



Productionizing Data Analytics on **KNIME Business Hub**

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- 2 Why did Infineon start with KNIME
- 3 Start of the KNIME Journey with the Server
- 4 Productionizing Data Analytics on KNIME Business Hub
- 5 Where are we now? Were our initial assumptions met?
- 6 Where we want to go

Infineon at a glance

Driving decarbonization and digitalization. Together.



Semiconductors are crucial to solve the energy challenges of our time and shape the digital transformation.

This is why Infineon is committed to actively driving decarbonization and digitalization.

As a global semiconductor leader in power systems and IoT, we enable game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT.

We make life easier, safer, and greener.
Together with our customers and partners.
For a better tomorrow.

Infineon at a glance

Growth areas



Energy
green and efficient

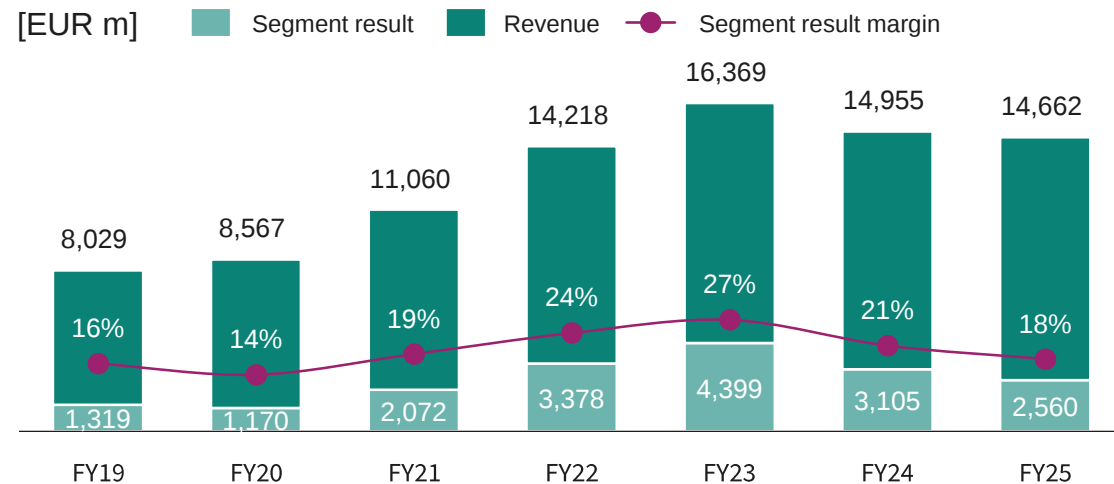


Mobility
clean and safe



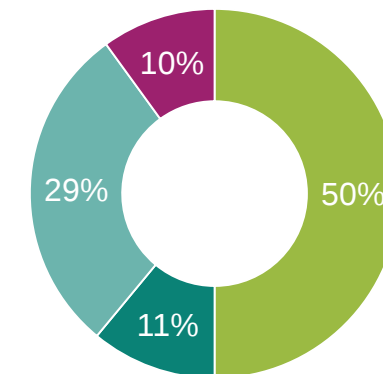
IoT
smart and secure

Financials



FY25 revenue by segment¹

- Automotive (ATV)
- Green Industrial Power (GIP)
- Power & Sensor Systems (PSS)
- Connected Secure Systems (CSS)

