

Why leverage AI in Manufacturing?

Florent Bourbon

Director Switzerland and Austria @ Dataiku

Admiral post record half year profits and revenues

The Cardiff headquartered FTSE 100 business, which employs 7,500 in ...
increasing adoption of advanced analytics models and planting new ...

Artificial intelligence is the new competitive weapon that will define how the tech giants
compete against one another.



New AI-Powered Walmart Store Will Help Define the Future of Retail

Published on May 20, 2019

Today, AI technology is commonplace

The new challenge is integrating technology, people & processes to
deliver extraordinary results with AI at scale

ANALYTICS | COGNITIVE | HEALTH

J&J CIO: Embracing AI in Enterprise

PRINT TEXT

Veteran IT leader and early AI adopter Jim Swanson explains how he's integrated AI and data capabilities with the business to create exponential change.

Forbes

The Amazing Ways How Unilever Uses Artificial Intelligence

Unit &

[https://www.ft.com](https://www.ft.com/content) › content

AstraZeneca uses AI to tackle neurological disease | Financial ...

28 Aug 2017 — AstraZeneca uses AI to tackle neurological disease ... Sign up to myFT Daily Digest to be the first to know about Health sector news. AstraZeneca ...

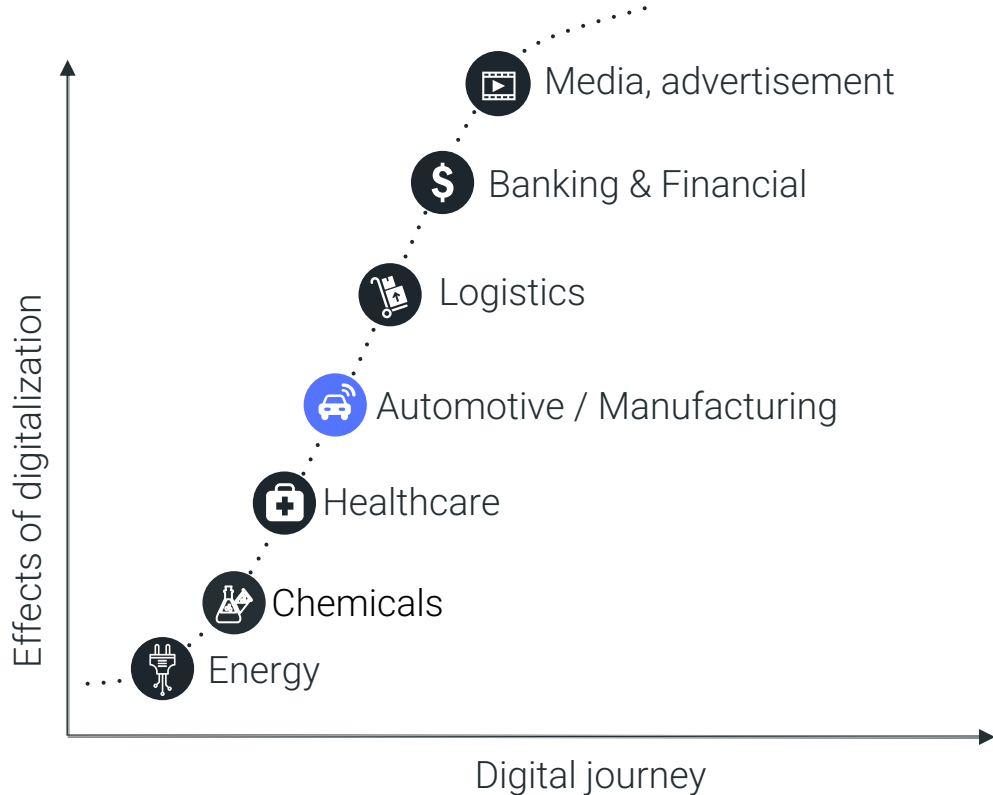
500 in ...
W ...

