

# Avebe: Transformation to a data driven organization

Jan Spijkerman & Tom Wassink





## Content

About Jan, Tom & Avebe

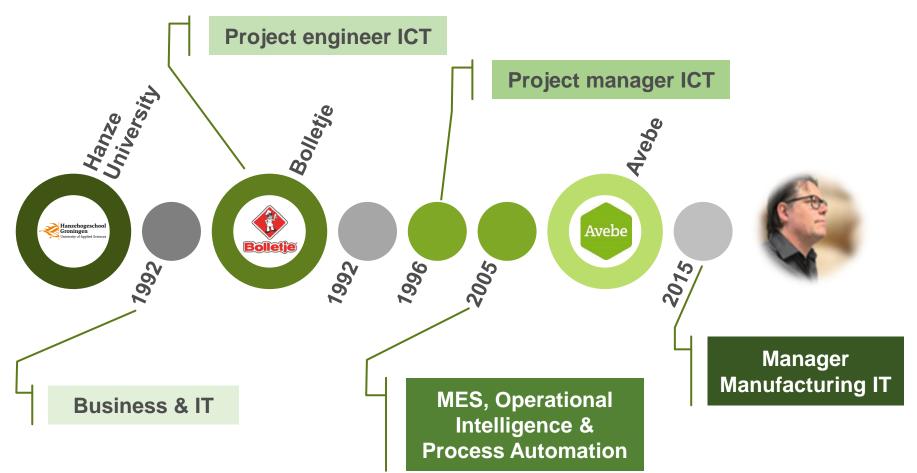
Our journey to a data driven organisation

