

dev>scope



SÓNIA CRUZ



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PowerBI Next Step 2023

**Unlock the Potential of Real-Time
Analytics with Fabric**

Who are we?

 Porto, Portugal

dev>scope



Sónia Cruz

BI Specialist | Data & Analytics @ DevScope

i ~5 years working within the Business Intelligence universe, creating solutions across multiple industries

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Joana Barbosa

Head of Data & Analytics @ DevScope

i 10+ years solving data problems and finding ways of turning raw data into valuable insights!

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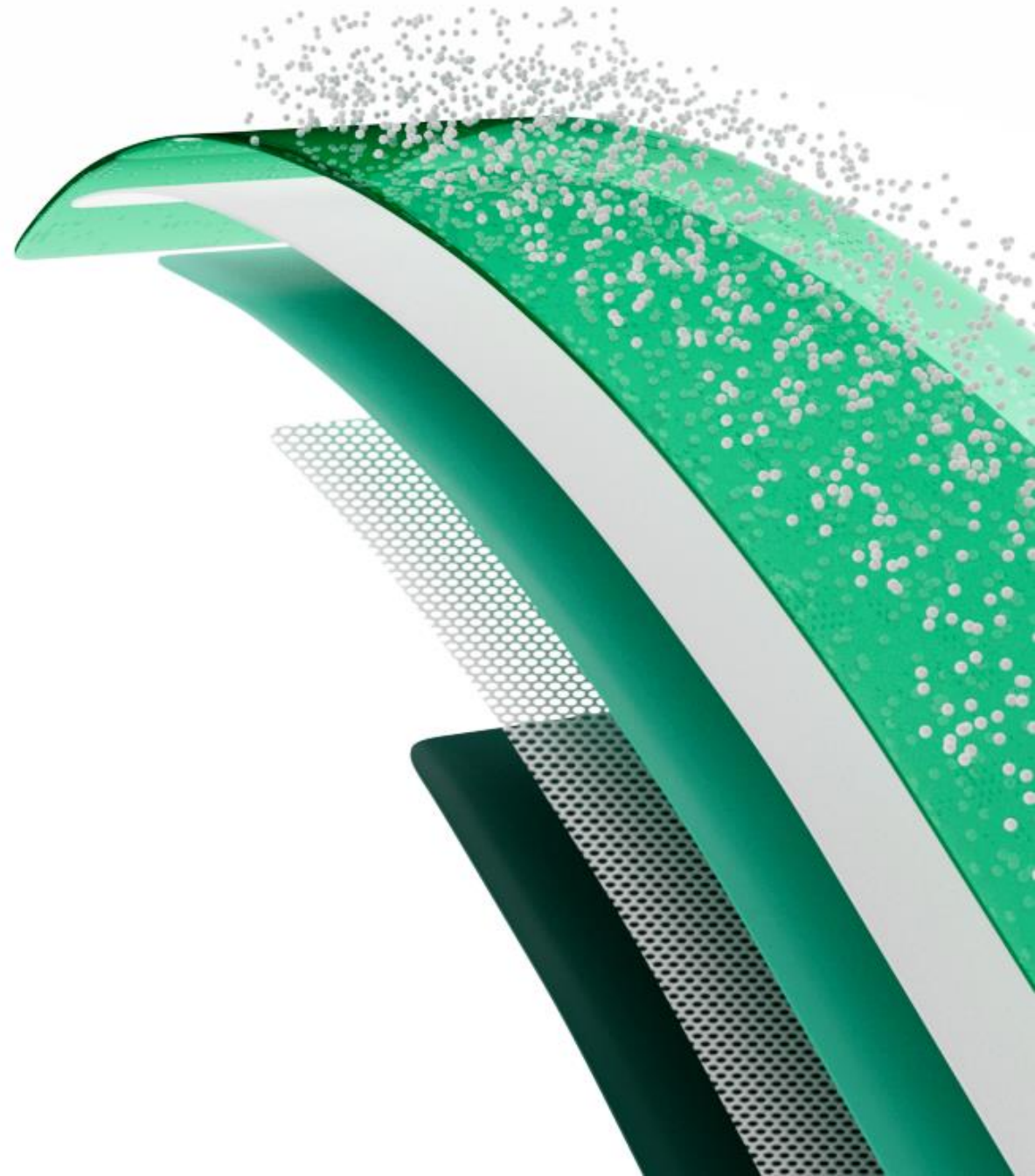


