

**WE ARE
DIGITALS**

Bosch Digital_

KNIME@BOSCH

DataConnect Bengaluru

Sharath Suroju (BD/DPA-DAP1)

Atharv Paramane (BD/SWD-NLC2)





01

Who I am

Sharath Suroju (BD/DPA-DAP1)

Solution Architect for KNIME@BOSCH





02

Who we are

Who we are

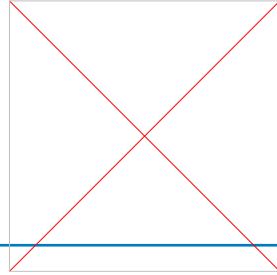
Our companies in figures

In 2025



91

billion euros
sales revenue



1.8

billion euros EBIT
from operations



412 400

Bosch associates
worldwide at year-end
(approx.)



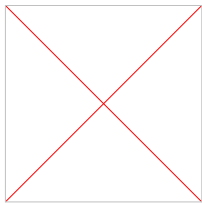
500

subsidiaries and regional
companies in more than
60 countries

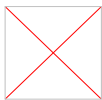
Who we are

Our company around the globe

In 2025



Europe



49%

share of sales



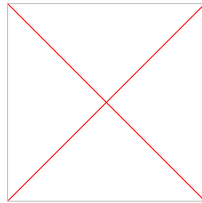
44.2bn

sales revenue

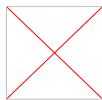


234,900

associates (approx.)



Asia Pacific*



31%

share of sales



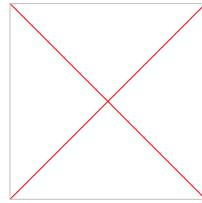
28.3bn

sales revenue



124,000

associates (approx.)



Americas



20%

share of sales



18.5bn

sales revenue



53,500

associates (approx.)

*including other regions

Who we are

Our business sectors



Mobility



Industrial Technology



**Energy and Building
Technology**



Consumer Goods

Bosch Digital_

**OUR COMMITMENT
TO BEST-IN-CLASS IT
IS SECURING OUR
FUTURE – A FUTURE
DRIVEN BY AUTOMATION,
DATA, AND AI.**



BD KNIME Team

We are a very international team



KNIME@BOSCH

The World of KNIME inside BOSCH



> 7,800 AP Installations

The rollout of 5.5.1 has just finished and every user can use the latest LTS.