PI introduction at Avebe

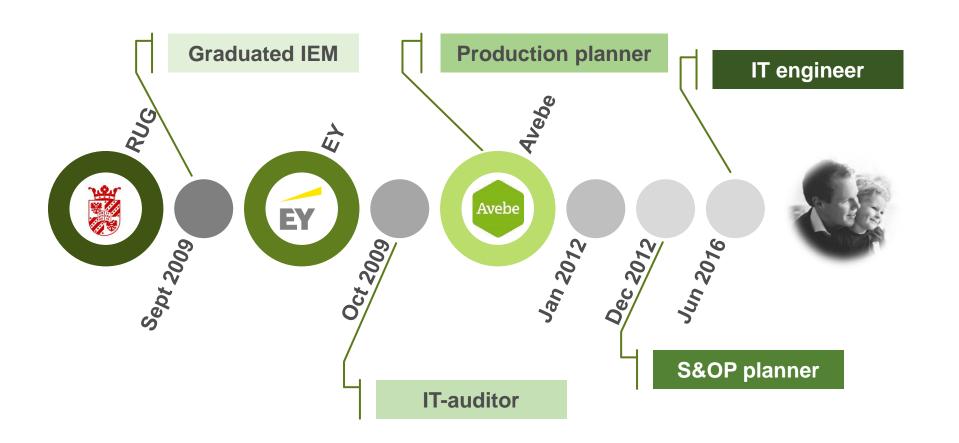
**Operations strategy: Factory 4.0** 

Use cases

### Jan Spijkerman

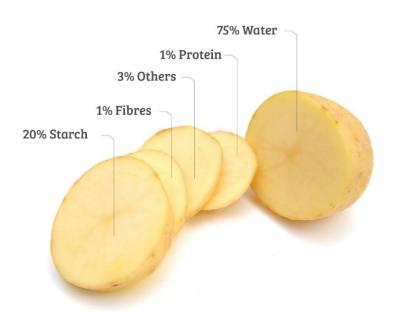


#### **Tom Wassink**









# We extract all valuable ingredients of the potato







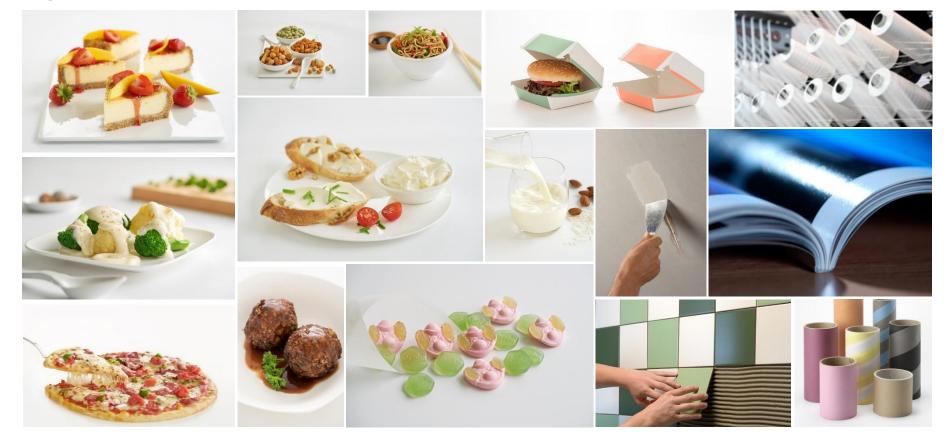








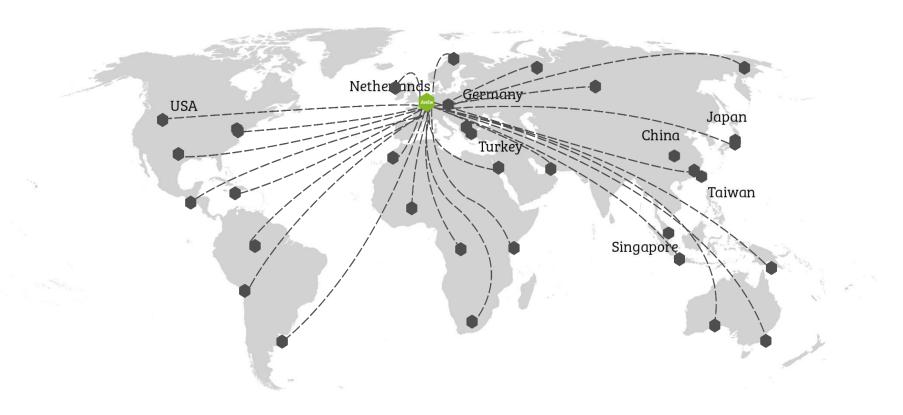
