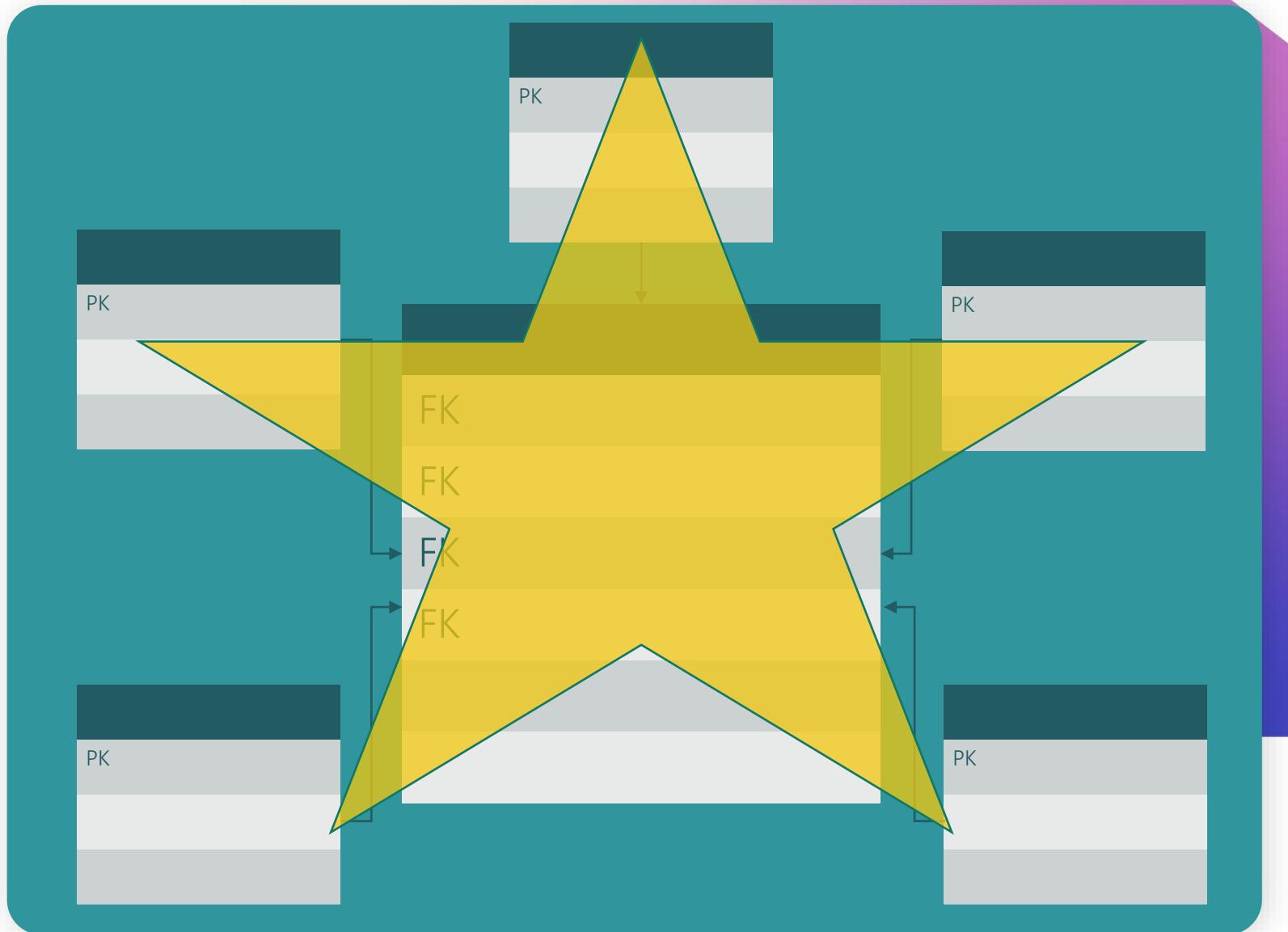
Denormalized data (star schema)

Advantages:

- Simple DAX (possibly)
- Organized
- Faster Refresh
- Consistency

Disadvantages:

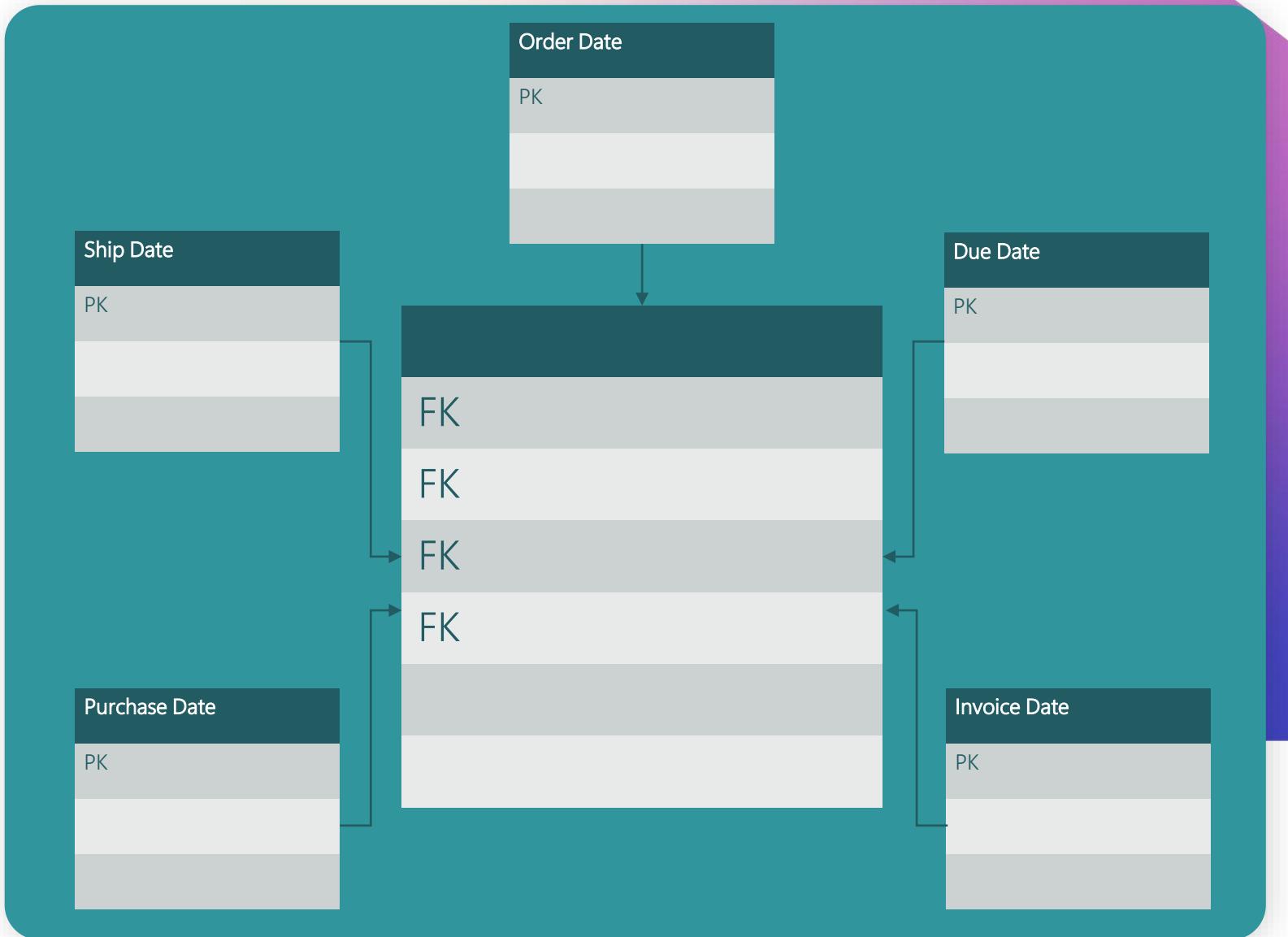
- Subject Matter Expertise
- Maintenance costs
- Unaccounted for costs



Role playing dimensions

Design decisions:

- Multiple tables
- Single-table
- USERELATIONSHIP()



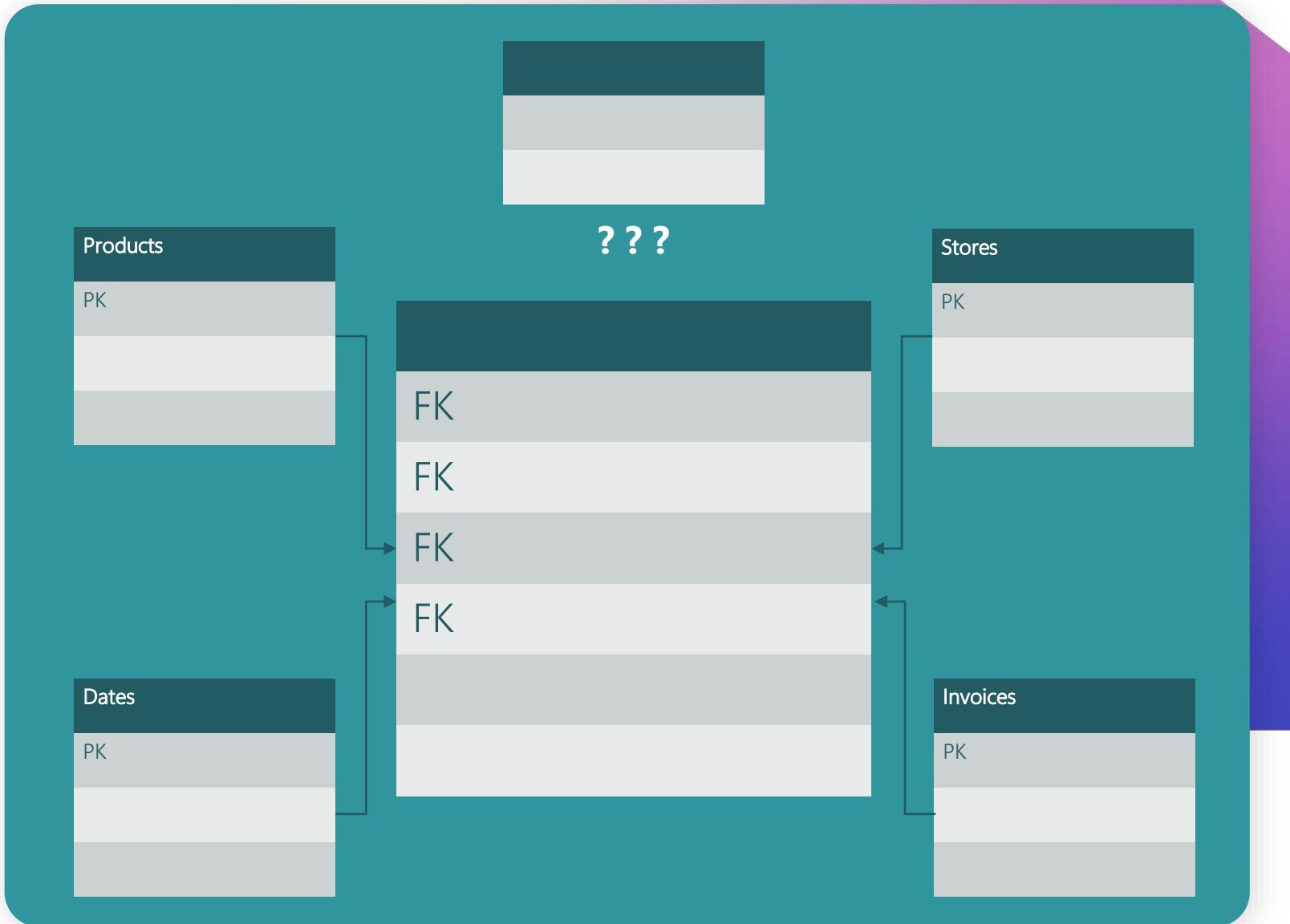
One semantic model...

