



Welcome to Capgemini's Innovation Day

Digitalizing the GSK value chain empowered by intelligent compliance

Tuesday, September 10th 2024



Agenda

10:30



WELCOME

10:45



INTRODUCTION

Marie-Caroline Saint-Ghislain
Véronique Mouton & Laetitia Soudanas

11:00
-12:15



INSIGHTFUL KEYNOTES

- GSK INNOVATION ROADMAP
Marie-Caroline Saint-Ghislain
- HOW WILL GENERATIVE AI REVOLUTIONIZE THE
LIFE SCIENCES INDUSTRY?
Virginie Marelli, Justin Melnick
- LOOKING BEYOND SMART FACTORIES
Christophe Coléry, Daniel Coudriet

12:20



CONCLUSION

TECH CORNERS PRESENTATION
Frédéric Burger

12:30
-14:00



NETWORKING LUNCH & TECHCORNERS

Keynotes

TECH Day Intro Code

MC St Ghislain



Boostez votre quotidien avec
l'intelligence artificielle (IA)

Objectif:

« Demain, j'utilise l'AI pour mes tâches du
quotidien! »

Contact AI: **CoreTeamIA Vx-MfgQ-Belgique** : CoreTeamIA_Vx-MfgQ-Be@gsk.com

Contact Compétences Digitales: Sarah Belaïd



Le Saviez-vous en Belops/Quality?

1 Core Team AI en BelOps/Q mis en

Objectif: **Deployons la roadmap IA Site belge – suivie en Steerco Smart Manufacturing**

4

Delivery prioritaires en 2024

(ea. Gigi general awareness, Deviation Summary, MES AI Val Assistant, CBL with AI) – Work 4h/Week with Core team



Un besoin/une idée?

Contactez votre Digital Officer (LMSAT: Sarah Belaïd/Marie-Caroline Saint-Ghislain depuis sept 2024) et/ou LBO des process associés pour confirmer la demande dans le pipeline Smart Manufacturing



Des experts à votre écoute

New! LSME AI BE = Pierre Louis

Duty Holder: Benoit Slegers

LBO DOC/QMS: Jordane Roekhaut

LBO Déviation: Marc Richard

LBO MES/MPMS/PPI: Fabian Kimplaire

.....

LBO eCC/Release: France Cassart

LBO Learning: Valérie Druart

LBO Maintenance, Val, C&M: Olivier De Suray

LBO WM/Cold chain/EM/Sample: Stéphanie Menegatti

P&P Data Analytics: Badiia Bouzya

Be AI
Core
team

Marie-Caroline Saint-Ghislain, Danny Derudder, Darina Ivanova, Jordane Roekhaut, Valérie Druart, Olivier de Suray, Pierre Louis, Eric Lauwers, Denis Avrouin, Jean-Thierry Pycke, Badiia Bouzya,, Leo Gerasimov, Virginie Marelli, Simon Delacroix, Roser Sens Espel, Julie Laudelout

1 Pt de contact pour les compétences digitales

Objectif: **Deployons la roadmap DDA Capability Site belge – suivie en Steerco Smart Manufacturing**

3

Populations cibles

(les users finaux, les leaders et les experts)



Besoin de developper votre équipe/département en digital?

Contactez votre Digital Officer et/ou Sarah Belaïd (DDA Capability Lead)

Informations importantes:



- Prochainement **l'heure digitale** sera lancée le 27 septembre pour Belops/Q
- Participez à la **culture week**



How will Generative AI revolutionize the life science industry?

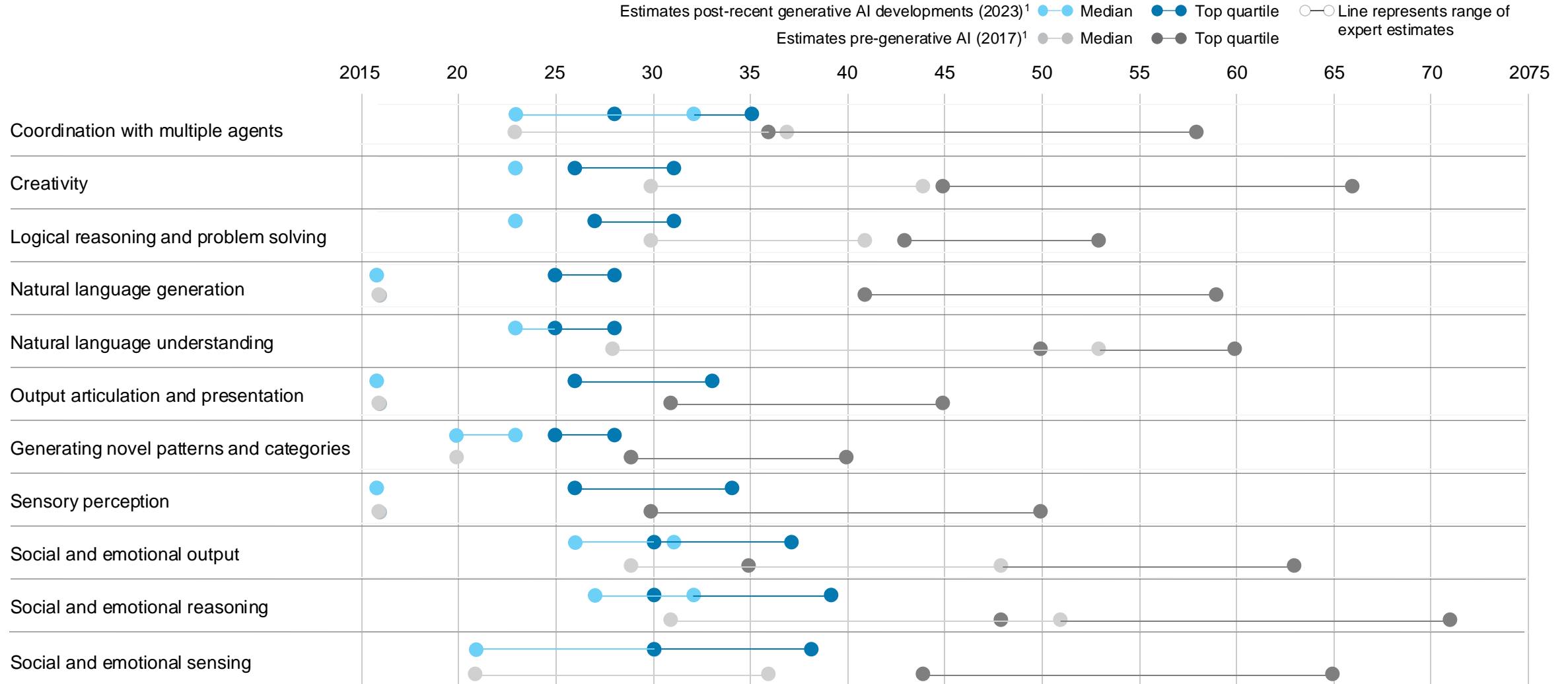
Innovation Day

Virginie Marelli



Human level performance of AI (AGI) for tasks become achievable in the near future

Technical capabilities, level of human performance achievable by technology



1. Comparison made on the business-related tasks required from human workers. Please refer to technical appendix for detailed view of performance rating methodology.

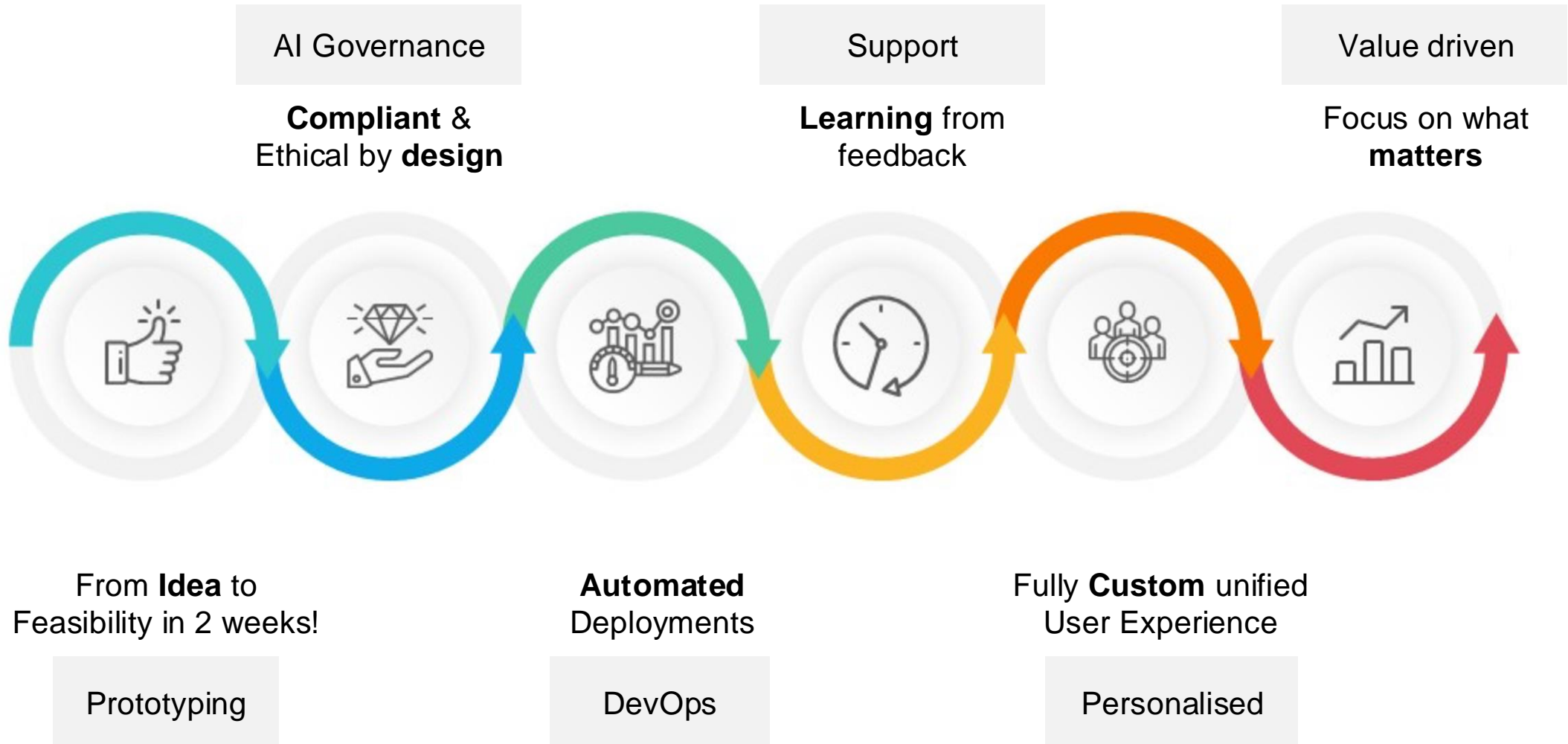
Source: Expert interviews, MGI occupation data base

Capgemini Innovation Day | 10th September 2024

GSK

Unlock the power of Gen AI with AIGA

The AI Generation Accelerator



GSK AI Principles

Our five key principles for AI at GSK are:



These principles are essential for how we use AI safely, responsibly and ethically.

These principles are underpinned by maintaining human oversight in critical decision-making processes involving AI tools and systems, and avoiding fully autonomous AI solutions in areas with significant ethical and/or legal implications.