# Major player in the Food industry

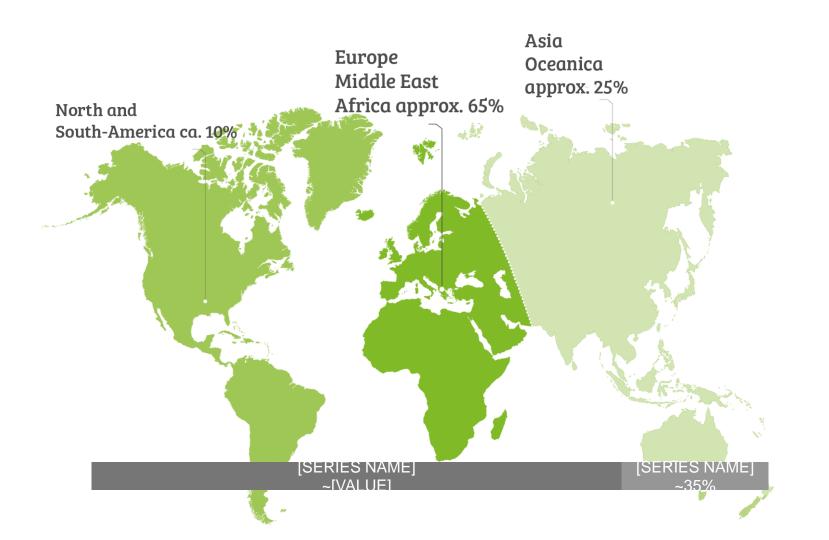


## **Sales offices**



## **Customers**







# Our journey to a data driven organisation

**Introduction of the PI system at Avebe** 

## **ERP** transition

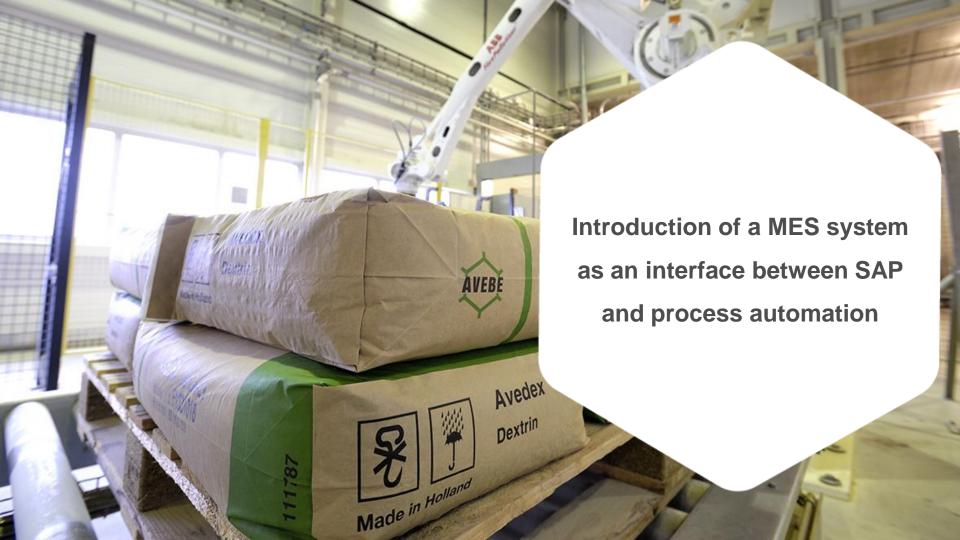
**FROM** 



TC

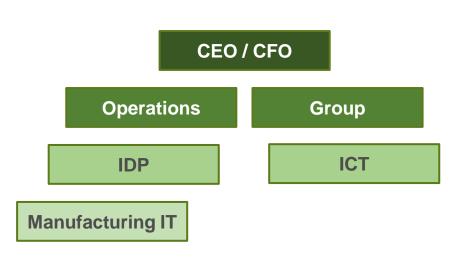


...interfaces with process automation gone...





