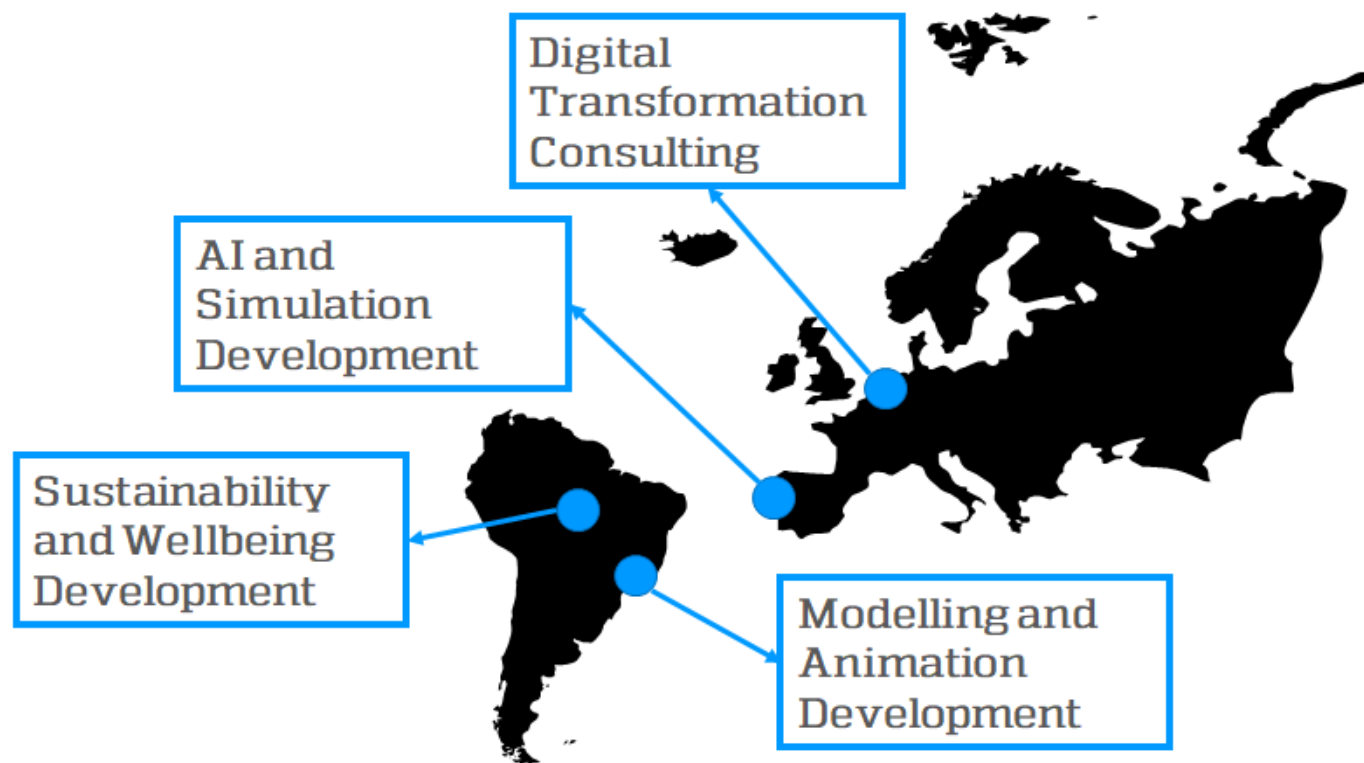




## >Who we are Infinite Foundry



- Locations: Porto (HQ/PT), Hague (NL), São Paulo (BR), Amazon (BR)
- Year established: 2017
- Number of employees: 20
- Revenue: €1,7M
- Pipeline: + €5M
- Partnerships: Altice Communications, INESC TEC, Produtech, Senai, GIZ



# >The Problem Industry Faces Many Challenges

Supply Chain  
Disruptions

After-effects of the pandemic, natural disasters and geopolitical tensions have caused uncertainty

High Customer  
Expectations

High-quality, customized products, faster, and at lower cost, so there is a need to produce goods efficiently

Sustainability

Customers and regulators are increasing pressure for industry to adopt sustainable practices

Workforce  
Availability

It is becoming harder to find skilled workers, so automation is essential but requires big investments

Meeting these challenges requires technology for deep understanding of production