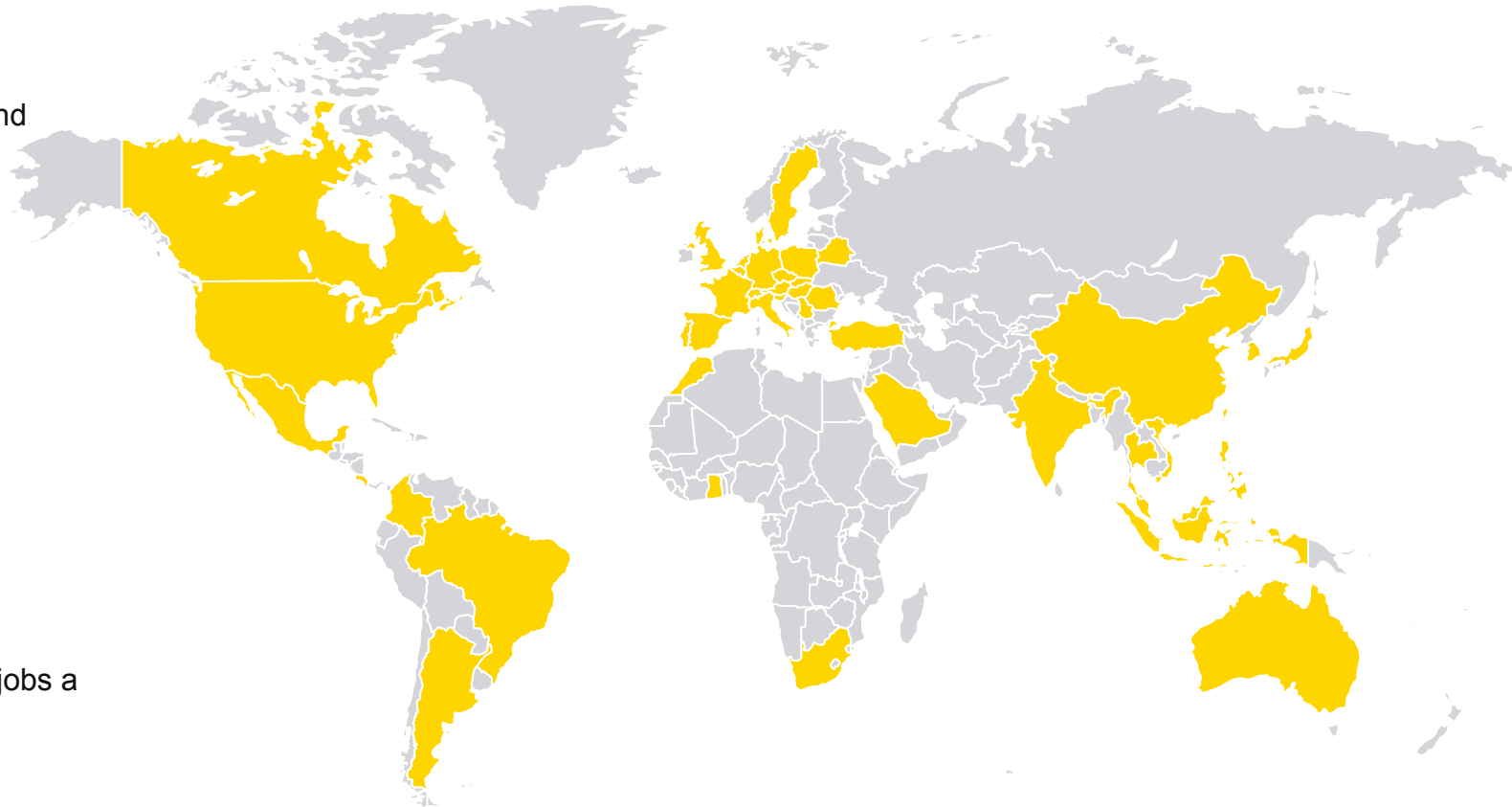
> 2,800 Developers

Developers are around the World located on every continent.



> 18,000 Jobs each day

The current environment runs 18.000 jobs a day, 750 jobs/hour -->12 jobs/minute



Atharv Paramane(BD/SWD-NLC2)
Senior Software Engineer @BOSCH





Validate Bosch Plant's SAP Migration to new Tech

Migration Process

Overview Conditions and Goal

Overview

It involves an output file comparison of the old and new systems

Excel formulas and macros were used to generate the output file.

Which is then compared with the old system's output file.

Conditions

It was done in the **dark phase** of the plants.

It takes 12 Hours to complete the validation for a single plant.

It was usually prone to human errors.

Goal

It is to eliminate the manual validation process used for SAP migration(R3 to S4 Hanna)

