## Fellowwind

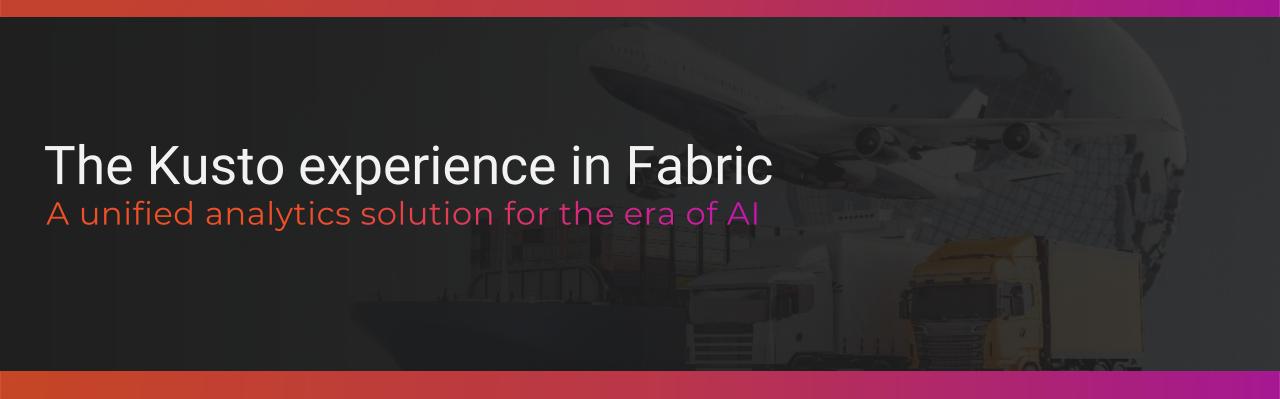
# The Kusto experience in Fabric















## Jaques Cousteau 1910-1997



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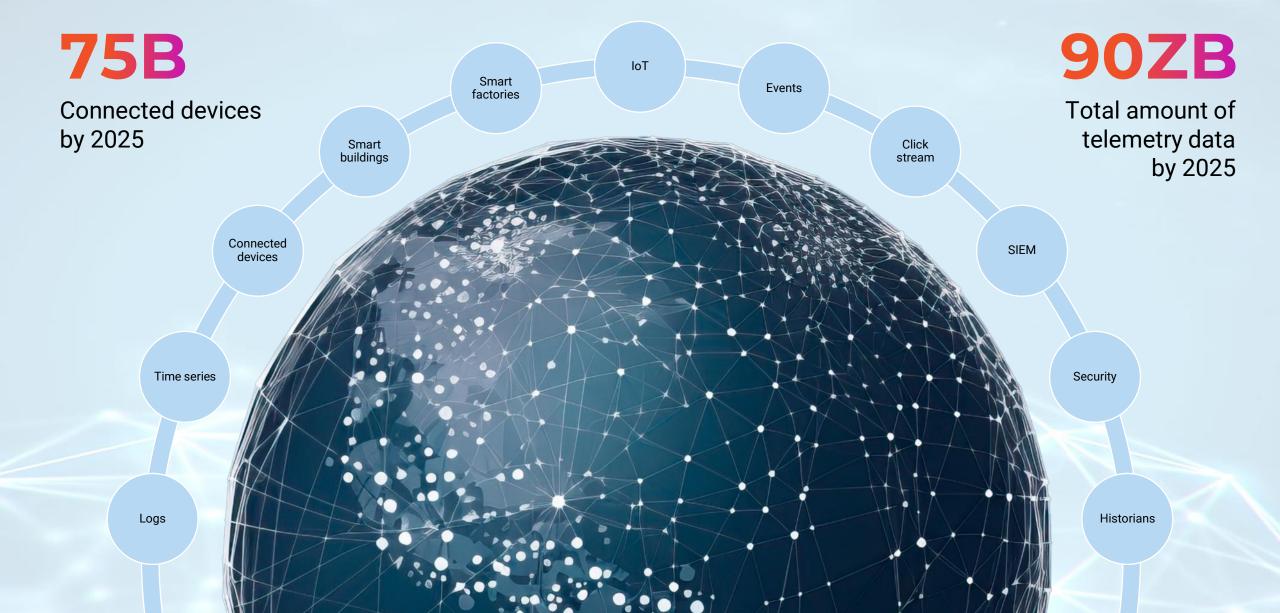
## It all starts with data

