Deloitte.



Eywa Unilever Data Lake & BI tool Project description

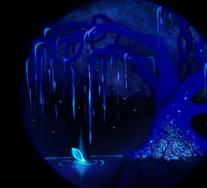


Table of contents

- 3 Client issues
- 5 Project description
- 8 Goals
- 10 Our approach
- 15 Cases learned

Client issues

Client issues

Project description

Goals

Our approach

Client issues

Client issues



Non-standardized approach to form sales reports

- Number of unconnected IT-systems
- Number manual reports
- Number of unconnected reporting systems



Strong dependency on external data-source

- Low quality data from external provider
- Number of external data sources providing system data in XLSX files



Lack of technical documentation

- IT-systems are not described in technical documentation
- Large amount of outdated documentation



Universal Data Lake / Storage System absence

 Unilever RUS LLC does not have any special data warehouses, which are consolidating whole data

Client issues

Project description

Goals

Our approach

Project description

Client issues

Project description

Goals

Our approach

Project description What we should do

Jobs to be done

- Create end to end reporting for Retail Execution, Ice Cream, Key Accounts, Distributors business lines
- Make first steps for creating Sales ecosystem
- Deploy centralized data storage and prepare to connect to external vendors to the Company's system

Russia, Belarus - 2020 **Ukraine - 2021**

Project participants

Client side

Sales

 Defining a strategy based on data, indicators, and creating a concept for storing and visualizing data

IT

- Coordinating the approach with the global teams
- Technical expertise and provision of Azure infrastructure

Shopper Marketing

Content of reporting advisory

Deloitte side

Deloitte team

- Implementation, technology expertise
- · Creation of a scalable solution for subsequent integration to global Data Lake

Client issues

Project description

Goals

Our approach

Project description

Project timeline

February-March

Getting an Azure subscription, interviewing experts, and CD Excellence team

April-May

Creating Azure storage, integration with systems, incremental data transfer

June-July

Building visualization

August

Hypercare

Client issues

Project description

Goals

Our approach

Goals

Client issues

Project description

Goals

Our approach

Goals

Project goals description

The project goal is to provide structured information based on cloud solutions to sales management and field employees of the Unilever sales Department. The data contains current and historical values of key performance indicators of sales business processes which must be visualized n PowerBI.

Deploy the Eywa Data Lake in Azure as a data source for reporting in Power **Azure integration** Prepare the data and analytics for the business processes of sales of Food & **Analytics** HPC (KA, DT) and IC divisions based on Azure Mapping & Prepare documents describing the solution design (including technical specifications and mappings), ready for transfer to development environment documentation Visualization & Create dashboards for Sales department managers at different levels and describe the complete data model of provided reports **FTR** Create an integration function, including various types of automated tests at each stage, followed by completed code delivery and deployment of the **CICD** finished complete for the end user

Client issues

Project description

Goals

Our approach

Client issues

Project description

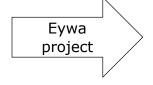
Goals

Our approach

2019

Common approach description

Data Warehouse is an information Database that is processed and stored in a hardware and software complex that provides access to information and multidimensional data analysis.



Data Lake is a cloud computing model that provides cloud data storage and data storage and management is provided as a service.

2020

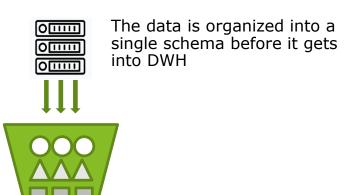
Client issues

Project description

Goals

Our approach

Cases learned





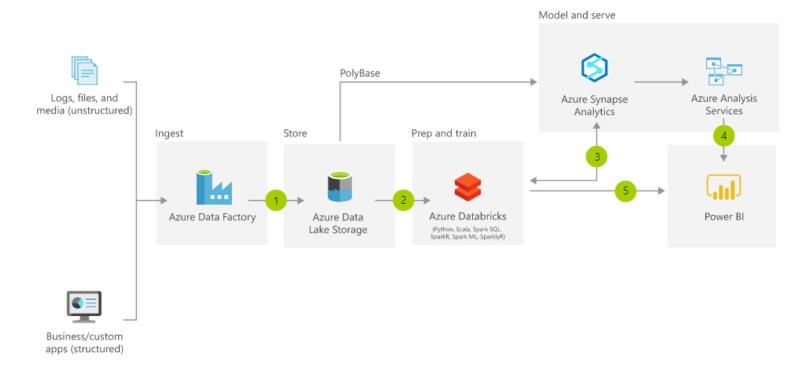
The analysis is based on "clean" data in DWH



