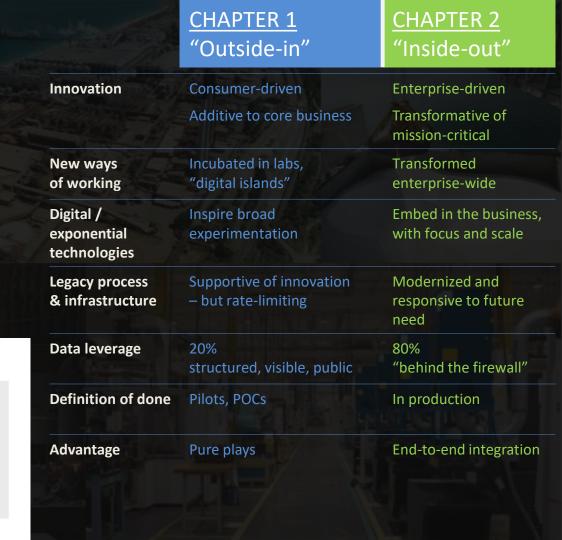


Disruptive environmental forces are driving seismic shifts within the Industry

"We're in the middle of three Climate Changes, not Just one. The world is moving from being an interconnected one, to being interdependent, and it is the most adaptive that survive" - Thomas Friedman, Business Commentator

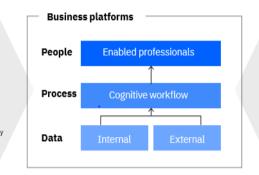


The digital experimentation of the recent past decade has set the stage for deeper transformation at-scale



A platform-centric business model





Inside-out

New outcomes

possible with:

Automation

- Blockchain

Artificial intelligence



VIDEO-1

We call this holistically transformed organization ... the Cognitive Enterprise

Culture of agile innovation

Ecosystem of business platforms

Cognitive-enabled enterprise workflows

Exponential technologies

Fueled by data

Next-generation applications

Secure multicloud infrastructure



Twenty-eight percent of CxOs are actively investing in the platform business model 54% 18% 28% 23% 5% Expressed Experimenting/ Established intention platform next 2-3 years oiloting/ implementing model Source: "Plotting the platform payoff: The Chief Executive Officer perspective."

Key success factors

1.

Create platforms to unleash Digital Darwinism

2.

Leverage the incumbent advantage in data

3.

Architect your business for change

4.

Redesign company workflows around Al

5.

Get agile, change fast and build things

6.

Reinvent your workforce to ignite talent

7.

Win with trust and security



VIDEO-2



Create platforms to unleash Digital Darwinism

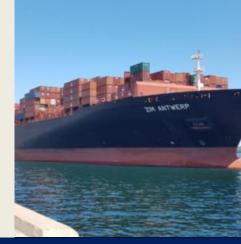
- Strategic clarity
- Ecosystem expansion potential
- Accelerative approaches

Tradelens

Problem: Inconsistent information across organizational boundaries and "blind spots" throughout the supply chain hinder the efficient flow of goods.

Solution: Use IBM Blockchain to create a Global Logistics Platform that provides instant, secure access to end-to-end supply chain information; single source of the truth.

+15% total trade volume





CEMEX built a platform to provide superior customer experience

IBM helped CEMEX revolutionize the way they conduct commerce with their consumers. A digital platform enabled CEMEX to connect with large contractors and individual consumers on a personal level, delivering the best product to an entire market of customers.

Leverage the incumbent advantage in data

- Curated for platform purpose
- Bias avoidance
- Data ownership



Yara

Challenge: To feed a growing global population sustainably, farmers must increase food production on existing farmland to avoid deforestation

Solution: Yara's vast trove of data unlocked with IBM AI and analytics to build a digital farming platform, providing holistic digital services and instant agronomic advice

JFE Steel Corp

Challenge: To keep production schedules moving and workers safe, detecting and fixing equipment failures is key.

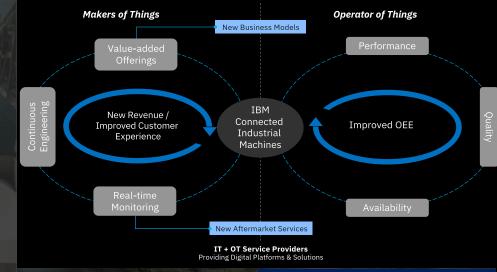
Solution: Al capabilities mining vast pools of unstructured Japanese text creates safer, more efficient plants, helping technicians diagnose, fix and prevent failures



3

Architect your business for change

- Target operating model
- Enabling architectures
- Open to ecosystem





Sandvik Mining

Built a platform to enable Sandvik to provide high value aftermarket services to their clients.

The solution results in an increase of about 10% in productivity, increase field workforce efficiency & reduce repair costs, improve customer satisfaction & increase retention while increasing equipment lifecycle revenue for Sandvik.

4

Redesign company workflows around Al

- Humanized customer-facing workflows
- Self-learning operational workflows
- Open ecosystem workflows



Transform Products – Cognitive Material Discovery

Expediting the development of new products / alloys

Amplified R&D capabilities to expedite product development, creating new products to better compete in the marketplace.

Ability to investigate new ideas and products possibilities faster

Gerdau

Problem: Specialty steels require analysis of hundreds of variables and many thousands of previous materials. This learning process is highly dependent on the level of experience of metallurgists

Solution: Leveraging Al to Process Complex Orders, IBMRFP Advisor enables Gerdau to capture expertise and reduce the total time of response

↓70% in Time Spent on RFP Process



6

Reinvent your workforce to ignite talent

- New skills & continuous learning
- AI-enabled skills development
- Agile teaming



Skill Transfer using Watson

Woodside Engineers have the knowledge of 1000

IBM Watson

IBM developed an easily accessible body of knowledge that all engineers can access, effectively placing the combined history and knowledge of all engineers into the hands of every single engineer.

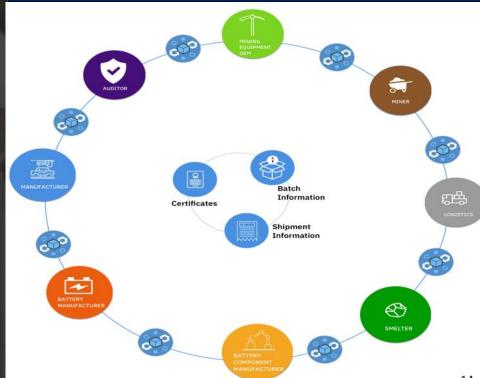
Accelerates expertise by giving staff unlimited access to 30 years of tribal knowledge

Win with trust and security

- Bias-free automation and algorithms
- Protected workflows and data
- Expertise with integrity and values

IBM and Industry Partners

Working together as part of a larger consortium across the mining and metals industry leveraging blockchain technology to ensure a secure and trusted environment for business transactions .



IBW.