## > Industrial Metaverse is Efficiency and Innovation

Ecosystem in which IoT, AI and digital twins are deeply integrated with the entire value chain

Full traceability of operations is enabled so that efficiencies can be found and implemented

It unleashes a new era of creative freedom for companies to play around with ideas and test technologies without the costs and bottlenecks associated with real-world testing



## > **Benefits** Industrial Metaverse Platform

Plan

Plan virtually any change to operation, eliminating data silos between design, R&D, operations, sales

Move Quickly

Identify all bottlenecks and find solutions to remove them to implement change

Learn Continuously

Understand all production process details by processing real time data in 3D to maximize efficiency

Manage Value Chain

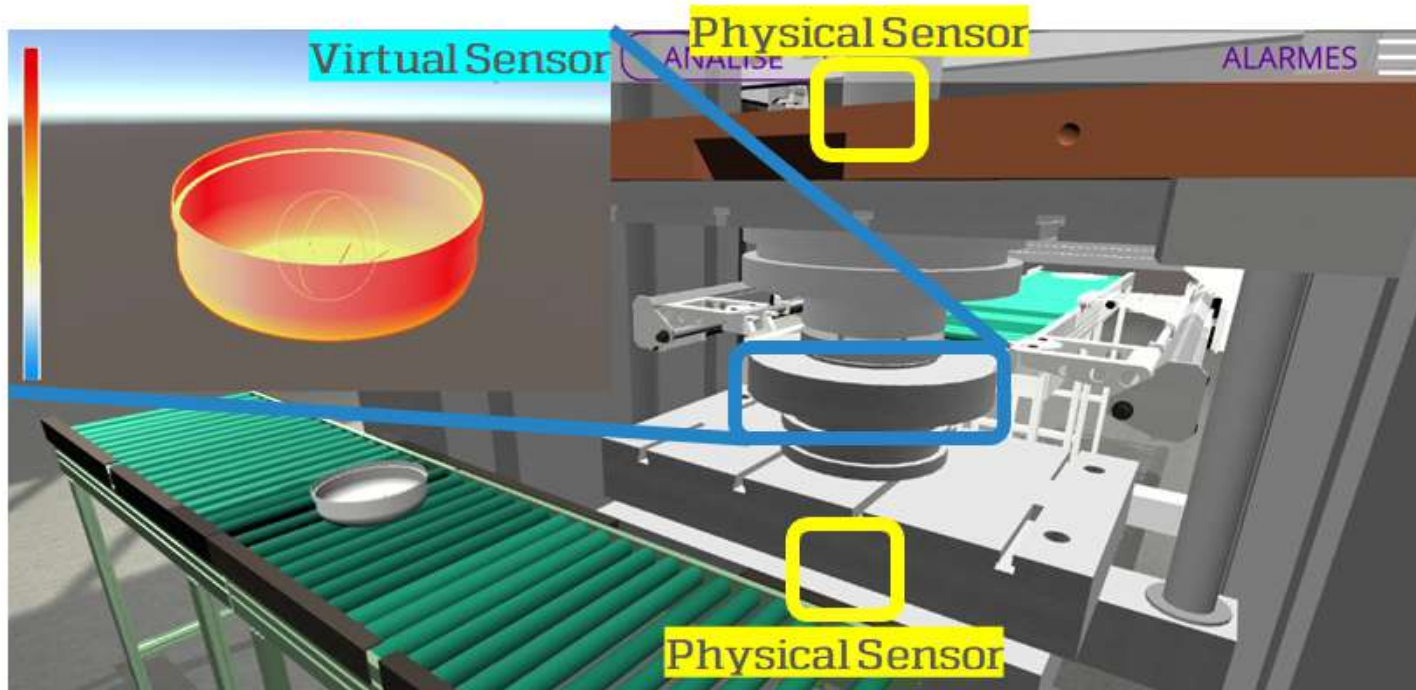
Use interoperability with suppliers to streamline processes and avoid disruption

Enhanced Collaboration

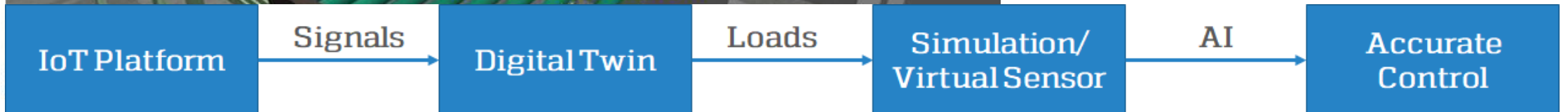
Extended reality enable to create and collaborate immersively using natural interface: hands and language