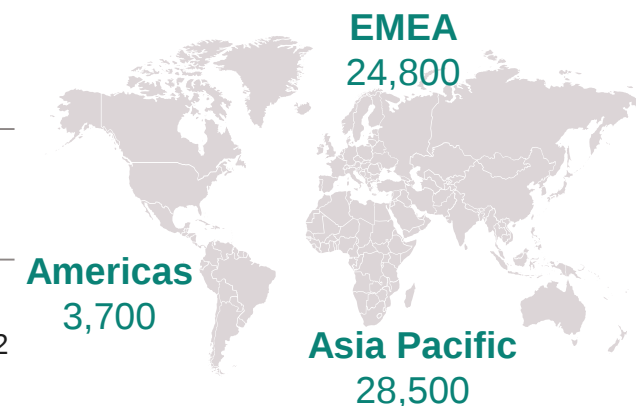


Employees¹

57,000
employees worldwide

75
R&D and

14
manufacturing locations²



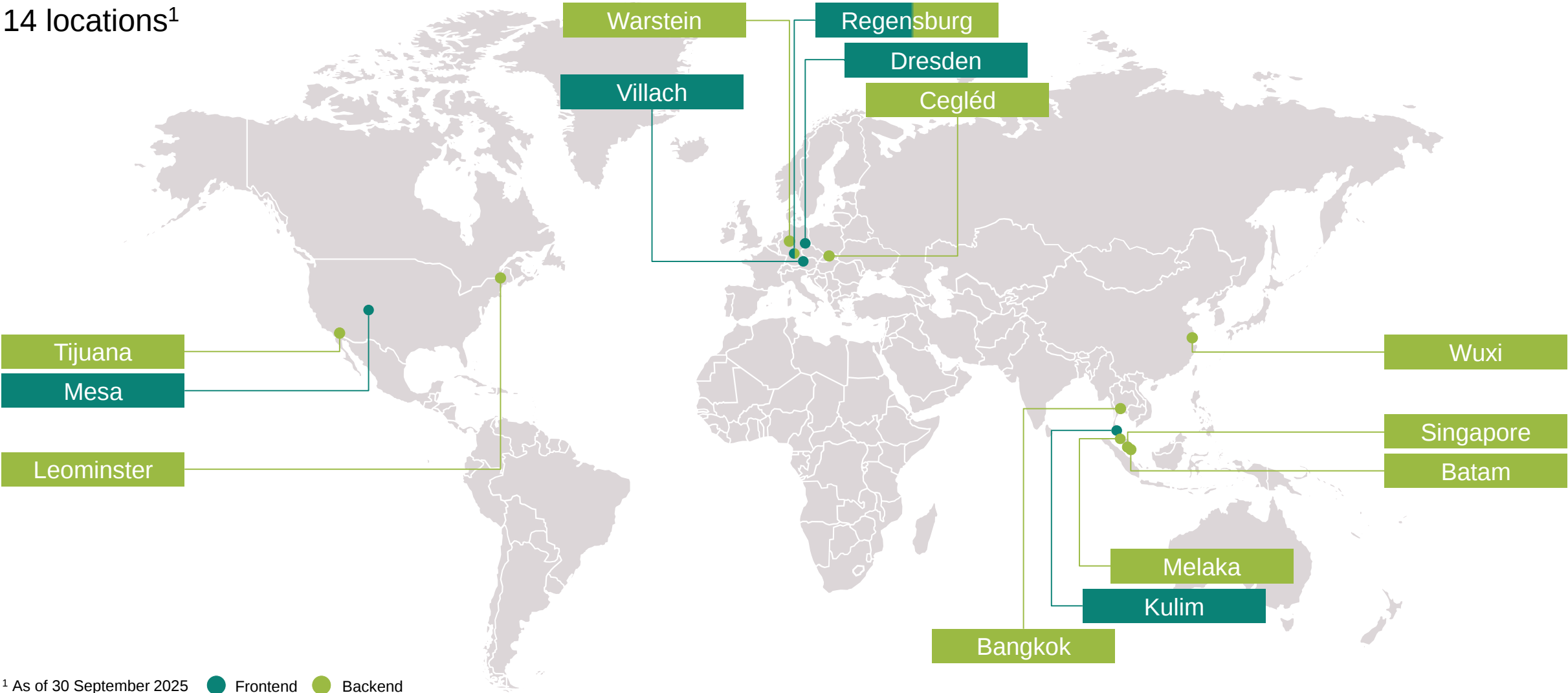
For further information: [Infineon Annual Report](#).

¹ 2025 Fiscal year (as of 30 September 2025) | ² As of 30 September 2025

Infineon is globally positioned with its network of Frontend and Backend manufacturing facilities



