# Journey to the Cloud

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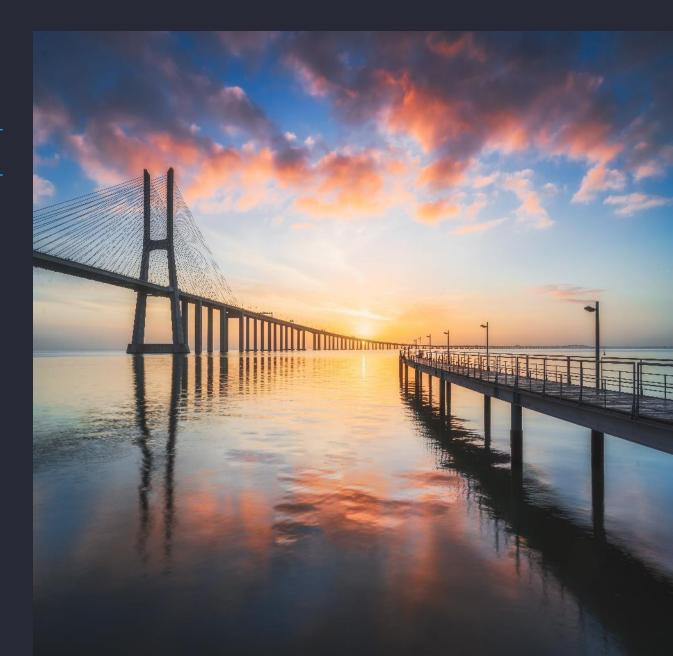
### Agenda

The Project

The Goal

The Journey

Q&A



### The Project



1700 users Infrastructure: 25 VMs 6.8K tables

70 business solutions 65 data sources 1500 official dashboards/analysis

2.4K scheduled ETL jobs/workflows 9.8M lines of code

Large Scale Big Changes to the ERP System

Short Deadlines

#### 2022

- As-is vs. To-be analysis
- Pilot new technologies
- Establish new environments (Snowflake, ADF)

#### 2023

- Started re-developing prioritized nxtgenERP impacted analytics solutions (Edge scope)
- Establish new environments (Viya 4)
- Viya 3.5 >> Viya 4