Unflashy but high-powered machine learning powers everything from its fulfilment centres to the cloud

New AI-Powered Walmart Store Will Help Define the Future of Retail

Why should we care?

- Opportunities to leverage previously undiscovered value
- Positive ROI achievable relatively quickly
- Limitations of traditional workflows can be overcome
- Other industries have shown... It works!



Every organization wants to scale with AI

**Better Customer
Experience**

**Improve Employee
Productivity**

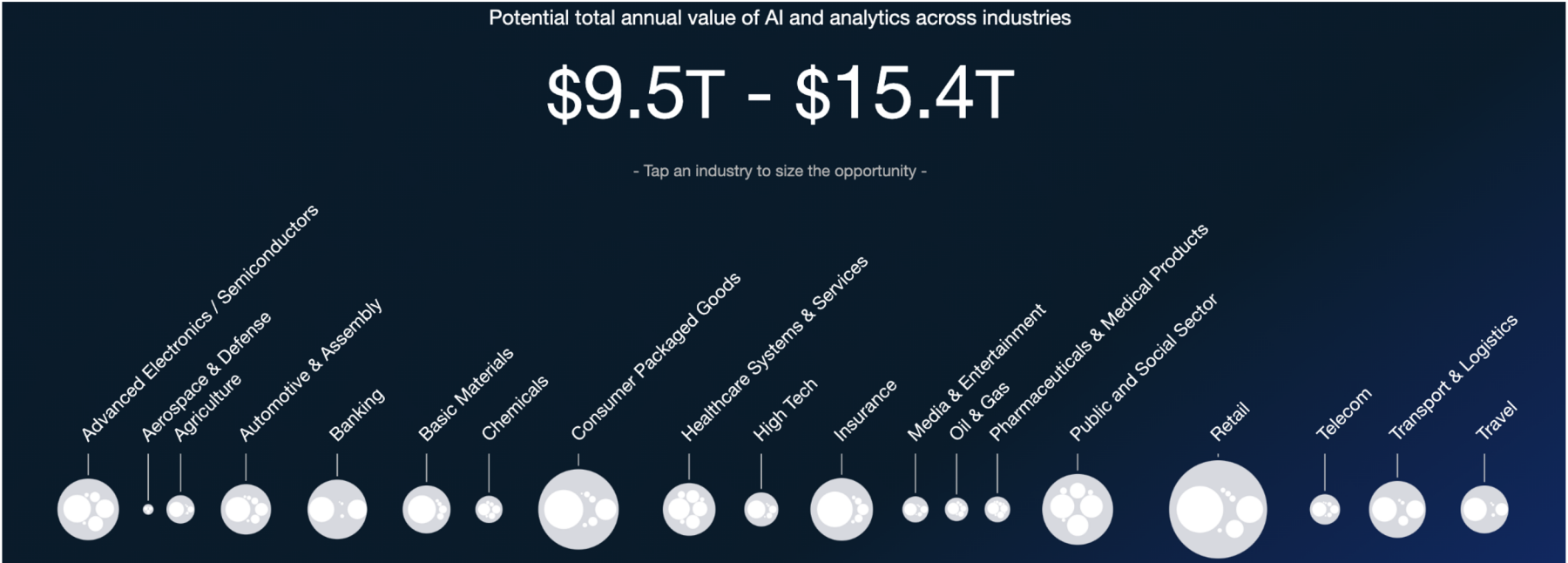
**Accelerate
Innovation**

**Boost
revenue**

Source: IDC's AI Strategies BuyerViewGlobal Survey, CY 2020

How much is in for us?

