

# Streamline your data transformations with Analytics Engineering

How Agrico builds dashboards in no time



⌘ **DIGITAL  
POWER**

# Today's speakers



**Iga Jarosz**

Analytics Engineer  
Digital Power



**Jan Hoogenboom**

Finance & Control Manager  
Agrico



# Outline

What will we cover today?

1. Introduction Agrico
2. Introduction Digital Power
3. What do Analytics Engineers do?
4. Agrico's challenge
5. Our set-up, architecture & business context
6. What can you gain with Analytics Engineering?
7. Questions



Say potato,  
say **Agrico.**



### Cooperative

Our members (~1.500) grow seed potatoes and are both owners as well as suppliers



### International group

Active all over the world  
Turnover €375 million



### Research driven

We actively search for potato varieties with the best characteristics



### Employer of choice

~250 colleagues



# Who we are



# The challenges in today's world

....and how we cope with them

## Growing demand



Operational effort to optimize yields and increase acreage

## Growing conditions



R&D driven efforts to introduce new varieties suitable for different climates and applications

## Technology



ICT driven efforts to become data driven

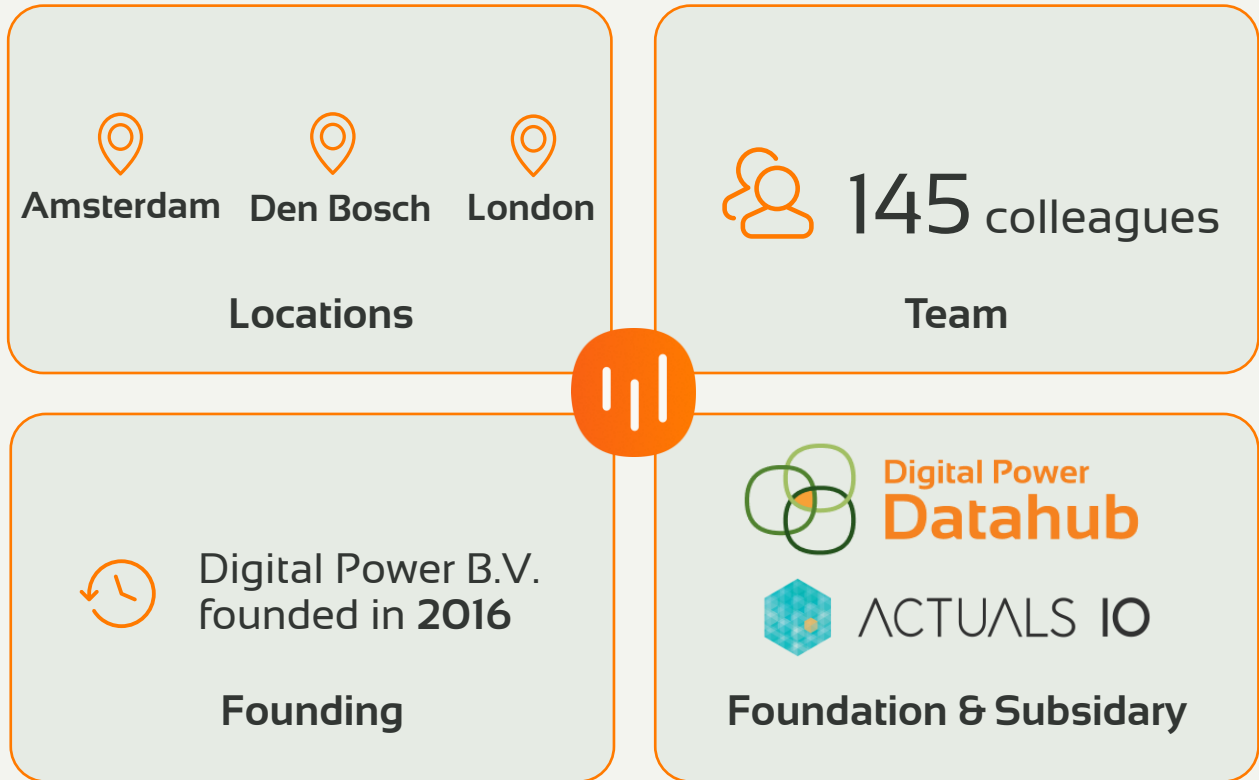


# Our goal is to seek "good growth"

....but what does that mean?