# >The Technology 3D Digital Twin and Virtual Sensor

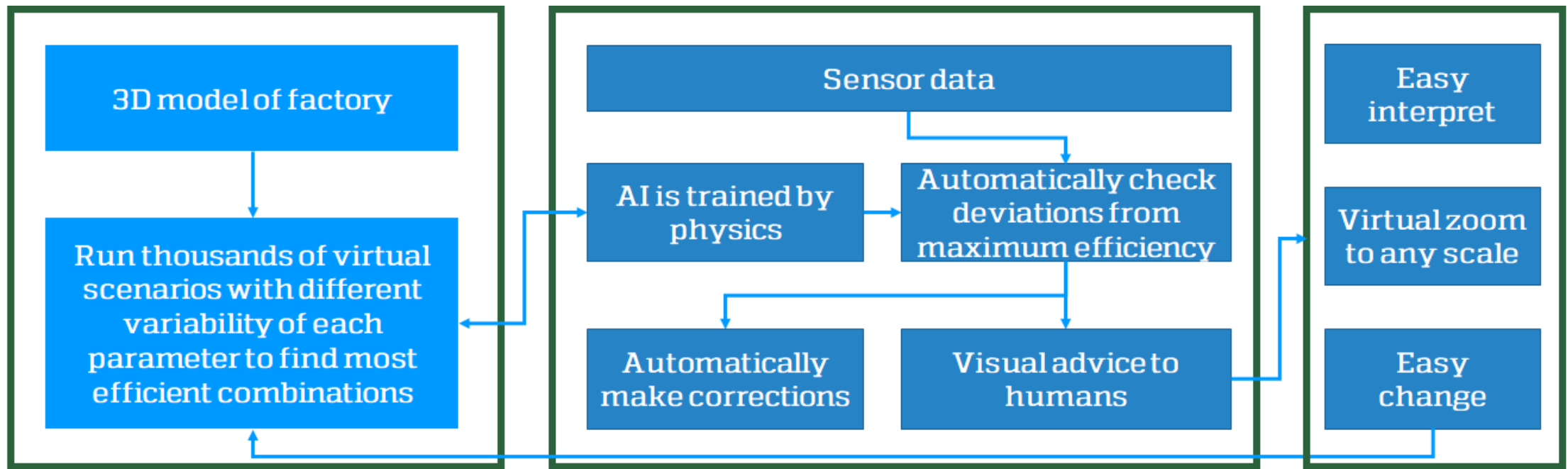


- 3D real-time integrated environment
- Domain that runs physics to improve control accuracy by 50% where data is limited to indirect sensors
- Simulate any parameter and layout change to optimize operation
- Connect 3D digital twins for supply chain traceability - Metaverse