Advantages:

- Endorsement
 - Promotion
 - Certification
- Consistency
- Extensible

Disadvantages:

- Maintenance
- Complication
- Discipline
- Scalability

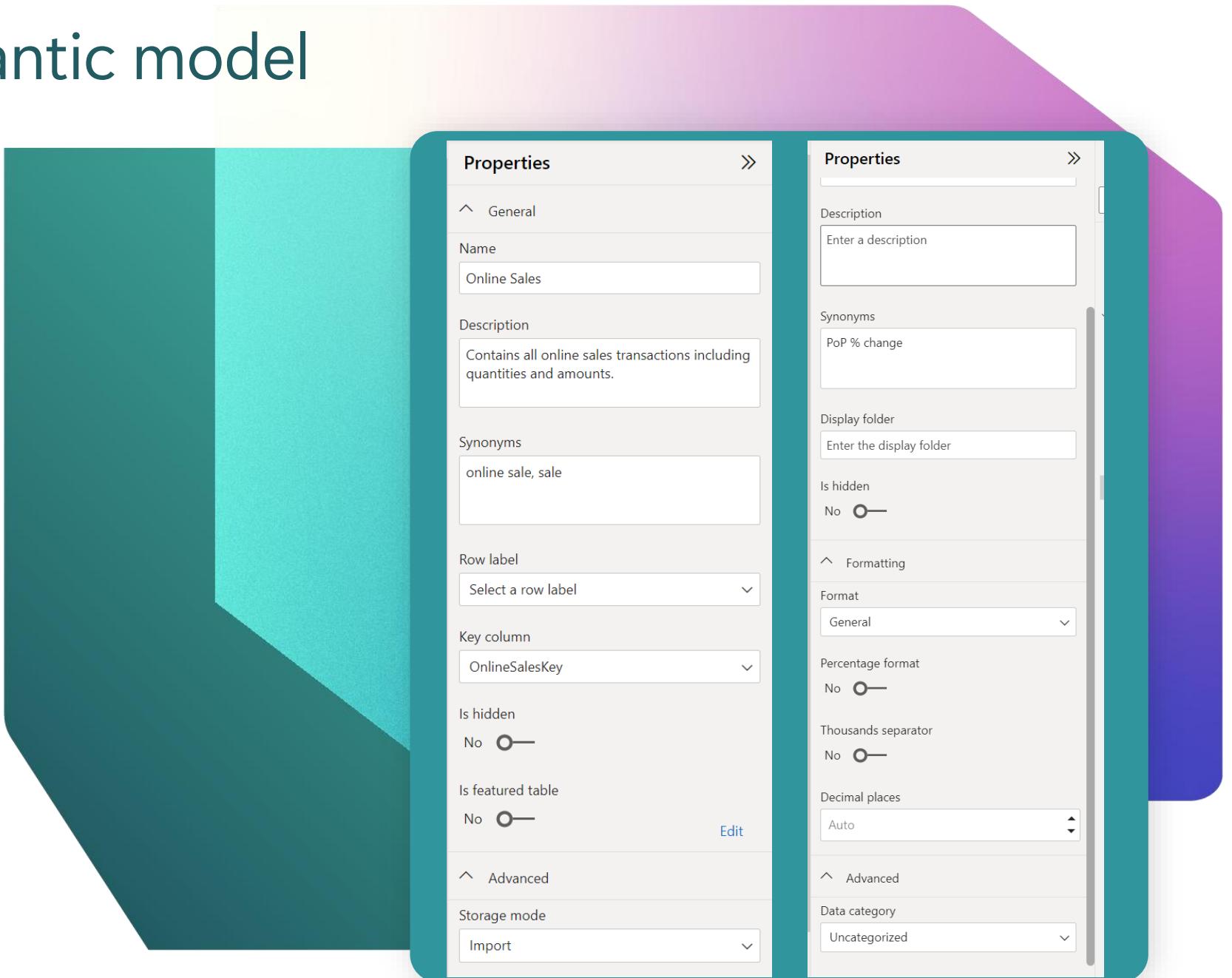


Enriching the semantic model

In the Data Modeling view, semantic model developers can enrich their Tabular Object Model (**TOM**) with additional rich metadata from the Properties pane.

This includes:

- Descriptions
- Row labels
- Key columns
- Formatting
- Data categories
- and more...

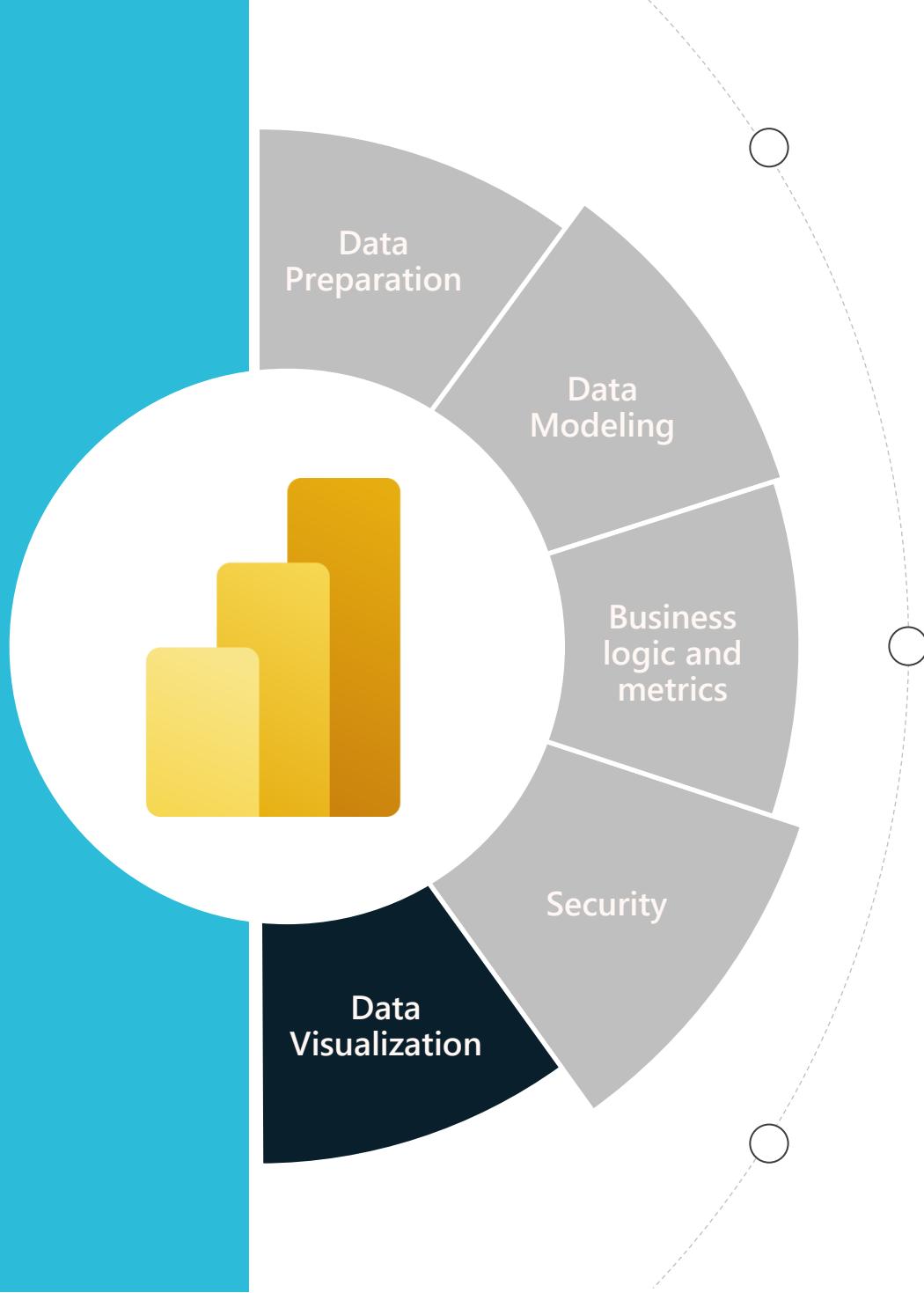


DEMO

Creating a...

- Semantic model
(Direct Lake mode)





Scenario

Ensure the report is functional, fast, and capable of uncovering new insights with the click of a button for new users.

By connecting to a shared semantic model and leveraging design best practices, we will create aesthetically pleasing and high-performing report experiences.



Design effective reports

"A data model is only as good as the front-end report. A good model can be rendered useless by a bad report design, while a bad model can often be overcome with a high-quality report design."

We highly encourage you to go through this learn course.

It's **Free!**

The screenshot shows a learning path card with a teal border. At the top right is a circular badge with '5300 XP'. Below it is the title 'Design effective reports in Power BI' in bold black font, followed by '3 hr 52 min • Learning Path • 6 Modules'. Underneath are four tags: 'Intermediate', 'Data Analyst', 'Business Analyst', and 'Power BI'. Below these is a video thumbnail showing a man with a beard speaking into a microphone. To the right of the thumbnail is a descriptive text block: 'This learning path introduces a design process to design and deliver compelling Power BI reports. It begins by describing a proven design process created by leading report design experts. The process encompasses phases to understand the report users and their requirements, explore pleasing report designs, and develop reports all the way into production.' Below the text are sections for 'Prerequisites' (None) and two buttons: 'Start >' and '+ Save'.

[Learn | Design effective reports in Power BI](#)

Report Types

Executive

Description: Provides very quick access to most important metrics, leaving little room for misinterpretation.

Analytical

Description: Supports the strategic functions of senior management. Often a balance between simplicity and utility through key performance indicators and business measures displayed in a Dashboard or Scorecard report style. Often built to add depth to an executive report

Operational

Description: Supports an organization's day-to-day functions. Often a highly-formatted and consistent output displayed in a Tabular or List report style.

Ad hoc

Description: Supports the flexibility of a one-time report, created in real-time for a particular purpose or business necessity. Often summarized in a PivotTable report style.



A collection of translucent, multi-colored geometric shapes (cubes, spheres, and cylinders) in shades of blue, green, yellow, and pink, arranged in a dynamic, overlapping composition against a white background.

What does a
*good report
look like?

We know it when we see it...

Sales Territory Name		Berlin			Cambridge			Dusseldorf		
Calendar Year	Total Quantity	Total Sales	Distinct Customers	Total Quantity	Total Sales	Distinct Customers	Total Quantity	Total Sales	Distinct Customers	Total
2014	711	\$113,949.6826	378	3	\$511.3605	1	2	\$399.984	1	1
January	42	\$7,438.356	68							
February	49	\$5,306.837	150							
March	63	\$9,128.624	194							
April	95	\$14,973.0986	313	2	\$325.407	2	1	\$199.992	1	1
May	76	\$11,996.202	408	1	\$185.9535	3	1	\$199.992	1	1
June	63	\$11,077.705	463			3				
July	91	\$15,404.845	513			4				
August	48	\$6,907.6425	512			4			1	1
September	22	\$4,662.0475	490			4			1	1
October	88	\$13,230.3875	432			1				
November	31	\$6,996.25	373			1				
December	43	\$6,827.6875	378			1				
2015	653	\$105,848.6646	367	6	\$862.774	4			1	
January	57	\$8,235.2625	370							
February	41	\$6,414.9715	358	2	\$325.407	2				
March	61	\$11,425.9515	397			2				
April	68	\$10,689.5925	402			2				
May	47	\$6,997.4397	428			2				
June	36	\$6,497.7525	425			2				
July	61	\$8,872.836	395			2				
August	54	\$7,126.87	402							
September	41	\$8,657.625	355							
October	46	\$7,346.9817	328							
November	58	\$8,984.923	315	1	\$119.96	1				
December	60	\$14,598.4587	367	3	\$417.407	4				
Total	3,639	\$547,831.6346	100	36	\$4,760.261	4	\$662.658			

Calendar Year

- 2014
- 2015
- 2016
- 2017
- 2018
- 2019

Brand Name

- A. Datum
- Adventure Works
- Contoso
- Fabrikam
- Litware
- Northwind Traders
- OrcaWorld

Continent Name

- Asia
- Europe
- North America

\$5.08bn
Total Sales

17K
Distinct Customers

Sales Territory Name

Calendar Year	Total Quantity	Total Sales	Distinct Customers	Berlin	Cambridge	Dusseldorf
2014	711	\$113,949.6826	378	3	\$511.3605	1
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Total	3,639	\$547,831.6346	100	36	\$4,760.261	4

Sales Amount, Sales Quantity and Distinct Opportunities by Year

Sales YoY%, Distinct Customers, Adjusted Sales Amount, Total Sales, Total Sales SPLY, Total Q...