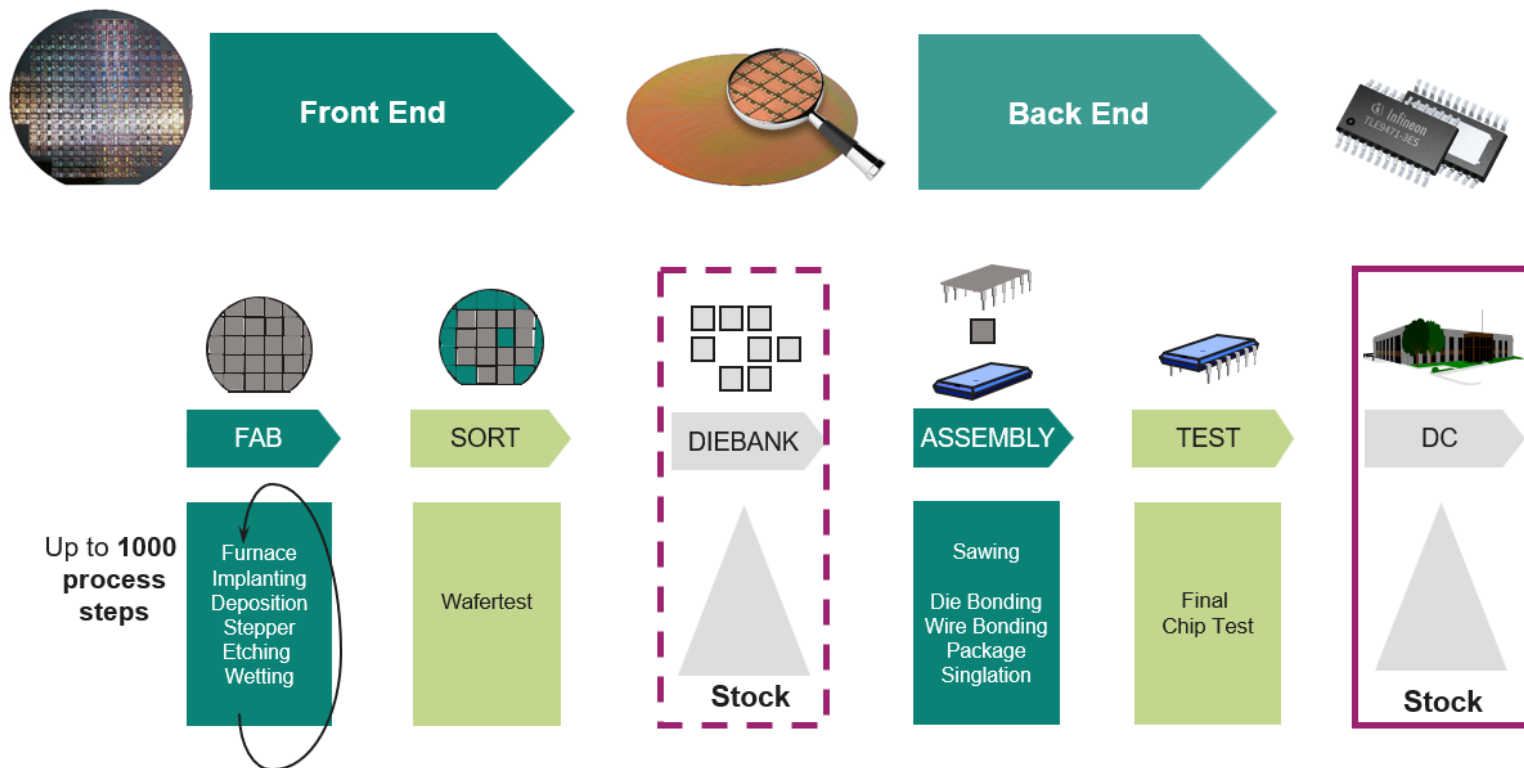
14 locations¹



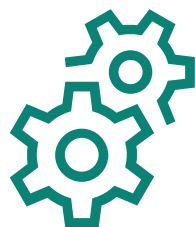
¹ As of 30 September 2025 ● Frontend ● Backend

Why did Infineon start with KNIME

Data Analysis in Semiconductor Manufacturing



Data Generation at Each Process Step



- Metrology data, e.g. layer thickness, defect density, ...
- Equipment data, e.g. alarm logs, sensor data
- MES data, e.g. lot move data, booking data
- El. Test data

Data Analysis Challenges

- Some data are very well structured, standardized and organized
- Some data are less organized
- Many different data base systems
- In house and external production sites
- Root cause tracing from BE to FE

What were the main benefits Infineon expected by choosing KNIME



› Higher independency from IT projects on user side

Rapid prototyping of solutions

High flexibility to develop solutions on the fly



› Broader community can develop data analysis solutions

Due to low code concept both experts and beginners can develop solutions on the same platform