#### 1st July: Go-live nxtgenERP

2024

 Started re-developing remaining prioritized analytics solutions 2025

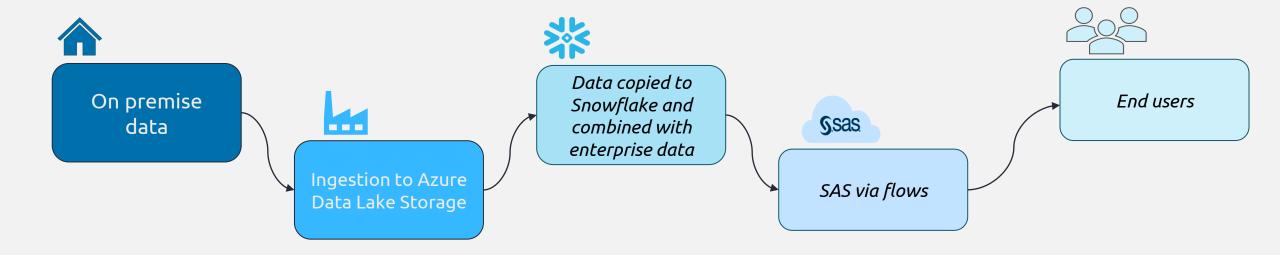
1st January: Completed Modernisation







### The Goal





### Microsoft Azure



**Azure Data Factory** 

Data Copy from On-Prem to ADLS



**Azure Data Factory** 

**Snowflake Scripts** 



**Azure Data Factory** 

Trigger SAS Flows via REST API



**Azure DevOps** 

Version Control



**Azure DevOps** 

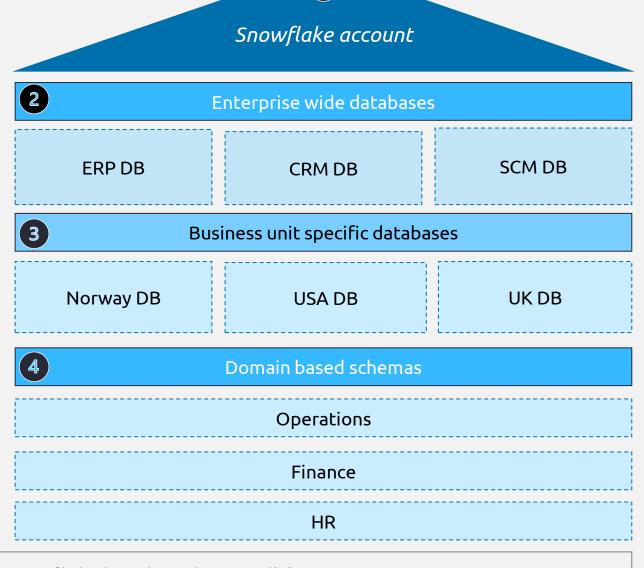
Promotions b/n Platforms

### Snowflake Data Architecture

Enterprise wide database layer for easy consumption

Business unit specific databases managed individually

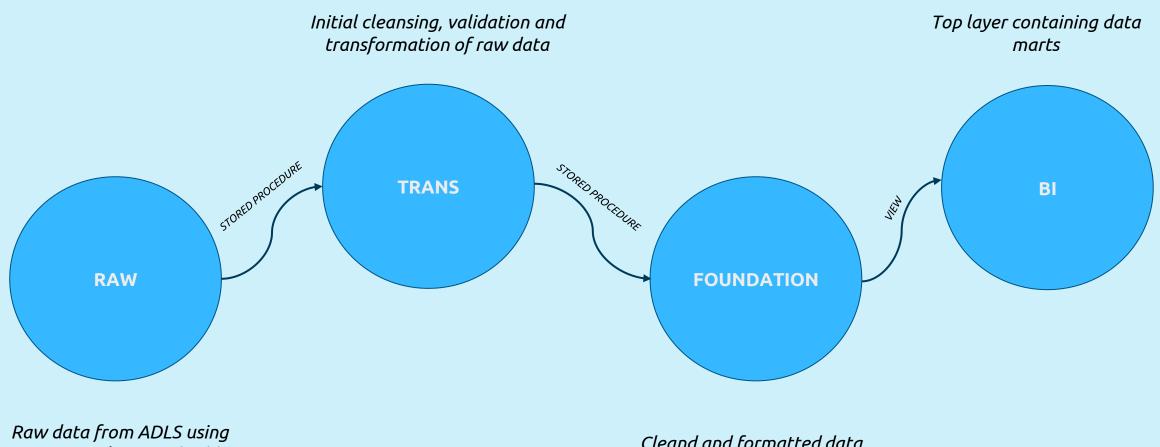
Domain specific schemas for individual business areas



Data availability managed in Snowflake by role and user policies



### Schema Layers

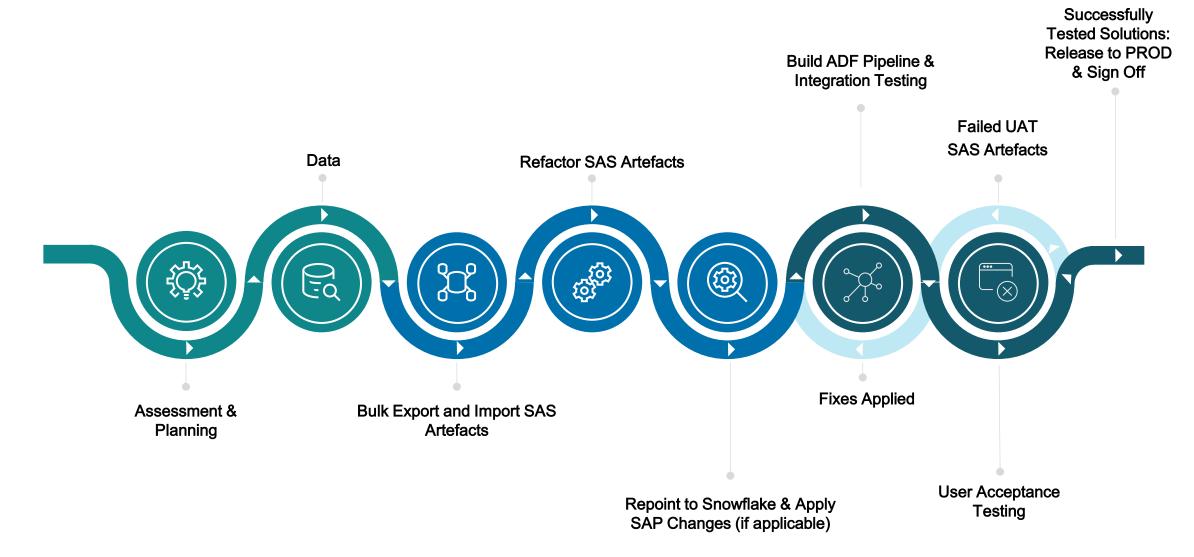


COPY INTO / External tables

Cleand and formatted data



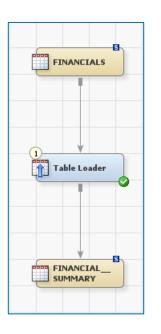
### Process for Modernising Business Solutions





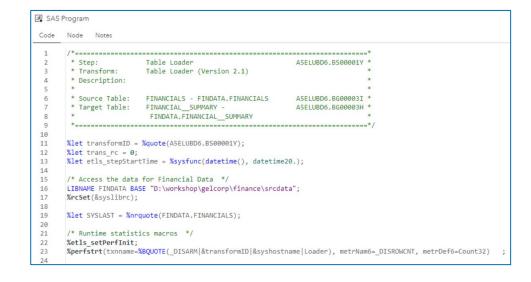
### SAS Program Step vs SAS Studio Step

#### **SAS 9.4**



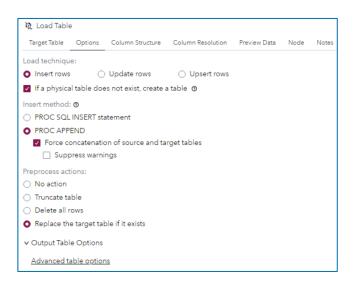
#### SAS Program Step (High Code)





#### SAS Studio Step (Low Code)







### **Key Lessons Learned**



#### **Data**

Get data ready before migrating SAS objects



#### Communication

One big team with one goal



#### Snowflake development

Split up logic into manageable chunks



#### **SAS Viya Cadences**

Stable SAS Viya cadence during the modernization project



#### **Automation**

Automate or semi-automate migration and building activities



#### Collaboration with the business

Close collaboration with the business is essential to achieve a successful migration





Martin Gilje Sørbø



Kristin Chirica

## Thank you!













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