Telemetry – a key data for digital transformation

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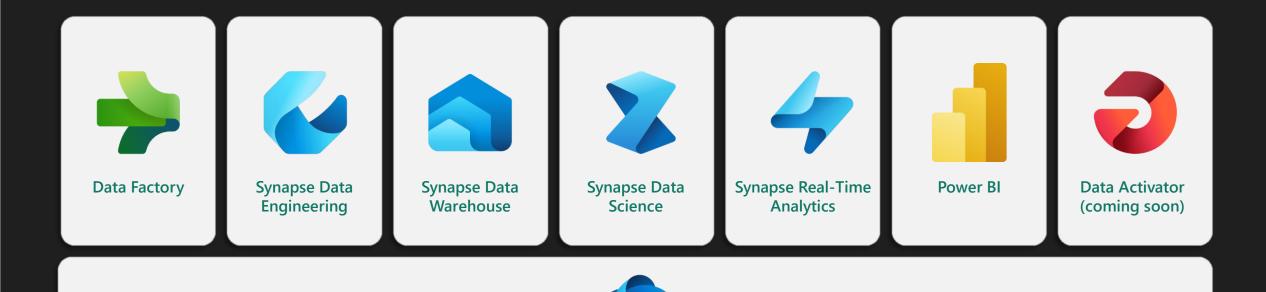


#### Telemetry – a key data for digital transformation





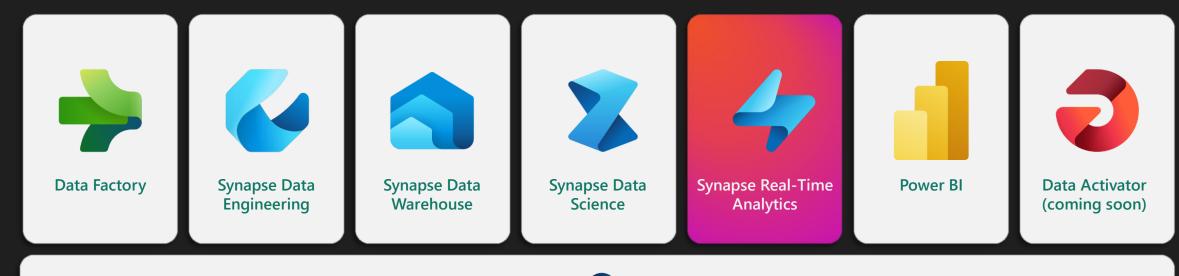
## Microsoft Fabric



OneLake



## Microsoft Fabric





OneLake

## Digital transformation

Cybersecurity
Asset tracking and management
Predictive maintenance
Supply chain optimization
Customer experience
Energy management
Inventory management
Quality control
Environmental monitoring
Fleet management
Health and safety





Fabric Real-time Analytics solution enables organizations to consume vast amount of data, focus and scale up their Analytics solution with data in motion, empower their business analysts, and democratize their data for citizen data scientists and Data Engineers



**Unlimited Scale** (query, ingestion and storage) Structured

KQL database

Key capabilities

Any data source

Any data format

Semi-structured Free-text

Real-time transformation og complicated data strcutures

Streaming analytics in Near-Real-Time

Low latency High freshness

Timeseries database

Everything is indexed and partitioned

High performance

## Real-Time Analytics



#### Get started for free

https://dataexplorer.azure.com/freecluster https://detective.kusto.io



#### Kusto in Power Bl

## Forget everything you know about

query performance vs data types &

data modelling best practices

## Data modelling Kusto in Power Bl

- Single table reporting can be a good option, if you can include all columns from dimensions to the table
- M:M relations are hard to avoid, but not a big deal 

   all queries will be translated to KQL
- All dimensions must be tagged with "IsDimension=true"
- Dimensions can be imported if they are <1 mio rows.</li>
- INTEGER and DECIMAL er slow joins compared to STRING

## Harness the Power (BI) of Kusto

Let Power BI build the KQL

- In Power Query
- Using DAX

Or build a Kusto function





## Harness the Power (BI) of Kusto

```
.create-or-alter function GetSysLogs(TimeWindow:string , Bucket:string )
{
  cluster('help').database('SampleLogs').RawSysLogs
| where timestamp > ago(totimespan(TimeWindow))
| summarize LogCount=count() by name, bin(timestamp,
totimespan(Bucket))
| order by timestamp asc
}
```

GetSysLogs('5d','1h')







## Brian Bønk Rueløkke

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https://github.com/brianbonk



Microsoft

FastTrack Recognized Solution Architect Power Bl

2022 >>

Microsoft

Certified Trainer
Data Platform

2018 >>