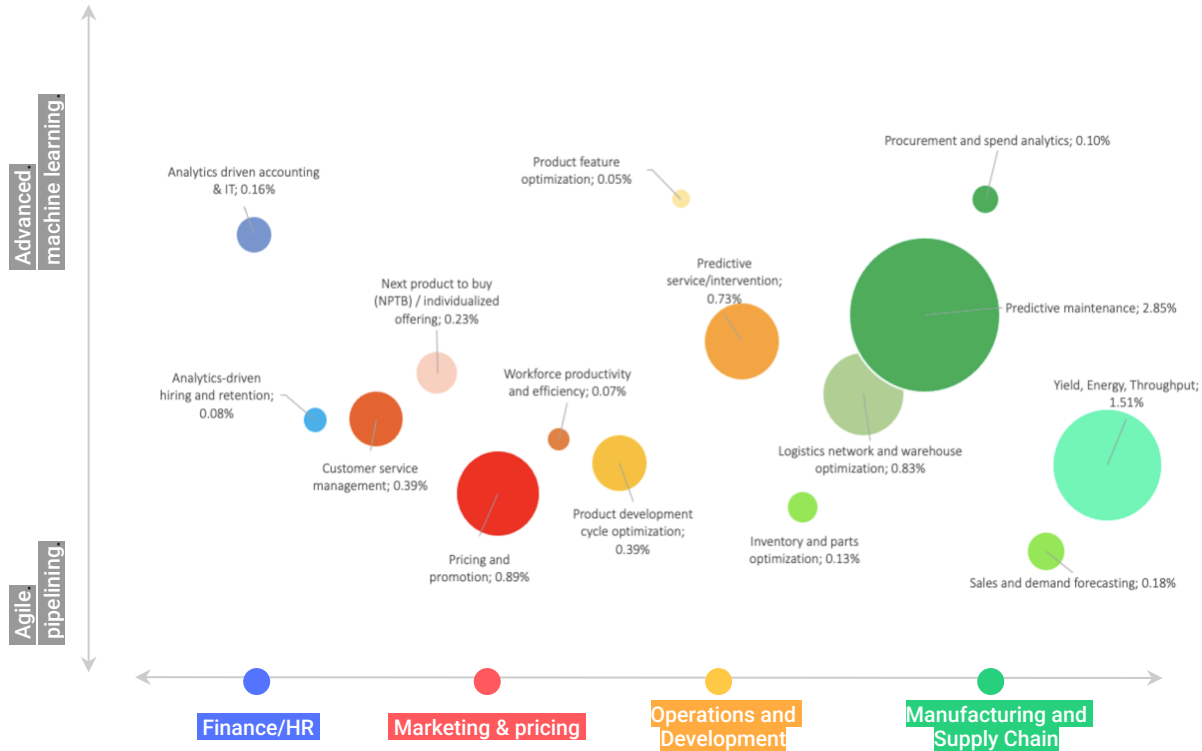
Value ranges that were proposed in 2020 McKinsey's AI playbook



<https://www.mckinsey.com/business-functions/mckinsey-analytics/our-insights/the-executives-ai-playbook?page=industries/>

Enterprise-Scale AI in Automotive and Assembly: no activity left un-augmented

Unlock up to \$Billions of potential annual value (+8.6% of annual revenue)*



What are we doing with AI/ML in process industry?

Use cases



What kind of use cases do we see among our customers?

Benefiting from AI all along the whole value chain



Research & Development	Execution Management	Manufacturing & Maintenance	Procurement & Forecast	Sales	Customer care
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- Development & Life Cycle Management
- Test and simulation acceleration
- Fit to customer expectations
- Sustainable Design

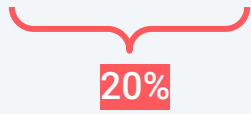
- Warehouse Management and Automation
- Planning optimization
- Project Analysis and optimization
- Worker Safety and Hazard Control
- Energy management

- Predictive Maintenance
- Quality control
- Process Optimization
- Yield Management
- AI at the edge
- Digital Twin