# Manufacturing IT department



#### ICT:

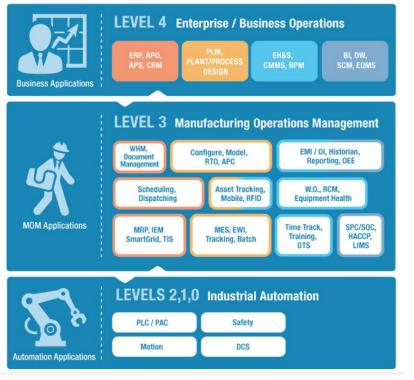
- Business application
- Infrastructure

#### **Manufacturing IT:**

- Manufacturing operations management applications
- Automation applications

#### MANUFACTURING OPERATIONS MANAGEMENT

Software / Application View











**Manufacturing IT** 



Rockwell Automation

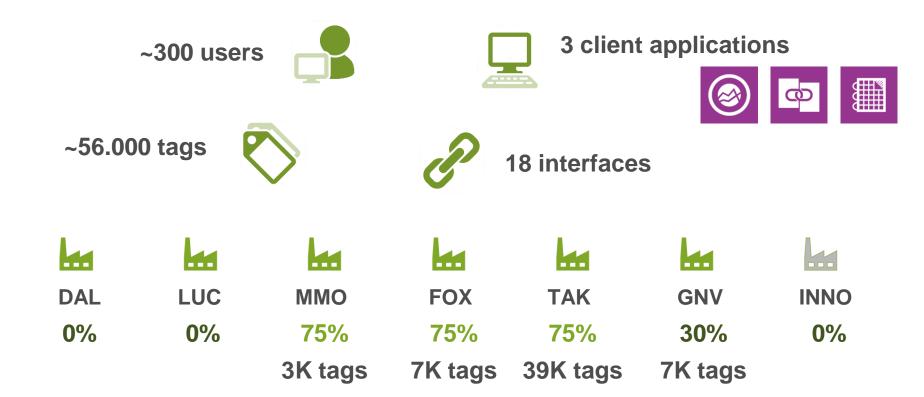








## **Current status PI system**

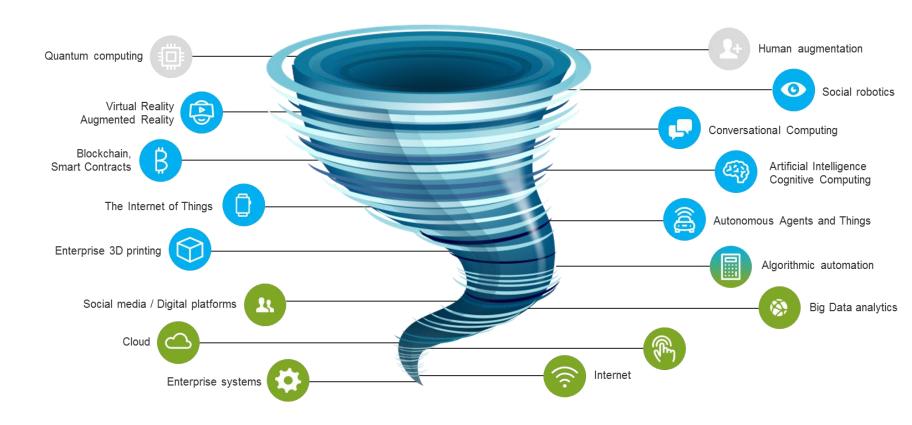




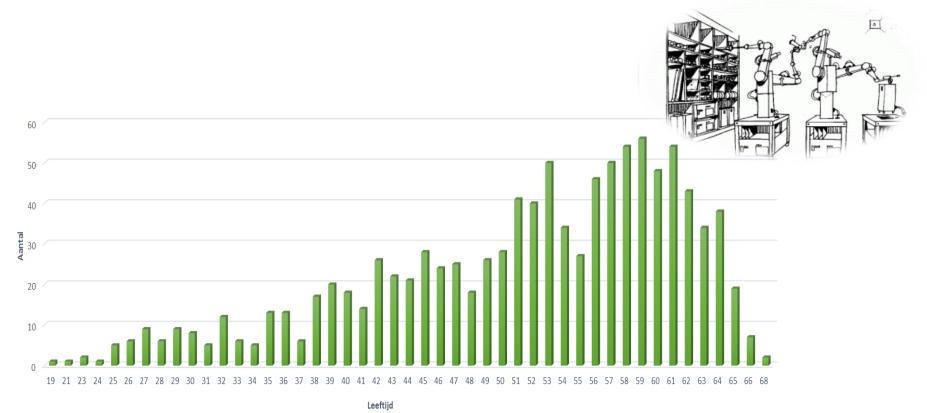
# Our journey to a data driven organisation