# About Digital Power

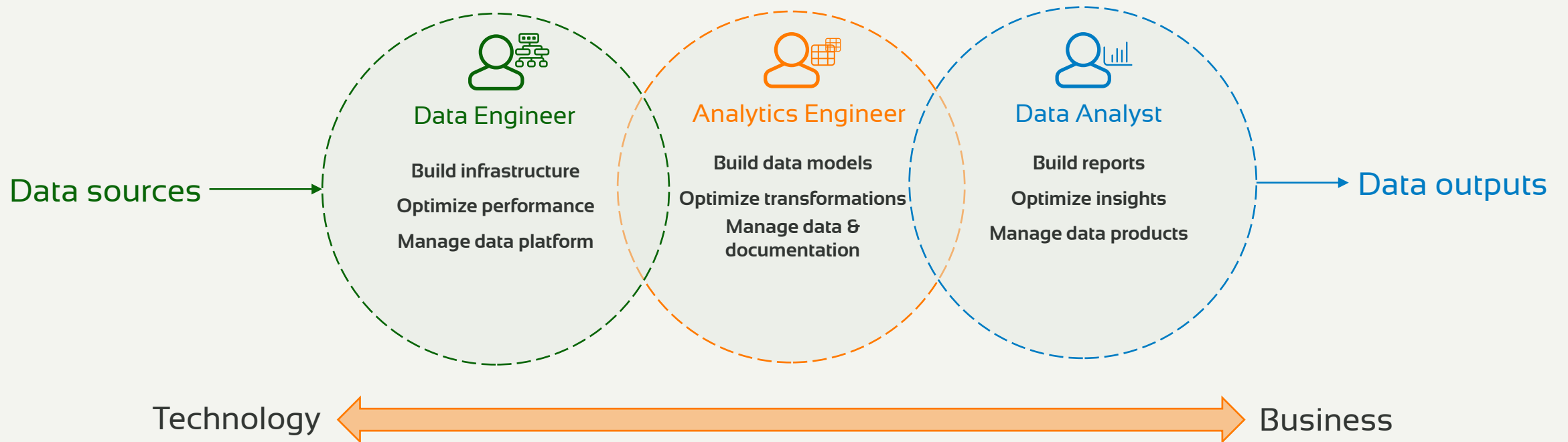


# About



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# What do Analytics Engineers do?



