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Self-Service Data Analytics in Manufacturing: Empowering Your Workforce for Faster, Smarter Decisions

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What if your engineers could work like this?

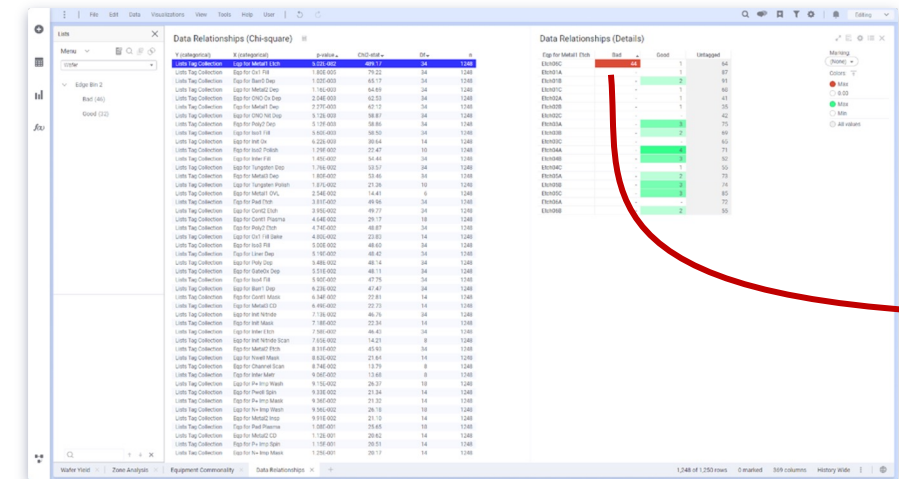# The Power of Self-Service Analytics

Connect to Trusted Data

Blend & Wrangle Data Visually

Leverage On-Demand AI

Collaborate for Action

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Agenda

- The Critical Need for Speed

- The Self-Service Blueprint

- The Spotfire Difference

- Proof in Production

- Key Takeaways

- Q&A

The Critical Need for Speed

Alessandro Chimera

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Why is it hard to identify issues from data?

Challenge 1 - Data Chaos

Data is Everywhere, and Untrusted

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Challenge 2 - The Data Scientist bottleneck

Data Science is a Service, Not a Tool

01.	02.	03.	04.	05.
Engineer Submits Request	**Request to IT Department**	**Wait Time at IT**	**Request to DS Team**	**Wait for DS Team**
The engineer initiates the request process.	The request is forwarded to the IT department.	The request experiences a delay in the IT department.	The request is then sent to the Data Science team.	The request faces another delay in the Data Science team.

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Challenge 3 - Technology limiting your creativity

Every Day Brings a New Fire

PROPERTY OF
"The Limiter"
Mfg. Co.

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The Self-Service Blueprint

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Visual Data Science vs. alternatives

	Specialist Tools	Visual Data Science	Statistics Tools
Persona	Product guru	**Every Engineer**	Statistics expert
Titles	Specialist	Yield, Product, Process Engineers	Data scientist
Connectivity	Native data only	Multiple linked data sources, in memory or "on demand"	Assemble model training data
Exploration	Predefined workflows	Interact with data, models, visuals Complex problem-solving	Check distribution assumptions Find candidate predictors
Data Prep/ Transforms	Limited	Wrangle data in-line with visuals Auto-create data pipeline	Create features Increase predictive power
Predictive Models/Algos	Use proprietary models	Drag and drop data functions from the library or create your own	Train custom models
Sharing Results	Export to Excel	Interactive Apps to 1000s of people	Deploy a model

(YMS, FDC, EDA, etc.)

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(JMP, Minitab, Prism, etc.)

Three Requirements For Self-Service Success

The ideal platform for self-service analytics in manufacturing needs to deliver on three core requirements