› Easy deployment via KNIME server/KNIME hub

Make results available easily for other users

Accelerate innovation by making it available on a broader basis



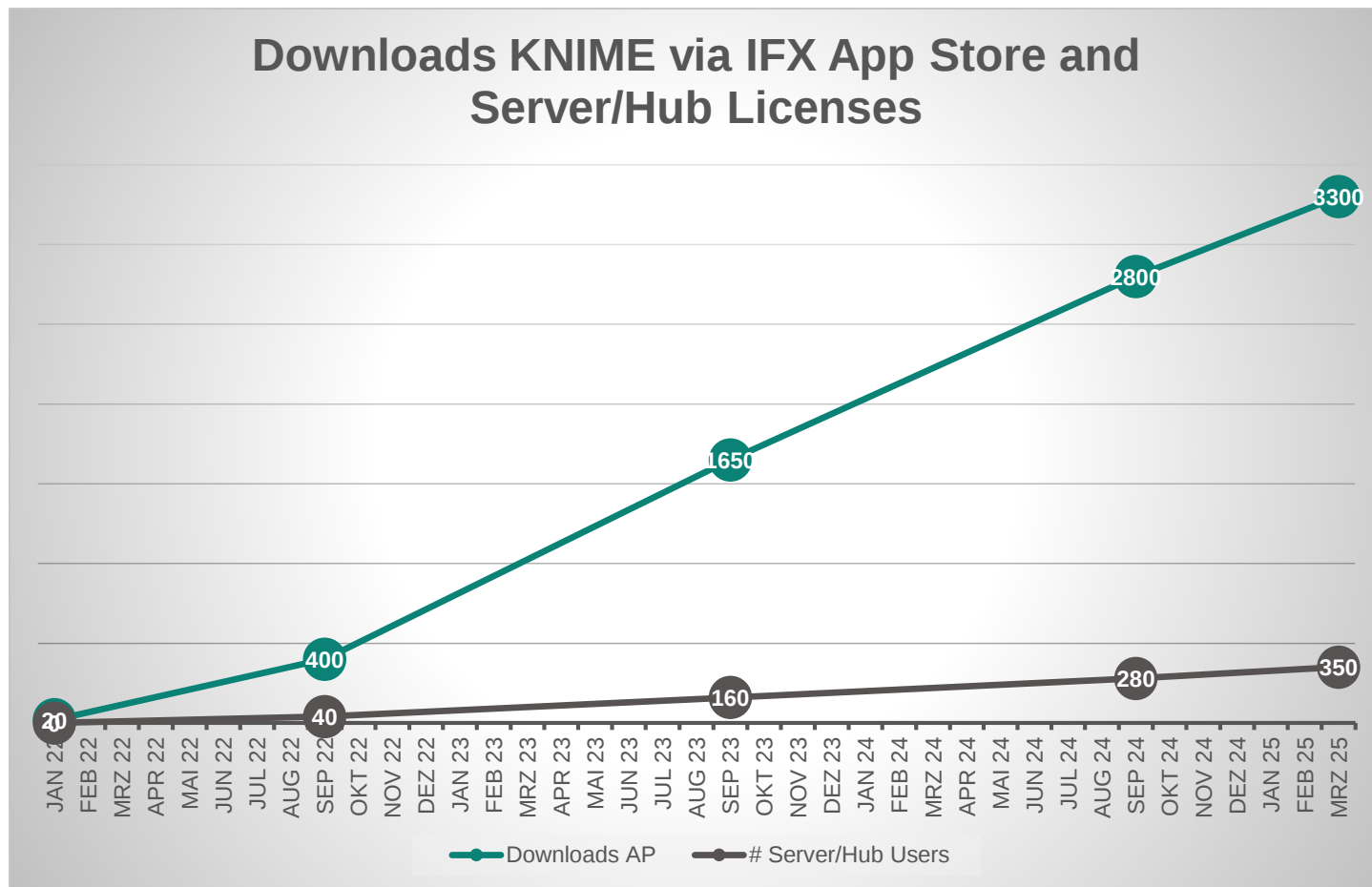
› Easier access to data via data virtualization concept

› (additional tool introduced together with KNIME)

