



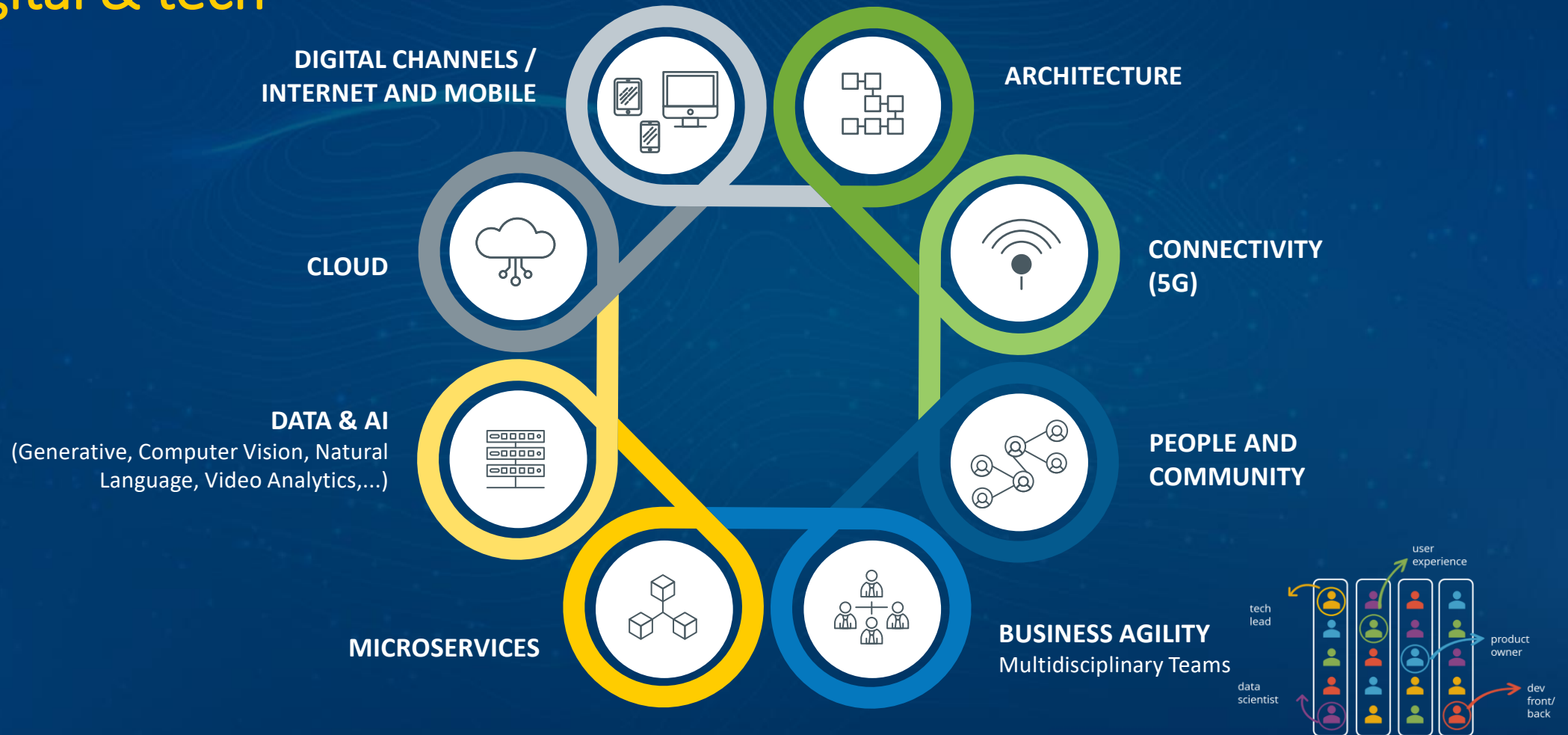
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Gustavo França

Digital Integration in
Business Operations

GERDAU
Stakeholder
Day 2023

_digital & tech



Security with the use of technology

MACHINE LEARNING AND TEXT MINING, seeking assertiveness in cognitive prediction throughout our employees' journey.