Avebe Factory4.0, Operations Strategy 2018 – 2023

# The technology storm is developing



# **Ageing of Avebe employees**



# **Avebe Factory4.0 - Business Drivers**

From average performance to **World Class Operations Management** 

Reduce operating costs



Reduce utilities usage



Reduce quality costs



Increase capacity



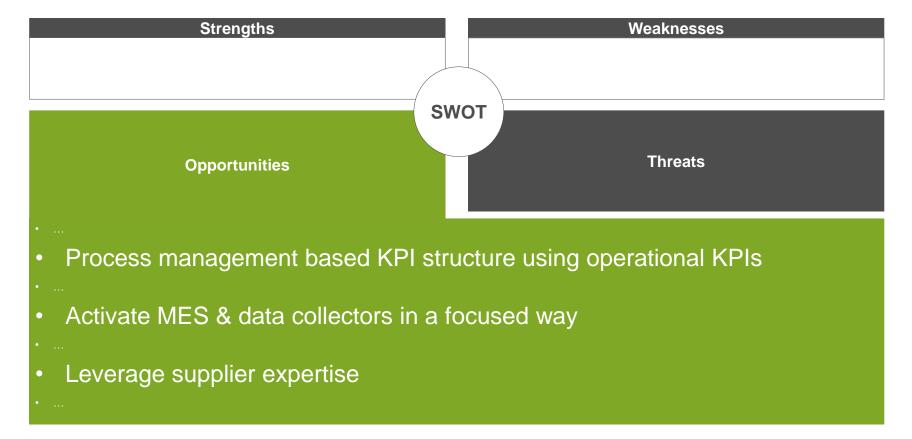
Increase throughput and yields



Reduce business risk



# **SWOT** analysis



## Main goal Factory 4.0: Transforming Avebe with data







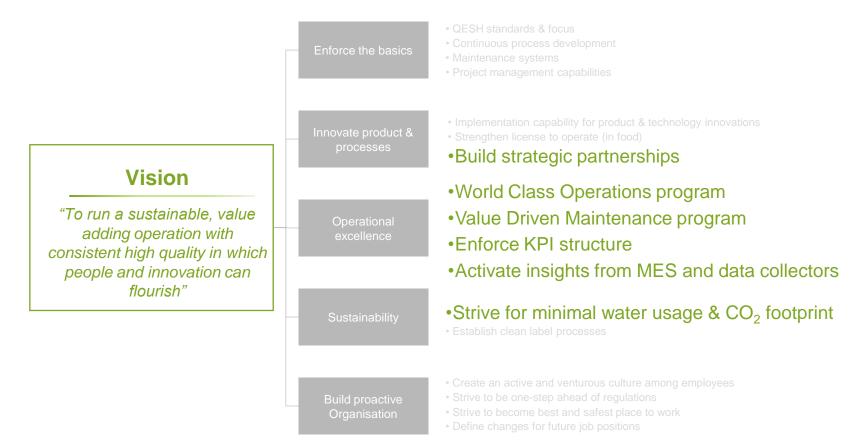


The accessibility of data is paramount for

# informed decision making

at all levels of business

#### The Operations strategy 2022 is founded on 5 main strategic pillars



# **Build Strategic Partnerships**









# **Use cases**

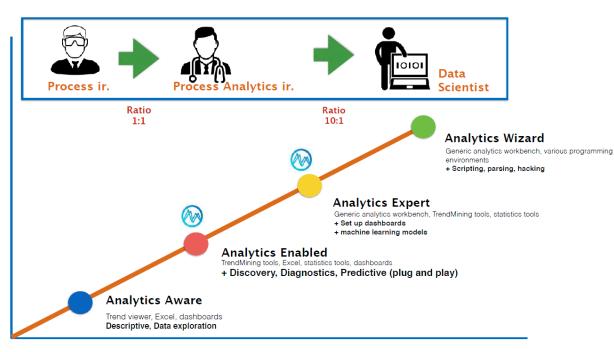
Training

Utilizing Asset Framework

Dashboards



# TrendMiner Corporate Explorer Program

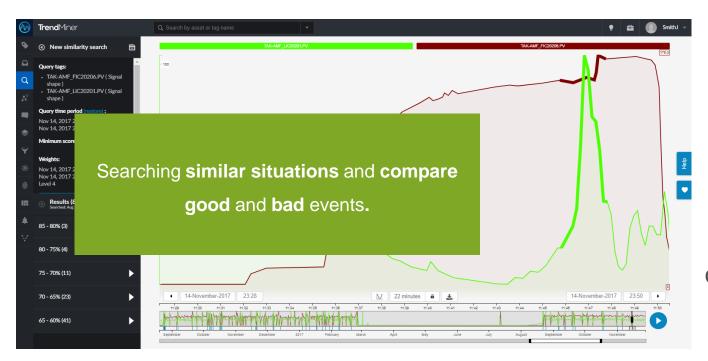


We have to develop the

next generation

process engineers

# TrendMiner in practice: Coagulation



#### Issue:

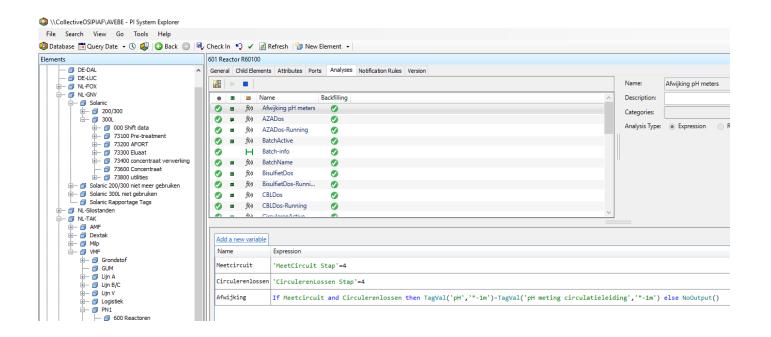
Valve opened to fast

#### Solution:

changing ramping in process automation

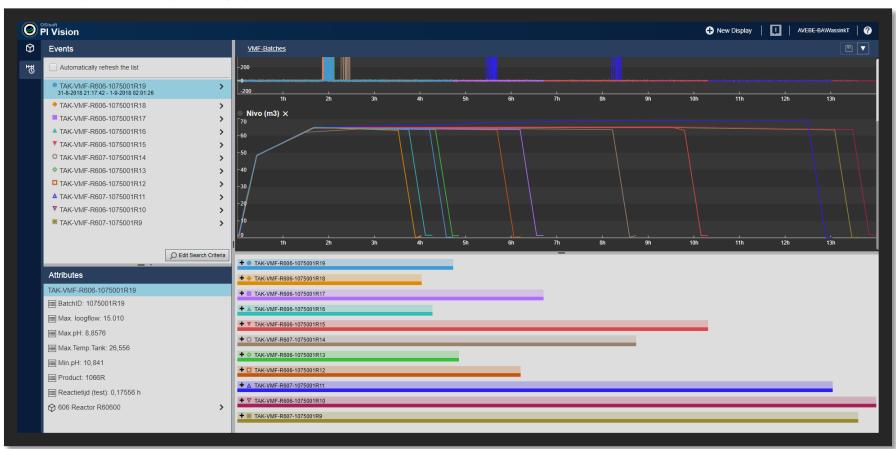


## **Utilizing the PI Asset Framework**



Calculations within PI AF

### **Event frames**





### **Production lines overview dashboard**

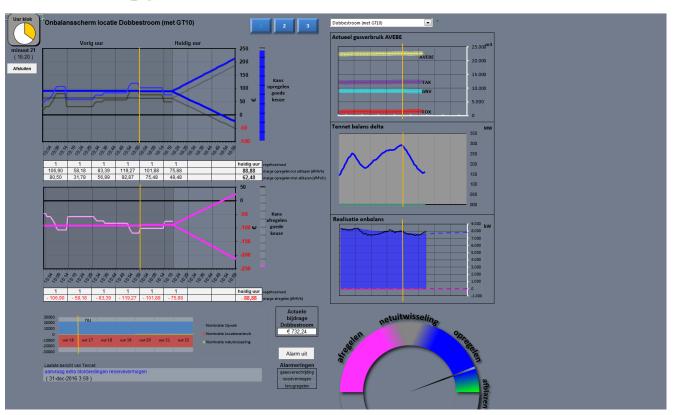


## **OEE - production line status dashboard**





## **Energy dashboard**

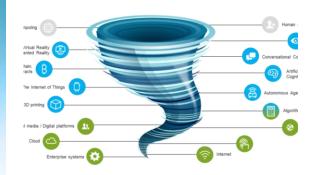