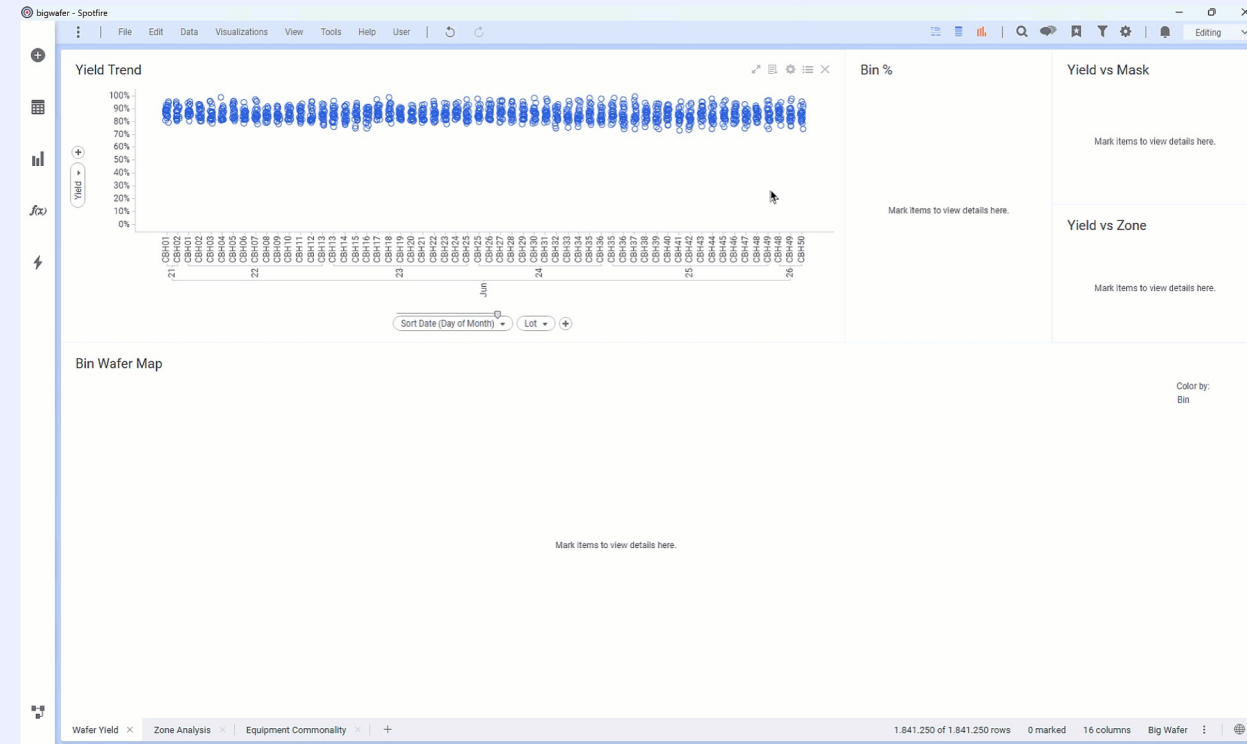**On-Demand Analytics & AI**
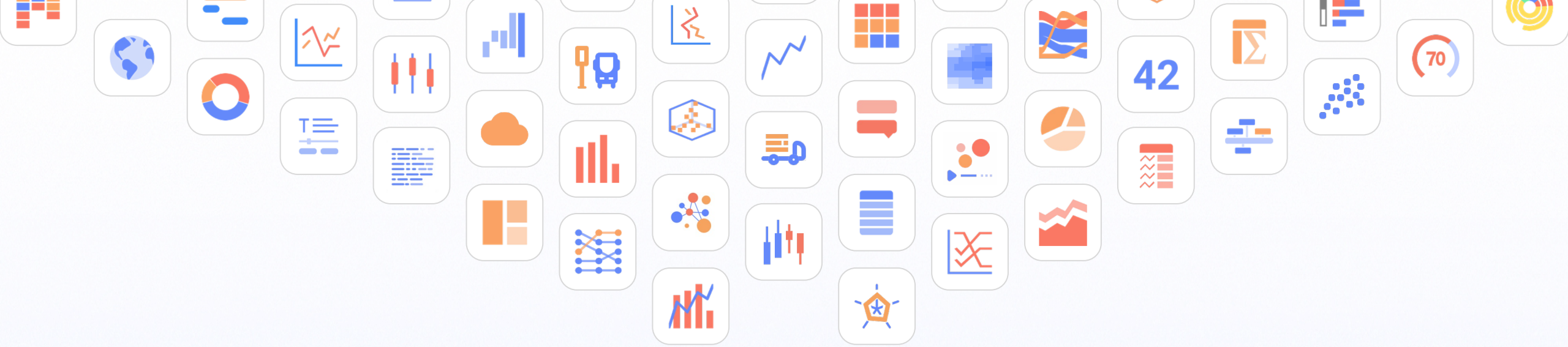