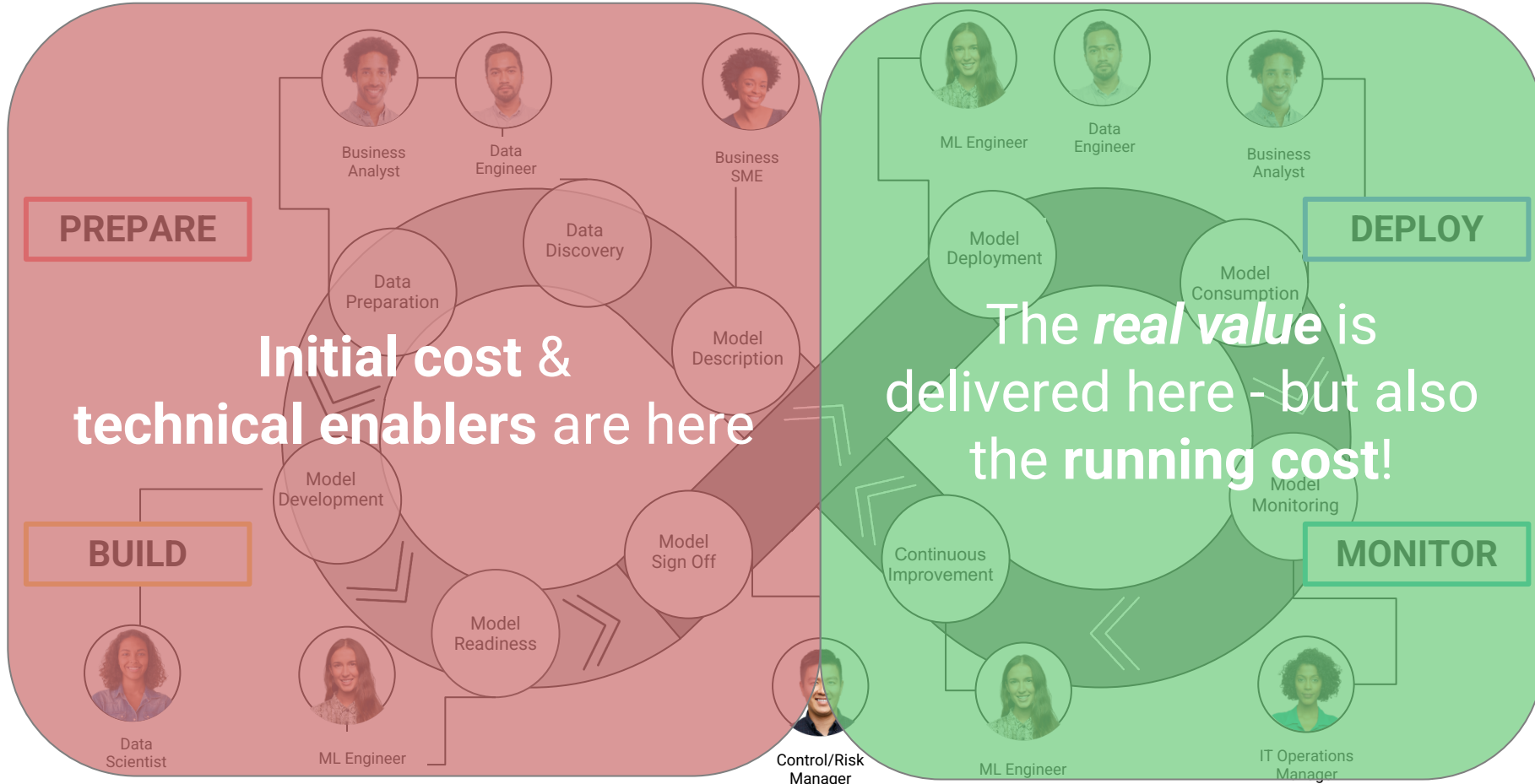
- Financial Planning and Analysis
- "Control Tower" Supply chain & Logistics
- Contract Optimization
- Demand Forecasting
- Price optimization

- Customer segmentation
- Distribution Spatial footprint
- Omnichannel Marketing
- Churn prediction