One central access point for data

Start of the KNIME Journey with the Server

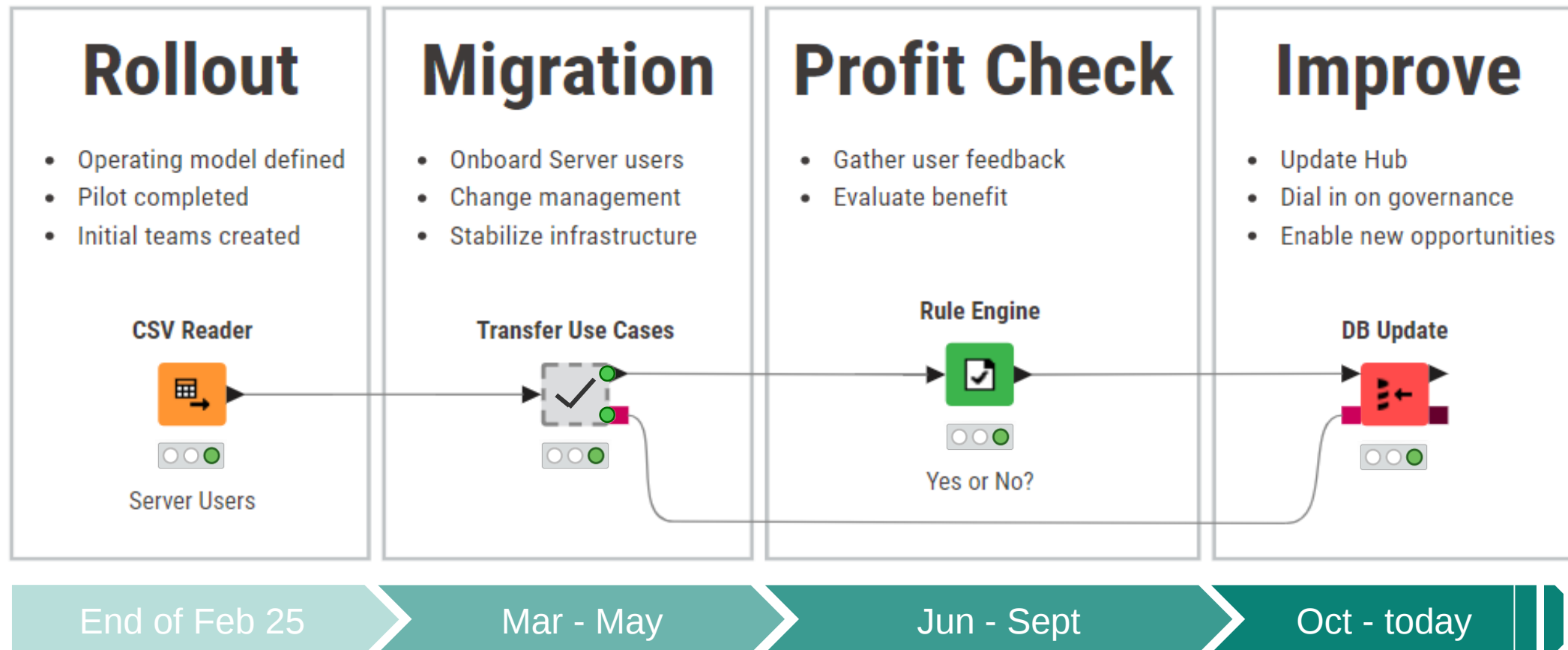
KNIME @ IFX, A Look Back At the Start of the Journey



- In first year after introduction infrastructure was established
- Since then a constant increase of user numbers of the AP and the server could be observed