Access to Trusted Data

An Intuitive, Exploratory Canvas

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The Spotfire difference

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Spotfire is the **visual data science** platform that makes smart people smarter by combining interactive visualizations and advanced analytics to solve complex industry-specific business problems.
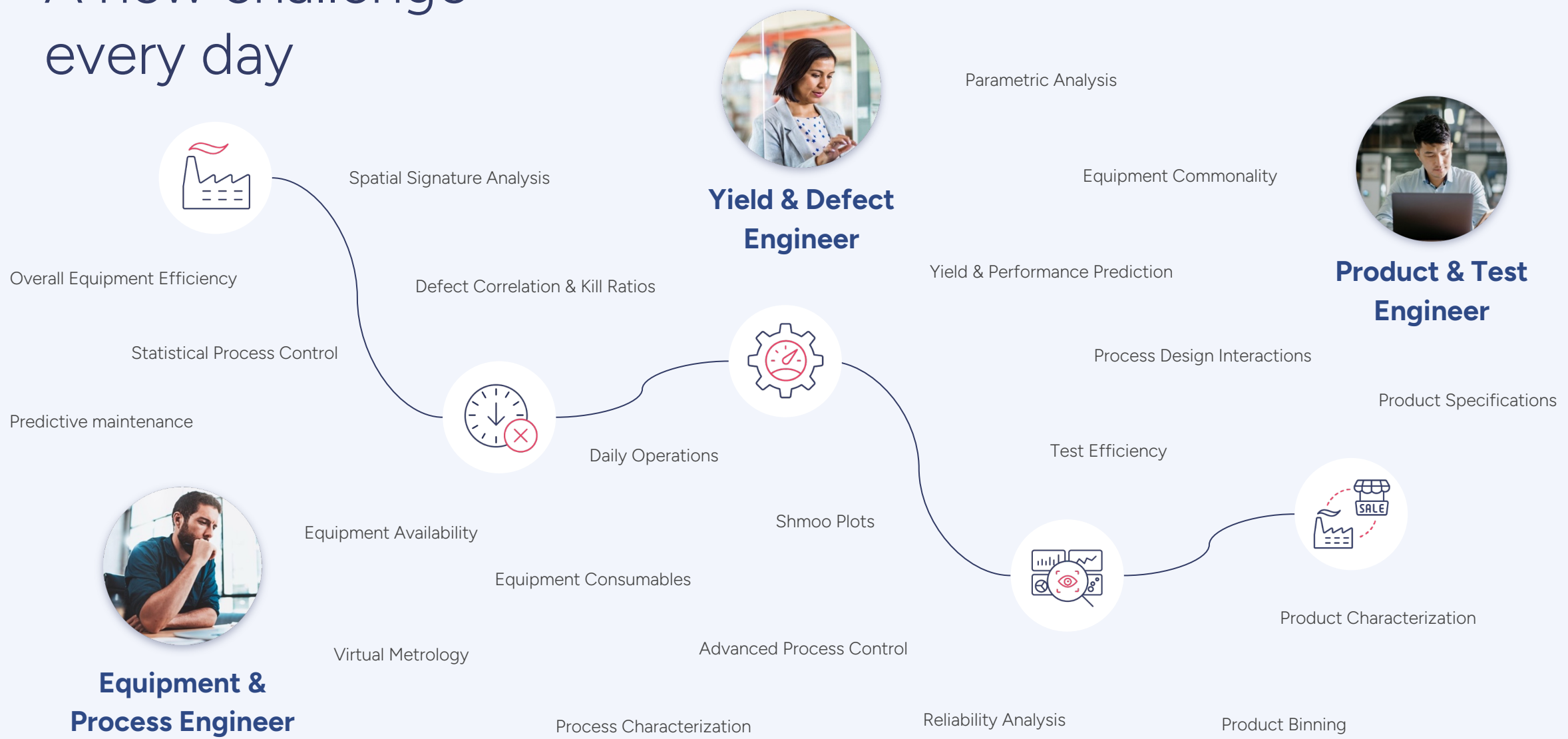
Demo

From Problem to Actionable Insights in a Few Minutes

Alain Martens

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A new challenge every day

Spatial Signature Analysis

Yield & Defect Engineer

Parametric Analysis

Equipment Commonality

Overall Equipment Efficiency

Defect Correlation & Kill Ratios

Yield & Performance Prediction

Product & Test Engineer

Statistical Process Control

Process Design Interactions

Predictive maintenance

Product Specifications

Daily Operations

Test Efficiency

Equipment Availability

Shmoo Plots

Equipment Consumables

Equipment & Process Engineer

Virtual Metrology

Advanced Process Control

Product Characterization

Process Characterization

Reliability Analysis

Product Binning

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Spotfire Copilot ™

a natural language extension to Spotfire®

How can I reduce machine downtime?

