Bosch Wafer Fab Dresden

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Gefördert durch:
Bundesministerium
für Wirtschaft
und Klimaschutz
aufgrund eines Beschlusses
des Deutschen Bundestages

Analysis Assistance
How to Scale Data Knowledge

Wafer Fab Dresden
www.bosch-semiconductors.com

Wafer Fab Dresden
… in the heart of Silicon Saxony

Wafer Fab Dresden
www.bosch-semiconductors.com

Key fab figures

This new high-tech plant is a first of its kind:
a 300 mm facility, operated by an automotive Tier1 supplier.

Wafer diameter	300 mm
Clean room	10,000 m²
Technologies	Mixed Signal, Power MOS, prosp. MEMS

- 1 bn EUR invest, t/o 200 m EUR in 2022
- 8 technology nodes and 3 license partners
- Roadmap extending down to 55 nm nodes
- 700 associates after complete ramp up

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Data Collection

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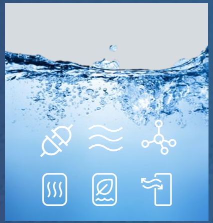
Materials

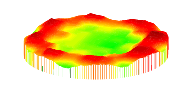


Facility

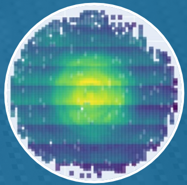