Productionizing Data Analytics on KNIME Business Hub

Our KNIME Business Hub Journey



Getting Ready For Rollout

Define Operating Model

- Team structure
- Rights, rules and tasks
- Ownership
- Use case life cycle

Identify Champions

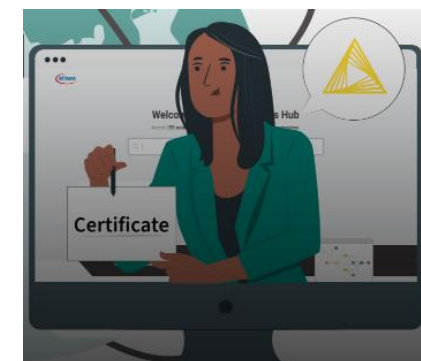
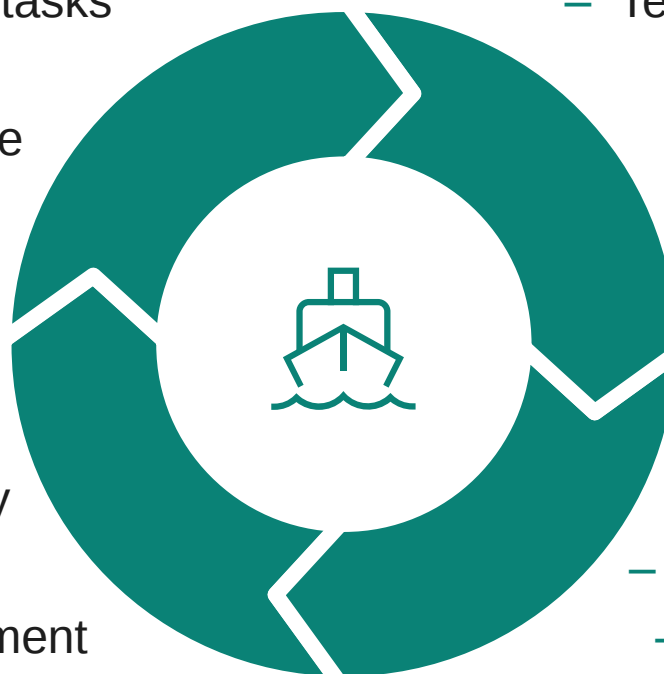
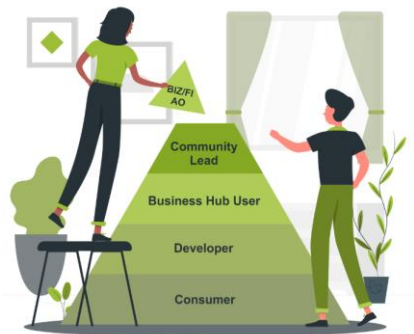
- User selection
- Team lead commitment
- Training

Communication

- Develop company specific training
- Change management
- Support

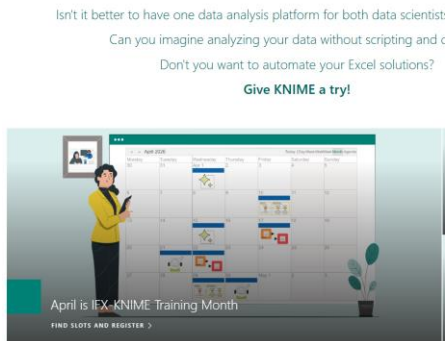
Pilot

- Prep infrastructure
- Onboard champions
- Acceptance testing



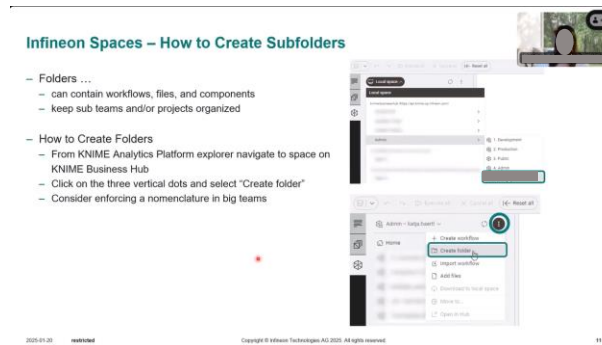
Migration KNIME Server to KNIME Business Hub

Trainings



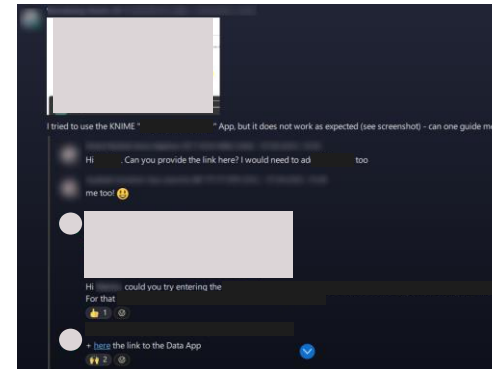
- Videos
- Guidelines
- Sessions

Consultancy



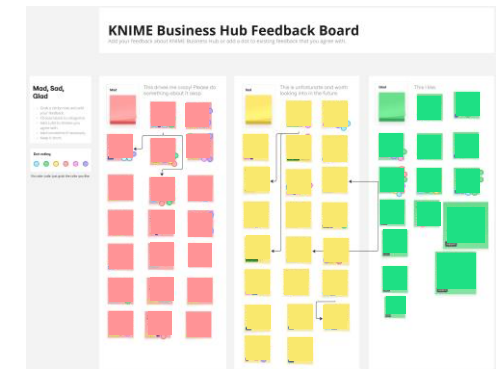
- Daily slots
- Open door policy

Communication



- Chat
- Email
- Forum

Feedback



- Collect
- Acknowledge
- Respond
- Be accountable

Migration Highlights and Challenges

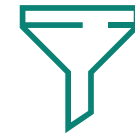
Highlights

- Community and key user support
- Speed of adoption
- Increased collaboration
- Improved knowledge sharing
- Options for customization