We know it when we see it...

Contoso

SALES

Sales Overview

Revenue won **\$11.43M**

Qualified Pipeline **\$19.90M**

Revenue goal **\$23M**

Forecast **136%**

Revenue Open by Sales Stage

Stage	Revenue
1-Qualify	\$7,912.02K
2-Develop	\$8,170.42K
3-Propose	\$7,264.68K
4-Close	\$4,465.27K

56.4%

Revenue Won and Revenue In Pipeline by Product LOB

● Revenue Won ● Revenue In Pipeline

Product Category	Revenue Won	Revenue In Pipeline
Accessories	\$4,485.19K	\$7,035.43K
Devices	\$3,672.98K	\$6,605.71K
Warranties	\$3,271.66K	\$6,259.22K

WHAT IF the qualified forecast was adjusted by 0 % ?

-80 -70 -60 -50 -40 -30 -20 -10 0 10 20

By Team + User By Product

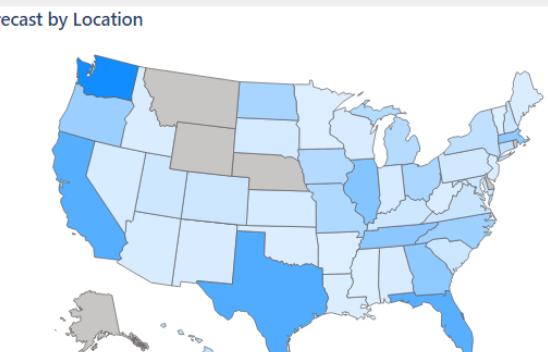
Product Category Revenue Won Qualified P... Forecast %

Product Category	Revenue Won	Qualified P...	Forecast %
Accessories	\$4,485.19K	\$7,035.43K	128%
Black cover 7"	\$1,512.09K	\$2,259.50K	126%
E-reader pen	\$1,509.29K	\$2,717.23K	141%
Black cover 6"	\$1,463.81K	\$2,058.70K	117%
Devices	\$3,672.98K	\$6,605.71K	128%
E-reader Plat...	\$1,853.66K	\$3,455.63K	133%
E-reader Dia...	\$971.02K	\$1,562.41K	127%
E-reader Plat...	\$554.24K	\$931.40K	149%
E-reader Dia...	\$156.58K	\$361.14K	129%
E-reader Stan...	\$137.48K	\$295.13K	144%
Warranties	\$3,271.66K	\$6,259.22K	136%
1 Year Warranty	\$3,271.66K	\$6,259.22K	136%
Total	\$11,429.83K	\$19,900.36K	136%

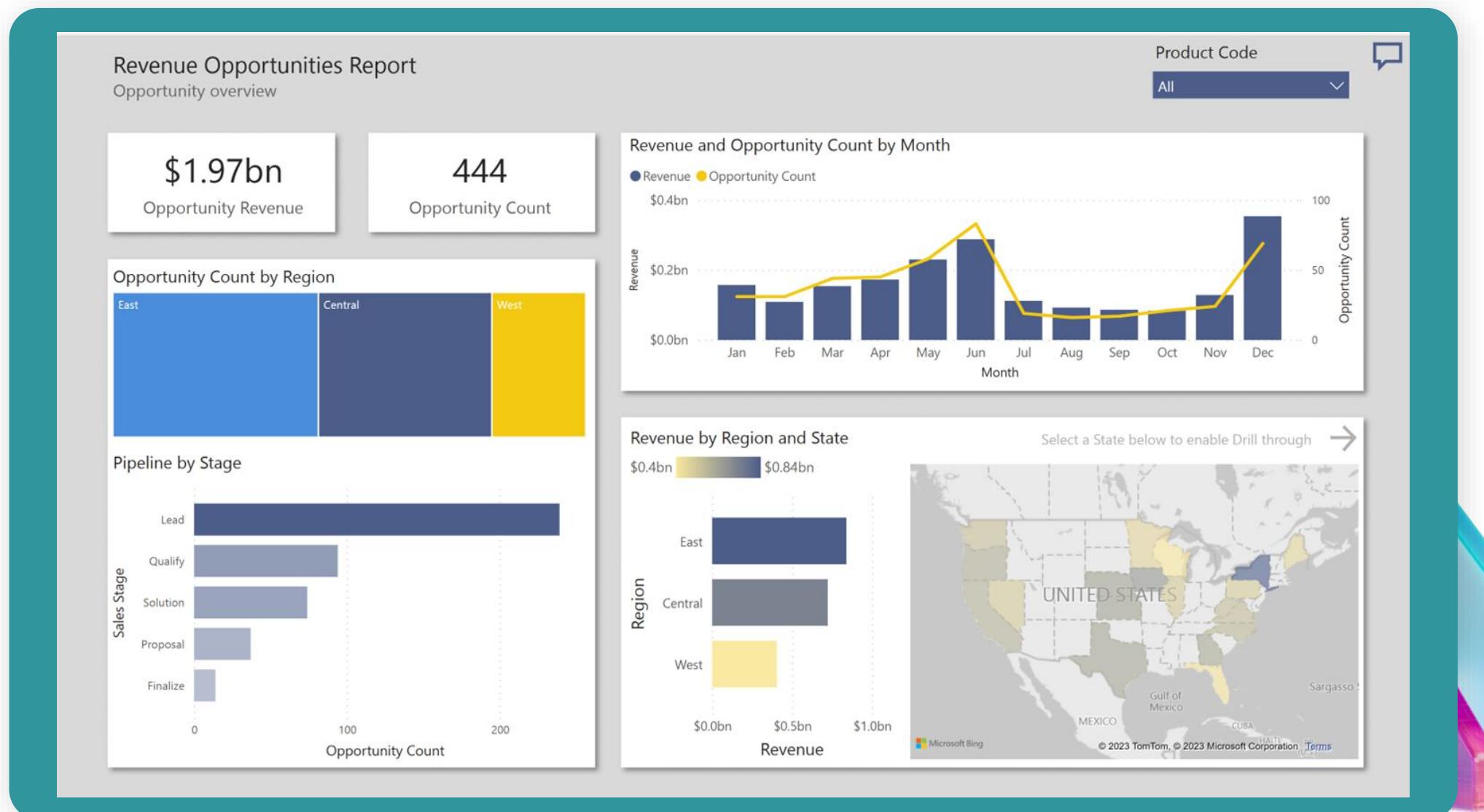
Forecast by Territory

Territory	Revenue Won	In Pipeline	Forecast %
US-SOUTH	\$4,520,554.00	\$7,269.60K	131%
US-WEST	\$3,041,107.00	\$6,061.89K	130%
US-MIDWEST	\$2,686,629.00	\$4,367.79K	141%
US-NORTHEAST	\$1,181,536.00	\$2,201.09K	113%
Total	\$11,429,826.00	\$19,900.36K	136%

Forecast by Location

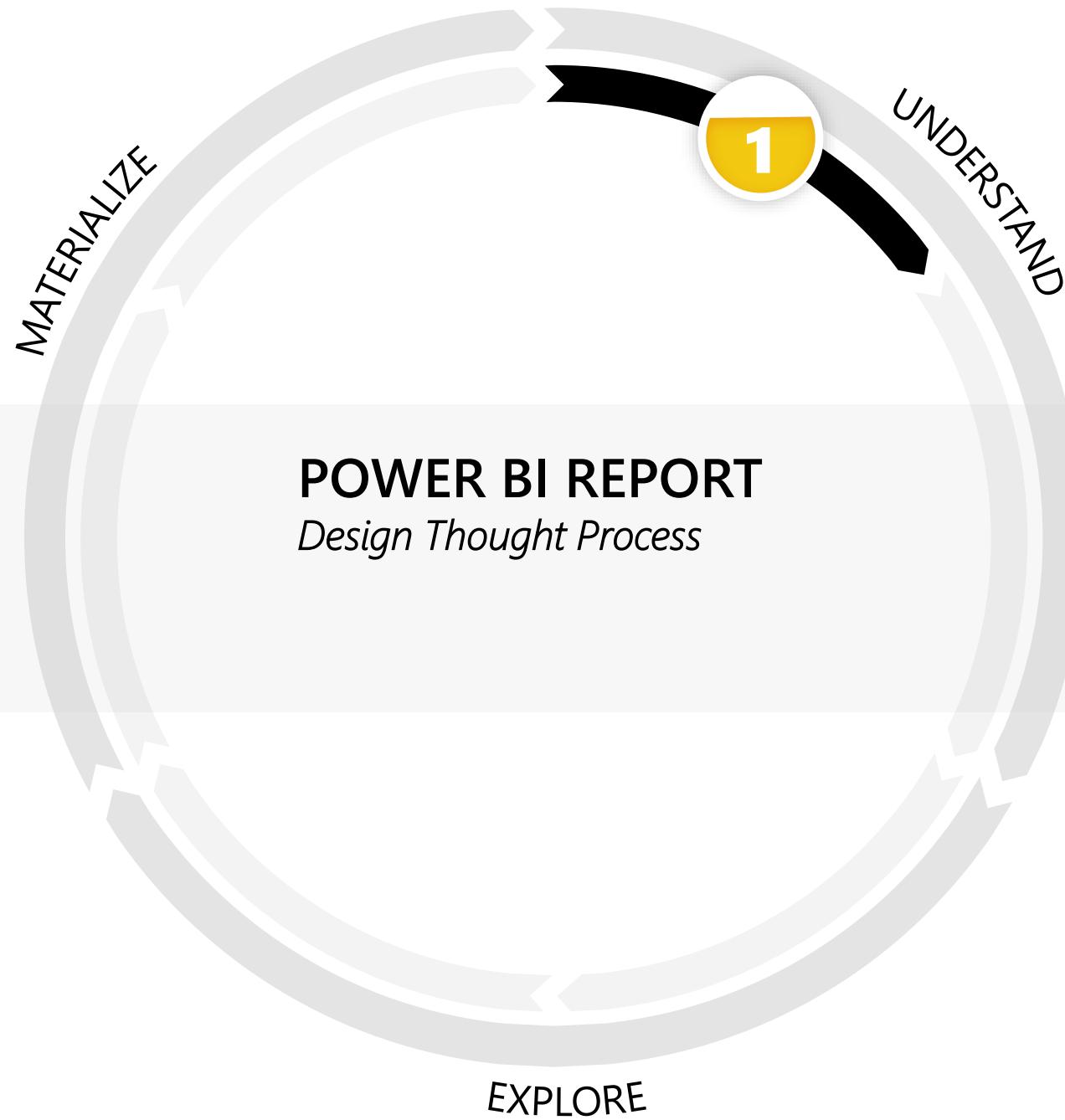


We know it when we see it...