# > **Virtual Sensor** Physics-Based AI Model of Factory



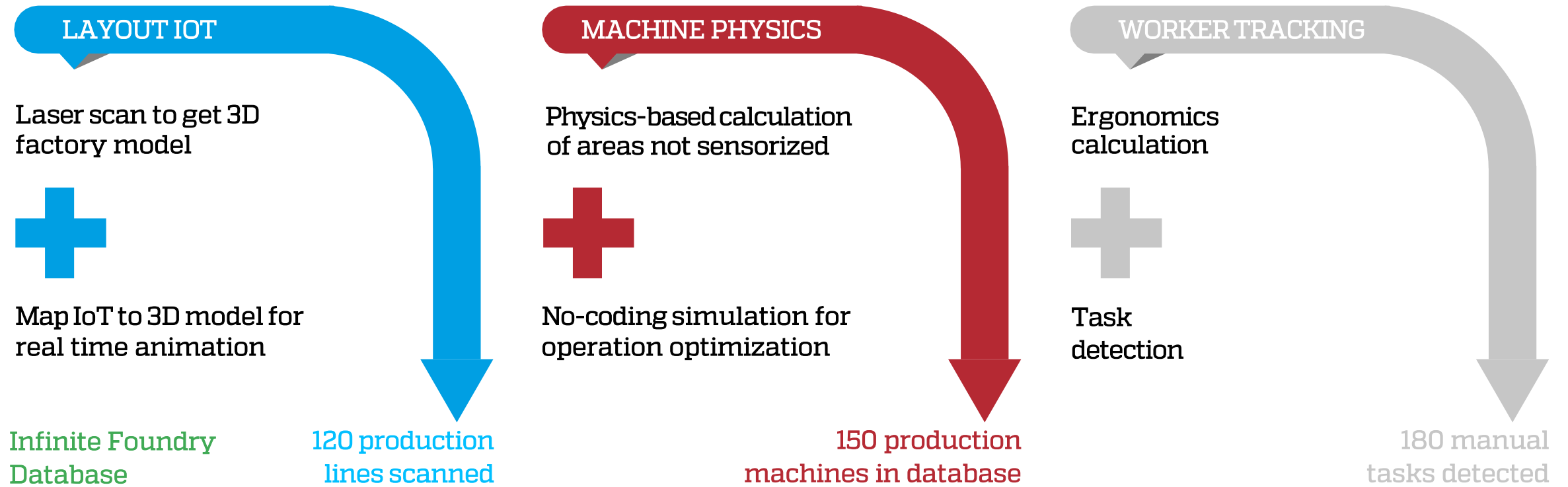
Virtual Commissioning - Offline Physics

3D Digital Twin - Online AI

3D Gamification



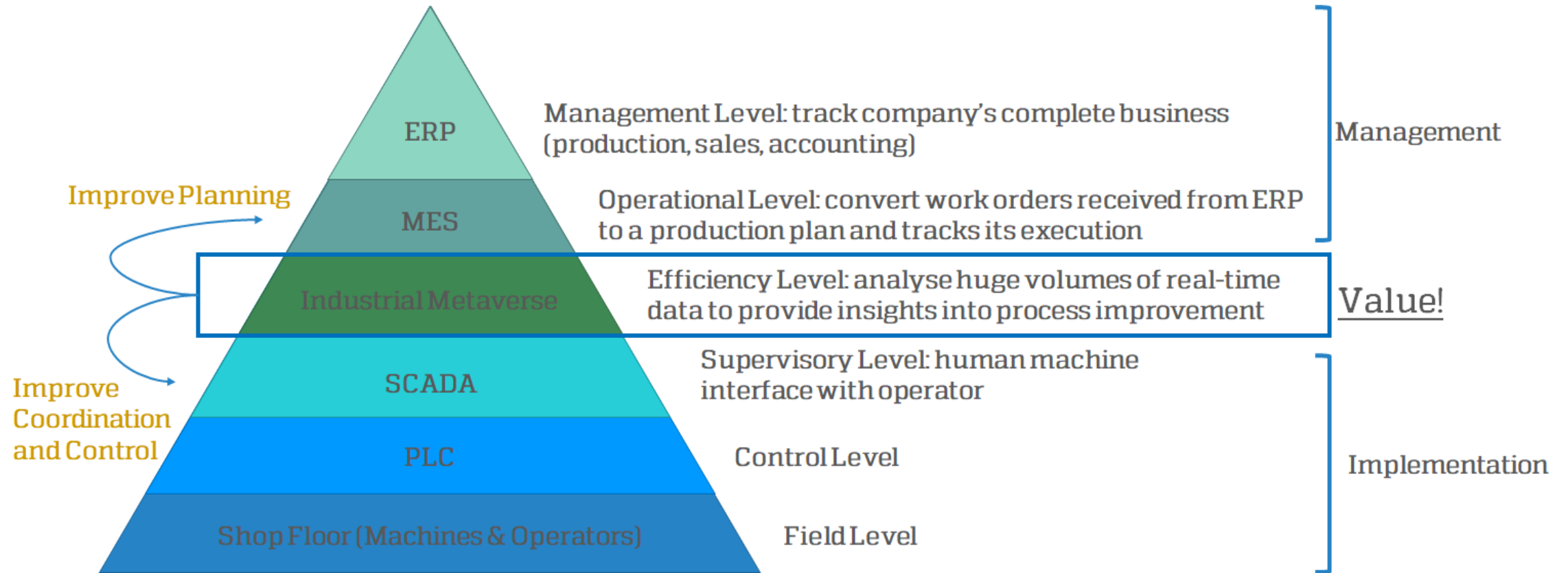
# >Main Components Industrial Metaverse





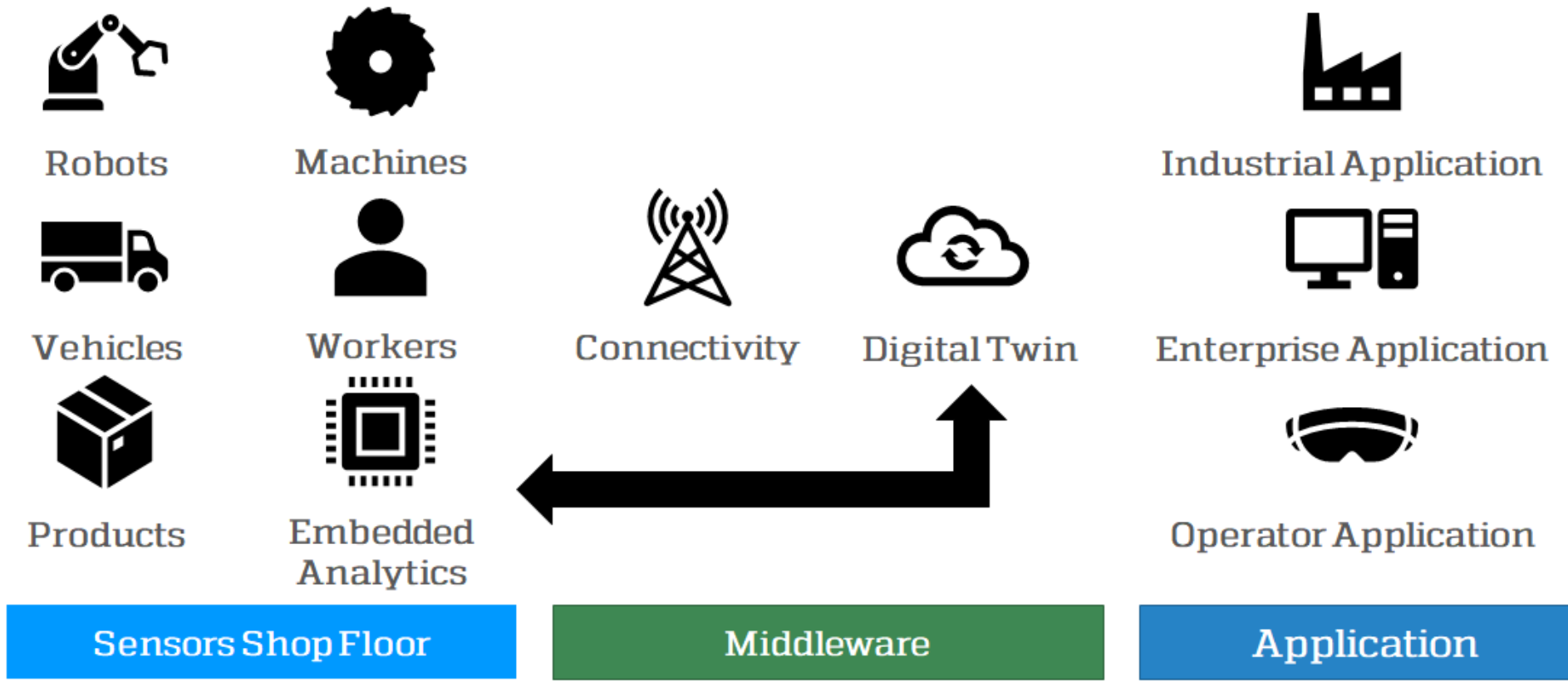


# >Market Position



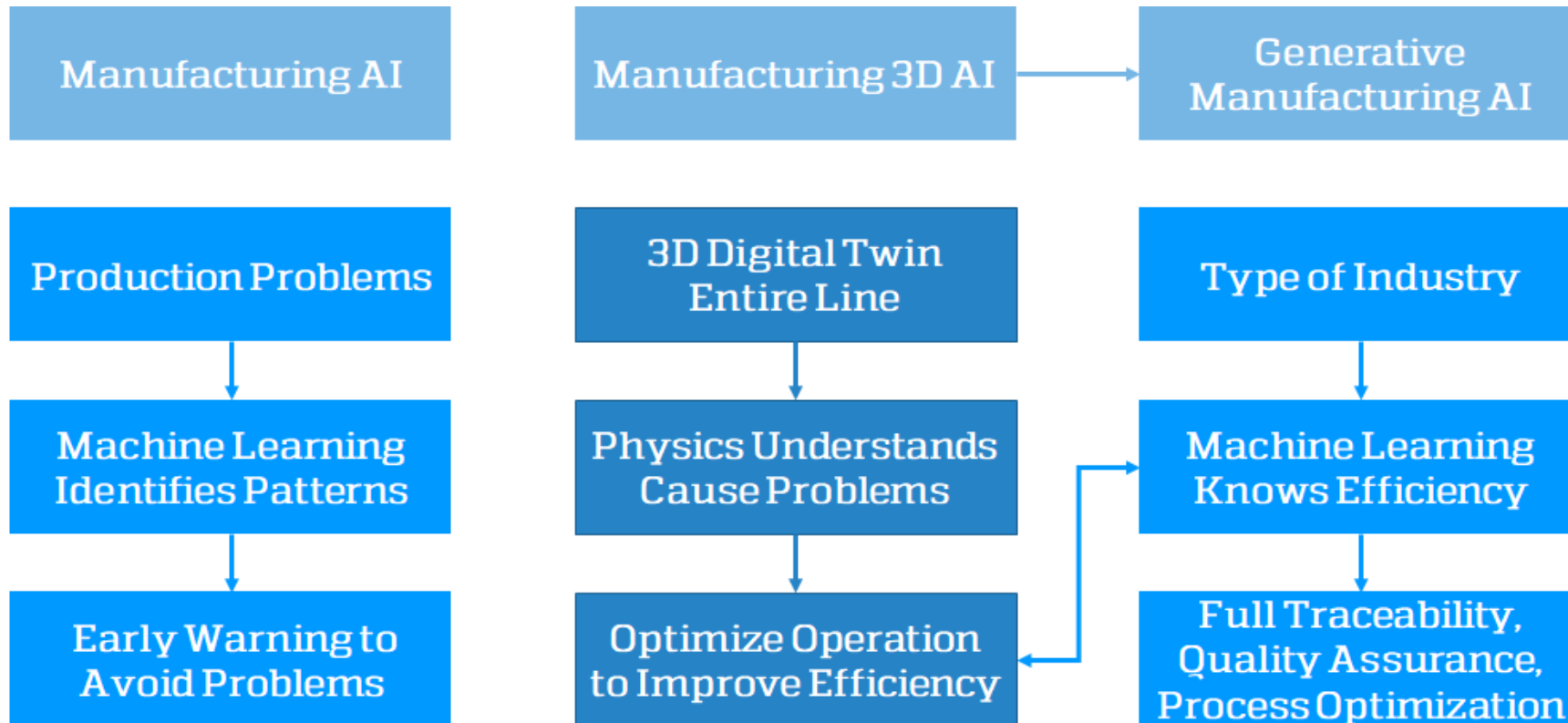


## > Architecture





## > **Evolution** Standard AI to 3D and Generative AI





# > Efficiency

## Massive improvement with metaverse

Efficiency Improvement	IoT Platform	Infinite Foundry Metaverse