Pioneering Life Science with **ARTIFICIAL INTELLIGENCE**

How (gen)AI will revolutionize the life science industry – *A life scientist's perspective*

Justin Melnick – Life Sciences Transformation Partner





Artificial Intelligence Is not as new as you think it is

1949 Warren Weaver proposes the idea of statistical machine translation, which now forms the basis of most translation systems



1950 Alan Turing proposes framework for creating and evaluating intelligent machines

1951 First Neural Network SNARC is built at MIT

1951 Chess and Chequers playing algorithms run for the first time

1958 LISP programming language invented to support AI research

1959 MIT AI Lab is founded

1961 First Robot works on a production line



1963 Support Vector Machines invented

1965 Natural Language Processing able to understand and solve written problems, and have simple interactive conversations (ELIZA)

1965 First Expert System is produced

1969 Mobile Autonomous Robots combine together multiple AI systems

1956 Artificial Intelligence is coined as a term and academic interest explodes

1974 MYCIN AI system used in medical diagnosis

1971 First Deep Learning Systems created

1980 Neural networks used routinely on vision problems

1975 Back-propagation kick-starts neural network application

1973 Vision Controlled Robots perform complex tasks

1986 Autoencoders first used

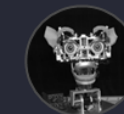
1986 Hinton et al refine use of backprop to achieve massive improvements

1970s Natural Language Processing performance increases dramatically



1955 Arthur Samuel creates a chequers system that **learns** to play and human equivalent level

1980s



2004 DARPA Grand Challenge catalyses huge progress in autonomous driving

1982 Hopfield invents recurrent neural networks

1986 Decision trees invented
1986 First autonomous vehicles drive on the streets

1989 Yann LeCun uses CNNs to perform character recognition

1990s

2009 Google Autonomous Car demonstrates human-equivalent performance

2006 AI is 50 years old as an academic discipline

2012 Siri, Alexa and Google Assistant revolutionise our interaction with technology

2002 Roomba becomes the first mainstream domestic AI device

2000s

1998 Use of AI revolutionises web-search performance

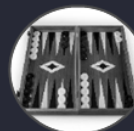
1997 AI becomes world champion at chess

1995 Random Forests invented
1995 Support Vector Machines with kernel trick

1994 AI becomes world champion at checkers

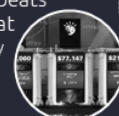
1993 1000 layer deep network used to solve grammar learning tasks

1991 TD-Gammon uses reinforcement learning to create championship-level backgammon player



2010s

2011 IBM Watson beats humans at Jeopardy



2014 Deep Learning allows image recognition systems to surpass human performance

2014 GANs catalyse a leap in generative AI by using competing networks.

2015 TensorFlow released by Google Brain

2015 AlphaGo becomes world champion at Go

2016 TPUs accelerate neural network training

2017 AlphaZero becomes world champion Go and Chess by playing only against itself.

2023 Language turns to structure 100s of millions of protein structures predicted at a click

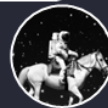
2017 Transformer networks revolutionise language processing.

2022 ChatGPT thrusts Generative AI into the mainstream

2023 LLMs everywhere small and large with greater capability

2017 Graph Convolutional Networks open up a new class of ML applications

2020 Transformers adapted to vision tasks produce a step change in performance



2022 DALL-E 2, Imagen and Stable Diffusion produces realistic images in response to text prompts.

2018 Deepfake technology demonstrates a sudden jump in generative methods

2020 GPT-3 produces human-like written language.

2020s



Illustrating just how much computational power we now have access to.





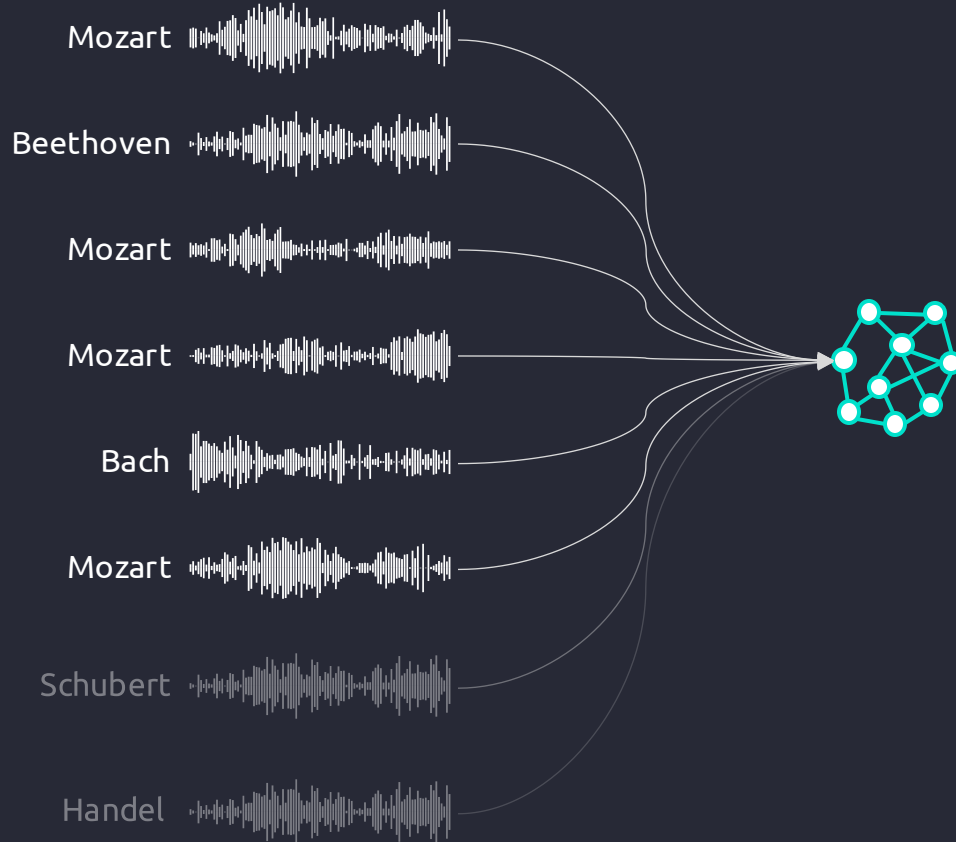
Advances in
digital tech
and
scientific
innovation
are
converging

Co-pilots
Multiscale modelling
Scientific foundation models
Hybrid modelling
Synthetic data
RL
AI surrogate models
Digital twins
Privacy enhancing technologies
Contextual AI
Generative design
Knowledge engineering
Physics informed NNs
Personalisation
Multi-agent systems

Gene editing
4D printing
Robotic automation
Microbiome
Novel battery chemistries
Green chemistry
Biomaterials
Carbon capture
Spectral imaging
Hydrogen
Spatial multi-omics
Quantum computing
Synthetic biology
Organoids
Brain-computer interfaces
Connected systems



TRAINING



Dominated by text, and Foundation Large Language Models (LLMs) trained on 'the internet'.

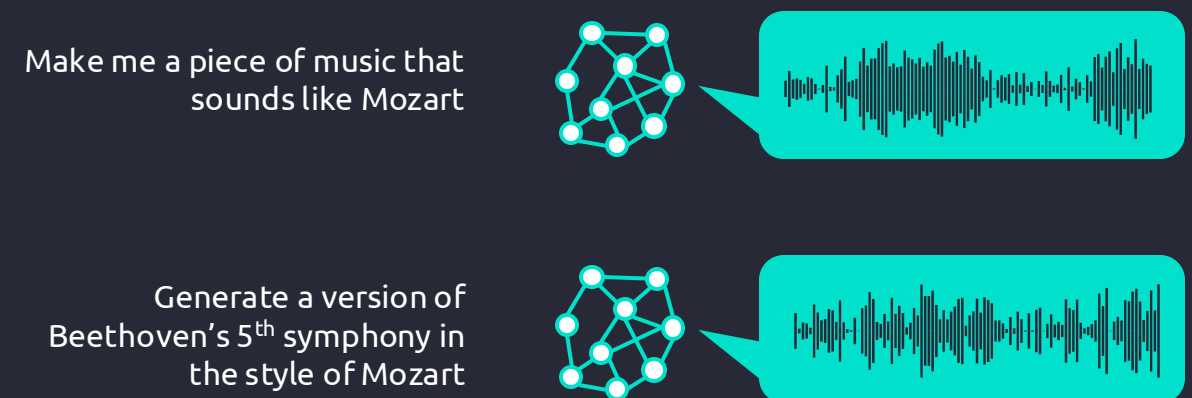
Music, text, pictures, audio, video, code, designs, events, geometry, materials, chemicals, ...

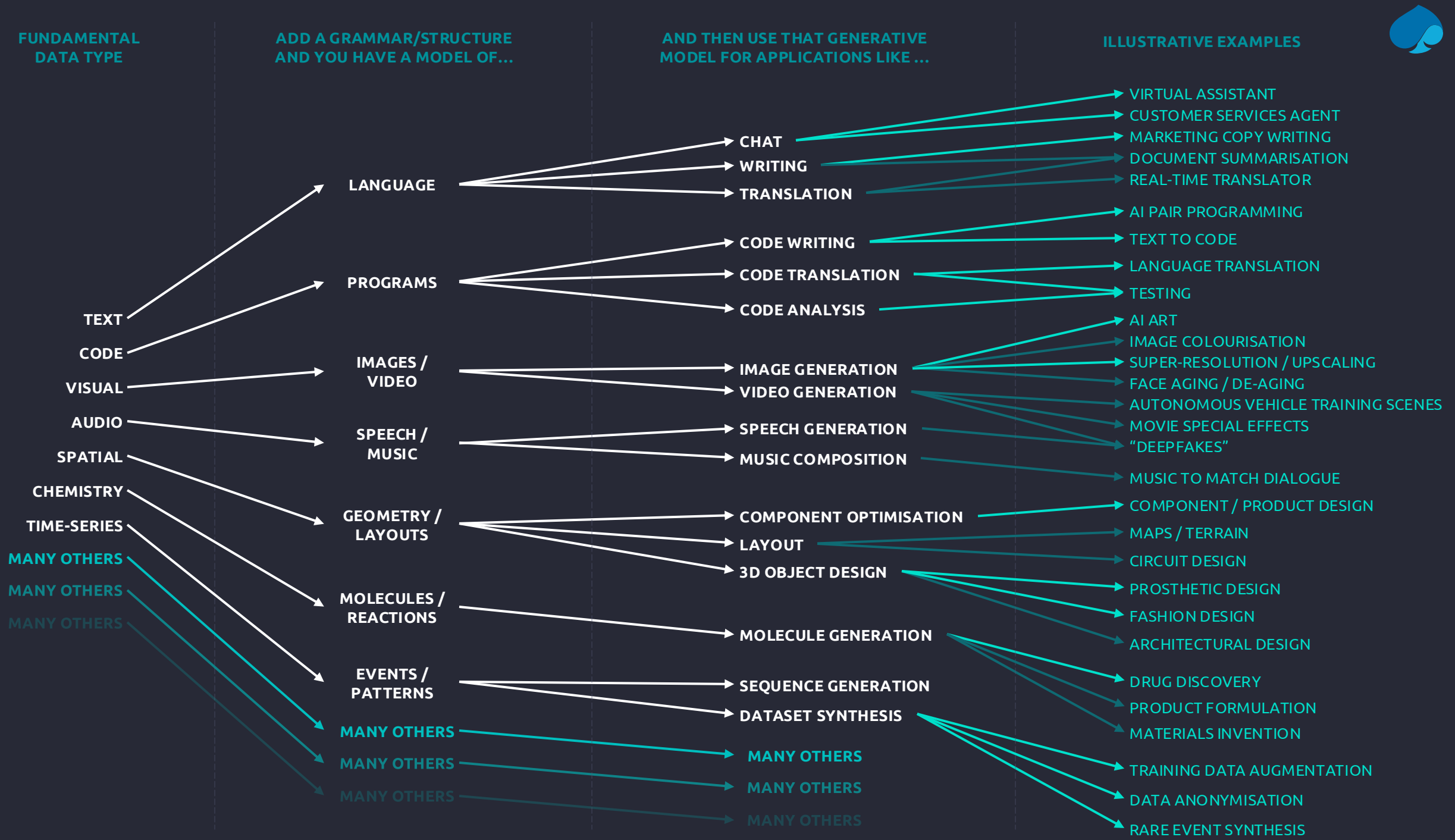
The quality of any kind of AI System is heavily dependent on the quality of its training data.

CLASSICAL AI USAGE





GENERATIVE AI USAGE





How will generative AI impact the life science industry?



		
NOW (24-25)	<ul style="list-style-type: none">• Accelerate screening• Drafting of regulatory documentation	<ul style="list-style-type: none">• Streamlining processes and amplifying insights• Design novel molecules• Synthetic data for clinical trials• Content creation
NEXT (25-27)	<ul style="list-style-type: none">• Accelerate move to personalized medicine• Analyze multimodal data sets and infer	<ul style="list-style-type: none">• Personalized medicine and precision targeting• Identify patient sub-types• Drug repurposing• Targeted therapies
NEW (28+)	<ul style="list-style-type: none">• AI designs drugs from scratch• New classes of drugs• Help untreatable conditions	<ul style="list-style-type: none">• Reimagining healthcare with AI-driven solutions• AI-powered diagnostics• Virtual assistants for Healthcare• Drug discovery ecosystems

Generative AI has the Potential to Shape The Life science industry



NOW (2024-25)

CREATING CAPABILITY

Use case banks exist, proof of concepts completed and learning loop being introduced with aim to build our core GenAI capabilities.