# The typical ERP<sup>1</sup> conditions do not apply

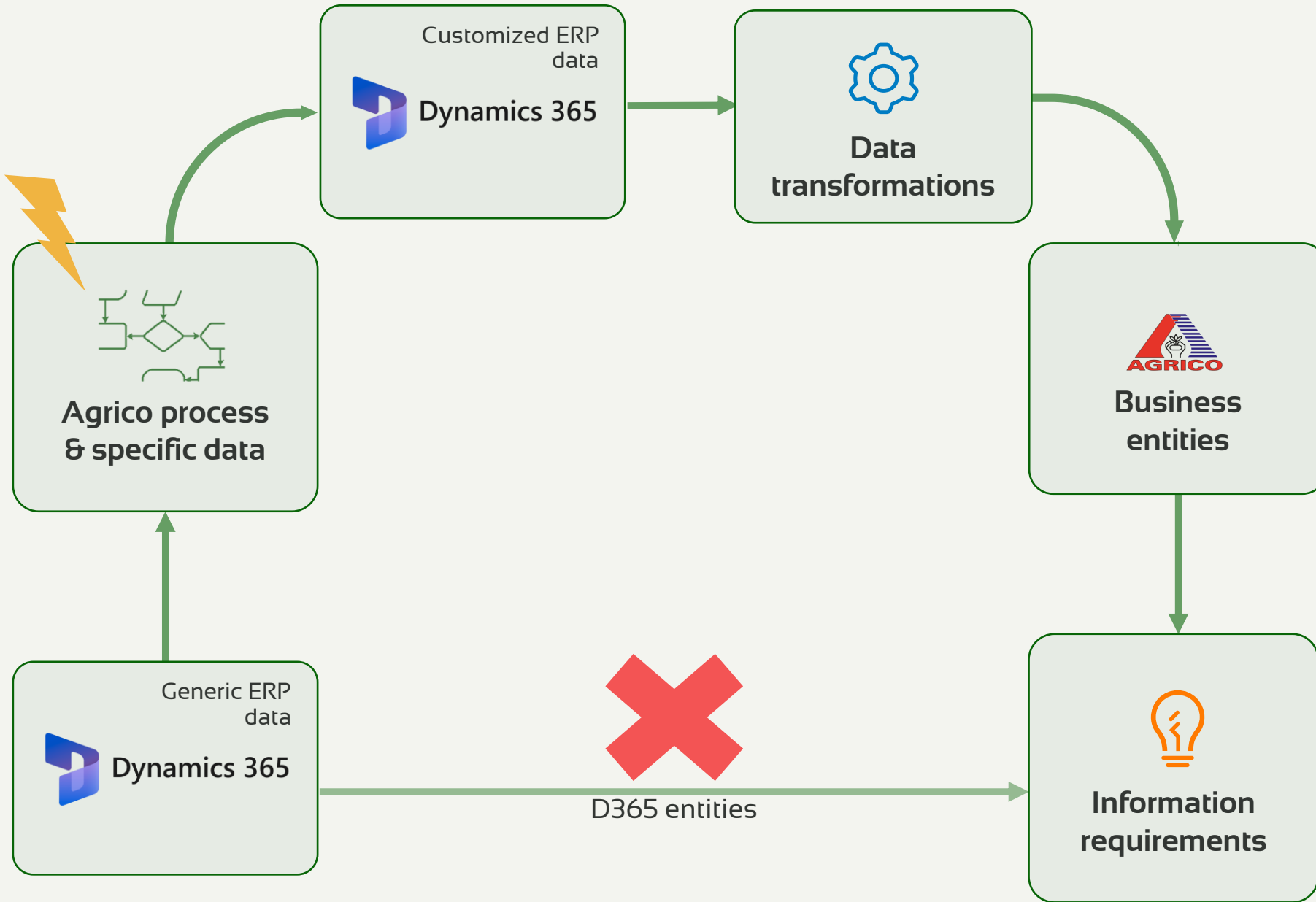
Our business and the processes applied are very different....

#	The typical ERP system	The situation at Agrico
1	Continuous process	Season based; production once a year
2	Article / product structure fixed	Same physical product, different exchangeable articles
3	Volumes / stocks known	Volumes / stocks estimated
4	Purchase prices known	Purchase prices determined at year end
5	Volume delivered = Volume invoiced	Volumes invoiced differs from volumes delivered ("Tarra")

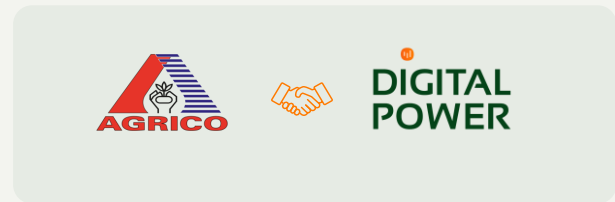


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1. ERP = Enterprise Resource Planning



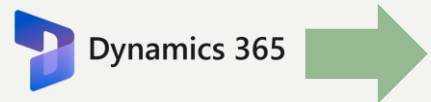
# Agrico's challenge



# Our set-up, architecture & business context

How do we address the  
challenge?





