



**ALTAIR**

ONLY FORWARD

Change tomorrow, together.

**150+**

software products

**\$613M**

FY2023 Revenue

**ALTR**

NASDAQ listed

**16k+**

customers

**HYPERWORKS**

Est. 1985

**SIMULATION**

**HPCWORKS**

Est. 2001

**HPC & CLOUD**

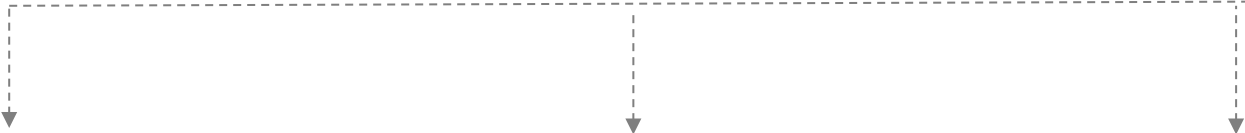
**RAPIDMINER**

Est. 2009

**DATA ANALYTICS & AI**



# Platforms



## DESIGN AND SIMULATION

Altair HyperWorks Platform



## HPC AND CLOUD

Altair HPCWorks Platform

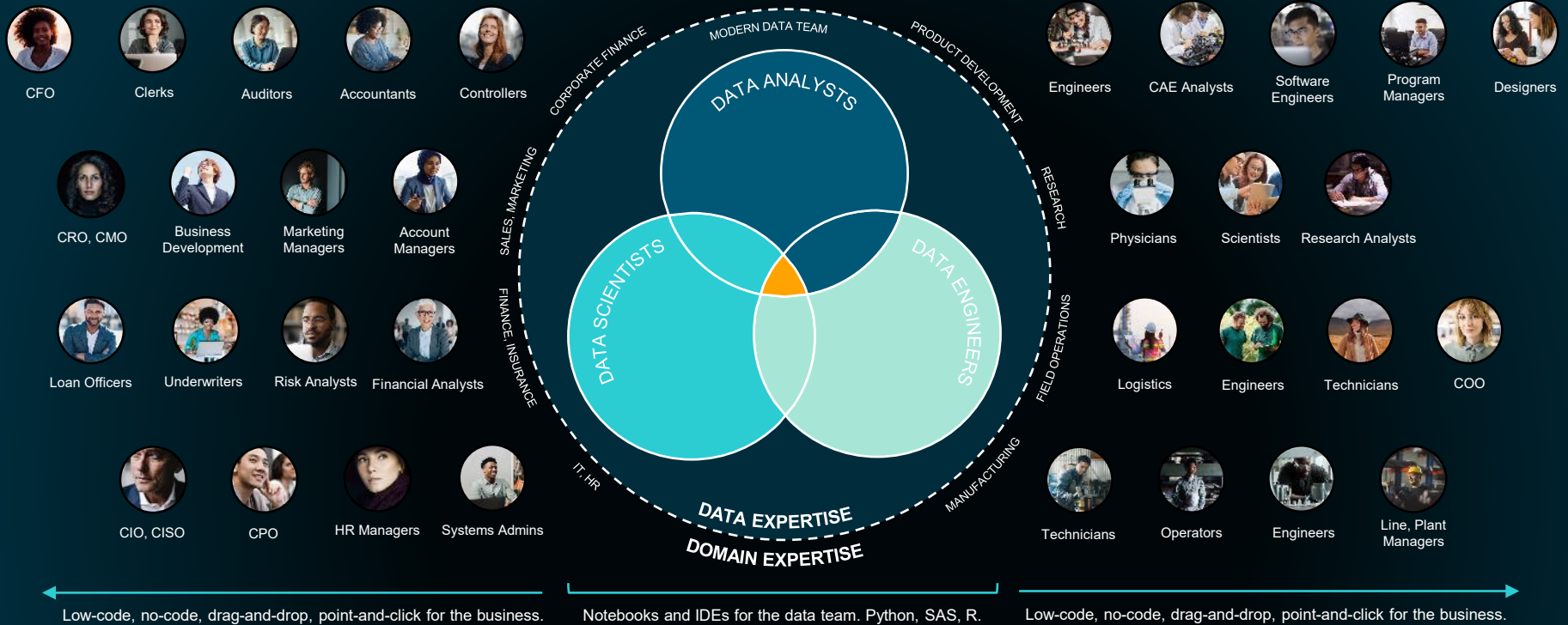


## DATA ANALYTICS AND AI

Altair RapidMiner Platform



# AI Platform to find insights and implement automation



# Real world use cases across business functions

More models  
across the  
business



## Product Engineering

## Manufacturing & Operations

## Supply Chain

## In-Service

## HR, Finance Sales & Marketing

Predictive Analytics CAE

Predictive Maintenance

Quality Assurance

Parts Demand Forecasting

Warranty Analytics

Sales Forecasting

Test & Telemetry Data Analytics

Anomaly Detection

Sustainability - Emissions

Inventory & Logistics

Telemetry Data Analysis (E.g- Battery)