Data is selected and processed as necessary

- Does not require to buy physical hardware
- Pay to go model-you pay exactly for what you use, and you scale the solution faster and cheaper
- · Execution of complex analytical queries using massive parallel processing
- · Ability to use machine learning to support strategic decisions using large Big Data

Selected Azure architecture



- **Azure Synapse Analytics** is a fast, flexible, and reliable data warehouse that allows you to scale computing and storage resources independently, based on a massively parallel computing architecture
- Azure Data Factory is a hybrid data integration service that allows you to create, plan, and organize ETL/ELT workflows
- Azure large binary object storage is a convenient and cost-effective massively scalable object storage for any type of unstructured data
- Azure Databricks is a fast and convenient Analytics platform based on Apache Spark
- Azure Analysis Services is an enterprise-level Analytics service that allows you to confidently manage, deploy, test, and deliver BI solutions
- **Power BI** is a set of business intelligence tools that provide a complete view of your entire organization

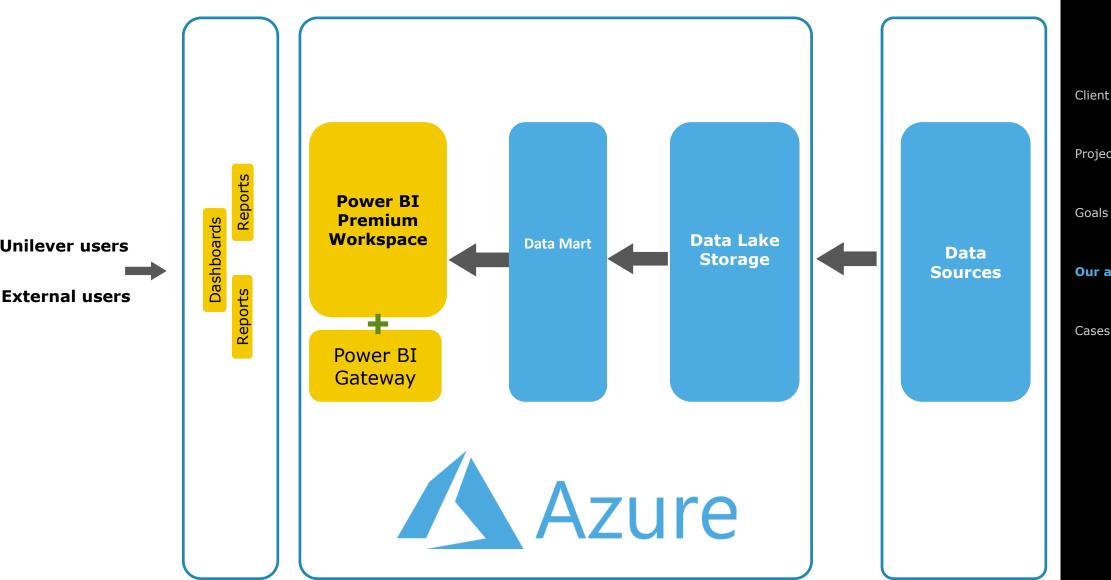
Client issues

Project description

Goals

Our approach

Eywa business architecture



Client issues

Project description

Our approach

Cases learned

Client issues

Project description

Goals

Our approach

Cases learned Important mistakes

• Prepare highly detailed STTM documents in order to make developers life easier Source To Target Mapping • In almost all cases analyze client even bad scripts • To collect more cases ready to implement through Bring more projects prepared cases Eywa takeaways • Pay more attention to external data providers and their data transfer method External data providers · This project has many interesting cases and methodologies, which can be implemented on other Collect projects methodologies

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Project description

Goals

Our approach