SAFETY ANALYTICS incorporated into all industrial plants, actively preventing the possibility of new occurrences.

IOT AND CONNECTIVITY monitor the risk of gases and exposure assets online, supporting safe distancing between people, machines, and red zones.



+1400

portable and fixed detectors are monitored to prevent accidents involving exposure to gases



+70%

of critical positions monitored using technology



+85%

The assertiveness of Safety Analytics incorporated in all plants

Industrial Competitiveness

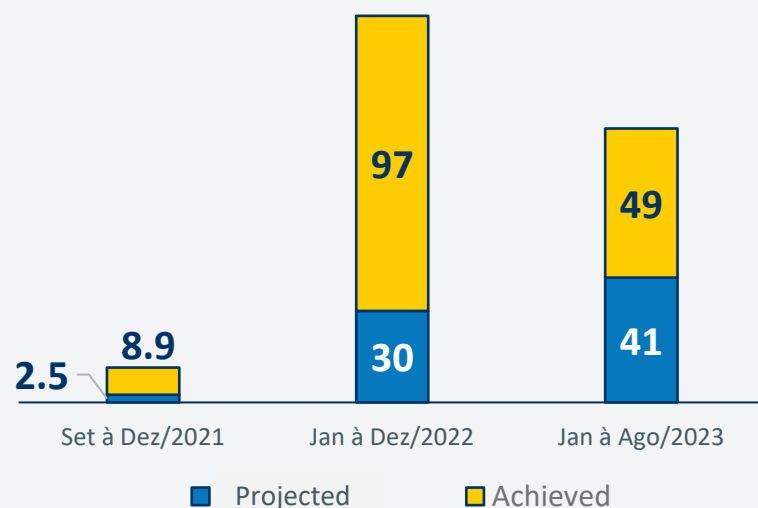
DIGITAL TWINS mirror and interpret actual behavior in the digital environment.

Our scale of technology in Ouro Branco, Bioreducers, Mini Mills, Metals and Special Steels have been supporting our planning, control and programming line.

Data tracking trucks via RFID (Radio Frequency Identification), monitoring yards by computer vision, and ensuring the **accuracy of scrap sorting**.

Digital Twin Results

(R\$ million)



+1000

connected equipment and sensors, representing +9000 taggings.

86%

precision in digital recognition of scrap metal

Solutions focused on increasing competitiveness, reducing critical risks, and increasing the safety of people and processes.



Customer experience, driven by technology



Gerdau Mais our digital platform that revolutionizes the way we relate to and do business with customers and society.



Optimized **logistics service** using mathematical models to decide on the best delivery point, reducing delivery times by approximately 7 days.



Generative AI in transcribing technical standards for special steels, faster customer service.



70%

on-the-shelf completeness in Digital

70% / 40%

adoption by the construction industry in the US and Brazil

+1800t

converted using generative AI for specialty steels in 2023

+10MM

per day, the average amount of data that passes through the Supply Chain Optimizer

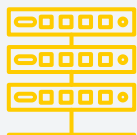
Data and society

Spreading the **data culture** to our people and extracting value for our business

Impacting **people's lives and community** through partnerships and training

DATA4ALL, data training for the self-declared black minority groups

Free and unlimited **education platform** for the community - Gerdau Institute and Digital IT (2023)



120TB

stored data



+540MM

captured in 2022, using
Advanced Analytics

analytics hub

data 4 ALL
11K registered

DATA4ALL
Free training and inclusion
program focusing on
Diversity

+100 people

G.DATA

G.DATA
Training *data-driven*
employees to be
capable of solving real
challenges



HACKATHON
Innovative solutions
marathon involving
data problems

INTELI
Submission and
monitoring
Cases for students to
solve real problems