Color scatterplot by strain.

Spotfire Trained Q&A	How can I color code a scatter plot by a 3rd variable?
Interrogating Data in Spotfire	What is the highest yield by lot?
Auto Charts	Compare the yield by bin and lot
Generating Code	Write a Python script that builds a regression model of column "Yield" based on values of columns "Lot" and "Bin"

Spotfire Copilot ™

Hello and welcome to Spotfire Copilot!

I'm here to assist you with a wide range of tasks in Spotfire, from simple to complex. I can help you create stunning visualizations based on your data, create Python data functions for statistical or other mathematical calculations, and even detect errors in your data and how it has been loaded. If you have specific questions about your data or documents that have been pre-loaded into the Copilot system, I'm here to help with that too.

So, let's get started! If you're unsure of where to begin, feel free to click on the buttons below for some guidance.
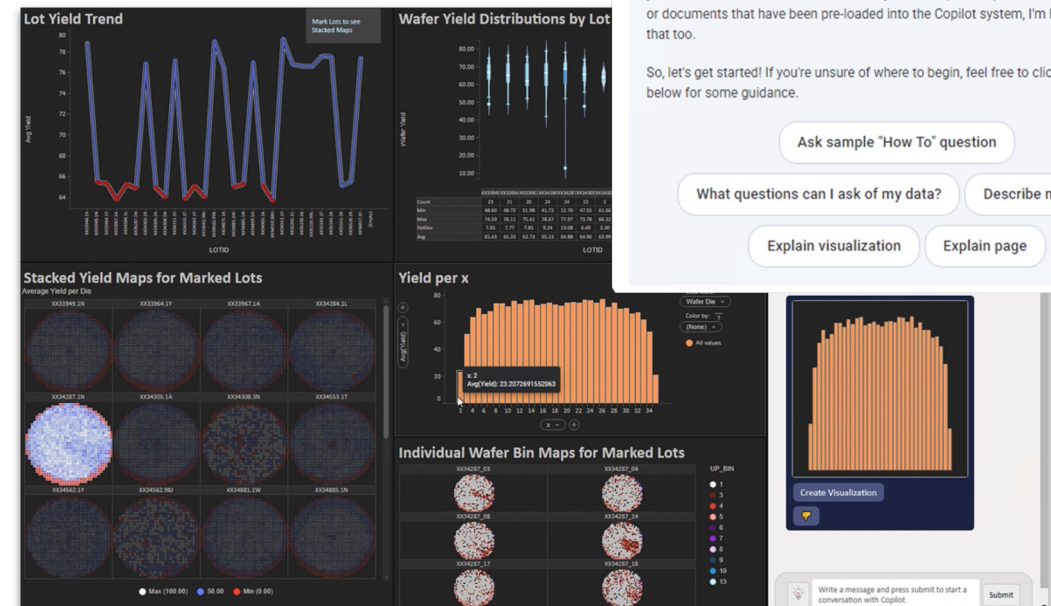
Ask sample "How To" question

What questions can I ask of my data?   Describe my data

Explain visualization   Explain page

Proof in production

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Some Manufacturing Use Cases