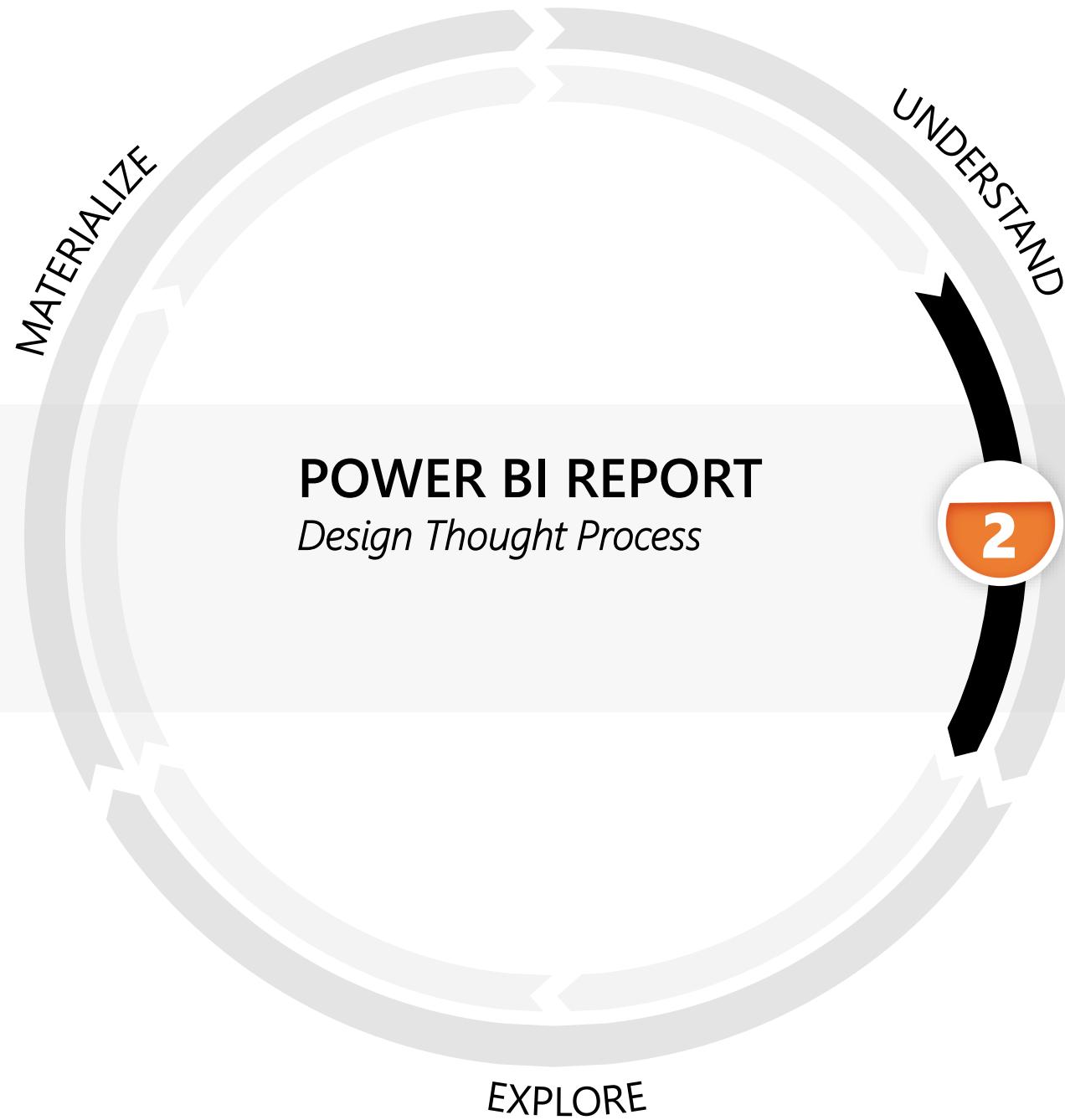


A collection of translucent, multi-colored geometric shapes (cubes, spheres, and cylinders) in shades of blue, green, yellow, and pink, arranged in a dynamic, overlapping composition against a white background.

Process,
tools, and
testing



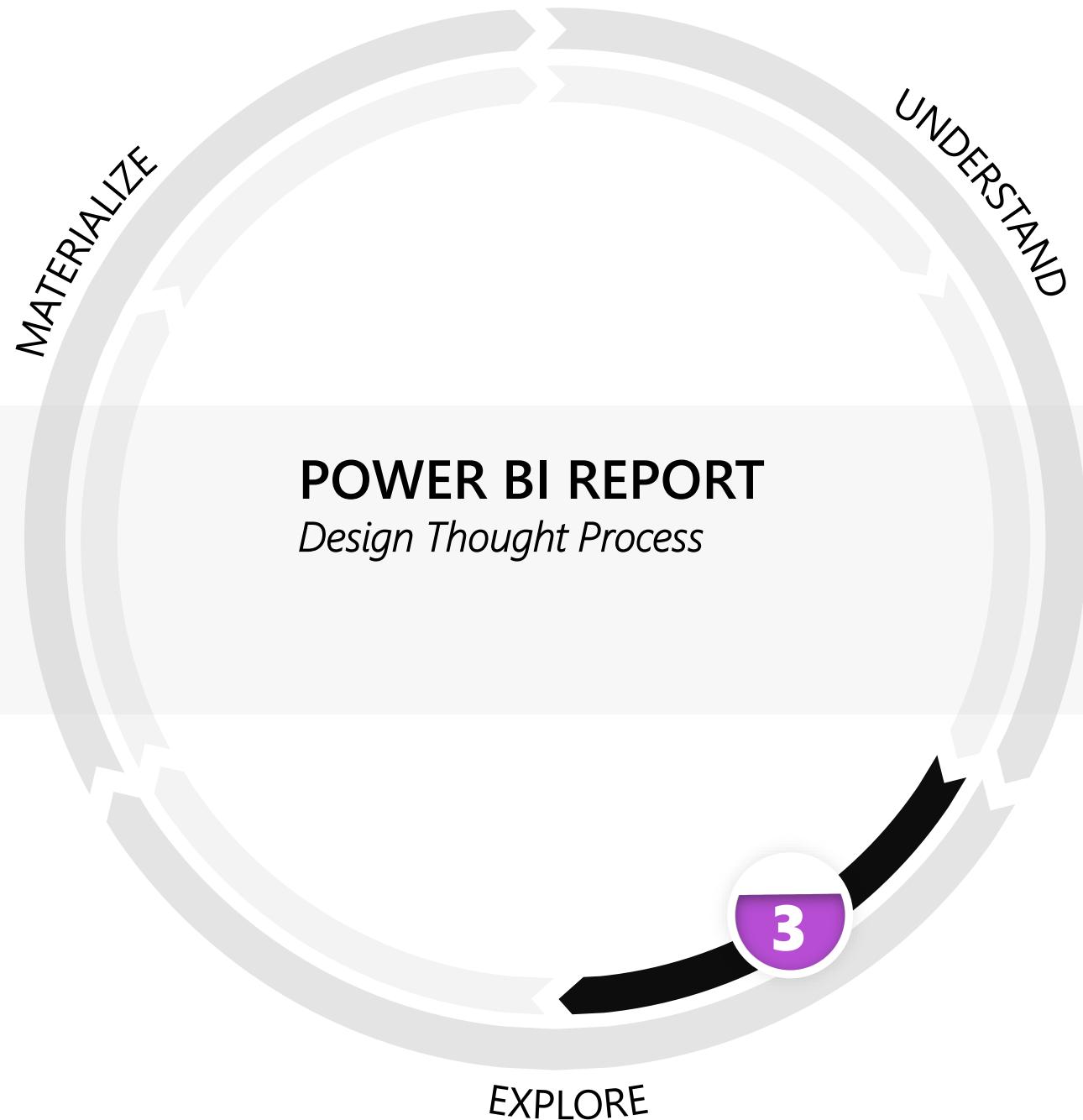
EMPATHIZE
WITH YOUR AUDIENCE
Conduct research to develop an understanding of your users



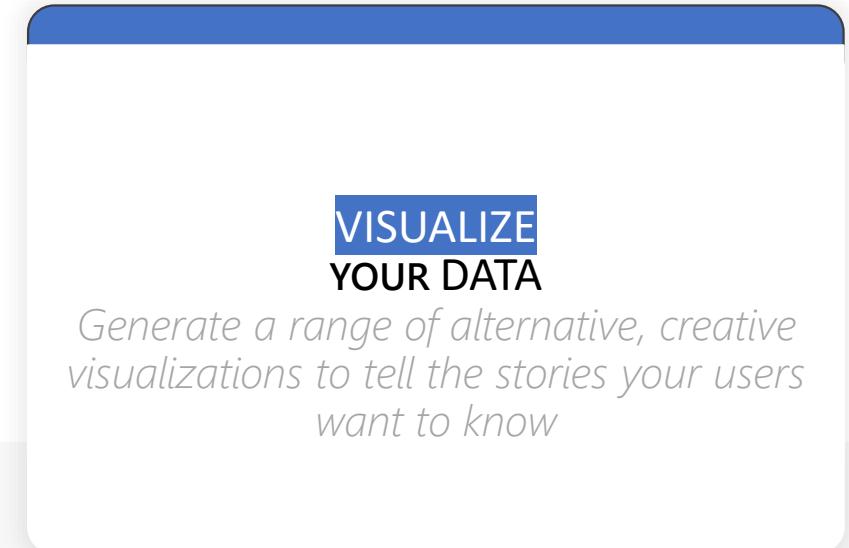
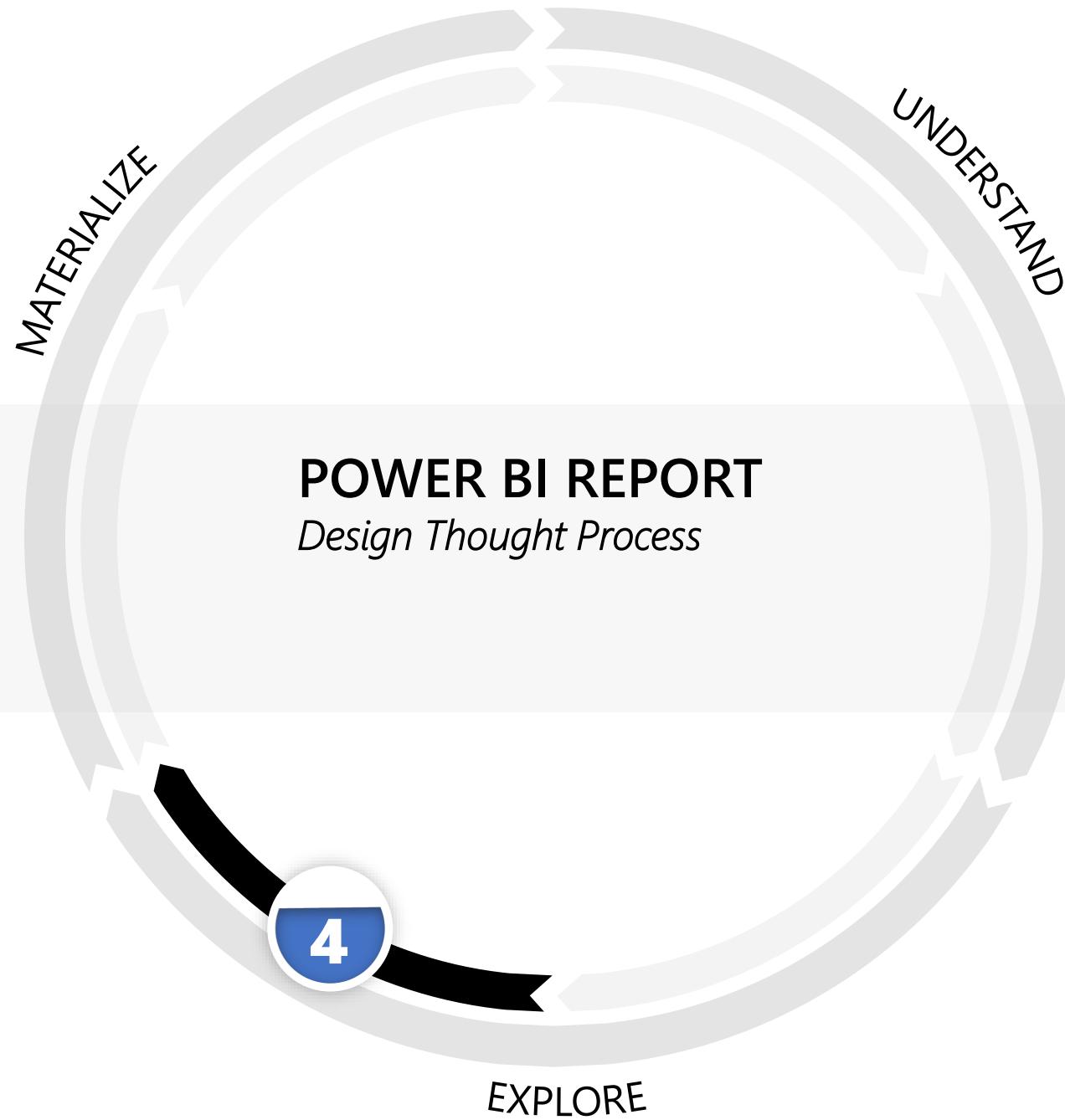
DEFINE