Summarization and language techniques unlocking insights (e.g. genomics, LIMS data, new sensor data)

New **Operating Models** at enterprise



NEXT (2025-27)

AUGMENTATION

Generative AI combined with Conversational AI and Predictive AI everywhere

Co-Pilots and AI Assistants across the value chain, using custom and area-specific Multimodal Generative AI

Reengineering of key processes, incl., in molecule design and biomanufacturing



NEW (2028+)

RE-INVENTION

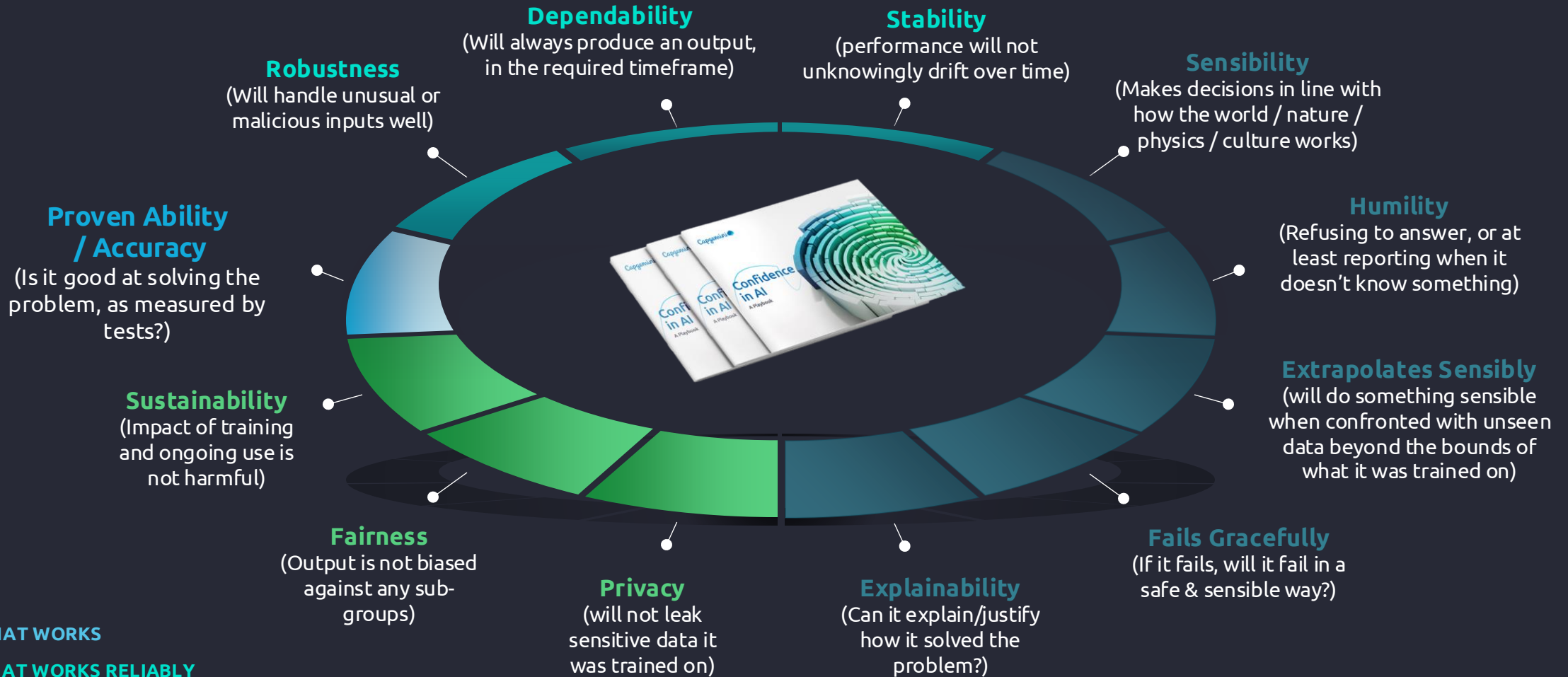
Augmentation to **re-invention**

Next-Generative context-aware AI-assistants fused with physical, capturing knowledge and using it experiment and enable decisions, together with people.

Fully automated labs, factories, supply nodes and customer eco-systems

Facets of Trust in AI

What do people need to see before they have confidence in an AI system?



AI THAT WORKS

AI THAT WORKS RELIABLY

AI THAT WORKS IN PEOPLE'S BEST INTERESTS

AI THAT'S ALIGNED WITH HUMAN EXPECTATIONS

Confidence in AI Playbook

Principled deployment – perfect delivery of desired value



With principled
DEPLOYMENT,
CHANGING THE
DNA OF WORK
AT YOUR
ORGANIZATION



AUGMENTATION

There is huge power but also limitations of Gen AI.
it augments knowledge workers it does not replace them.

FLOW

GenAI output is not guaranteed to be correct, so must be placed inside
an end-2-end engineering process to maximise the flow of value &
minimise waste.

INDUSTRY

Gen AI is 'not magic', it does not have domain understanding,
We need to supplement to bring value to a specific domain, with
knowledge of the base science or engineering.

INTEGRITY

Basic engineering principles apply to manage key attributes
(quality, security, safety, standards), and the issues of bias
and sufficiency of training data.

SUSTAINABILITY

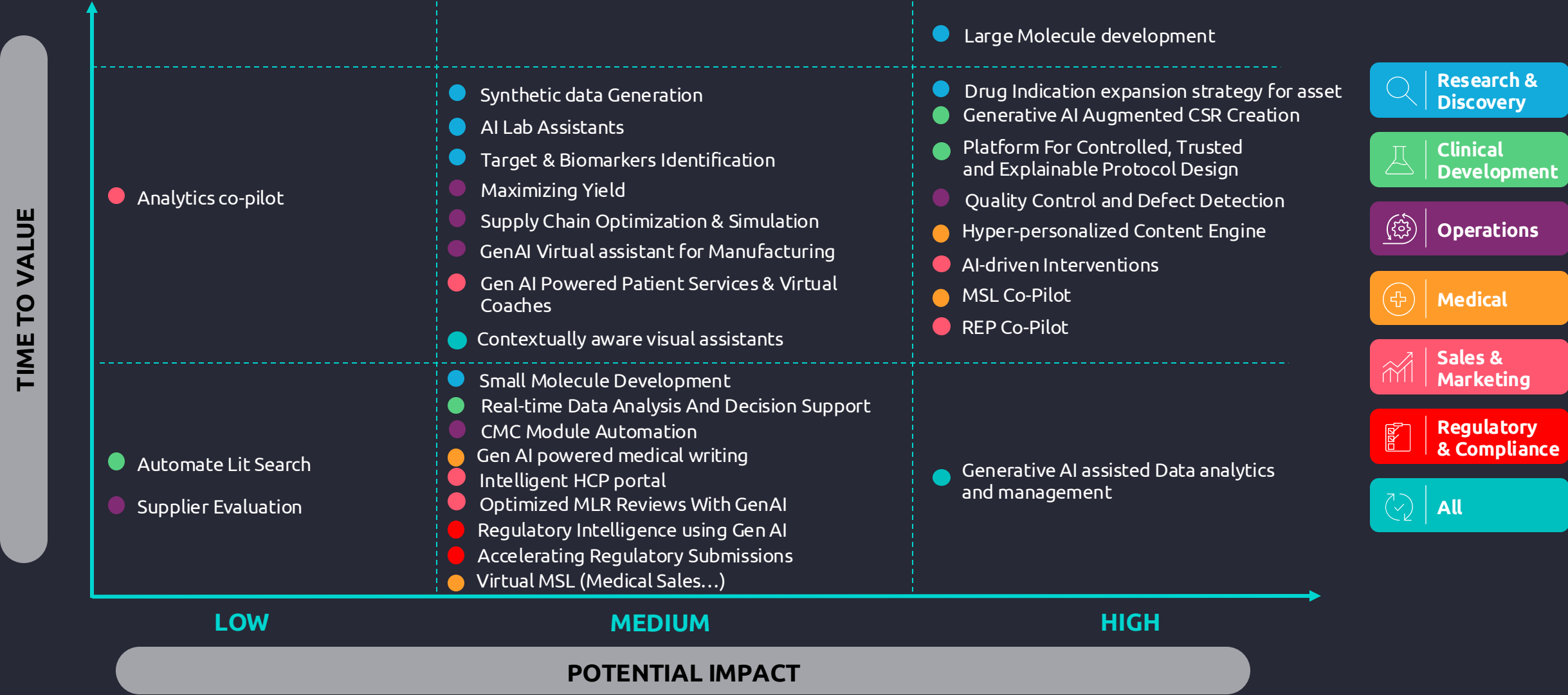
We aim for cheaper and focused models which are
more performant and energy efficient.

Some Key Considerations and Best practice for Adoption and scale



Our perspective on Prioritized Generative AI Use cases along the Pharma value chain

MAPPING IMPACT AND ADAPTATION TIMELINE



The GenAI use cases can be categorized in different families based on their core functionality to facilitate the reusability



	KNOWLEDGE EXTRACTION, AGGREGATION AND INSIGHT GENERATION	HIGHLY SPECIALIZED AGENTS	CONTROLLED TRUSTED DOCUMENT GENERATION	GENERATIVE MODELS ACTING AS ORCHESTRATORS	CREATIVE CONTENT GENERATION
Research & discovery	<ul style="list-style-type: none"> Automate Lit Search Drug Indication expansion strategy for asset Target & Biomarkers Identification 	<ul style="list-style-type: none"> AI Lab Assistants 		<ul style="list-style-type: none"> Large Molecule development Small Molecule Development 	<ul style="list-style-type: none"> Synthetic data Generation
Clinical development	<ul style="list-style-type: none"> Real-time Data Analysis And Decision Support 		<ul style="list-style-type: none"> GenAI Augmented CSR Creation Platform for controlled, trusted & explainable protocol design 		
Operations	<ul style="list-style-type: none"> Supplier Evaluation Supply Chain Optimization & Simulation 	<ul style="list-style-type: none"> GenAI Virtual assistant for Manufacturing 	<ul style="list-style-type: none"> CMC Module Automation 	<ul style="list-style-type: none"> Maximizing Yield Quality Control and Defect Detection 	
Medical		<ul style="list-style-type: none"> MSL co-pilot Virtual MSL (Medical sales) 	<ul style="list-style-type: none"> Gen AI powered medical writing 		<ul style="list-style-type: none"> Hyper-personalized Content Engine
Sales & marketing	<ul style="list-style-type: none"> AI-driven Interventions Intelligent HCP portal 	<ul style="list-style-type: none"> Analytics co-pilot REP co-pilot 	<ul style="list-style-type: none"> Optimized MLR Reviews With GenAI 	<ul style="list-style-type: none"> GenAI Powered Patient Services & Virtual Coaches 	
Regulatory & compliance	<ul style="list-style-type: none"> Regulatory Intelligence using Gen AI 		<ul style="list-style-type: none"> Accelerating Regulatory Submissions 		
All	<ul style="list-style-type: none"> Generative AI assisted Data analytics & management 	<ul style="list-style-type: none"> Contextually aware virtual assistants 			<ul style="list-style-type: none"> Hyper-personalized Content Engine

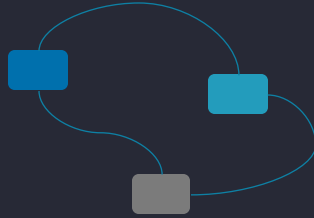


Many Gen AI use cases are built in an isolated way: Reusability of Core functionality and technical infrastructure is key to scale

Purely illustrative – not representative
of fully functional services

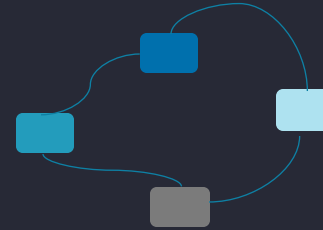
Use
Case 1

Authoring clinical trial protocol



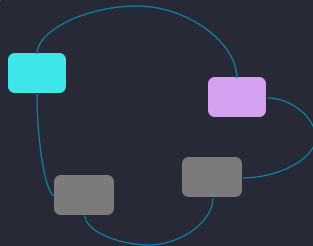
Use
Case 2

Authoring adverse event summary



Use
Case 3


Synthetic data Generation





Use
Case 4

Hyper-personalized creative content




 Core functionality (utilizing algorithms and models to generate tailored output)

 Core functionality (ingesting and analyzing and interpreting complex medical data)

 Generic technical infrastructure (e.g. open-source models)

 Generic technical infrastructure (e.g. Commercial API)

 Other componentes

Evidence Integration in a knowledge graph data base

Generative AI-query layer






About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of nearly 350,000 team members in more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2022 global revenues of €22 billion.