Workforce Intelligence

Digital Twin

Process Optimization

Digital Twin

Resource Planning

Customer Analytics

Price Prediction

More use cases within each function

# Altair RapidMiner: The Frictionless AI Platform

Comprehensive End-to-end Solution with Open Integration to Existing Software Applications



Leadership



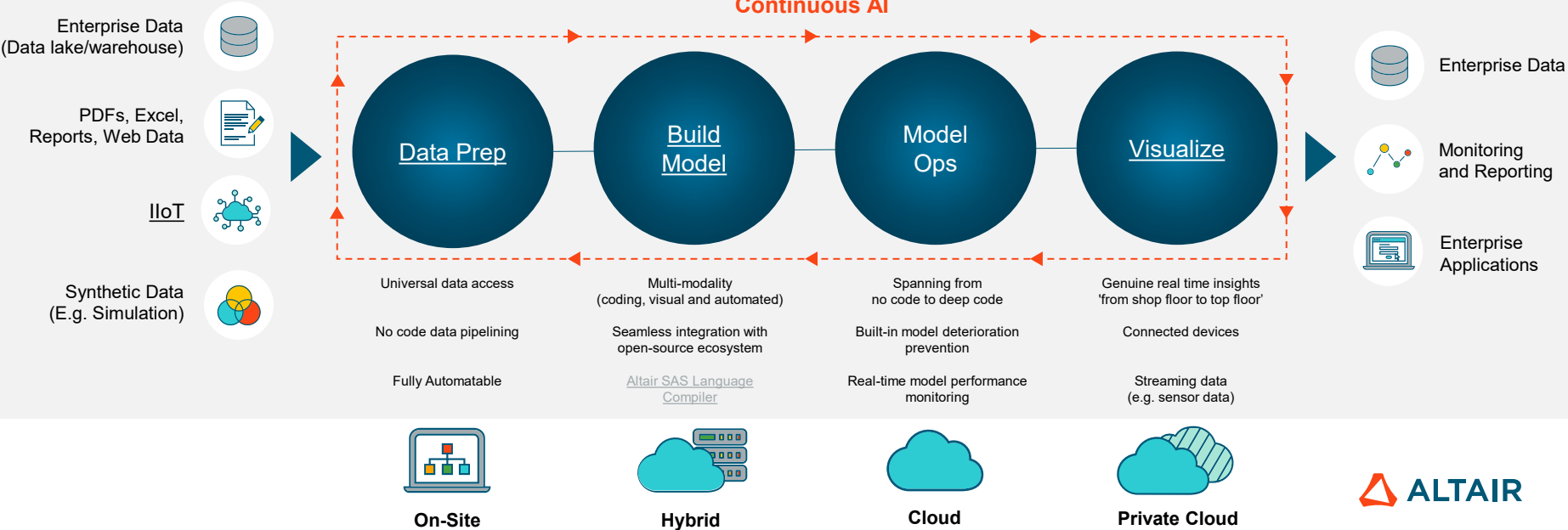
Technologists



Domain Experts



Data Experts



# Object Detection & Image Classification

- Identify the weld on a bracket and determine if the weld is good or bad
- Train a predictive model to find welds (AI Studio & AI Hub)
- Train, test, and validate a predictive model to classify weld (AI Studio & AI Hub)
- Interactive dashboard for ad-hoc image classification and object detection
- Persist image in blob storage
- Deploy to factory to score in real-time, leveraging Altair Edge device

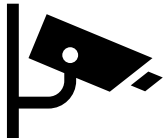
# Object Detection & Image Classification





# Object Detection & Image Classification - Production

Deploy to Edge



Modeling



 Altair® AI Hub

Storage



# Altair Edge Device



## Flexible Deployment Options

- Available as hardware for fast on-premises installation
- Easily deploy models leveraging the light-weight RTSA, API endpoints, and remote execution
- Score models on-device with low latency



## Fast Implementation

- Deploy in hours
- Leverages PoE



## Complete Set of Analytics Tools

- Operationalize machine learning models written in open-source or Altair AI solutions



# Altair RapidMiner



## Model Consumption

- Dashboard
- Web-based Apps
- Mobile Apps
- Custom execution in Apps
- Export to PDF, images...
- 3<sup>rd</sup> party data visualization
- Integration of deployed models

- Model simulator
- Providing external apps
- Model repository / registration
- Model versioning
- Request logging
- Performance & data drift
- Capturing of model metrics

- Linking of metrics and KPI
- REST services
- Triggers
- Schedules
- Deployment as containers
- Edge deployments

# Altair RapidMiner



## Notebooks & IDEs

*Notebooks, full IDEs, remote execution – all integrated with our versioned projects*

- Creation of notebooks
- Workspaces for remote execution
- Collaboration between coders and non-coders
- Custom operators and extensions
- Deployment from coding environments

- Environment & package management
- Integration with IDEs
- Debugging
- Version control

# DEMO