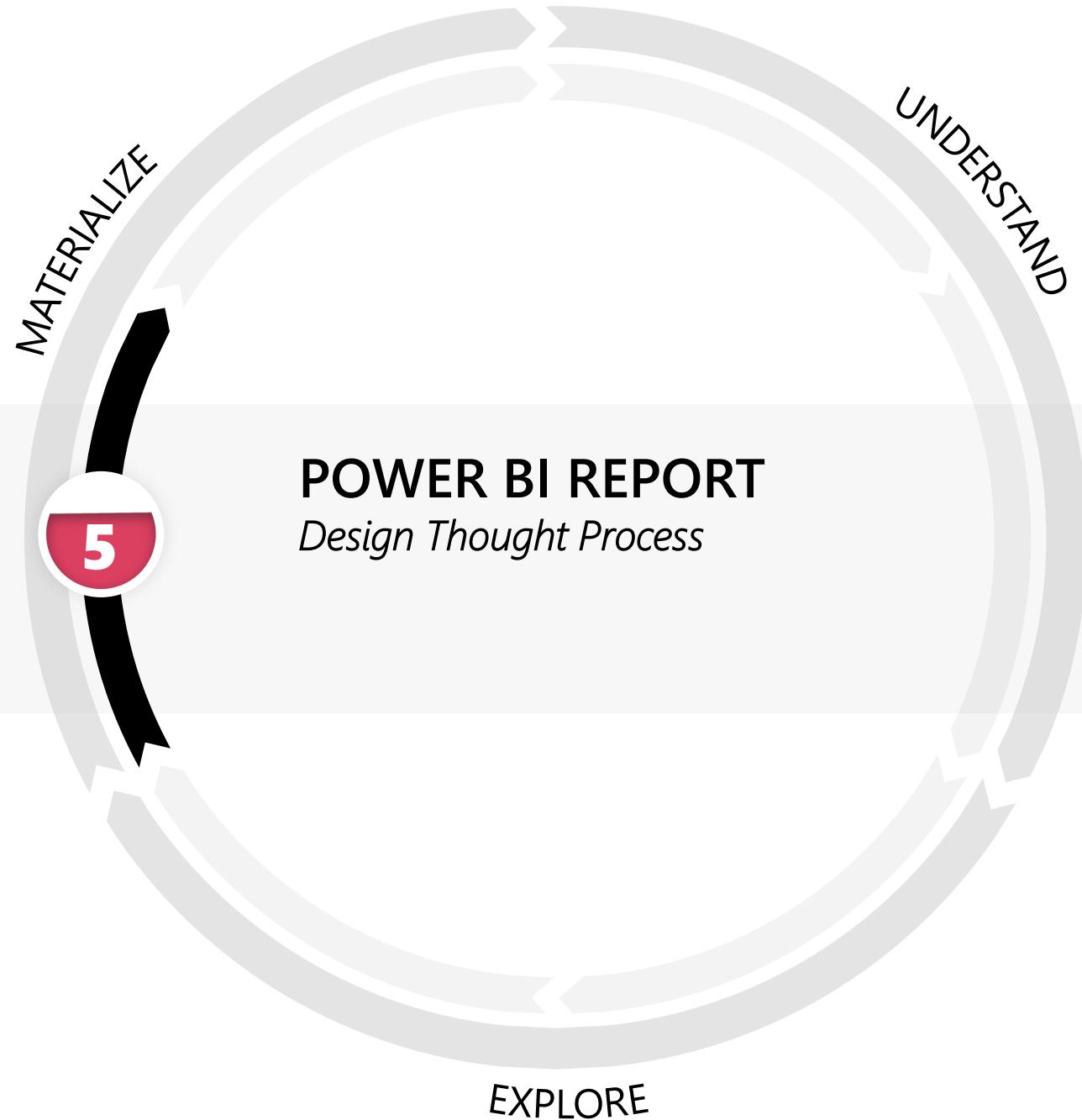
THE PLATFORM & ENVIRONMENT

Combine all research and observe where your users' problems & needs will exist

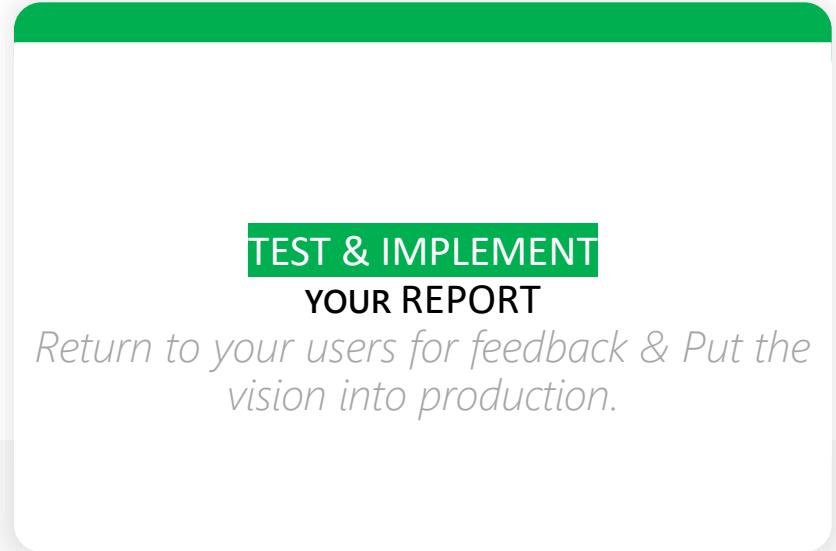
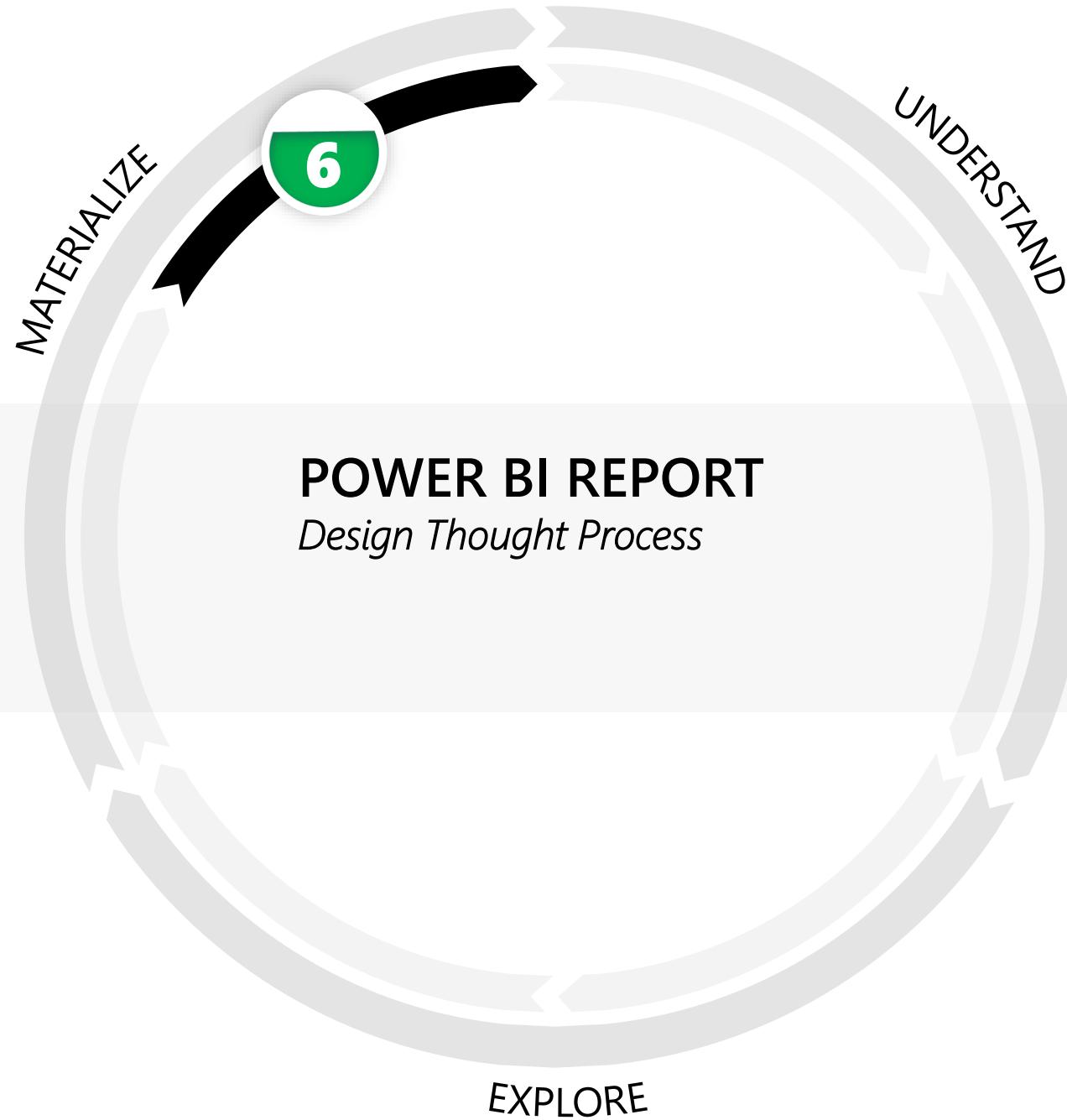


**ENCOMPASS
THE USER EXPERIENCE**
Create easy, efficient, relevant, and all-around pleasant experiences for the user.





DESIGN
THE USER INTERFACE
Build real, tactile representations for a range of your ideas