Raffle prizes from the sponsors





Fabric



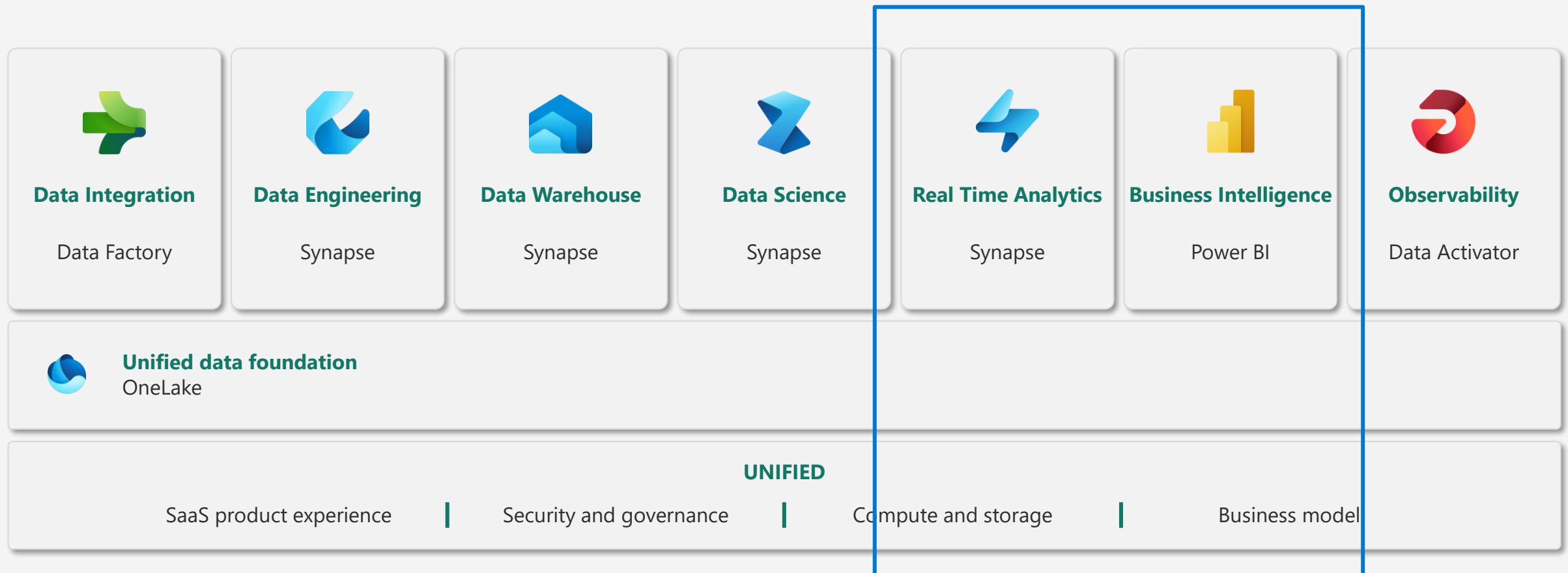
Introducing Microsoft Fabric

Microsoft Fabric enables you to manage your data in one place with a suite of analytics experiences that work together seamlessly, including:

- Data Factory
- Synapse Data Engineering
- Synapse Data Warehouse
- Synapse Data Science
- Synapse Real-Time Analytics
- Power BI
- Data Activator