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A close-up photograph of a human eye. The eye is looking directly at the camera. The iris is a light, hazy blue. The pupil is dark and contains a reflection of a person sitting on a bicycle. The skin around the eye is fair with some freckles. A blue line is drawn across the image, starting from the left edge, curving around the eye, and ending near the bottom. The background is dark and out of focus.

Q&A



Beyond Smart Factories

Cross industry **autonomous operations journeys** insights

D. Coudriet | July 2024



Agenda

01 A case for yet smarter factories

02 Key considerations to make it happen

03 Cross-industry examples

- Aerospace: Digital twins for end-2-end supply-chain
⇔ manufacturing operations integration
- Automotive: MES driven autonomous operations
- Multi-industry: Intelligent control tower

04 Wrap-up

Empower your Smart Factory through real-time data processing, event-driven operations and smart agents to pave the way towards more autonomous operations. Discover how to leverage advanced use cases & technologies (end-to-end Control Tower, Digital Twin, augmented Smart Agents, Next Gen MES, predictive analytics, smart assets, people orchestration) to boost your operations.



Albeit different, most industry sectors face varying disruptions & challenges, driving the need for revamp operations models



AUTOMOTIVE	Embrace the new Electrical Vehicle requirements & needs
LIFE SCIENCE	From one size fits all to personalized drugs and continuous monitoring compliant with regulatory requirements
CONSUMER PRODUCTS	From mass production to mass customization and connected services
SEMI CONDUCTORS	New Chips generation technologies - Ramp up & acceleration
AEROSPACE AND DEFENSE	From product to performance contract management
ENERGY & UTILITIES	From centralized mono-energy to distributed multi-energy model



There is a huge value to realize from digital technologies in manufacturing to enable the physical world..

+20%

Increase in throughput due to better visibility and availability of assets

+10%

Increase in process yield thanks to ai/ml enabled process control

+40%

Increase in labour productivity due to smart automation and paperless operations

+20%

Increase in fulfillment Kpis due to better demand visibility and more flexible production

Some examples of data driven digital manufacturing applications are ..



Real time Performance visibility
To allow faster response



On-line quality control
To reduce scrap



Energy management
To save consumption



Closed-loop operations
To optimize use of resources



Smart maintenance
To optimize the availability/maintenance cost ratio



Predictive performance
To improve yield & throughput



Enhanced operator
To augment competencies



Intelligent automation
To automate repetitive tasks

Digital is Lean 4.0: a new set of tools to go beyond traditional lean limitations

New/next(?) high level of plant operations automation required



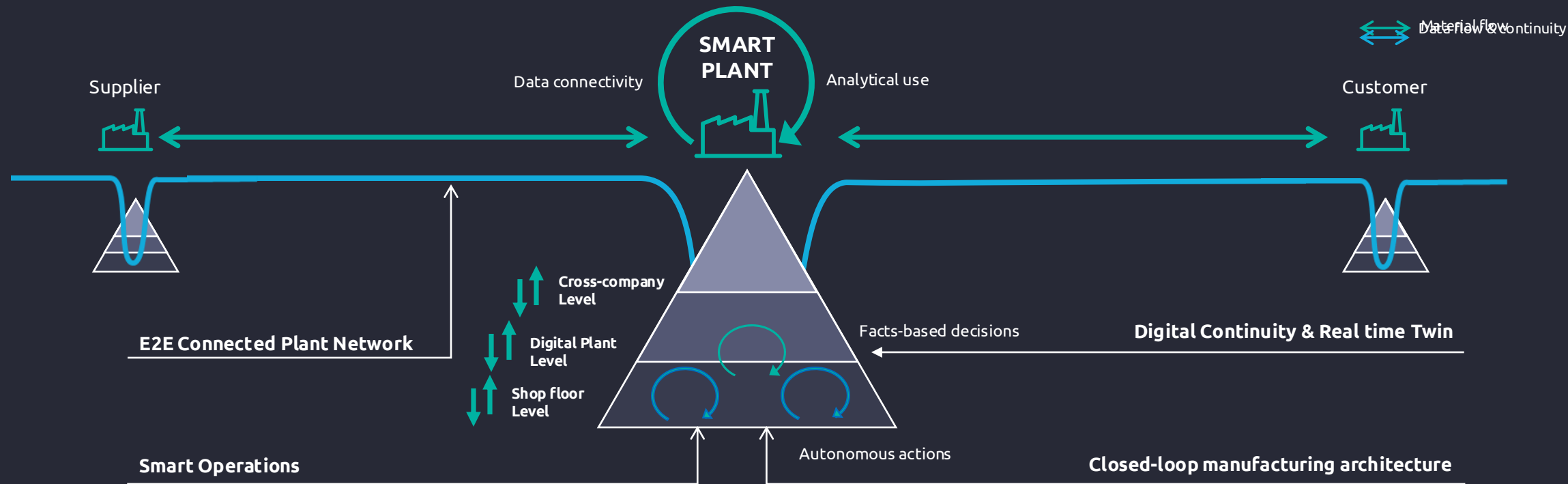
Sustainable by design



Cyber-secured by design



Human-centric by design



EMBEDDED AI



5G & HIGH WIRELESS
CAPACITY NETWORKS



ROBOTS
COBOTS



PROCESS ORCHESTRATION



BLOCKCHAIN



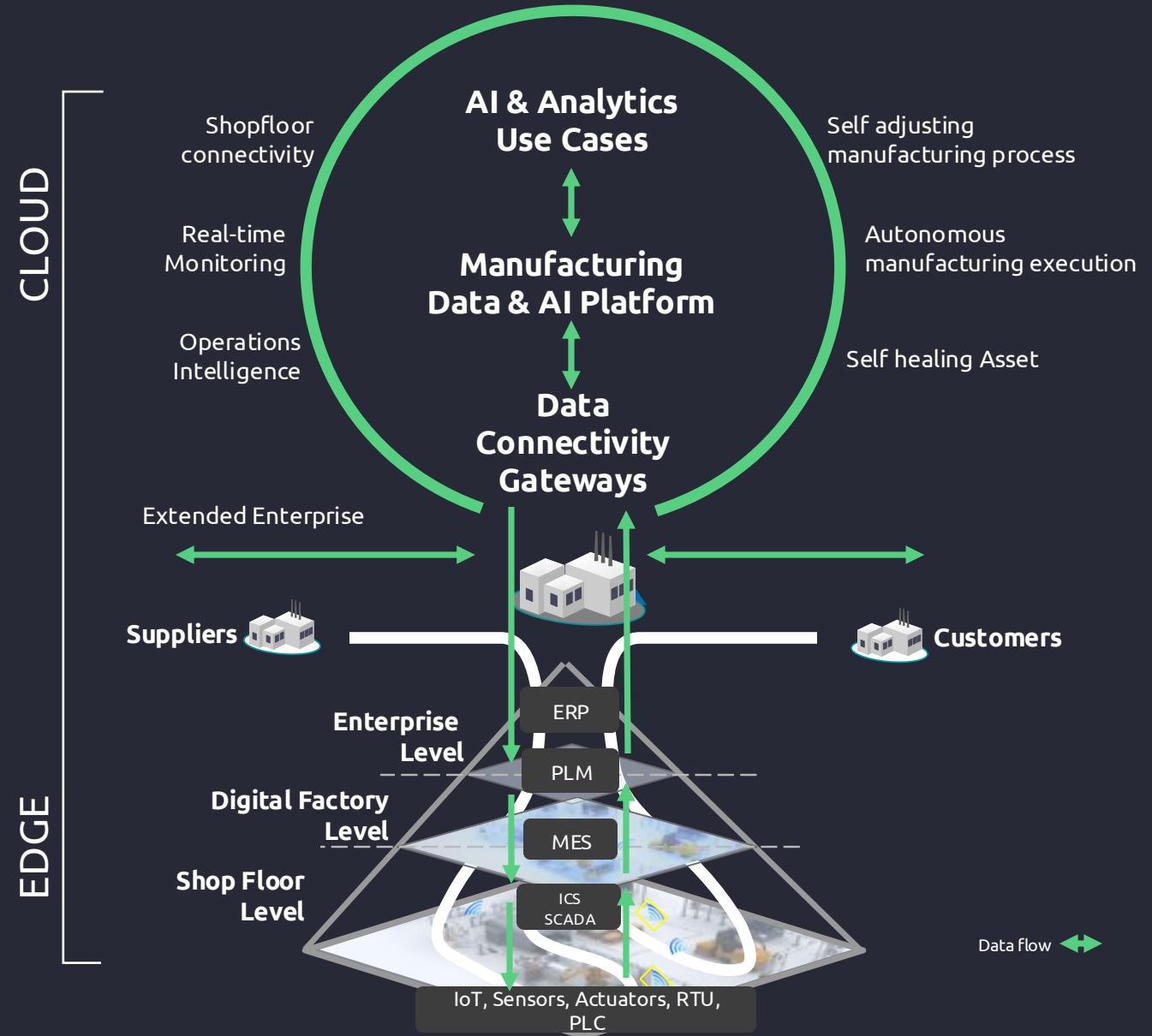
ENHANCED OPERATOR

A next gen factory



IS A PRODUCTION FACILITY THAT IS HIGHLY AUTOMATED, REQUIRING LITTLE INTERACTION TO RUN AND DELIVER SERVICE OUTCOMES...

.... the journey to more autonomous manufacturing relies on the implementation and validation of foundational industry 4.0 concepts and technologies (*Data and automation as enablers*) across different levels of maturity



Agenda

01 A case for yet smarter factories

02 Key considerations to make it happen

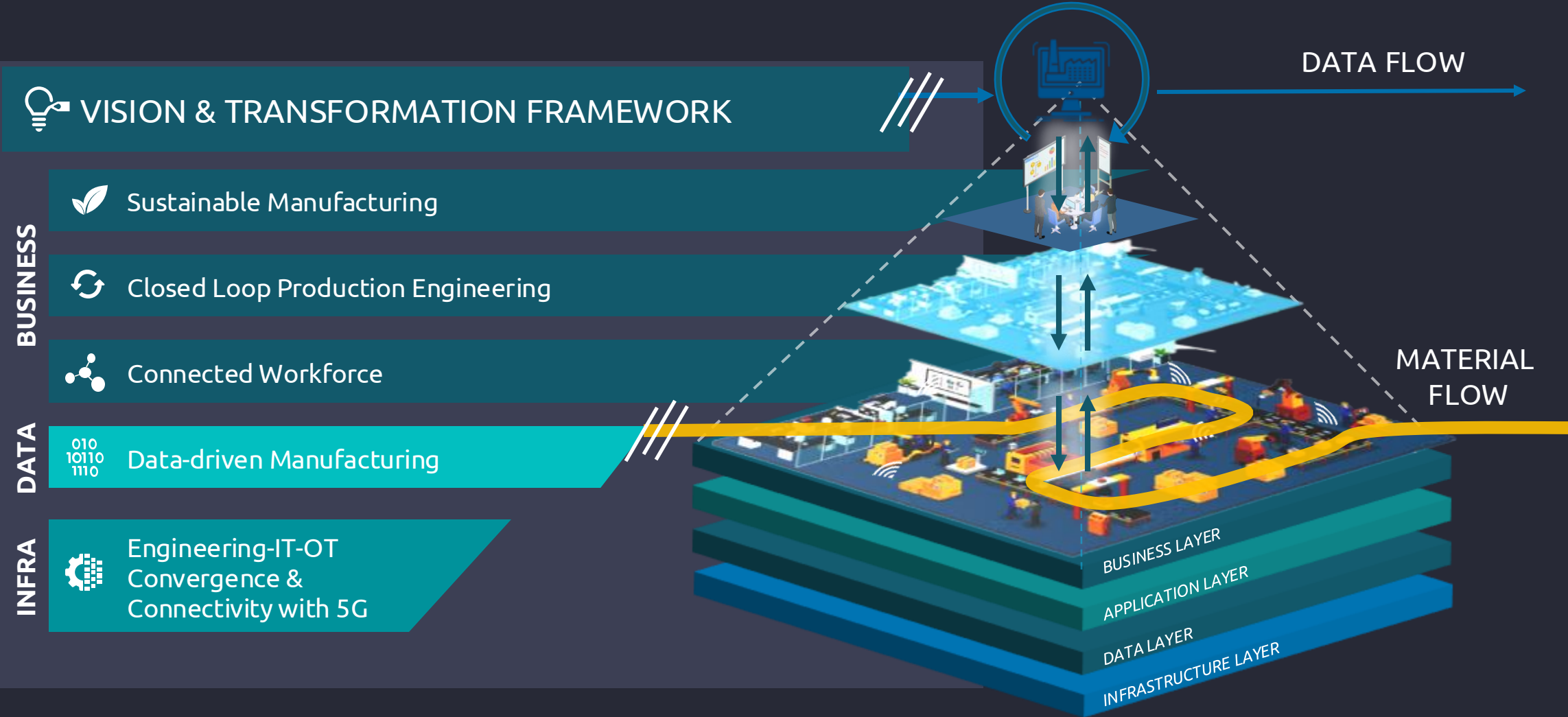
03 Cross-industry examples

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⇔ manufacturing operations integration
- Automotive: MES driven autonomous operations
- Multi-industry: Intelligent control tower