Effective design elements for practical application

USER EXPERIENCE



Navigation



Depth



Context

VISUALS



Visual selection



Formatting options



Conditional format



Dynamic

USER INTERFACE



Margins



Distribution



Alignment



Branding



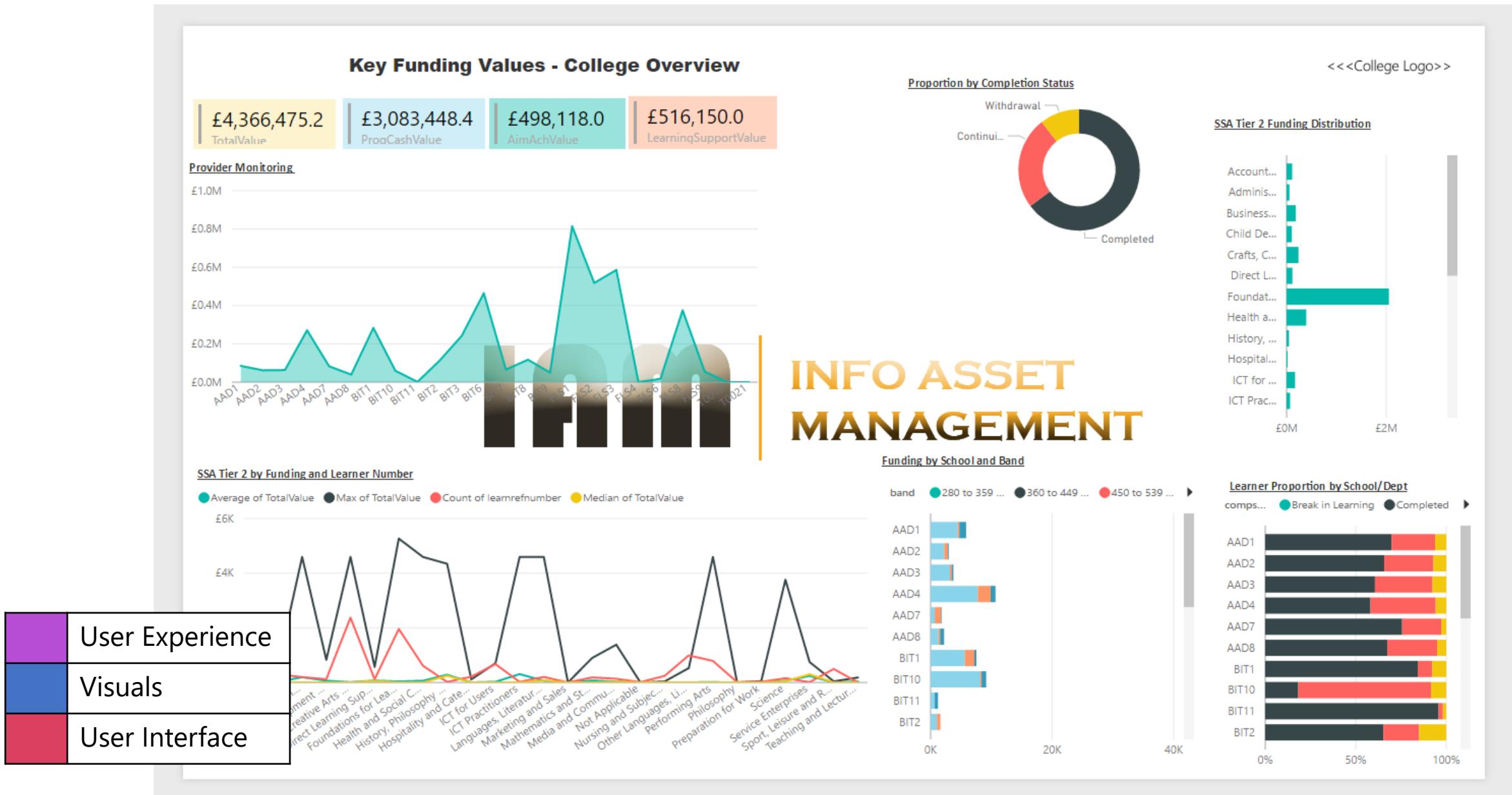
Color



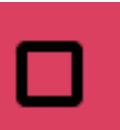
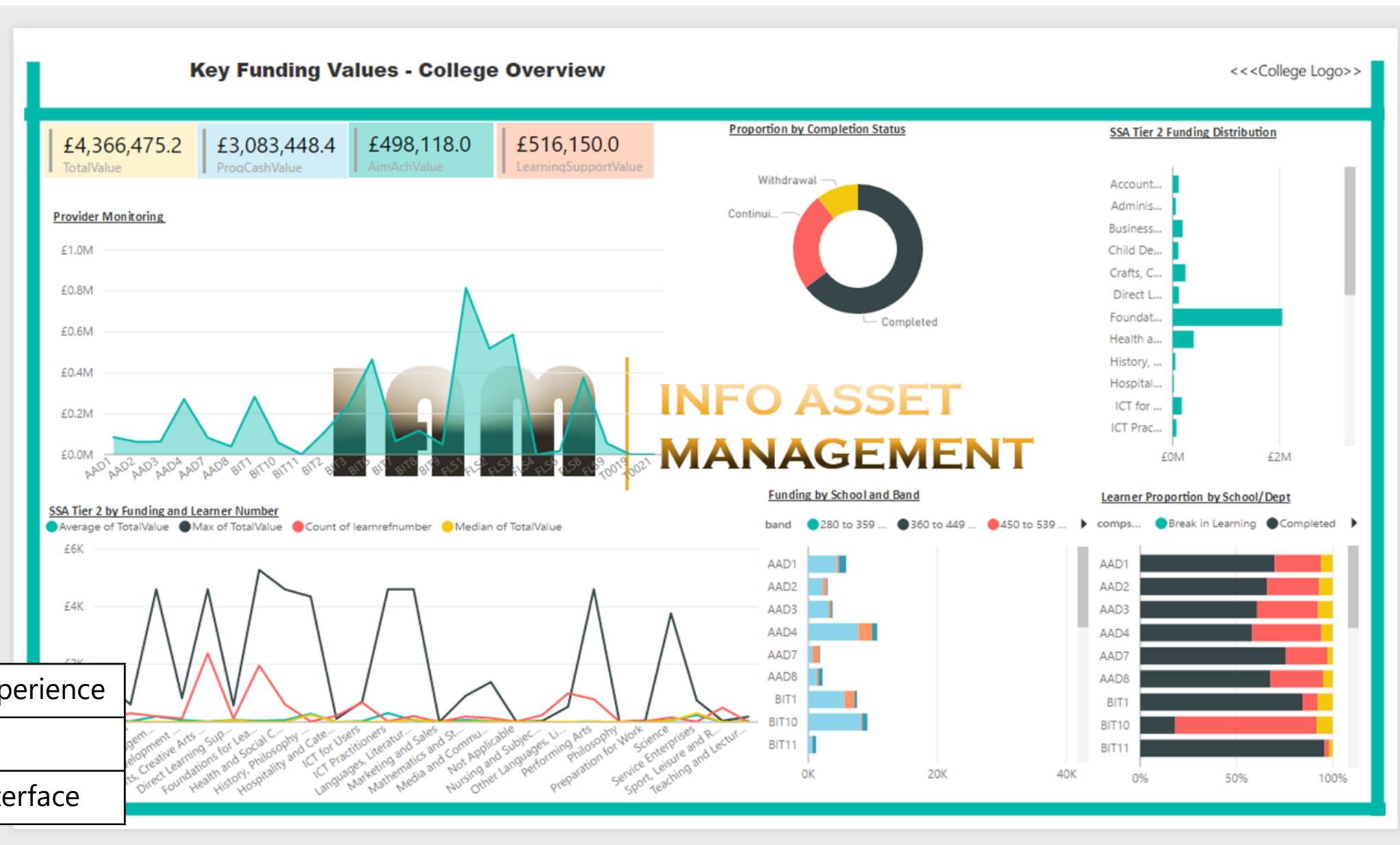
Background



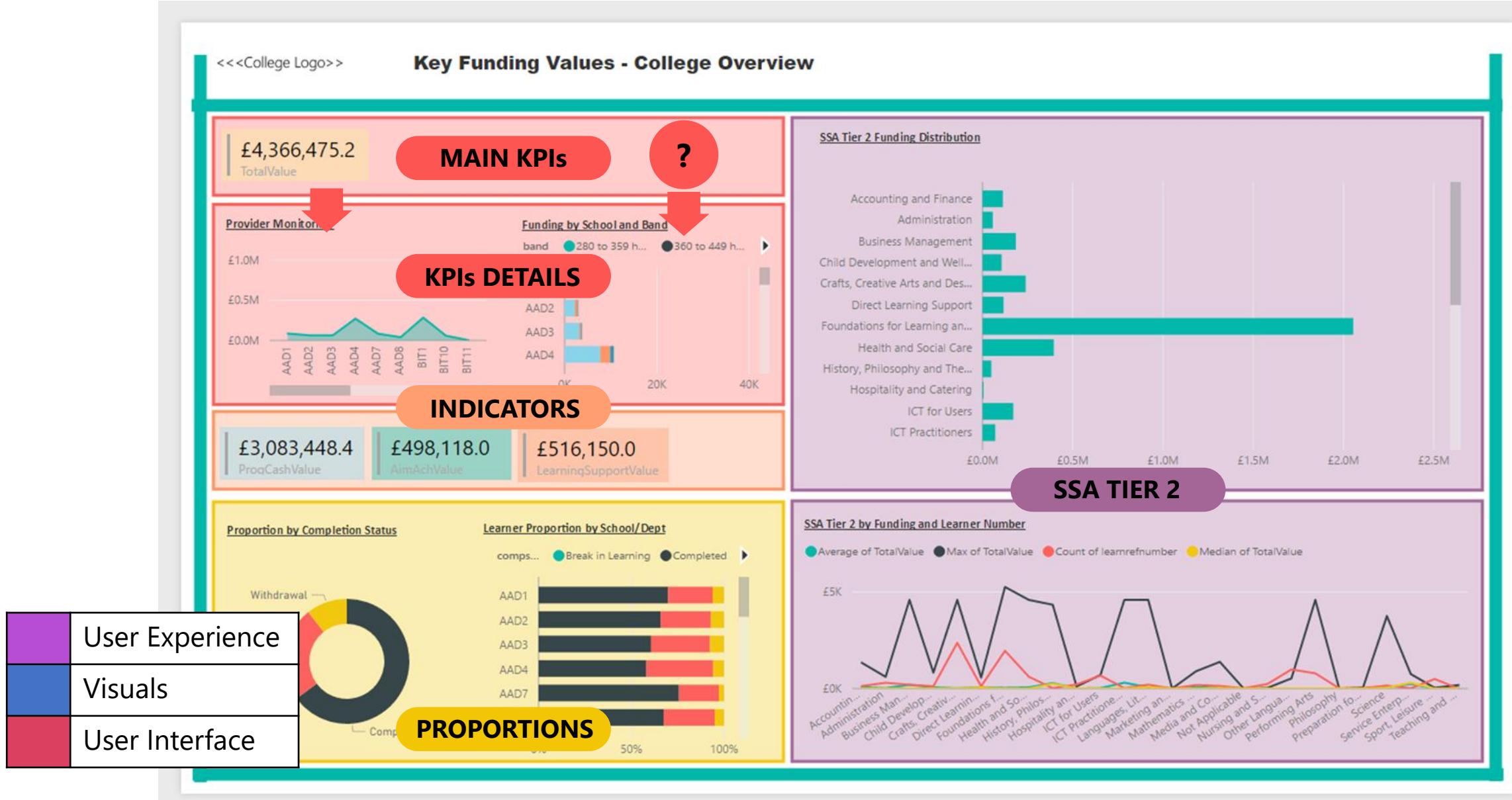
Text consistency



A-Z



A-Z



VISUALS

Key Funding Values - College Overview

TotalValue £4.4M

Learn Ref Numbers 123K

Value by ProvSpecMon_C

ProvSpecMon_C	Value
FLS1	£0.5M
FLS3	£0.2M
FLS2	£0.1M
BIT6	£0.1M

Count of learnrefnumber by ProvSpecMon_C

ProvSpecMon_C	Count
FLS1	30K
AAD4	15K
FLS3	15K
FLS2	15K
BIT6	10K
BIT10	10K

TotalValue by SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	TotalValue
Foundations for Learning an...	£2.0M
Health and Social Care	£0.8M
Languages, Literature and C...	£0.5M
Mathematics and Statistics	£0.5M
Crafts, Creative Arts and De...	£0.5M
Business Management	£0.2M
ICT for Users	£0.1M
Direct Learning Support	£0.1M
Science	£0.1M
Accounting and Finance	£0.1M
Child Development and Well...	£0.1M
ICT Practitioners	£0.1M

oqCashValue £3,083,448.4

AimAchValue £498,118.0

LearningSupportValue £516,150.0

Count of learnrefnumber by compstatus

compstatus	Count
Withdrawal	10%
Contin...	30%
Completed	60%

Count of learnrefnumber by ProvSpecMon_C

ProvSpecMon_C	Count
AAD1	70%
AAD2	70%
AAD3	70%
AAD4	70%
AAD7	70%
AAD8	70%

SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Administration	£22.8	£607.6	300	£0.0
Business Management	£192.7	£4,592.6	198	£0.0
Child Development and We...	£65.4	£829.0	120	£0.0
Crafts, Creative Arts and De...	£12.1	£4,592.6	2371	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Foundations for Learning a...	£36.9	£5,264.3	1956	£0.0
Health and Social Care	£64.1	£4,592.6	613	£0.0
History, Philosophy and The...	£281.7	£4,343.1	19	£246.2
Total	£35.4	£5,264.3	8607	£0.0

User Experience

Visuals

User Interface



A-Z

ALIGNMENT

SSA TIER 2

MAIN KPIs

KPIs DETAILS

INDICATORS

PROPORTIONS

<<<College Logo>>

Key Funding Values - College Overview

£4.4M Total Value **123K** Learn Reference Numbers

Provider Monitoring Field/School/Dept Learn references

Provider Monitoring Field	Total Value
FLS1	£0.81M
FLS3	£0.59M
FLS2	£0.52M
BIT6	£0.46M
FLS8	£0.38M

Provider Monitoring Field	Learn References
FLS1	31K
AAD4	11K
FLS3	10K
BIT10	9K
FLS2	8K