It is to eliminate the **dark phase**

Bosch Digital

From Manual Validation to One Guided Workflow

BEFORE • MANUAL

Spreadsheet-driven validation

Excel formulas + macros + manual comparison

12 h

end-to-end execution

2 FTE/Plant

manual effort

Dark phase

no production

High risk

errors & handoffs

~ € 3K /year /Plant

recurring



AFTER • AUTOMATED

One guided workflow

Standardized from input to validated output

~6 min

one flow

0 FTE

automated workflow
execution

**Lower dark
phase**

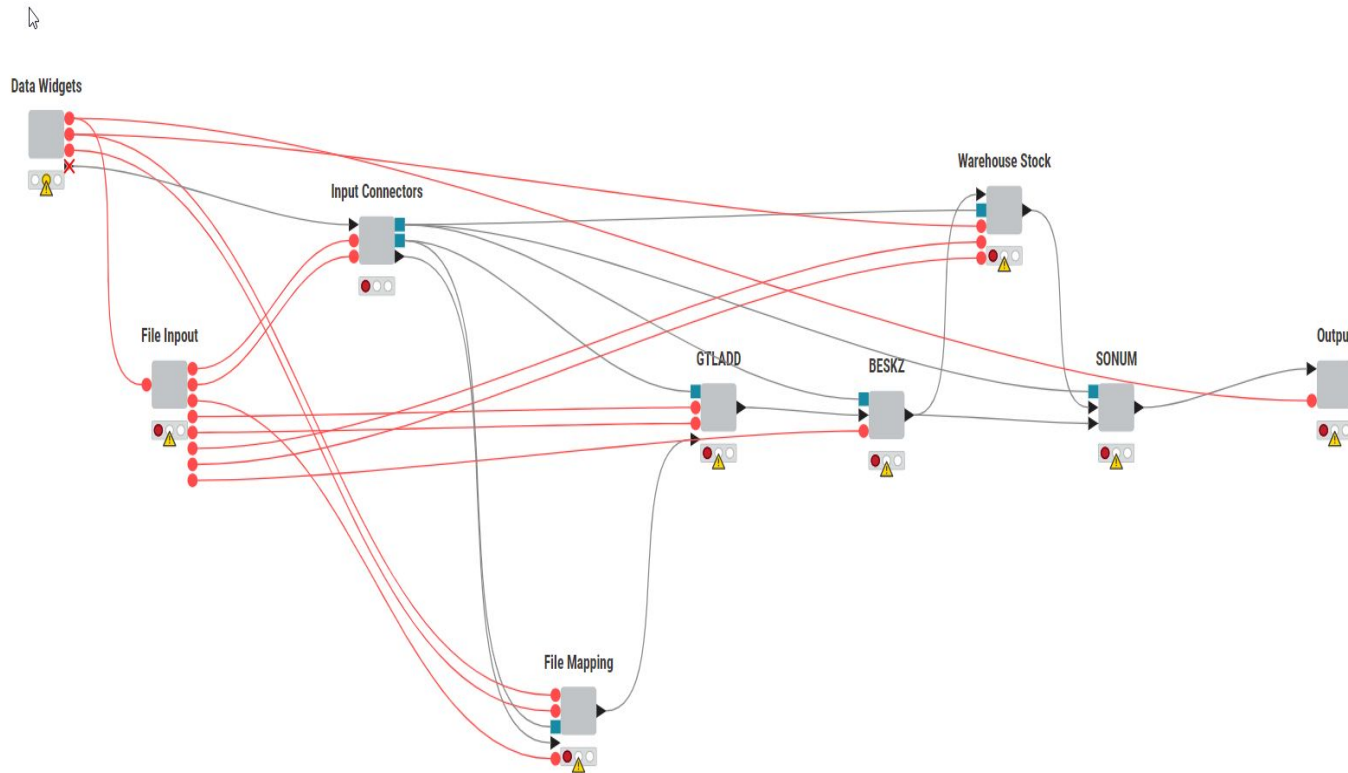
more production

Low risk

repeatable checks

**~ € 0 /year /Plant
~ € 15K onetime cost**

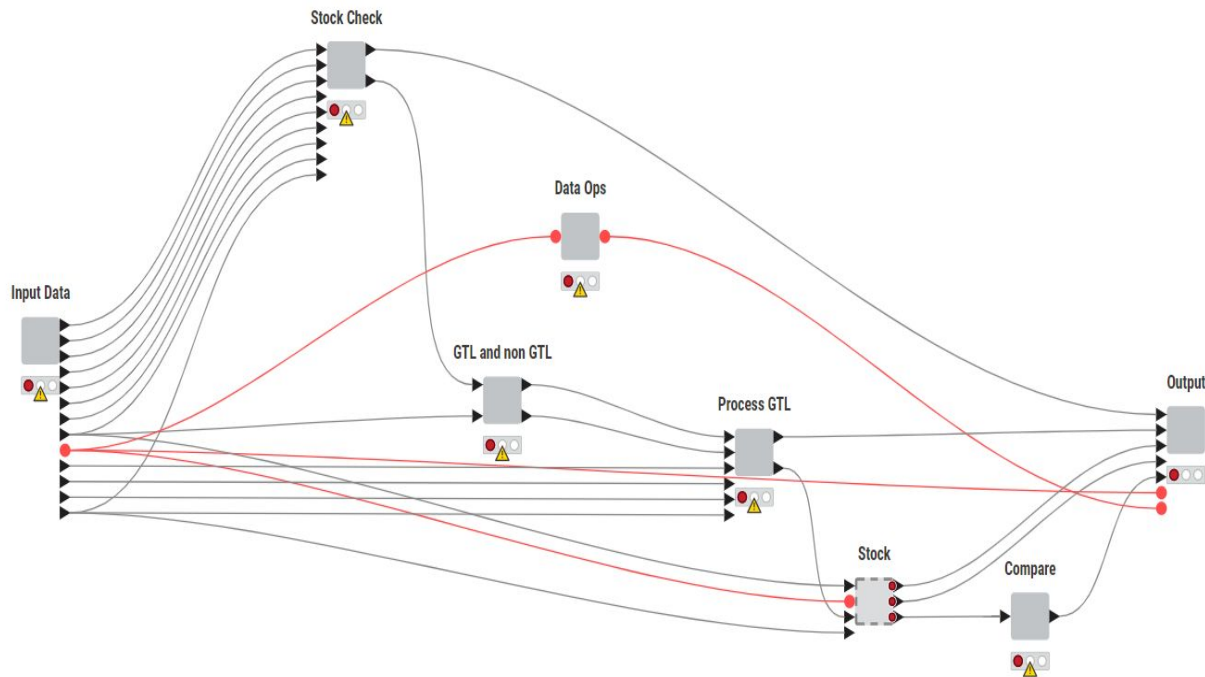
Automation Preload Workflow



- 100+ KNIME Nodes