- Early warning detection
- Real time data to predict default, new services, ...
- Customer sentiment analysis



Whatever UseCase you build... keep it mind it has a lifecycle!
...your first model will not be your last one

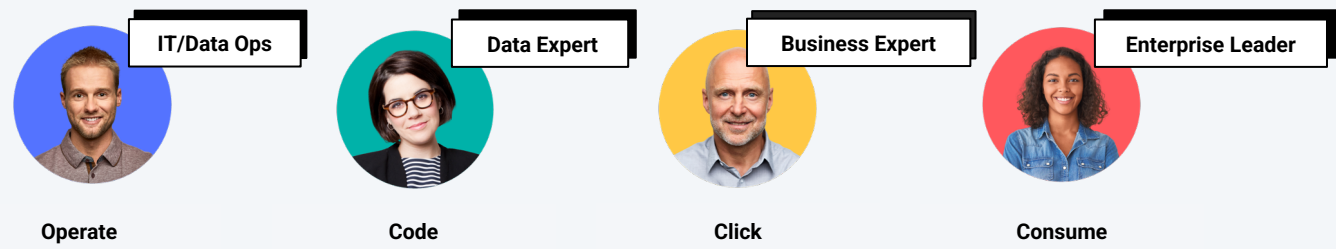


Dataiku: A Unified Platform to Systemize AI

**Centralized workbench
for everyone**

**Streamlined path to
production**

**Integrated in your stack,
governed at scale**

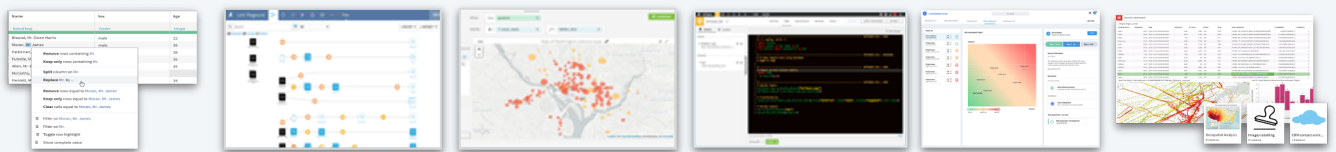


Operate

Code

Click

Consume



Cataloging and Exploration Data Prep and Pipelining Visualization and Stat Analysis Machine Learning MLOps AI Governance AI Apps



“

You would never be able to hire enough data professionals to meet the data demands of the business

So why not turn the business into data professionals?”

Jon Tudor

Senior Manager of Self-Service Data
Engineering and Analytics at GE Aviation

GE Aviation used Dataiku to create a culture of everyday AI among 40k+ employees.

With 100s of users empowered to play with advanced data analytics, GE achieved extraordinary results: **2500+ data products, projects moved to production in <2 minutes, and 300+ projects automated.**



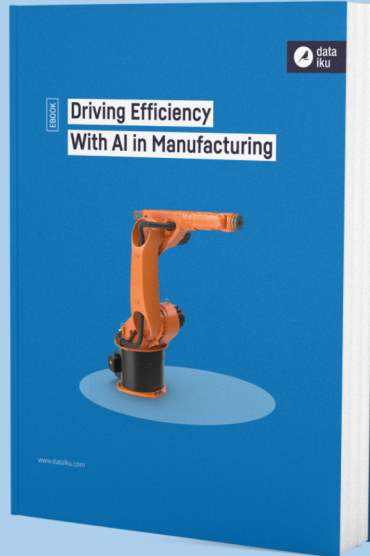
Suggested reading

Dataiku Ebook

The Rise of Industry 4.0

Drive Efficiency With the Power of AI and the IoT

Get the details on end-to-end manufacturing use cases for AI — R&D, production, logistics, and more — as well as the Dataiku-specific features that help enable this digital transformation at scale.



<https://pages.dataiku.com/driving-efficiency-ai-manufacturing>

THANK YOU

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