## Electricity monitoring and prediction

but still in excel...

## Avebe

Transformation to a data driven organization



#### CHALLENGE

The technology storm is developing

- More and more technologies coming available on the market
- Additional challenges with an ageing workforce: ~20% will retire within 5 years

#### SOLUTION

Avebe developed an operations strategy "Avebe Factory4.0"

 Main goal Factory4.0: Transforming Avebe with data

#### **RESULTS**

Strategic focus on getting value out of data

- TrendMiner Corporate Explorer Program
- WCOM program
- Value Driven Maintenance program



## Avebe: Transformation to a data driven organization



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- Coöperatie AVEBE U.A.
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## Questions?

Please wait for the **microphone** 

State your name & company

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# DZIĘKUJĘ CI S NGIYABONGA D TEŞEKKÜR EDERIM YY (IE TERIMA KASIH

**KEA LEBOHA** DANKON

KÖSZÖNÖM PAKMET CI3FE

БЛАГОДАРЯ

ТИ БЛАГОДАРАМ

TAK DANKE \$\frac{1}{2}\$

**MERCI** 

HATUR NUHUN

**OSI**soft.

MULŢUMESC

ESKERRIK ASKO

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ΕΥΧΑΡΙΣΤΩ GRATIAS TIBI **DANK JE** 

AČIŪ SALAMAT MAHALO IĀ 'OE TAKK SKAL DU HA

GRAZZI PAKKA PÉR

PAXMAT CAFA

CẨM ƠN BẠN

ありがとうございました
SIPAS JI WERE TERIMA KASIH
UA TSAUG RAU KOJ
ТИ БЛАГОДАРАМ
СИПОС

ДЗЯКУЙ

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