Supporting tools & services

Costs control Monitoring Key vault Version control **GitHub** Serving documentation

Business logic & transformations

**dbt**

Processing engine

**databricks**

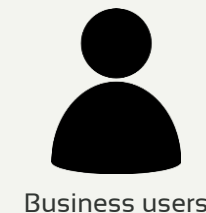
Raw data Intermediate data models Final data models

Azure

Landing zone bronze silver gold

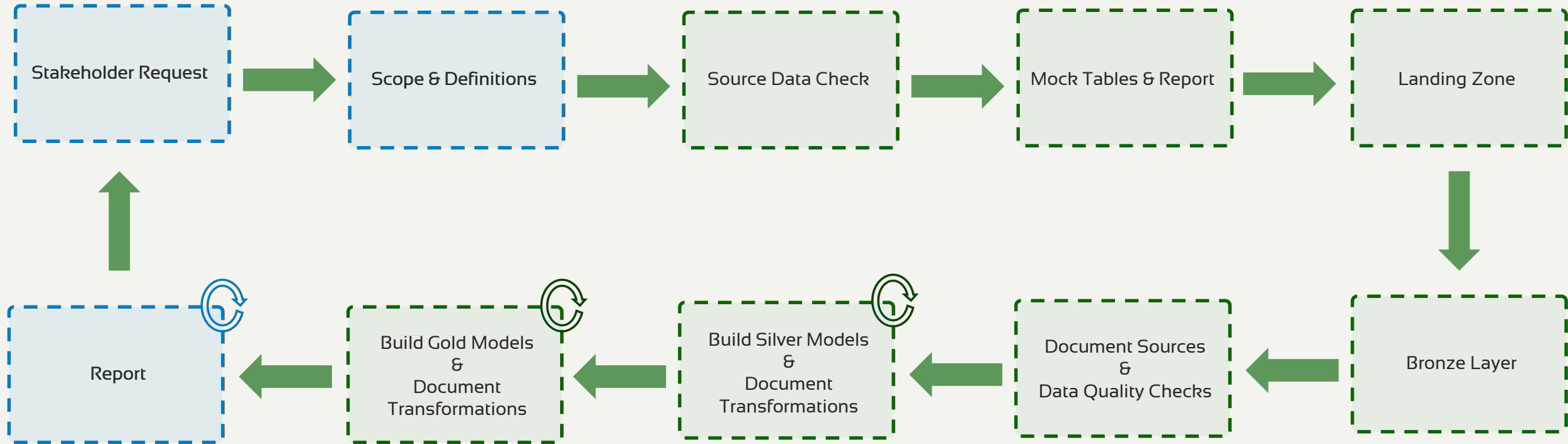
Serving

Power BI



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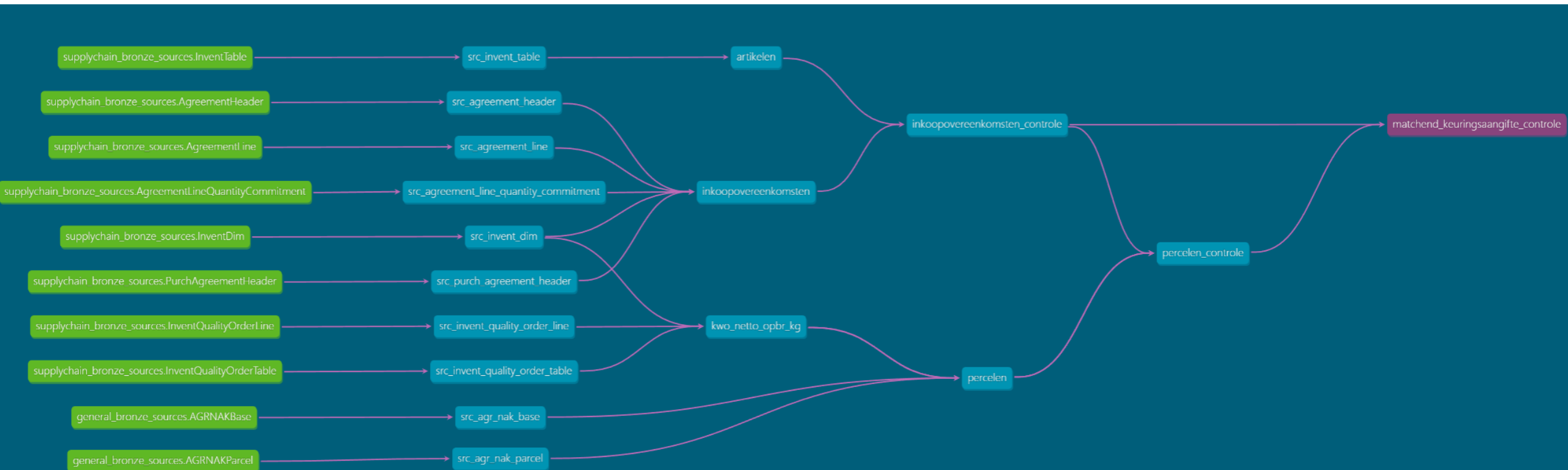
# General Workflow