Automation

Equipment

Advanced
Process Control



Measurements &
Inspections

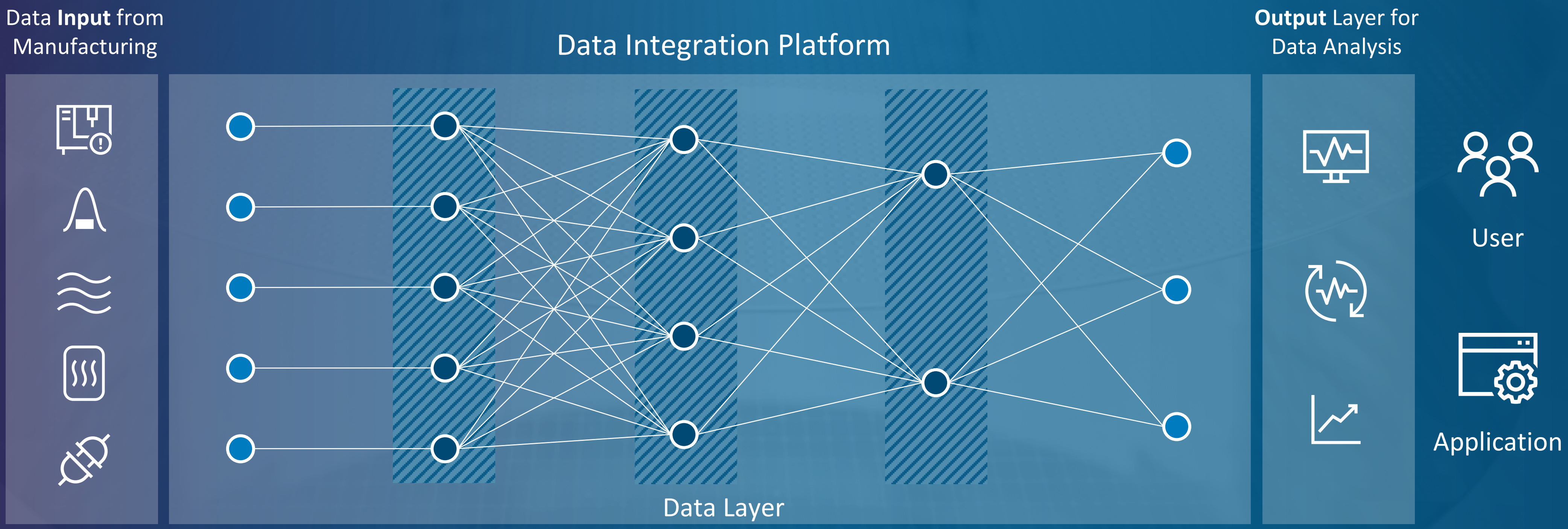


Testing

Miscellaneous

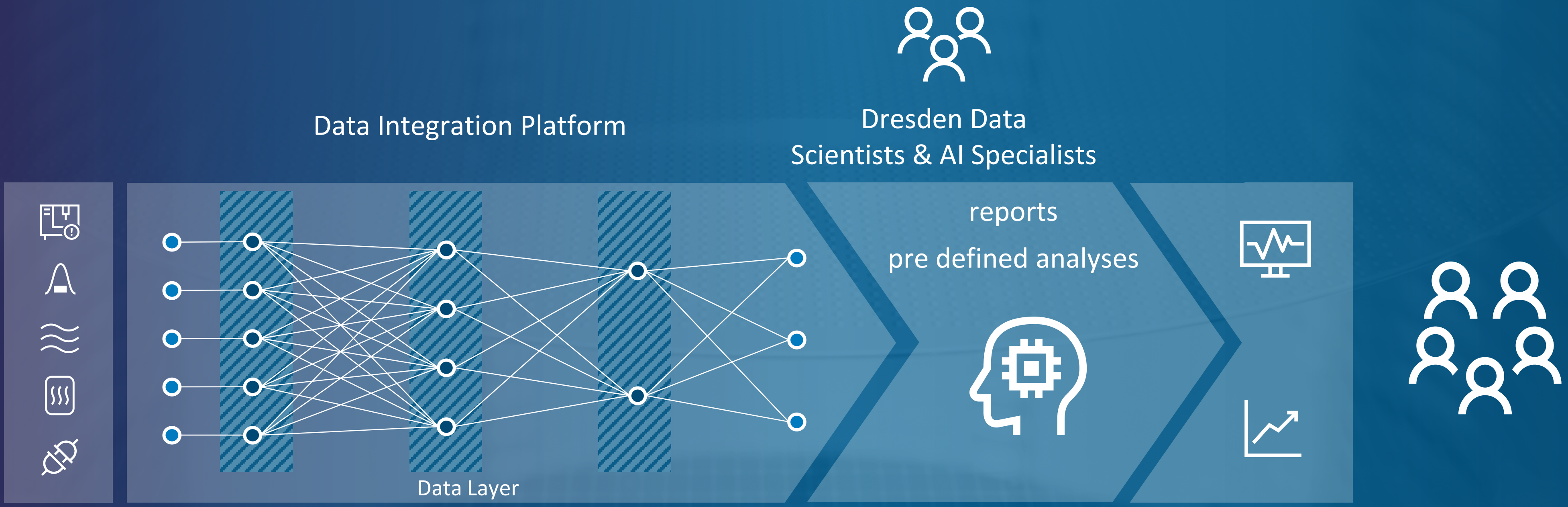
Shipment

Data Centric Architecture


Data **Input** from Manufacturing
Data Integration Platform
Output Layer for Data Analysis
User
Application
Data Layer

Data flow ❯

Democratized Machine Learning



Data Integration Platform

Dresden Data
Scientists & AI Specialists

reports

pre defined analyses

Data Layer

Scaling of Analysis

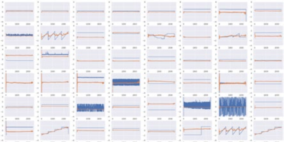
Data Scientists

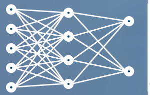
Process Engineers

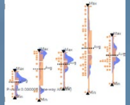
Dresden Data Scientists & Specialists

Knowledge Transfer

- analyses know-how
- data models
- understanding of correlations
- textual information (e.g. risk analysis)







Analysis Assistant

- smart search
- analysis recommendation
- data preparation
- analysis support

Facility Engineers

Equipment Engineers

Thank You

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