- Authenticators
- File Handlers
- Data Processors
- Millions of rows of data is processed

Automation

Post Load Workflow



- 100+ KNIME Nodes
- Authenticators
- File Handlers
- Data Processors
- Millions of rows of data is processed

SAP Migration

Result of this Automation

What We Delivered

-  Preload: ~3 minutes
-  Post load: ~3 minutes
-  Total: ~6 minutes

Impact

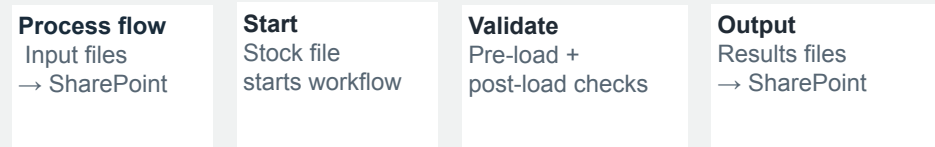
- ~95%+ reduction in execution time
- Faster validation cycles
- Immediate feedback & quicker decision-making

Application highlights

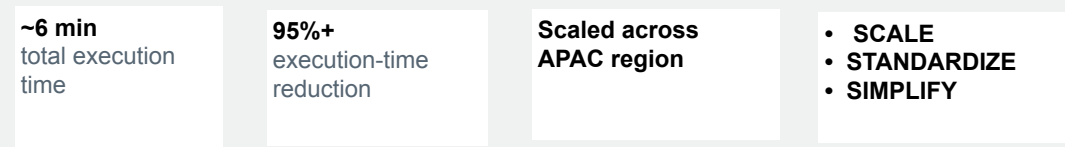
- Hosted on KNIME Hub
- No additional cost
- Data App for User Interface
- Easy file handling both input and output