# What can you gain with Analytics Engineering?



Improved Data Quality



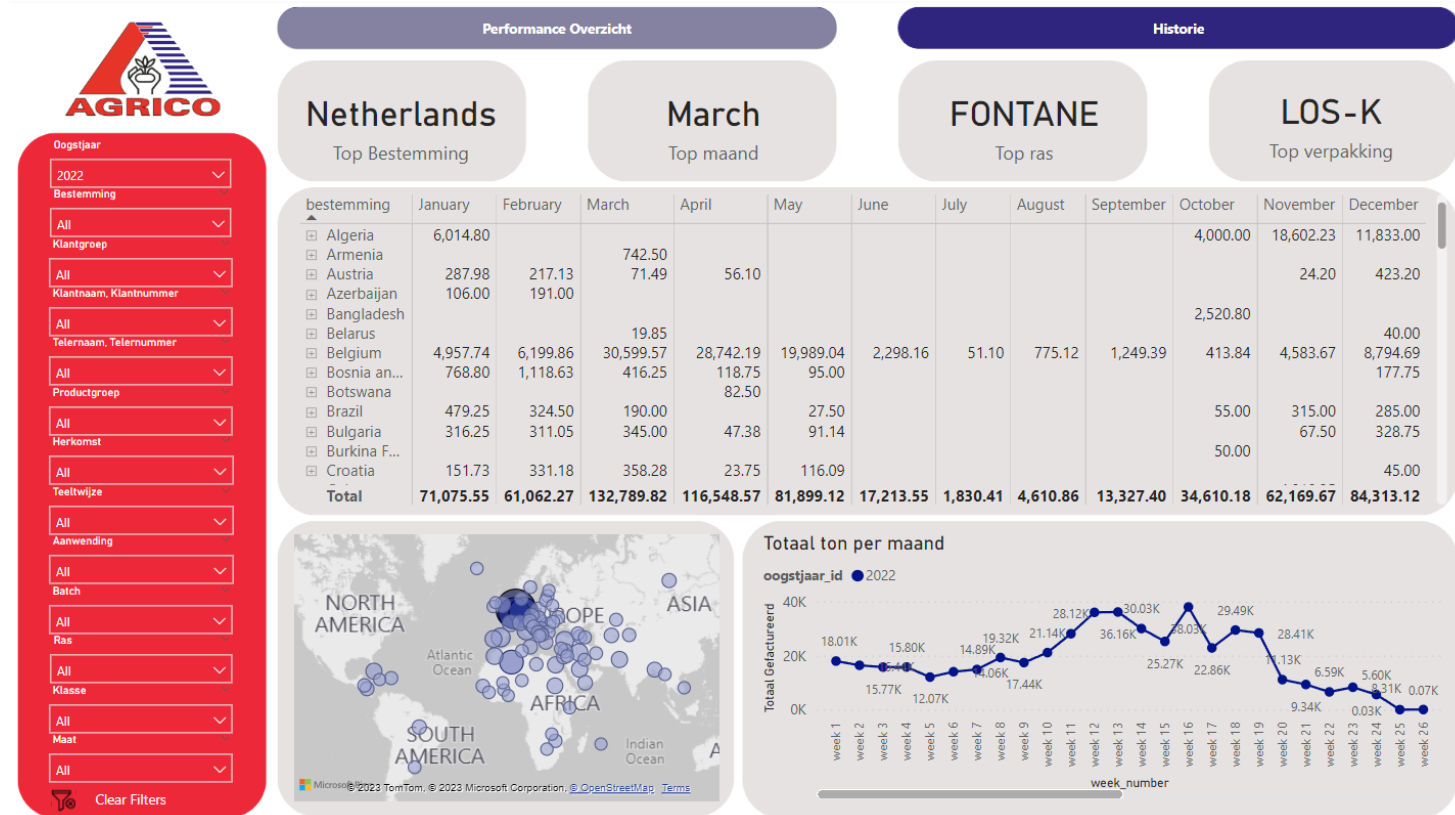
# What can you gain with Analytics Engineering?