04 Wrap-up



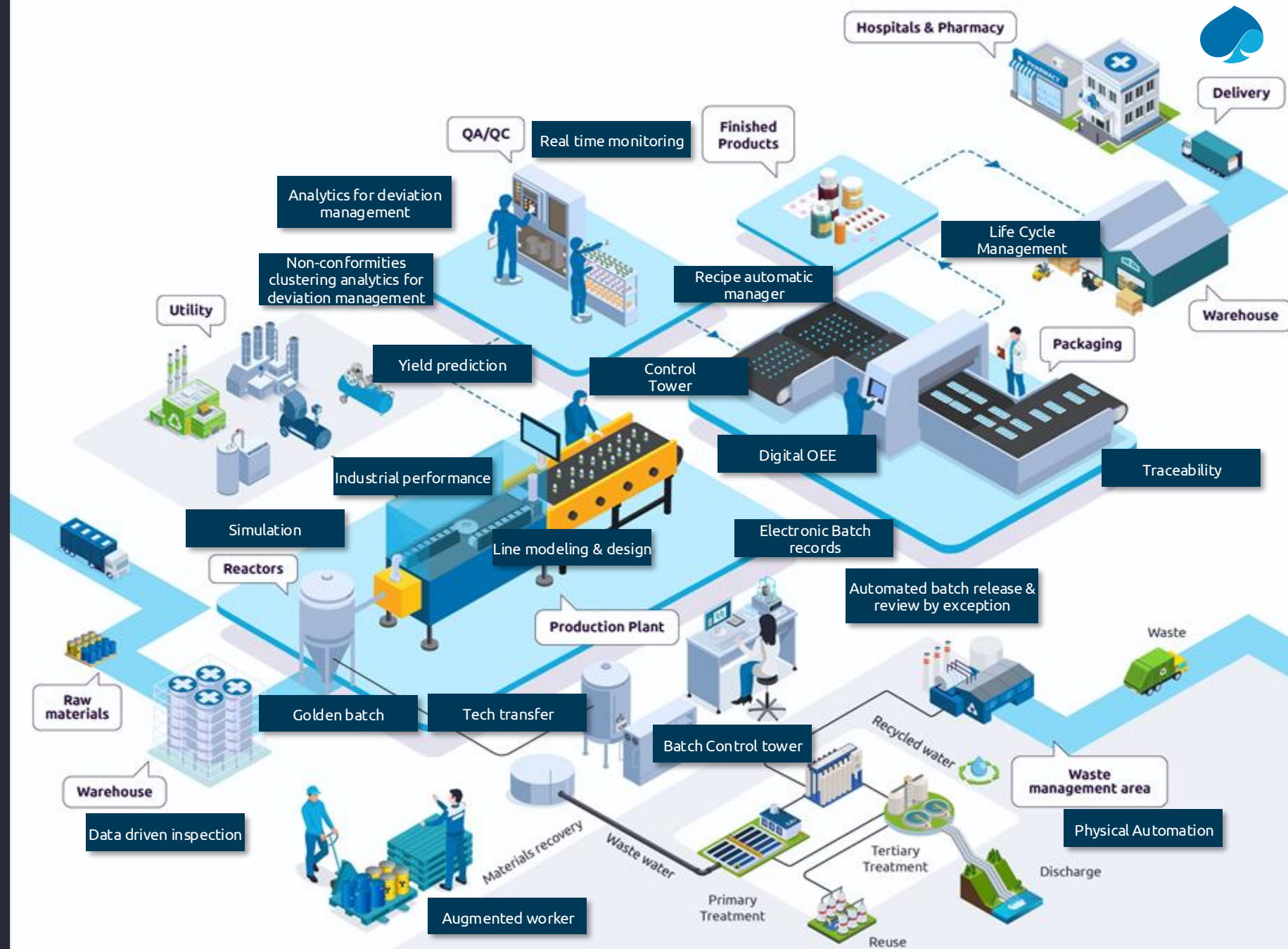
Smart Plant is the foundation of adaptability & certainty – automotive & aerospace lead the way



Next generation factories

Factory of the future ambition is based on multiple **digital use cases**

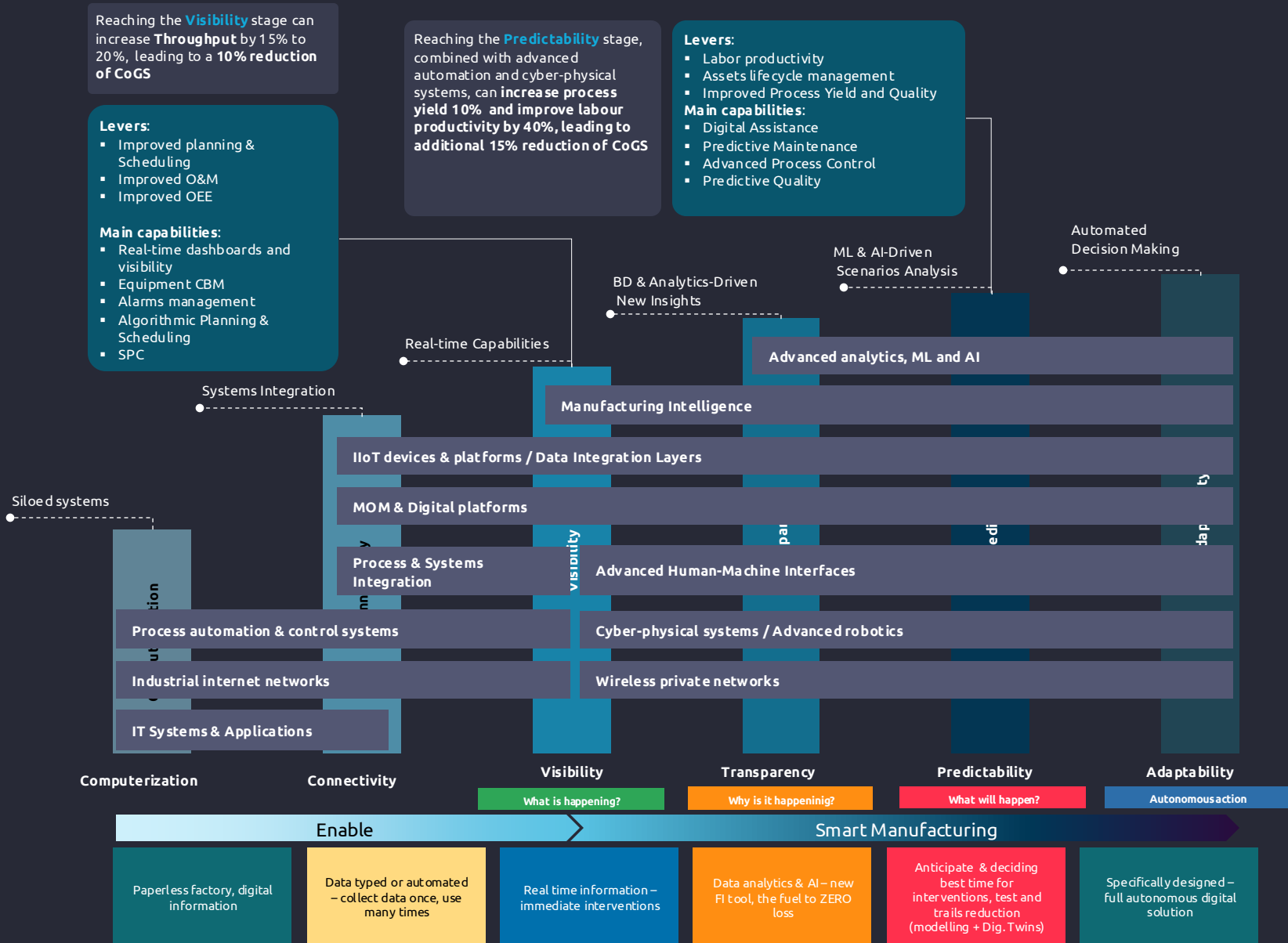
Key is to define a focused roadmap to address business priorities in a **staged and value driven approach**



Life Science manufacturers face several challenges that prevent scaled adoption of data driven approaches



The next generation of factories will be hyper connected, smart and autonomous. They will also be characterized by high adaptability and optimal resource utilization. While collaboration between man and machine will call for greater flexibility and adaptability, it also offers people the prospect of better, more fulfilling jobs



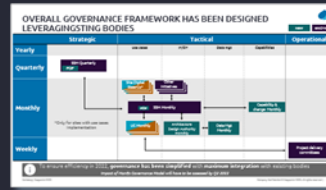
To enable deployment at scale, Smart Manufacturing readiness will require not just technology, but a broader framework



1

Governance

- Overall program governance model best practices sharing (ambition definition, bodies, local / central), incl.:
- Use cases elicitation and UC portfolio management
- Design authority, IT-OT governance
- Benefits realization tracking (v. ambition)



2

IT-OT architecture

- 12 main criteria to assess the IT-OT environment digital manufacturing readiness
- Ranging from standards, to scalability to data driven
- Framework including 30+ real-world benchmarks



4

People & Organization

- A framework which includes a library of 60+ use cases illustrating best digital manufacturing practices
- A digitalization heat map is devised to reflect the level of digitalization of the business processes



3

Processes

- A framework which includes a library of 60+ use cases illustrating best digital manufacturing practices
- A digitalization heat map is devised to reflect the level of digitalization of the business processes