Challenges

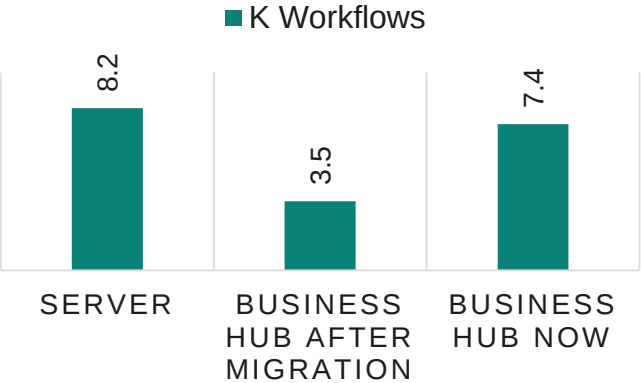
- Scaling the Infrastructure
- Role management
- Tackling workflows of doom
- Cleaning out the server
- Governing the Hub



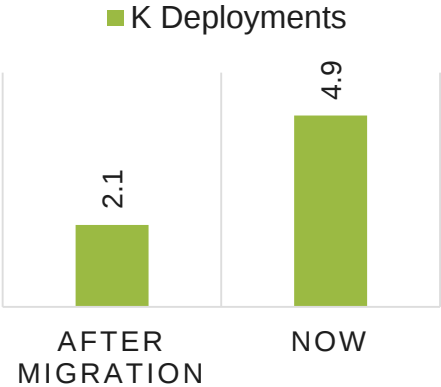
Where are we now? Were our initial assumptions met?