Bosch Digital Impact and Business Value

Process flow



Highlights



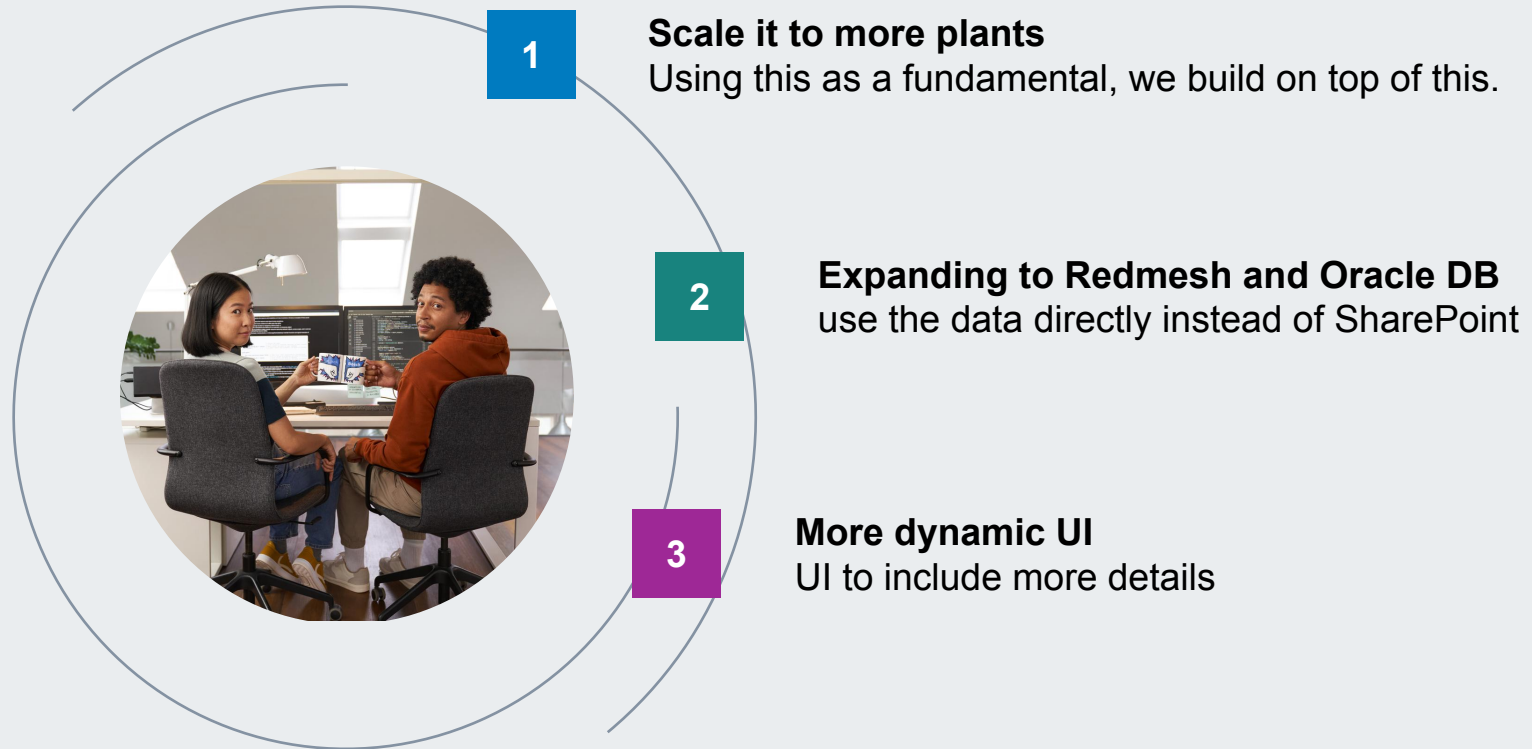
What we delivered

Automated validation	Pre-load + post-load checks
Guided experience	Simple plant / system selection
Integrated file flow	SharePoint input & output
Scalable processing	Built for millions of rows

Business impact

Faster validation	Shorter dark phase
Reduced downtime	More production time
Higher availability	More revenue potential
Fewer errors	Avoid downstream costs

SAP Migration Next Steps



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Thank you!