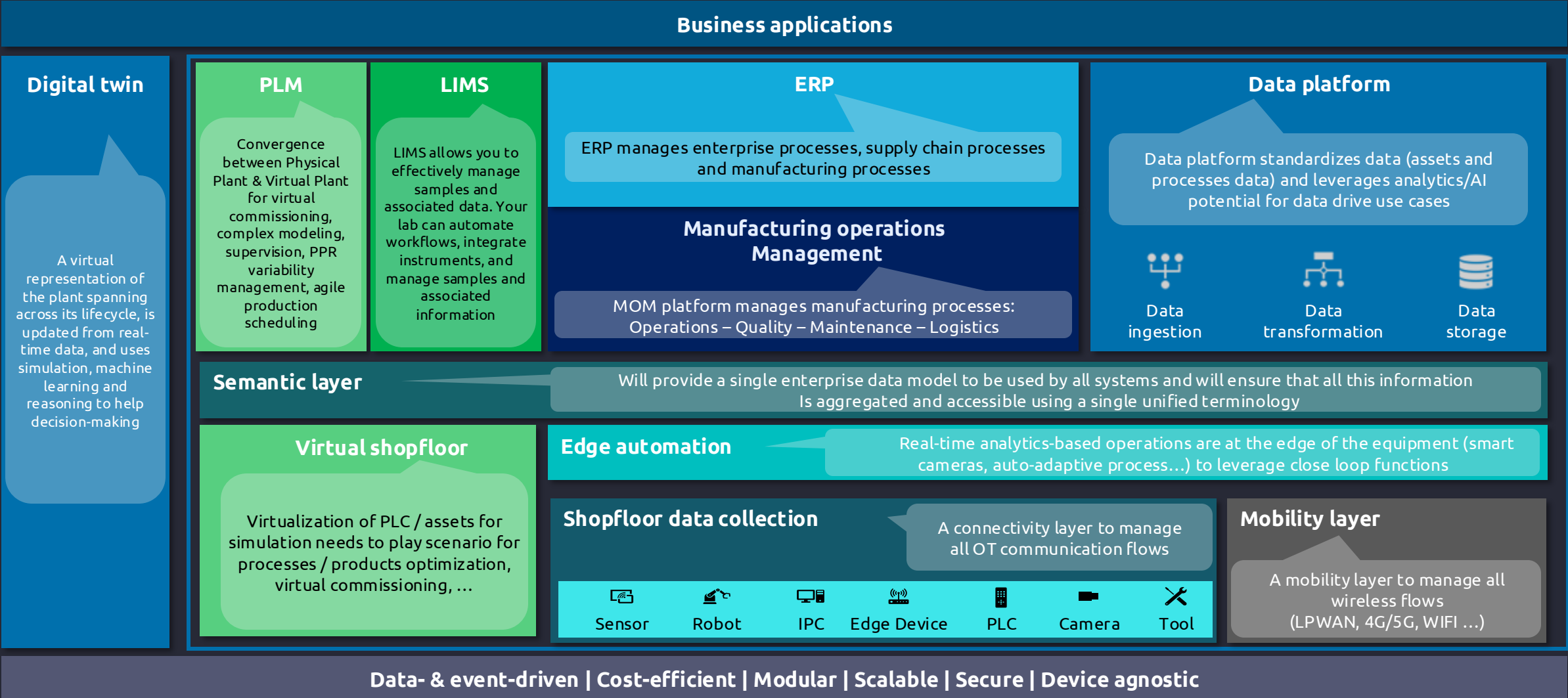


Operating Model

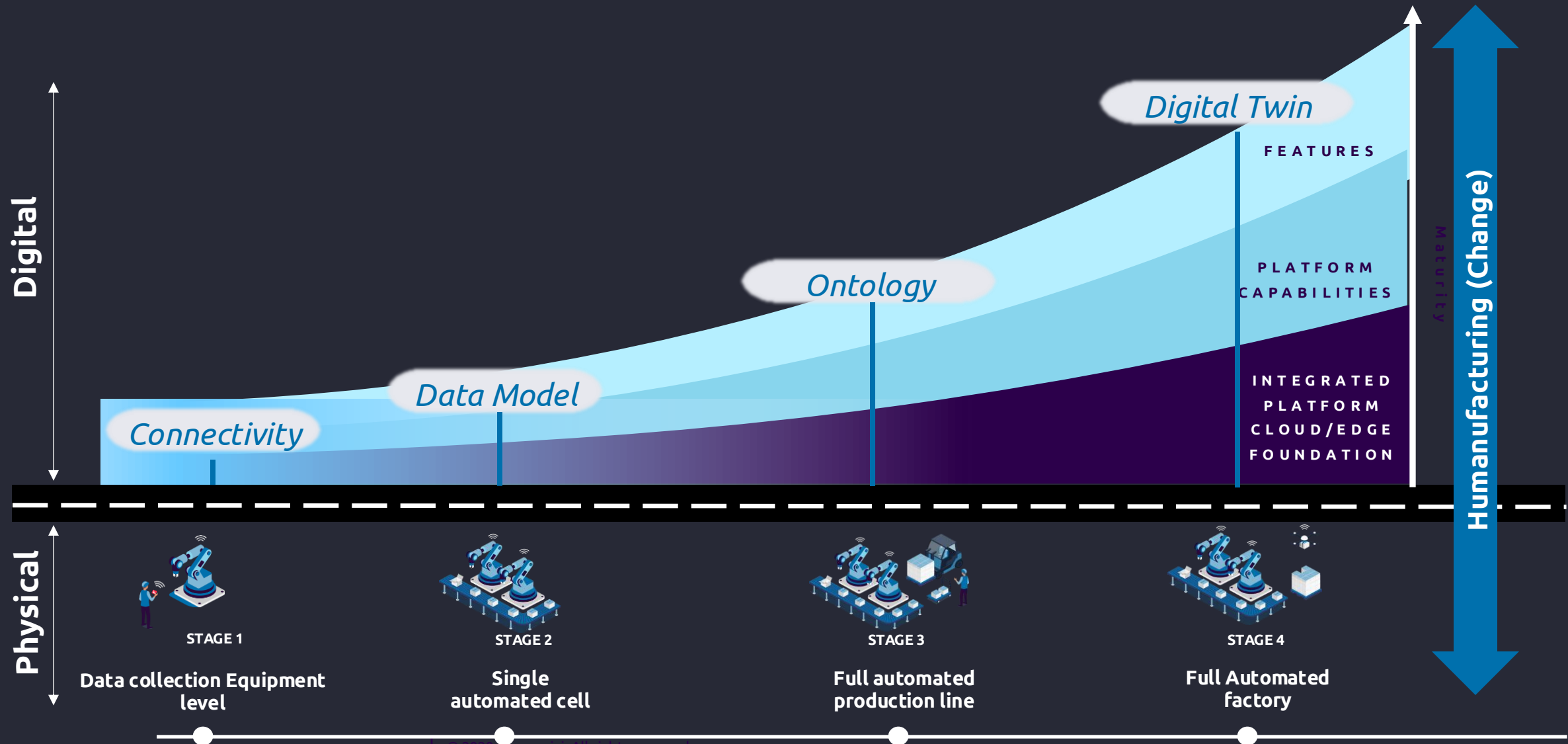


Smart manufacturing logical architecture

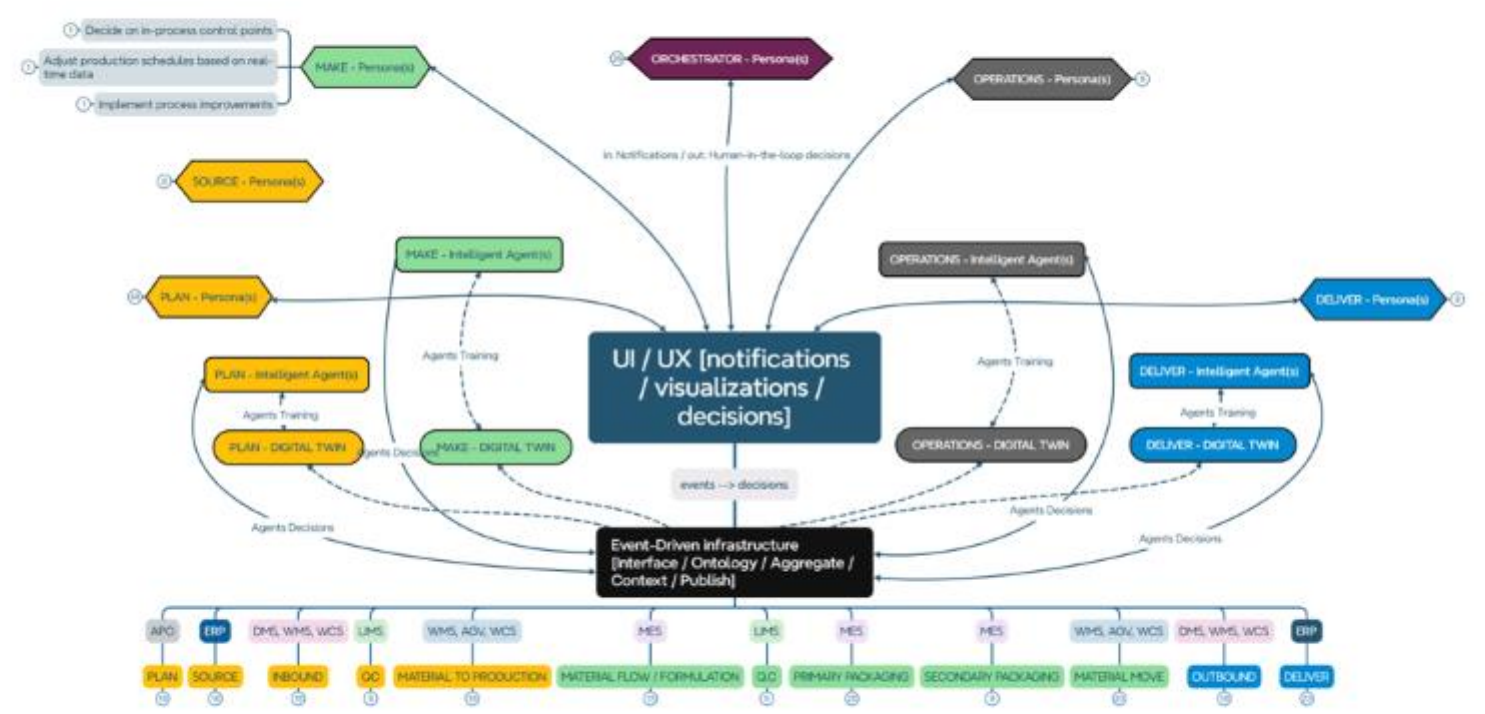
Real-time processing, analytical & event-driven capabilities, & digital continuity have to rely on a digital IT/OT architecture proper foundations



Autonomous operations roadmap: a 4-stage journey



An agent-based, scalable event driven architecture pattern allowing a seamless transition to more autonomous operations



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- **Aerospace:** Digital twins for end-2-end supply-chain
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- **Multi-industry:** Intelligent control tower

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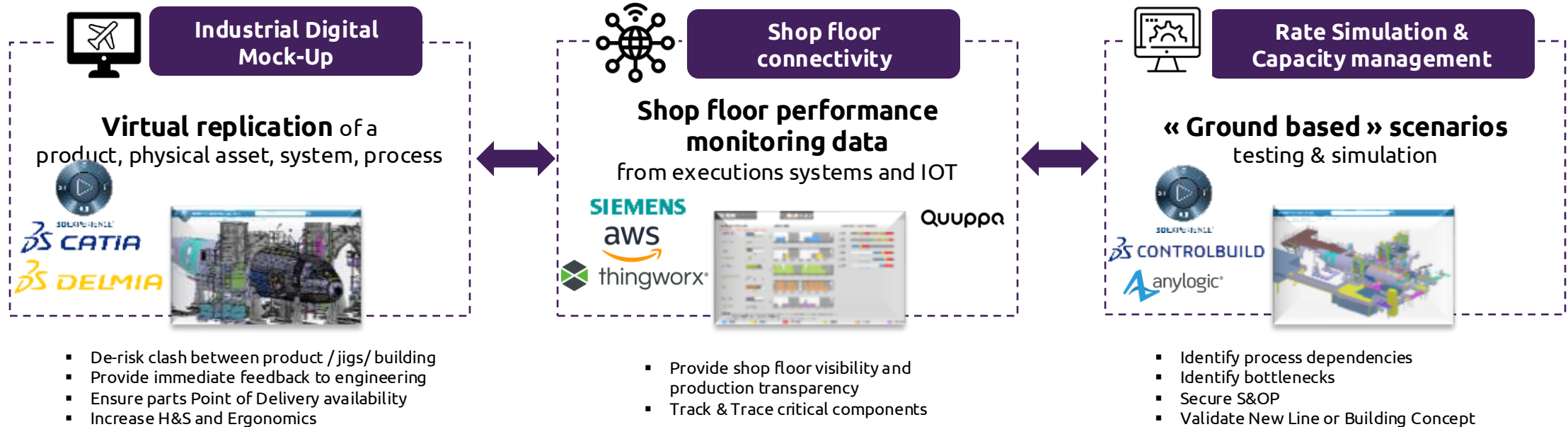


Aerospace OEM - Intelligent Plant



- Industry 4.0 /S being successfully deployed into the aerospace sector
- Barriers to entry are high, pilot Purgatory still exists
- Digital twins are now being used for rate adaptation