£498,118.0 AimAchValue **£3,083,448.4** ProgCashValue **£516,150.0** LearningSupportValue

Count of learnrefnumber by c... Proportion by Completion Status

Completion Status	Proportion
Break in Lear...	10.55%
Completed	64.72%
Continuing	24.73%
Withdrawal	0.70%

TotalValue by SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	TotalValue
Foundations for Learning ...	£2.05M
Health and Social Care	£0.39M
Languages, Literature and...	£0.26M
Mathematics and Statistics	£0.24M
Crafts, Creative Arts and D...	£0.24M
Business Management	£0.18M
ICT for Users	£0.17M
Direct Learning Support	£0.12M
Science	£0.12M
Accounting and Finance	£0.11M
Child Development and W...	£0.11M
ICT Practitioners	£0.07M
Media and Communication	£0.06M

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Total	£35.4	£5,264.3	8607	£0.0

A-Z

BRANDING/TARGETING

FLEXIBLE LOGO

A screenshot of a website for 'INFO ASSET MANAGEMENT'. The header features a large 'IAM' logo and the text 'INFO ASSET MANAGEMENT'. Below the header is a navigation bar with links for HOME, ABOUT US, CONTACT US, PRODUCTS, SERVICES, and PRIVACY. A social media sidebar on the left includes icons for Facebook, Twitter, LinkedIn, Email, and a plus sign. The main content area contains a paragraph about College Information Asset Manager (CIAM) and a 'Try CIAM' button. To the right is a section titled 'Quality Professionals' with text about teaching, learning, and outcomes. At the bottom is a section for 'Marketing and Student Services Professionals' with text about recruitment and tweets. A 'MAIN COLOR' callout at the bottom points to a blue square in the sidebar.

infoassetmanagement.com/products.html

Facebook Gmail Pinterest File sharing and Archivos - Dropbox Inicie sesión en su ImageShack - All Merging States -

HOME ABOUT US CONTACT US PRODUCTS SERVICES PRIVACY

f g+ t

College Information Asset Manager

The amount of information within colleges is constantly expanding, and to stay competitive, your data-insight strategy has to keep pace with business change. With multiple sources of data, it can be difficult for your users to get access to the information they need, when they need it. College Information Asset Manager (CIAM) is not just a dashboard but your strategic information asset manager to help you address these challenges.here.

Try CIAM

IT Professionals
Because we know as a Technology manager you are busy. CIAM also tracks technical updates for you.
•Use CIAM to understand the technology of your

Finance Professionals
There is a lot of pressure balance the books and as a Finance Director you have a key priority to balance requirements and ensure sustainability. CIAM also tracks technical updates for you

Quality Professionals
Because we know the importance of teaching,learning and outcomes we have developed models to ensure these are triangulated to inform practice
•Use CIAM to understand the trends in

Marketing and Student Services Professionals
CIAM will ensure that you are not just aware of your applications and conversion rates but also aware of other strategic information sets to help with recruitment. Why don't you find more about your tweets...

User Experience
Visuals
User Interface

MAIN COLOR



A-Z

COLOR

IAM | INFO ASSET MANAGEMENT

Key Funding Values
College Overview

Total Value: £4.4M

Learn Reference Numbers: 123K

Provider Monitoring Field/School/Dept

Field/School/Dept	Total Value
FLS1	£0.81M
FLS3	£0.59M
FLS2	£0.52M
BIT6	£0.46M
FLS8	£0.38M
BIT1	£0.28M

Learn references

Reference	Count
FLS1	31K
AAD4	11K
FLS3	10K
BIT10	9K
FLS2	8K
BIT1	8K

AimAchValue: £498,118.0

ProgCashValue: £3,083,448.4

LearningSupportValue: £516,150.0

Proportion by Completion Status

Status	Percentage
Break in Lear...	10.55%
Completed	64.72%
Continuing	24.73%
Withdrawal	0.70%

SSA Tier 2 Funding Distribution

Subject Area	Funding (£M)
Foundations for Learning ...	£2.05M
Health and Social Care	£0.39M
Languages, Literature and...	£0.26M
Mathematics and Statistics	£0.24M
Crafts, Creative Arts and D...	£0.24M
Business Management	£0.18M
ICT for Users	£0.17M
Direct Learning Support	£0.12M
Science	£0.12M
Accounting and Finance	£0.11M
Child Development and W...	£0.11M
ICT Practitioners	£0.07M
Media and Communication	£0.06M
Other Languages, Literatu...	£0.06M

SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of ...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.1	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£35.4	£5,264.3	8607	£0.0

User Experience

Visuals

User Interface



A-Z

BACKGROUND

INFO ASSET MANAGEMENT

Key Funding Values
College Overview

KEY METRICS

£4.4M Total Value

123K Learn Reference Numbers

Provider Monitoring Field/School/Dept

Category	Value
FLS1	£0.81M
FLS3	£0.59M
FLS2	£0.52M
BIT6	£0.46M
FLS8	£0.38M
BIT1	£0.28M

Learn references

Category	Value
FLS1	31K
AAD4	11K
FLS3	10K
BIT10	9K
FLS2	8K
BIT1	8K

£498,118.0 AimAchValue

£3,083,448.4 ProgCashValue

£516,150.0 LearningSupportValue

Proportion by Completion Status

Status	Percentage
Break in Lear...	10.55%
Completed	64.72%
Continuing	10.55%
Withdrawal	10.55%

SSA Tier 2 Funding Distribution

Foundations for Learning ... £2.05M

Health and Social Care £0.39M

Languages, Literature and... £0.26M

Mathematics and Statistics £0.24M

Crafts, Creative Arts and D.. £0.24M

Business Management £0.18M

ICT for Users £0.17M

Direct Learning Support £0.12M

Science £0.12M

Accounting and Finance £0.11M

Child Development and W... £0.11M

ICT Practitioners £0.07M

Media and Communication £0.06M

Other Languages, Literatu... £0.06M

SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of ...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.1	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£35.4	£5,264.3	8607	£0.0

User Experience

Visuals

User Interface



A-Z

CONTEXT AND DEPTH

INFO ASSET MANAGEMENT

Key Funding Values
College Overview

KEY METRICS

£4.4M Total Value

123K Learn Reference Numbers

Provider Monitoring Field/School/Dept

Field/School/Dept	Total Value
FLS1	£0.81M
FLS3	£0.59M
FLS2	£0.52M
BIT6	£0.46M
FLS8	£0.38M
BIT1	£0.28M

Learn references Drill Through →

Learn reference	Count
FLS1	31K
AAD4	11K
FLS3	10K
BIT10	9K
FLS2	8K
BIT1	8K

£498,118.0 AimAchValue

£3,083,448.4 ProgCashValue

£516,150.0 LearningSupportValue

Proportion by Completion Status

Completion Status	Proportion
Break in Lear...	10.55%
Completed	64.72%
Continuing	10.55%
Withdrawal	10.55%

SSA Tier 2 Funding Distribution

band: All

Total value Trend

Year	Total Value (£)
2016	~£0.1M
2016	~£0.2M
2016	~£0.3M
2017	~£0.05M
2017	~£0.5M
2017	~£0.6M

SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of ...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.1	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£35.4	£5,264.3	8607	£0.0



A-Z

TEXT

Font
Segoe UI

Sizes

8
9
14
30

Types
Normal
Bold

	User Experience
	Visuals
	User Interface

Key Funding Values
College Overview

band
All

KEY METRICS

£4.4M Total Value

123K Learn Reference Numbers

Provider Monitoring Field/School/Dept

Learn references

Category	Value
FLS1	£0.81M
FLS3	£0.59M
FLS2	£0.52M
BIT6	£0.46M
FLS8	£0.38M
BIT1	£0.28M
AAD4	11K
FLS3	10K
BIT10	9K
FLS2	8K
BIT1	8K

£498,118.0 AimAchValue

£3,083,448.4 ProgCashValue

£516,150.0 LearningSupportValue

Proportion by Completion Status

10.55% AAD1

24... AAD2

64.72% AAD3

Continuing AAD4

Withdrawal AAD7

0% 50% 100%

SSA Tier 2 Funding Distribution

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of ...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.6	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£35.4	£5,264.3	8607	£0.0



A-Z

FINAL REPORT

INFO ASSET MANAGEMENT

Key Funding Values
College Overview

KEY METRICS

£4.4M Total Value	123K Learn Reference Numbers	
Provider Monitoring Field/School/Dept	Learn references	
FLS1 £0.81M FLS3 £0.59M FLS2 £0.52M BIT6 £0.46M FLS8 £0.38M BIT1 £0.28M	FLS1 31K AAD4 11K FLS3 10K BIT10 9K FLS2 8K BIT1 8K	
£498,118.0 AimAchValue	£3,083,448.4 ProgCashValue	£516,150.0 LearningSupportValue

Proportion by Completion Status

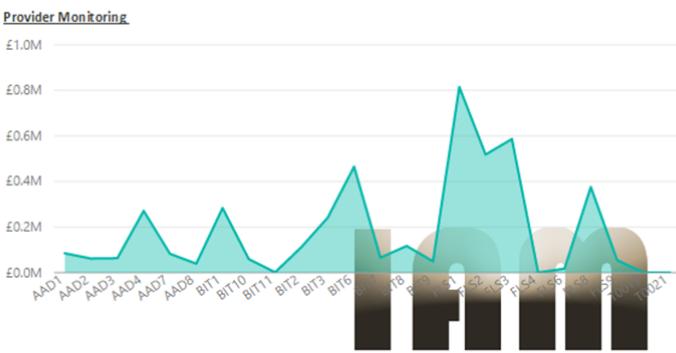
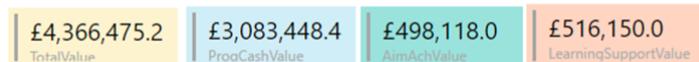
SSA Tier 2 Funding Distribution

Funding Category	Total Value (£)
Foundations for Learning ...	£2.05M
Health and Social Care	£0.39M
Languages, Literature and...	£0.26M
Mathematics and Statistics	£0.24M
Crafts, Creative Arts and D...	£0.24M
Business Management	£0.18M
ICT for Users	£0.17M
Direct Learning Support	£0.12M
Science	£0.12M
Accounting and Finance	£0.11M
Child Development and W...	£0.11M
ICT Practitioners	£0.07M
Media and Communication	£0.06M
Other Languages, Literatu...	£0.06M

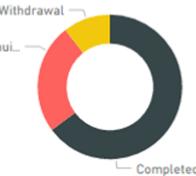
SectorSubjectAreaTier2Desc

SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.1	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£35.4	£5,264.3	8607	£0.0