Anomaly Detection
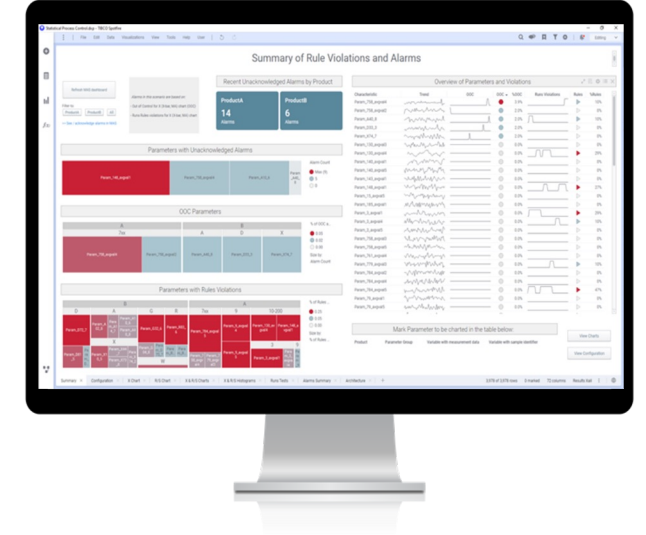
Reduce waste and costs associated

Identify anomalies in products (deviation in temperature, pressure or key parameters) by alerting operators in real time

Predictive Maintenance

Maximize equipment utilization & performance

Identify potential equipment failures before they occur; reduce unplanned downtime and calculate your OEE, in real-time

Process Control

Monitor and analyze a wide range of parameters

Statistical Process Control (SPC) techniques to ensure quality, detect anomalies, and maintain process efficiency.

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brembo

25%
increase in revenue with improved processes

HSC

$300k
savings per month in electricity consumption

CAF

10%
reduction in maintenance costs

up to

40%
reduction in breakdown rates

Business Challenges

• Manual, error prone manual procedure for evaluating brake tests.
• Lack of homogeneous testing results.
• Experiencing time to market issues for new products.

Business Challenges

Data was distributed and redundant, which inhibited operational visibility. They needed to understand the full manufacturing process.

Business Challenges

• Struggled to make sense of large amounts of data across trains, railways, maintenance, operations, and more.
• Railway operations and maintenance requires maximum uptime, precision and optimization of complex moving assets.

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Key Takeaways

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Empower your people in making faster and impactful decisions

We deliver the ideal self-service solution and technical capabilities
to tackle the toughest manufacturing challenges
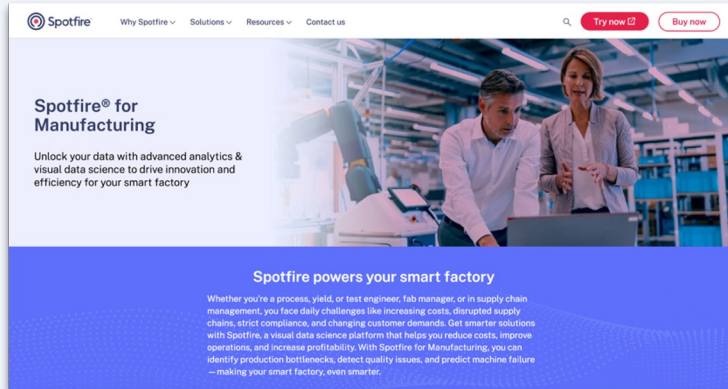
Self-Service

data provisioning

Democratized, collaborative

data science

Human and AI-powered
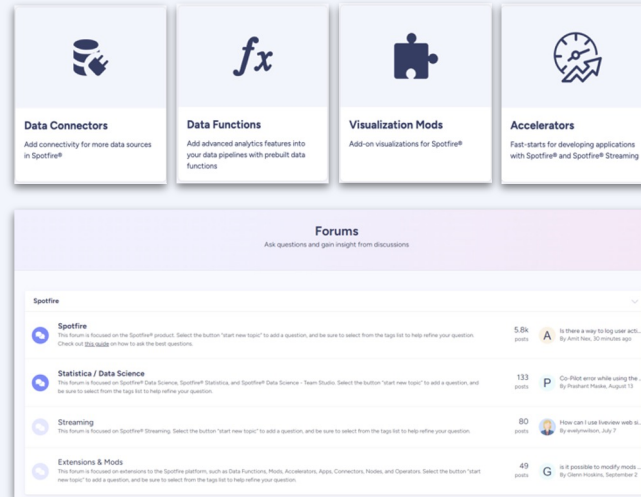
visual data exploration

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- Demo gallery
- Industry use cases
- Training / Enablement

spotfire.com/solutions/manufacturing

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community.spotfire.com

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Dr. Spotfire

- Dr. Spotfire Monthly Meetings
- Dr. Spotfire Quick Tip Videos

community.spotfire.com/clubs/page/5-welcome/

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