Predictive Maintenance	5% Alerts Before Breakdown	10% Optimizes Machine Design
Process Automation	5% Alerts Operator Anomaly	15% Optimizes Line Parameters
Quality	5% Detects Bad Quality	10% Resolves Quality Problems
Worker	-	10% Reduces Worker Variability
Logistics	5% Material&Parts Traceability	10% Optimizes Lean Principles
Supply Chain	-	15% Digital Thread Value Chain
<b>TOTAL</b>	<b>20%</b>	<b>70%</b>



# > Competition

Industrial Metaverse Combines Dissimilar Disciplines

**VR/AR**

- NAVVIS
- unity
- TRANSFRVR™
- STRIVR
- TALESPIN
- ATTENSI

**Simulation**

- DELMIA
- Ansys
- TECNOMATIX
- rescale

**IoT/AI/IT**

- AVEVA
- thingworx®
- SIEMENS Mindsphere
- PARSABLE
- SAP Leonardo
- V

- + Motion tracking
- + Physics-based 3D AI
- + Supply chain integration



# > Customers

## Automotive



Mercedes-Benz



RENAULT



SAINT-GOBAIN



**BOSCH**

## Other Industries



EMBRAER



VALE



LG



SAMARCO



camargo  
corrêa  
infra

**Vestas**



# Thank you



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