Key Funding Values - College Overview



Proportion by Completion Status



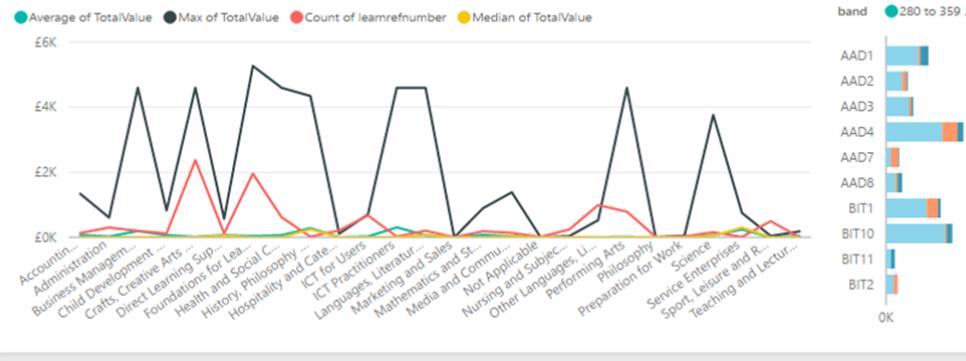
<<<College Logo>>

SSA Tier 2 Funding Distribution



INFO ASSET MANAGEMENT

SSA Tier 2 by Funding and Learner Number



INFO ASSET MANAGEMENT

KEY METRICS

£4.4M

Total Value

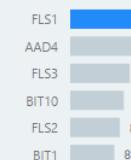
123K

Learn Reference Numbers

Provider Monitoring Field/School/Dept



Learn references



£498,118.0

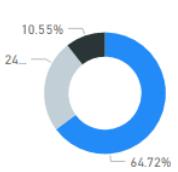
AimAchValue

£3,083,448.4

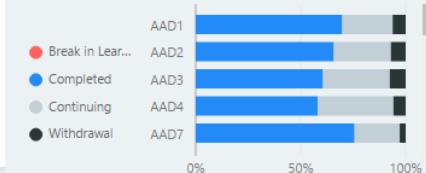
ProgCashValue

£516,150.0

LearningSupportValue



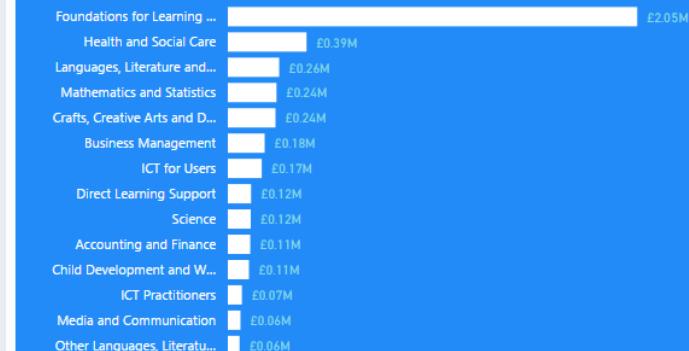
Proportion by Completion Status



band

All

SSA Tier 2 Funding Distribution



SectorSubjectAreaTier2Desc	Average of TotalValue	Max of TotalValue	Count of learnrefnumber	Median of TotalValue
ICT Practitioners	£305.4	£4,592.6	22	£0.0
History, Philosophy and Theology	£281.7	£4,343.1	19	£246.2
Service Enterprises	£239.1	£749.3	12	£299.7
Business Management	£192.7	£4,592.6	198	£0.0
Accounting and Finance	£71.4	£1,336.0	132	£0.0
Mathematics and Statistics	£71.3	£894.9	186	£0.0
Direct Learning Support	£70.4	£571.3	118	£58.7
Child Development and Well Being	£65.4	£829.0	120	£0.0
Languages, Literature and Culture of...	£65.1	£4,592.6	203	£72.7
Health and Social Care	£64.1	£4,592.6	613	£0.0
Science	£62.1	£3,757.6	156	£43.7
Total	£354.4	£5,264.3	8607	£0.0

Report Building Steps

1. Create visuals
2. Add margins *
3. Redistribute to logical sections *
4. Modify visual selection
5. Formatting & alignment
6. Background shapes *
7. Labeling *

*Can partially be handled using a background image

Report Design Tools

- Format commands (Format ribbon, help to arrange objects)
- Selection pane (Layer order, Tab order)
- Report layout options (View ribbon, gridlines, snap to grid, lock objects)
- Page view (View ribbon, fit to page, fit to width, show actual size)
- Undo/redo (CTRL+Z or CTRL +Y)

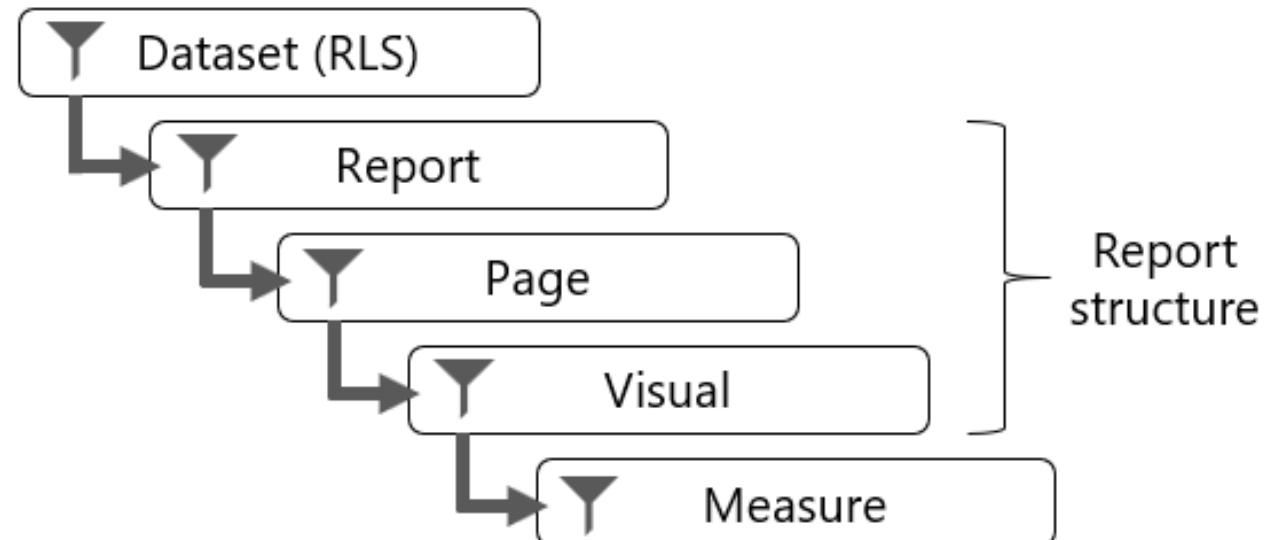
Filtering

- You can filter at five different levels

- Dataset (RLS)
- Report
- Page
- Visual
- Measure (using DAX/Report-level measure)

- Filter using

- Filter pane
- Slicers



Filter Pane or Slicer

Filter pane

- Advantages; same location, advanced filtering, better performance
- Disadvantages; less design flexibility, more difficult to see which filters are applied

Slicers

- Advantages; intuitive layout on report canvas, hierarchical slicer, filter context visible, support edit visual interaction, synced slicers
- Disadvantages; can impact performance, take up space in report canvas

Filtering Tips

- Use either filters or slicers.
 - Avoid using both filter techniques because it can create confusion.
- Use the clear all slicers button to reset to default values
- When a requirement is in place to lay out many slicers, consider creating a page or fly out pane that is dedicated to showing all slicers.

Design For Accessibility

- **Styling**
 - Larger fonts, color blindness. E.g., built-in theme Color blind safe or High contrast
- **Alt text**
 - Can describe the appearance and function of report objects to screen reader users
- **Tab order**
 - Build a logical sequence
- **Conditional formatting**
 - Use icons and colors

Before Publishing

Testing

- User acceptance test, test on different interfaces (Service, mobile app, embedded), Performance!

Prepare for publication

- Set intended initial experience, e.g., define first page, reset filters and slicers, visual drill state, sort orders, and button state

Provide support

- Training, built-in assistance, documentation

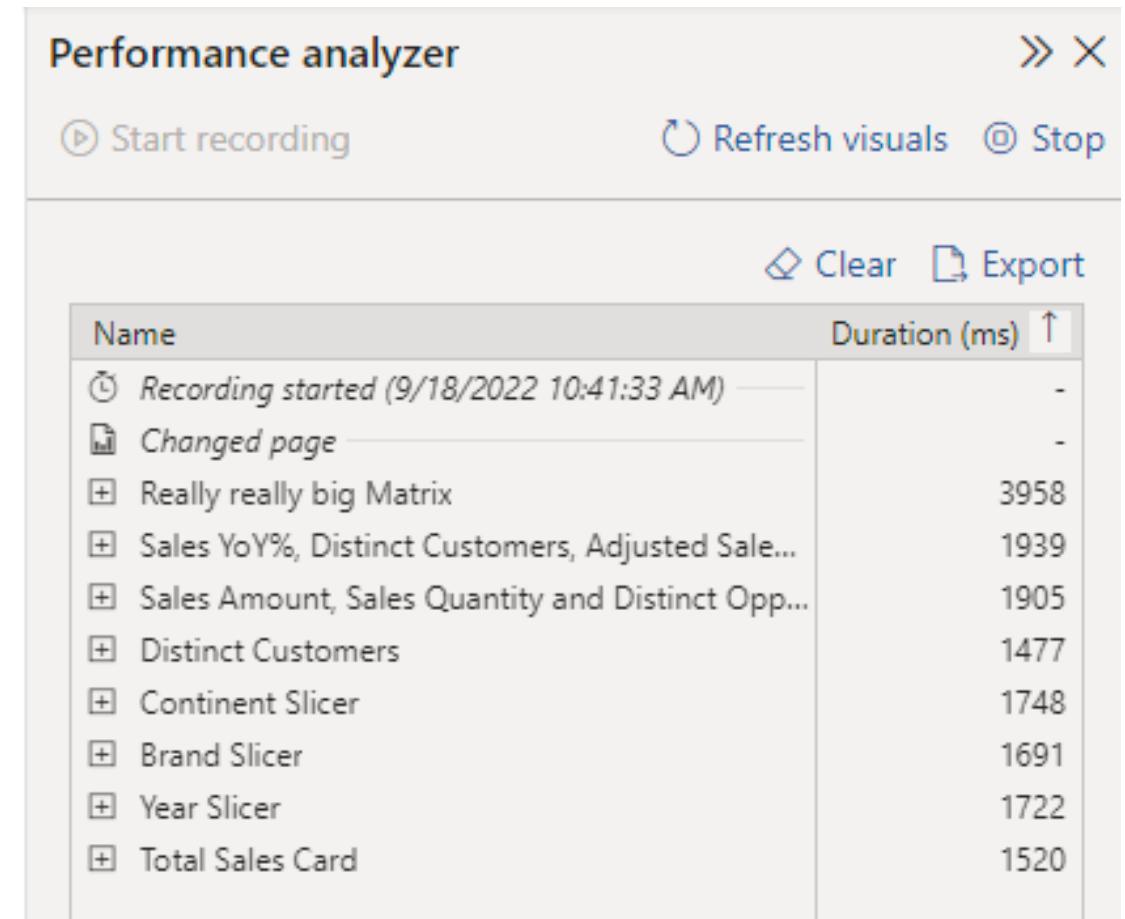
Manage change

- Often, it's better to publish a new report that includes many updates than release smaller incremental changes, consider using Deployment pipelines

And...

Validate The Performance

If it doesn't perform well in Power BI Desktop, don't expect it to fix itself in the Power BI service!



The screenshot shows the Power BI Performance analyzer interface. At the top, there are buttons for 'Start recording' (with a play icon), 'Refresh visuals' (with a circular arrow icon), and 'Stop' (with a stop icon). Below these are 'Clear' and 'Export' buttons. The main area is a table with two columns: 'Name' and 'Duration (ms)'. The 'Duration (ms)' column is sorted in ascending order, indicated by an upward arrow icon.

Name	Duration (ms)
⌚ Recording started (9/18/2022 10:41:33 AM)	-
📄 Changed page	-
➕ Really really big Matrix	3958
➕ Sales YoY%, Distinct Customers, Adjusted Sale...	1939
➕ Sales Amount, Sales Quantity and Distinct Opp...	1905
➕ Distinct Customers	1477
➕ Continent Slicer	1748
➕ Brand Slicer	1691
➕ Year Slicer	1722
➕ Total Sales Card	1520

DEMO

Creating a...

- Report



One more thing...





Thank you!



Microsoft Fabric

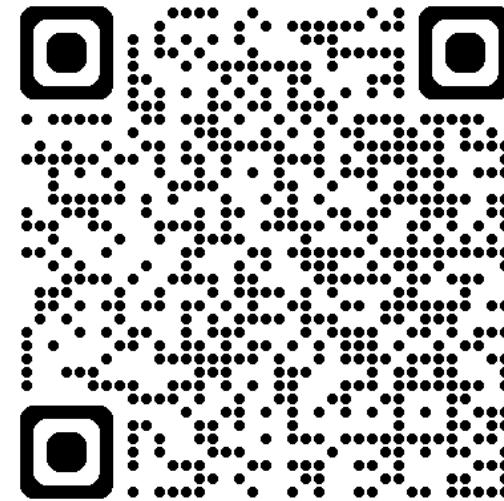
60-Day Free Trial

No Credit Card

No Azure Subscription

F64 SKU

\$17,000 value



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