Activate AI for Manufacturing processes

Building a best in class data & AI factory in B2B manufacturing in less than 1 year

Client challenges

A major international Mining & Metallurgical company was looking to test AI by making quality metal cheaper in two countries, experiment with AI teams with a strong involvement of business & IT, and create an iterative approach of *"Think large, start small, scale fast"*. The goal of the initiative was to demonstrate AI value for metallurgic fusion, and build an AI factory with a decent time-to-market operating model & governance to support AI at scale. Producing a metal of better quality with the same resources

Solution

Together with Capgemini Invent, the company created a C-Level sponsored use case roadmap, prioritized by business value, with value tracking to monitor gains.

In parallel, a pragmatic data governance approach was designed, with prioritization of data domains according to client needs and priority use cases. Capgemini Invent helped reaching alignment of IT / Digital stakeholders on a best in class operating model, able to deliver "live products" in less than 4 months time-to-market.

Success Story Overview

Customer: A **diversified mining & metallurgical** company

Industry: Manufacturing

Location: North America

Client Challenges / Business Need:

- Test AI by making quality metal cheaper
- Experiment with AI teams with strong involvement in business & IT
- Create an iterative approach

Results:

- C-Level sponsored use case road map
- Designed a pragmatic data governance approach
- Helped reach alignment of IT/Digital stakeholders
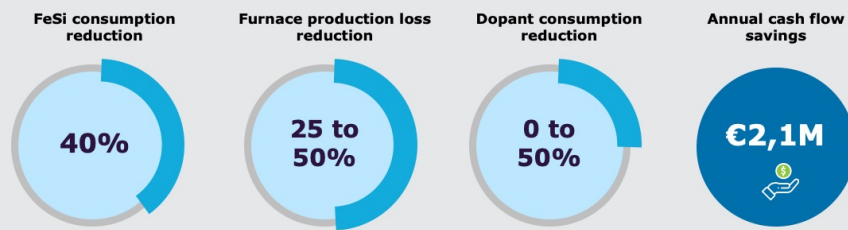- Deliver live products in less than **4 months time**

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FeSi consumption reduction

40%

Furnace production loss reduction

25 to 50%

Dopant consumption reduction

0 to 50%

Annual cash flow savings

€2,1M

Figure 1: Results

Results

The manufacturer was able to deliver mor than 10 projects worldwide (in Asia, Africa, Europe, and many more) best in class methodologies including: continuous process optimization, energy reduction, and discrete manufacturing optimization. One of the project's value in Fusion control for Nickel alloys production resulted in:

- **40%** reduction in FeSi consumption
- **25% to 50%** reduction in furnace production
- **0 to -25%** reduction in dopant consumption
- Annual cash flow savings: **€2,1M**

Interested? Contact one of our Artificial Intelligence experts

Valerie Perhirin
Business Development Lead
valerie.perhirin@capgemini.com

For more information, visit:

https://www.capgemini.com/service/perform-ai/ai-activate/

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