Industrial Digital Twin Context



Model Based Systems Engineering



Reduced Ramp-up time



Enhanced safety



Reduced Takt time



Enhanced Quality

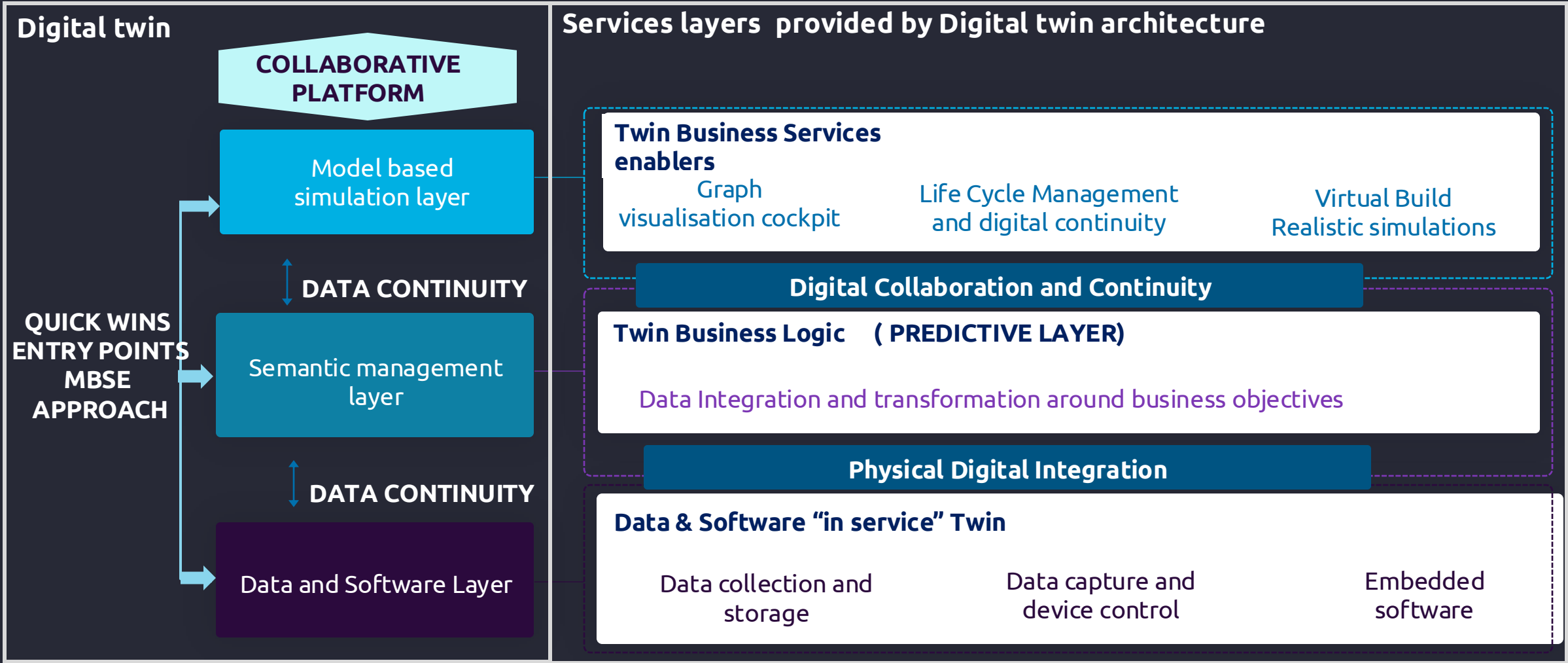


Increased Production Rate

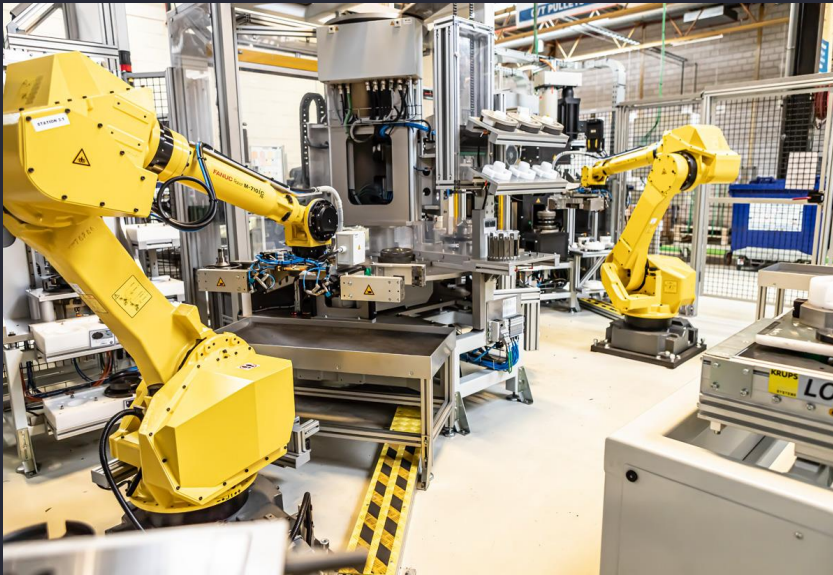


Improved team availability

High level Digital twin architecture



Design, deployment & maintain of a manufacturing execution system in a greenfield



Challenges / Context

Context

- The two companies are jointly launching a new production plant to manufacture and assemble a new type of gearbox.
- Capgemini was awarded to design the Manufacturing Execution System during the gearbox design, company and work organization and plant implementation and ramp up phase (OT and IT).

Objective

Design, deploy and maintain a scalable and replicable solution,

- integrated with all industrial and company systems
 - focused on close end-to-end execution, strong productivity and traceability issues
 - data driven to enable future 4.0 use cases,
- by wave to secure a constrained schedule and adapt to a highly product and process evolving context

Approach / Realization

Three Phases :

- Specification & Design
- Build – Metz (France) then Mirafiori (Italy)
- 2 sites deployment
- Maintenance support (24/24 – 7/7) – **OTSM practices**
- Consulting services (Lean,) to reach production ramp-up objectives

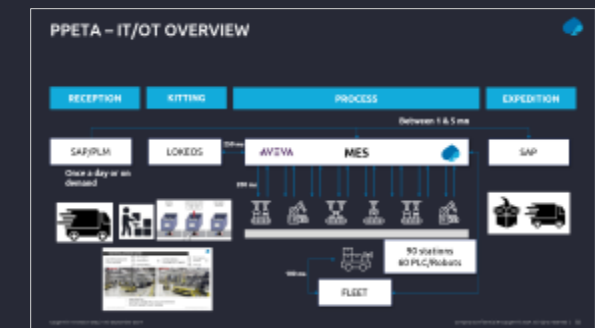
Agile practices

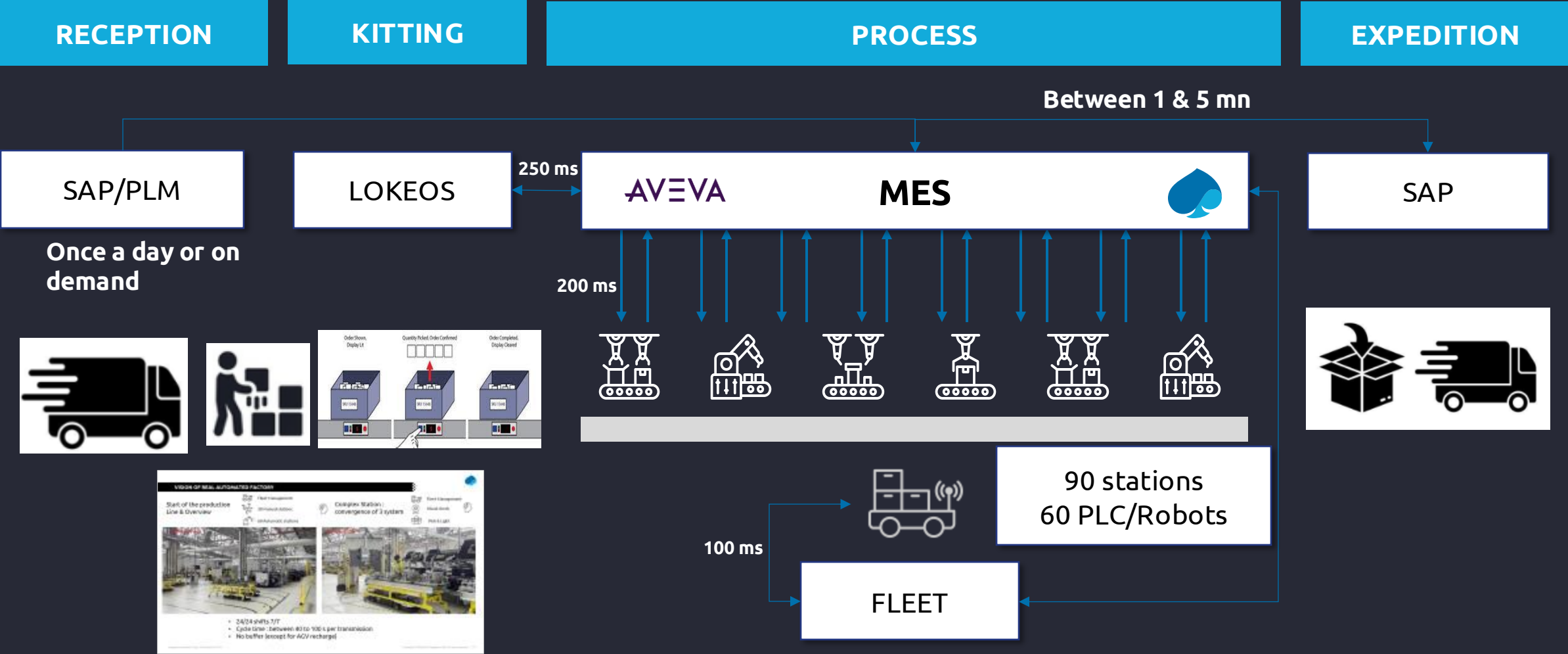


Main Results

- Design Build, Roll out and maintain 2 new Industrial system on two sites (France & Italy) bringing agility :
 - Product diversity
 - Traceability
- Support the ramp-up of production
 - From 0 to 1000+ Transmissions per day per site (in progress... The final goal is 2000 per day per site).
- 24 hours 7/7 production line supports based on OTSM best practices

Solution



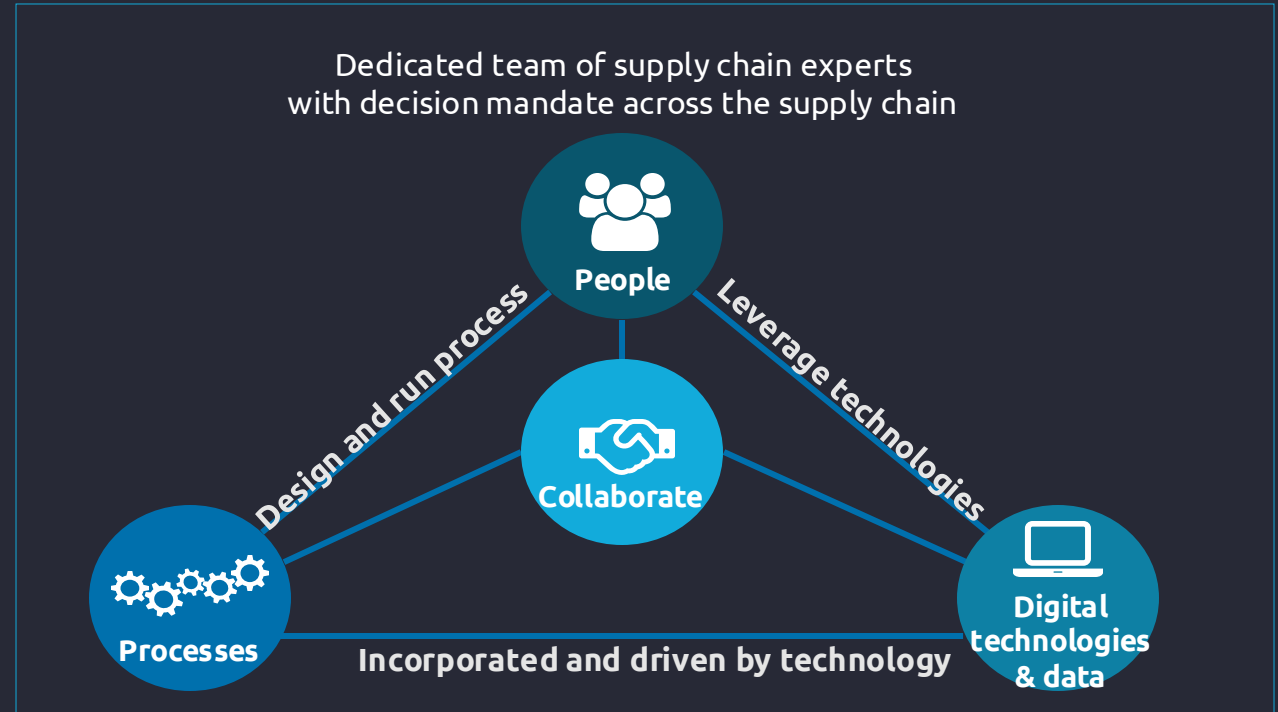


What is a control tower | control tower can help in achieving your mission and strategic priorities



A Control Tower is an **end-to-end enterprise capability** which allows GSK to **solve** specific **business issues** and delivers **measurable benefits** through:

- right-time data **visibility**,
 - proactive **alerts**,
 - prescriptive **insights**,
 - **self-driving** execution,
- enabled by **advanced analytics**



Exception Management Mindset

An insights and decision support platform that monitors transactional data from internal and external sources and automatically separates issues from the mass



