

# | Complete BI Solution (CBIS)

## Challenges:

- Huge amount of data
- Many and diverse data sources (files, db's, API's, on-premises/cloud applications)
- Inefficient existing solution
- long development time of the current solution

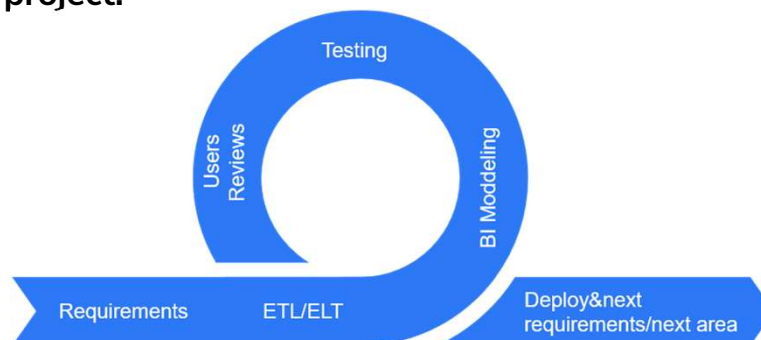
## Solutions:

- Based on cloud services:
- ELT/ETL with Azure Data Factory
- Snowflake Data Warehouse
- Power BI as a visualization and business logic layer

## Outcomes:

- simple and easy to maintain but still powerful architecture
- high-performance data warehouse engine
- unmatched speed of solution implementation
- in most cases one common analytical model for the whole enterprise - rich and cross-sectional analysis

## Approach to the project:



## Proof of Concept (PoC)

- choose business area to implementation (maximum business value)
- cost effective and unmatched speed of development

## Next step

Extending the solution to all relevant areas of activity (sales, HR, Warehousing, Purchases, Accounting, Marketing etc.)

## Complete solution:

ready to scale-up

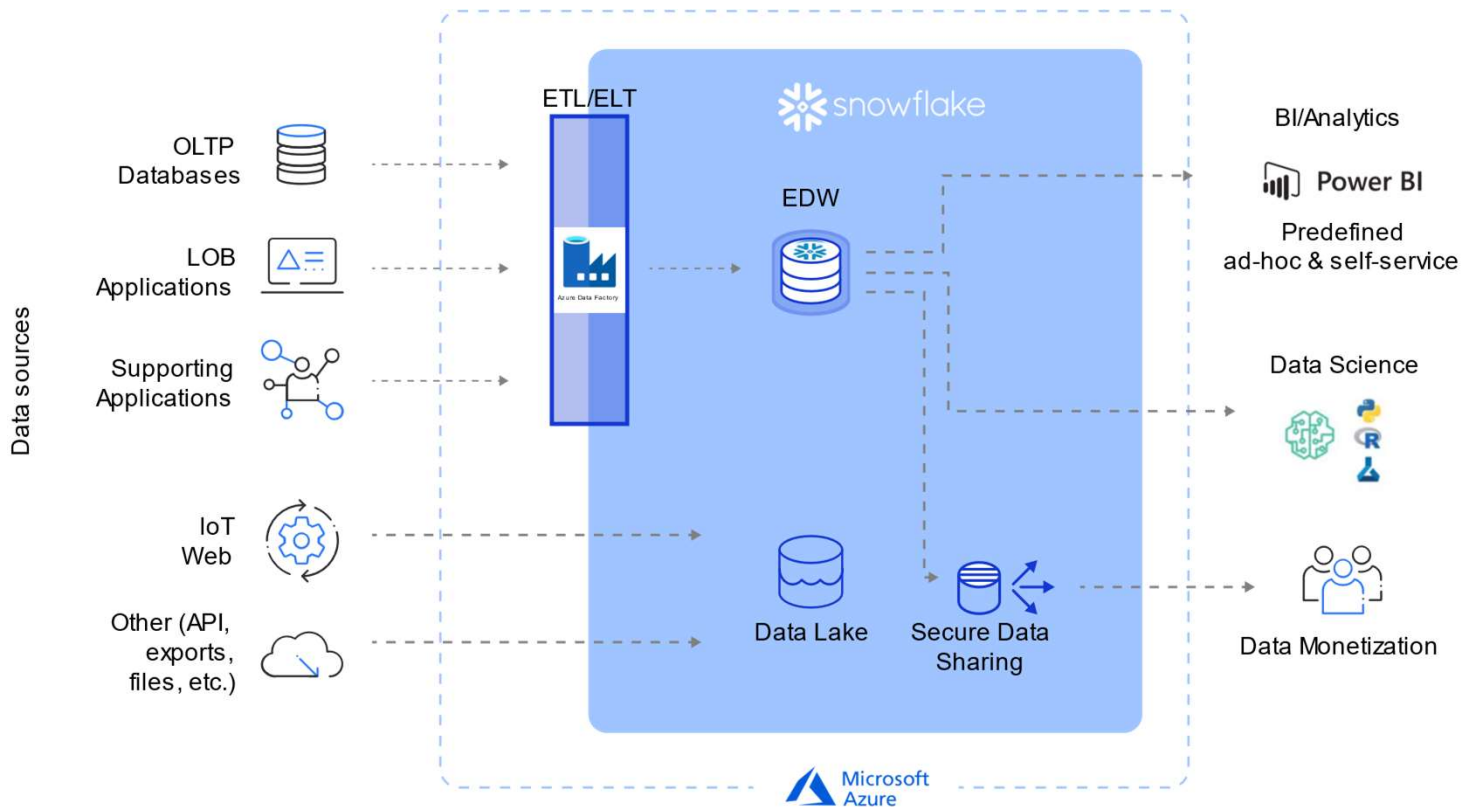
Flexible

cost effective

business oriented

# Complete BI Solution (CBIS)

## Solution architecture:



## Architecture Building Blocks:

- ETL/ELT Layer – using Azure Data Factory we can connect to almost any data source and quickly load data into the data warehouse service. With job scheduling and orchestration, scalability and security your data flow will be reliable and easy to maintain
- Snowflake-based Data Warehouse and Data Lake, with the ability to analyse huge volumes of data with previously unknown performance. Thanks to columnar compression, fast and seamless scaling (up/down), revolutionary load separation, data transformation, integration and data analysis can be done faster and cheaper than comparable technologies
- Power BI – The market-leading tool plays a dual role here - it can serve as a visualizer of data from the data warehouse or as the main analysis tool for ad-hoc purposes.

With this proven architecture, we are able to deliver solutions with unprecedented performance, faster, more broadly and reliably. Using CI/CD techniques we ensure high quality of code and trouble-free implementation.