Microsoft Fabric does it all—in a unified solution

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



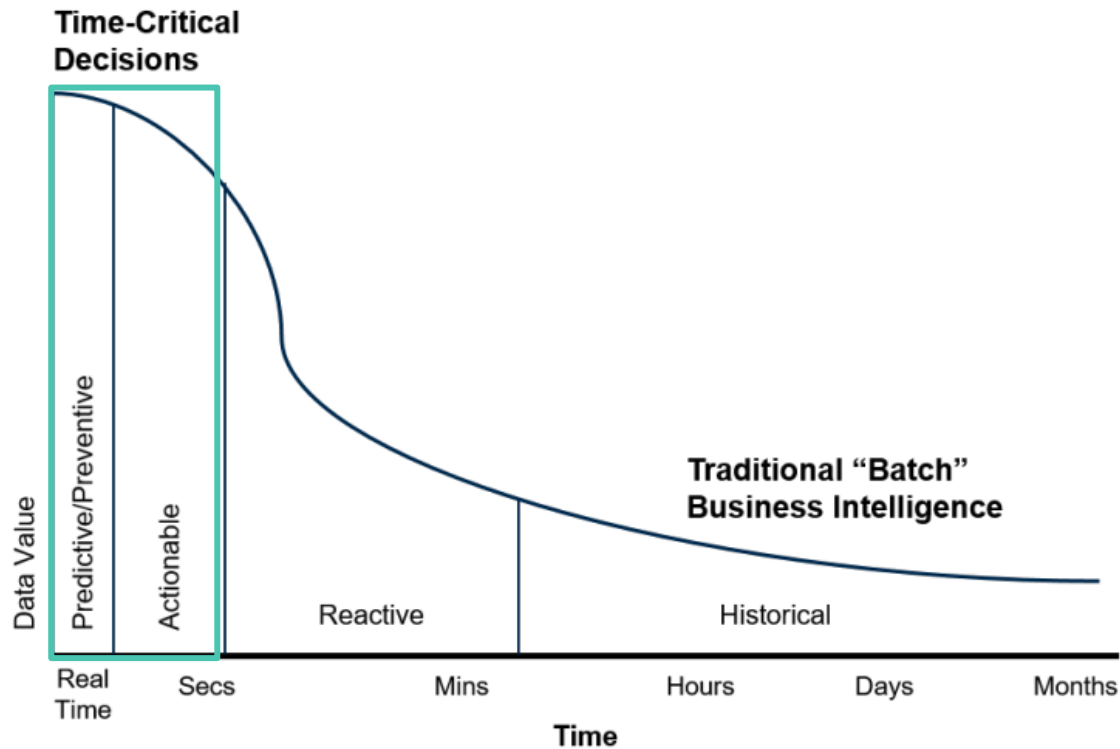
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Real-Time
Analytics



What is & Why Real-time Analytics?

Time Value of Data



- Snappy, responsive applications
- Faster decision-making
- Automated Intelligence
- Time-sensitive interventions

"The discipline that applies logic and mathematics to data to provide insights for making better decisions quickly."
Gartner

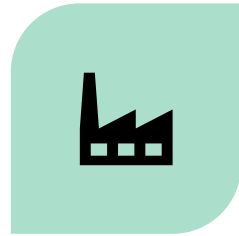
Real-time analytics use cases across industries



TRANSPORTATION &
LOGISTICS



SMART
CITIES/BUILDINGS/HOME



MANUFACTURING
OPERATION



AUTOMOTIVE INDUSTRY



ENERGY OIL AND GAS



IOT
ANALYTICS



LOG
ANALYTICS

Transitioning to Real-time analytics in MF

(from Kusto / Azure Data Explorer)

BEFORE FABRIC

In Power BI - Streaming Datasets

- Very (very) Limited

With Azure

- Data Explorer (ADX):
 - PaaS
 - Costly and complex to provision



WITH FABRIC

Real-Time Analytics

- The power of Azure Data Explorer
- SaaS simplified platform
- Seamless integration with OneLake (and all the other fabric experiences)

Real-time analytics in Microsoft Fabric

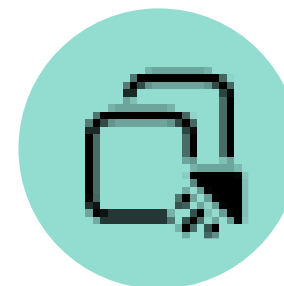
Components:



Event Stream



KQL Database



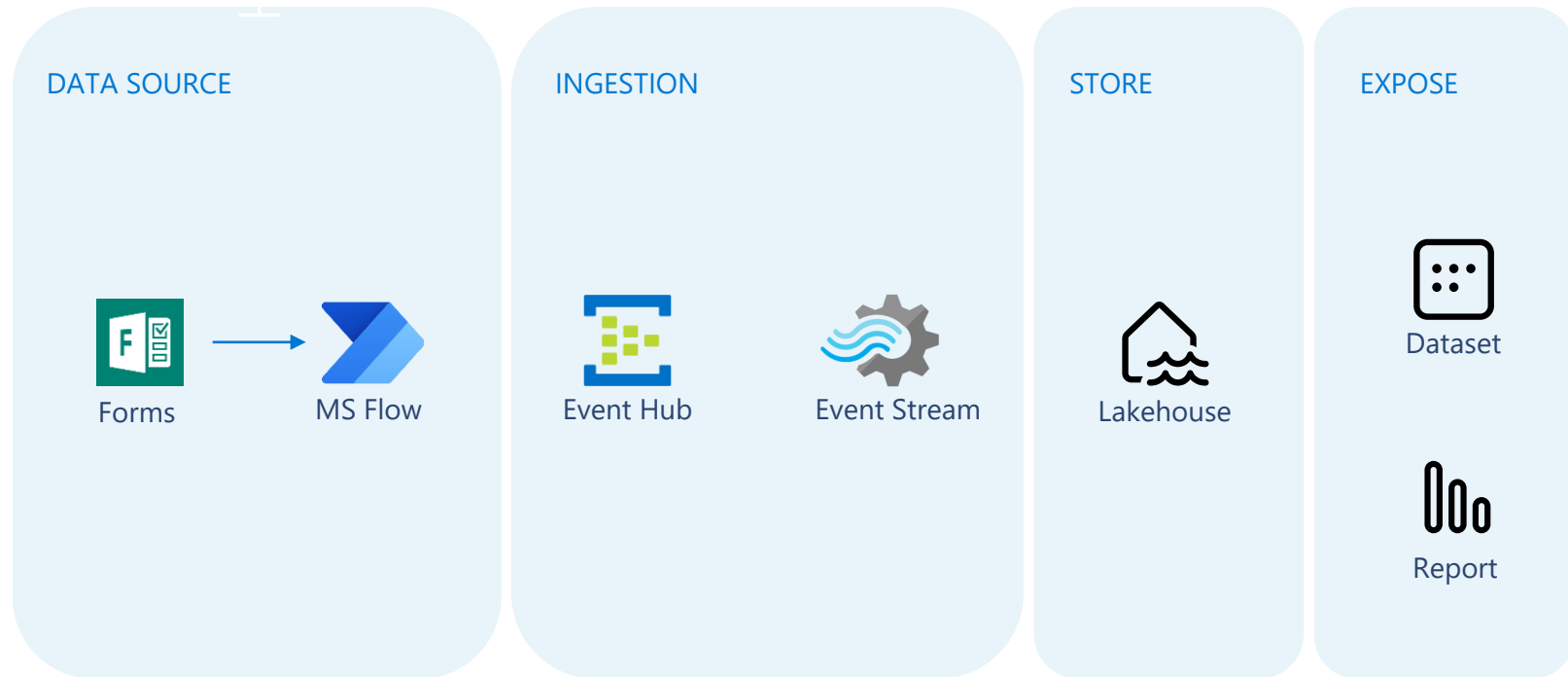
KQL Queryset

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Demo Time
Forms



Demo - Forms



Architecture

4

Demo Time
Social



Demo - Tweets

#PowerBINextStep

Architecture



Wrap Up

- MS Fabric offers a complete and easy to setup solution for real-time analytics scenarios
- Use Onelake and direct lake to shortcut your process
- Alternatively, use Kusto's engine to build a more robust solutions for a more demanding workload
- Changing schema in onelake tables or datasets in direct lake not fully supported **yet**
- Power BI Dataset Quick Create from KQL database could use some improvements

Questions?





SPECIAL DISCOUNT
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KNOW
Our Products

Thank you!



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