When to Act

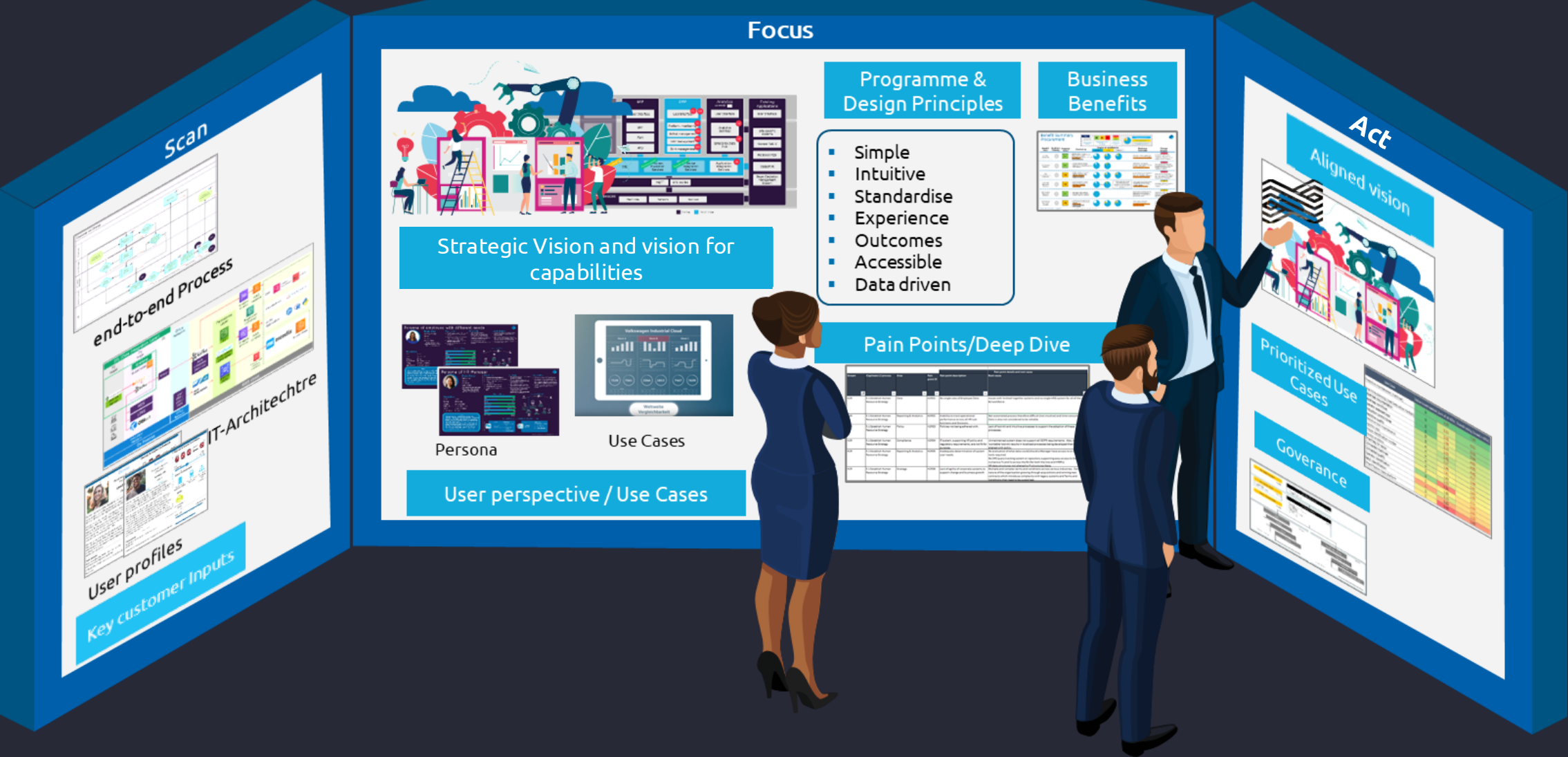
- Lack of visibility in the supply chain
- 'Firefighting' in the organization
- Lack of end-to-end orchestration
- Difficulty to generate insights from data sets



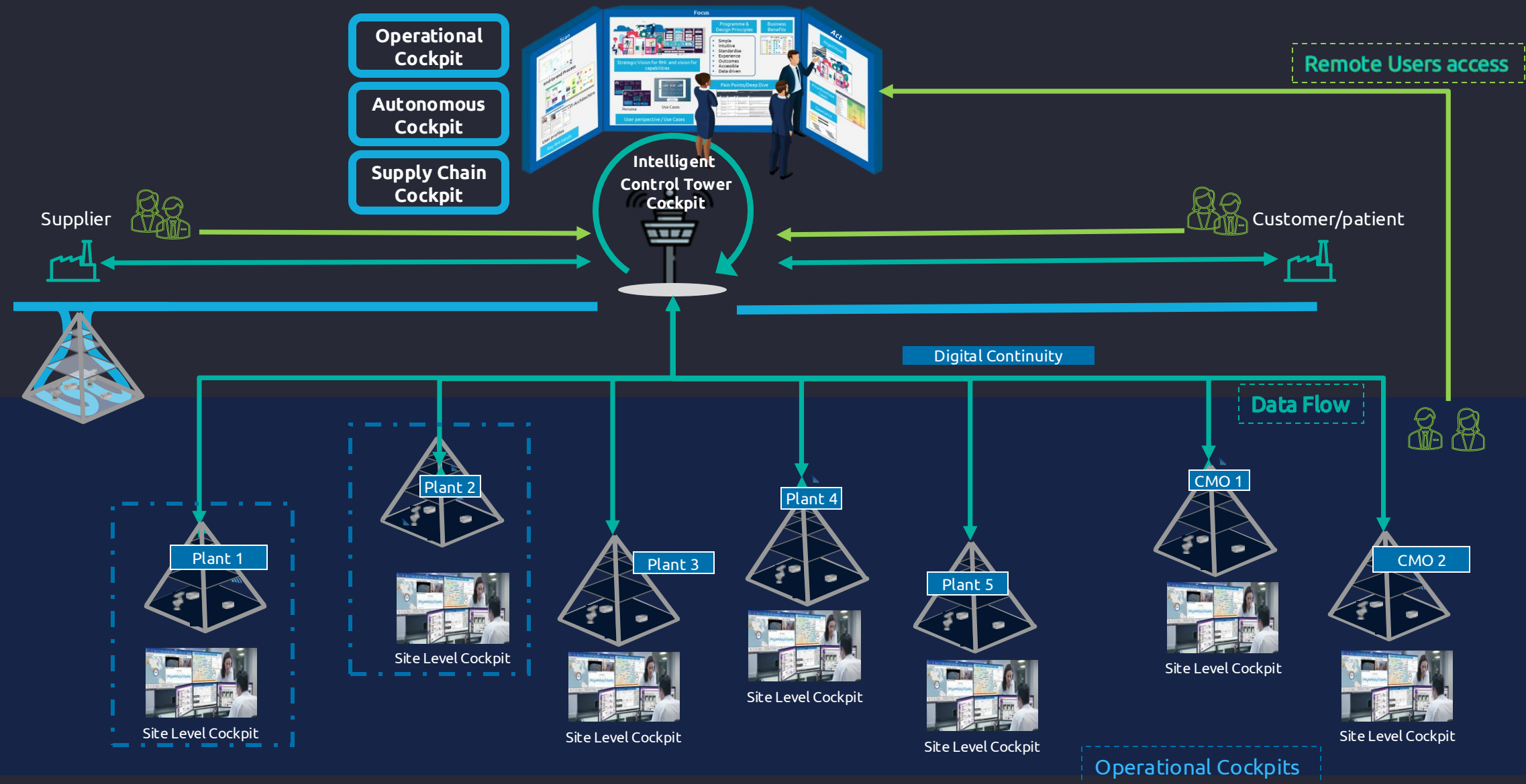
Benefits

- Increase revenues
- Lowered cost through cost avoidance
- Reduced risk through increased compliance
- Reduced capital

Our “scan, focus, act” approach has successfully delivered targeted business results

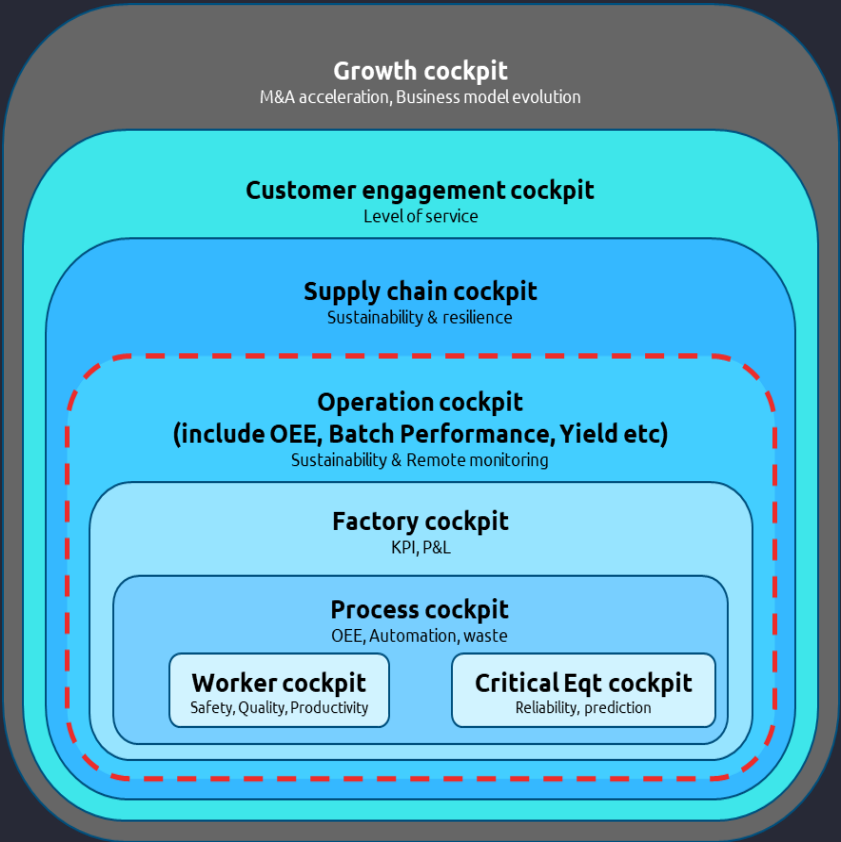


Intelligent operations across the ecosystem



Example | Multilayer Intelligent Operations Tower distinguishes itself by different cockpits

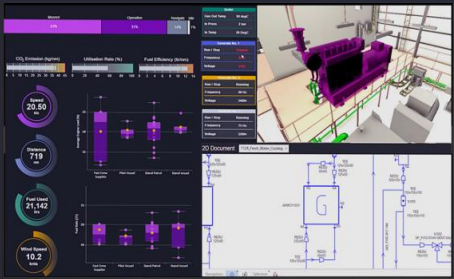
Cockpit Arrangement



Dashboard and Analytics Visuals



Enterprise



Site



Operational

Agenda

01 A case for yet smarter factories

02 Key considerations to make it happen

03 Cross-industry examples

- Aerospace: Digital twins for end-2-end supply-chain
⇔ manufacturing operations integration
- Automotive: MES driven autonomous operations
- Multi-industry: Intelligent control tower

04 Wrap-up



Key takeaways and next steps

- ➡ Data foundations and ontologies are key to end-2-end integration and leveraging digital twins
- ➡ Scalable, event driven architectures are the corner stone of autonomous operations and can be deployed progressively
- ➡ Introducing (smart) agents in the event driven architecture will pave the way to autonomous operations
- ➡ ...

Food for thought & Path forward



- ➡ ...
- ➡ ...
- ➡ ...
- ➡ ...

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A close-up photograph of a human eye. The eye is looking directly at the camera. The iris is a light, hazy blue. The pupil is dark and contains a reflection of a person sitting at a table, possibly in a cafe or restaurant. The skin around the eye is fair with some freckles. A blue line is drawn across the image, starting from the left edge, curving around the eye, and ending near the bottom right. The text "Q&A" is written in large, white, bold letters on the right side of the image.

Q&A

Conclusion

Techcorners – Meet the Experts



(Gen) AI and analytics in R&D and operations

Transforming the way we bring new therapies to market through AI



**Justin
Melnick**

Smart manufacturing

Connecting the physical and digital worlds of modern manufacturing for operations excellence.



**Daniel
Coudriet**

Intelligent compliance

Leveraging innovation and Generative AI to boost compliance activities



**Frédéric
Burger**

GEN AI at workspace

Leveraging advanced tools (LLMs, Copilot....) to get real-time insights and automate repetitive tasks to enable to next gen workspace from Project Manager to Quality officer.



**Christophe
Oudot**



**Lejo
John**

Sustainability

Reconciling Life Sciences & sustainability: Innovation as the key to a successful transition for a more sustainable sector



**Arnold
Coppieters**



**Pieter
De Cocker**