Improved Data Quality



Faster Time-to-Insight



# What can you gain with Analytics Engineering?



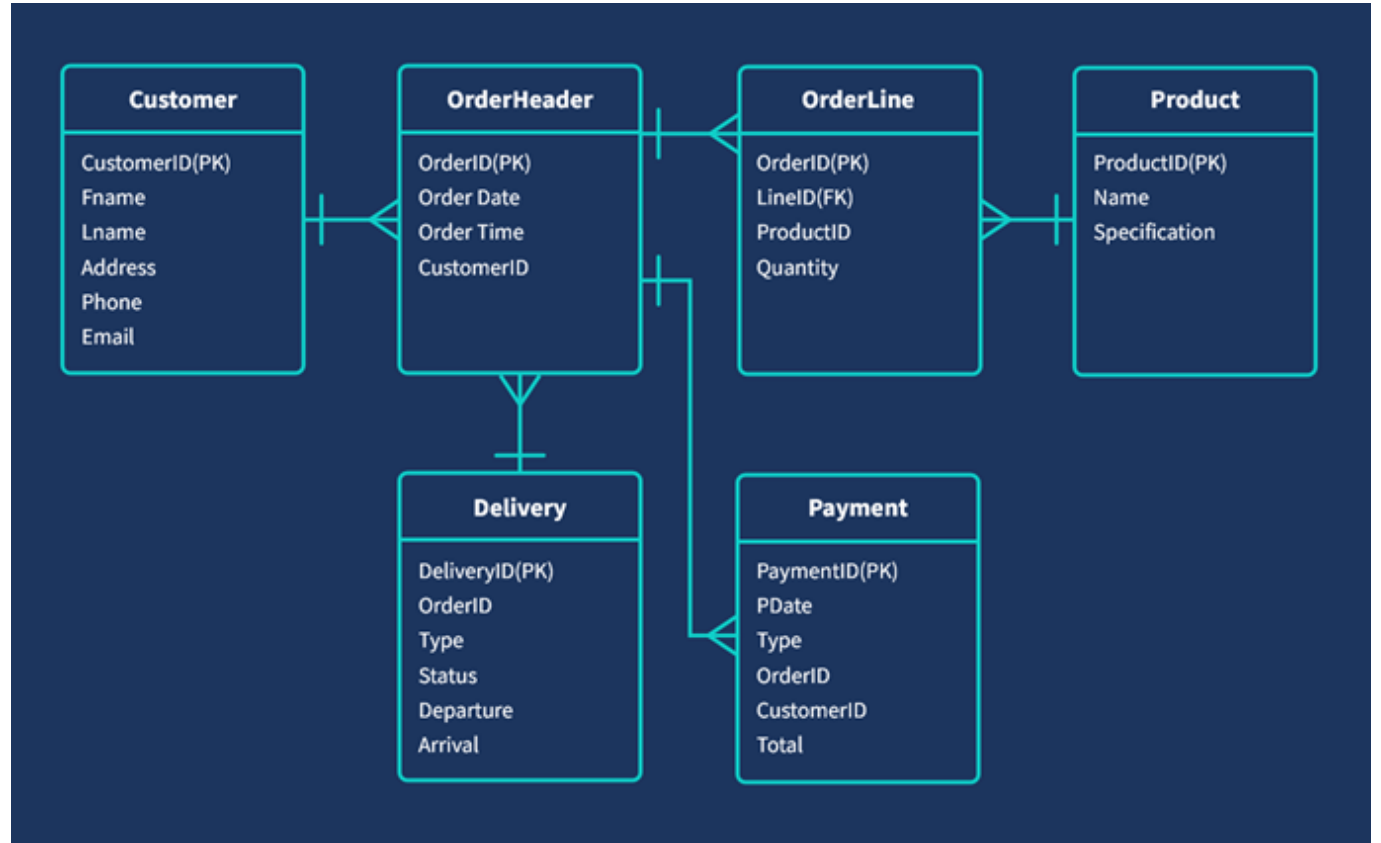
Improved Data Quality



Faster Time-to-Insight



Reproducibility & Documentation



# What can you gain with Analytics Engineering?



Improved Data Quality



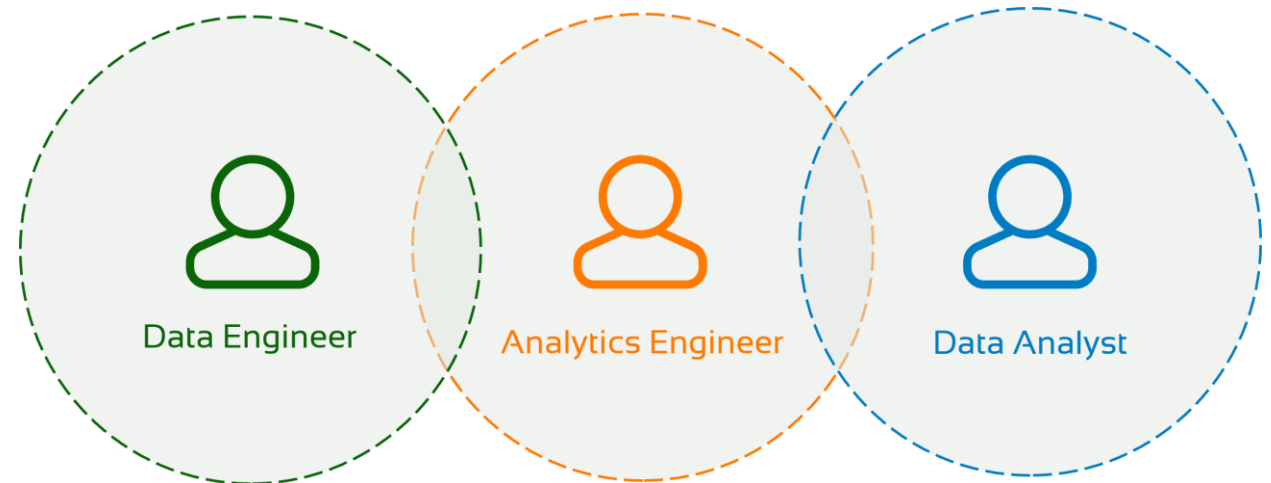
Faster Time-to-Insight



Reproducibility & Documentation



Collaboration & Communication



Scan  
to connect  
on LinkedIn



**Iga Jarosz**  
Analytics Engineer  
Digital Power



**Jan Hoogenboom**  
Finance & Control Manager  
Agrico



# Questions?

Rate our talk via MIE '24 app!



Analytics Engineers in their natural habitat