KPIs Business Hub

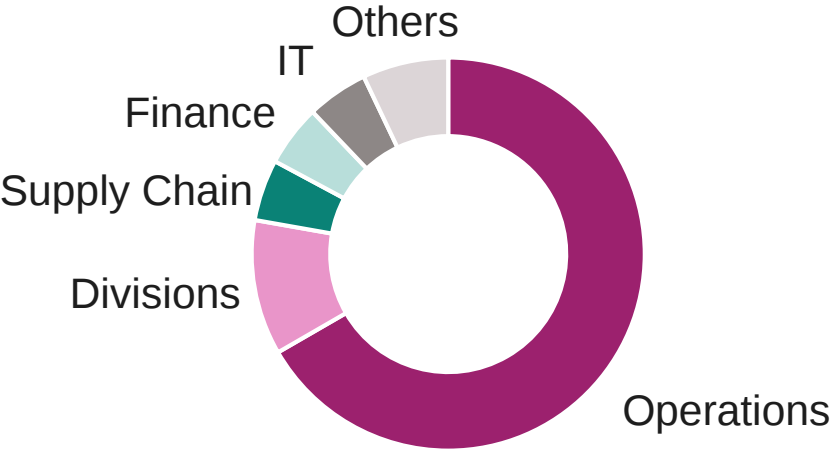
Workflows



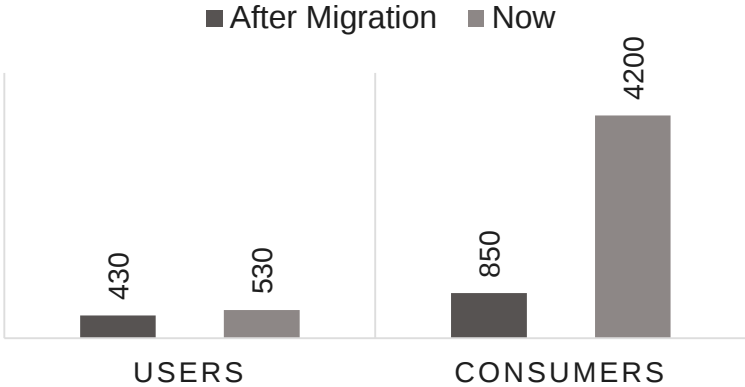
Deployments



Teams



Users



Does KNIME and the Hub Fulfill the Expectations



Does KNIME and the Hub fulfill the initial expectations

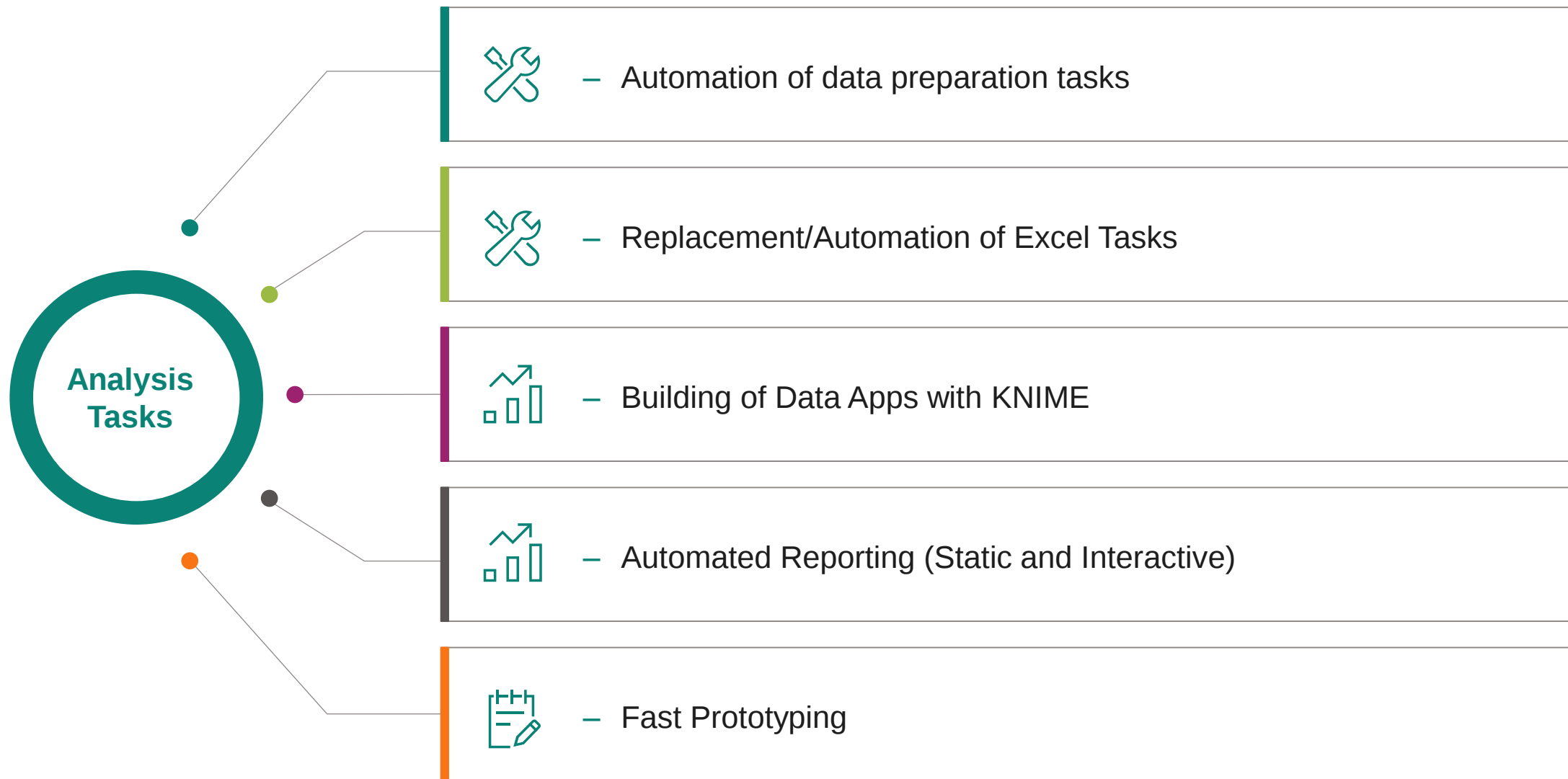
- Many non coders were enabled to perform data analysis tasks that they couldn't do before
- Higher independence of IT can be observed
- KNIME solutions helped in saving thousands of working hours
- Business hub brings collaboration on the next level



What were the main factors for the success of KNIME at Infineon

- The tool itself
- The right need was identified in the selection process
- Well balanced approach between governance and flexibility
- Central team taking care of stability of the tool, governance, promotion and training
- Strong pull communities, especially in the starting phase of the roll out

Main Usage of KNIME at Infineon



Where we want to go

Future Plans



Leverage Agentic AI



Enable User Groups



Increase Knowledge Base



Improve Governance



Find us on Social Media



www.linkedin.com/company/infineon-technologies/



www.youtube.com/c/InfineonTechnologiesAG



www.instagram.com/infineon_technologies/



www.facebook.com/infineon



Are there any questions?



