Taking AI to Production and Scale

From value discovery
to realised solutions

Getting **Impact** from digitization in the often complex enterprise **is hard!**

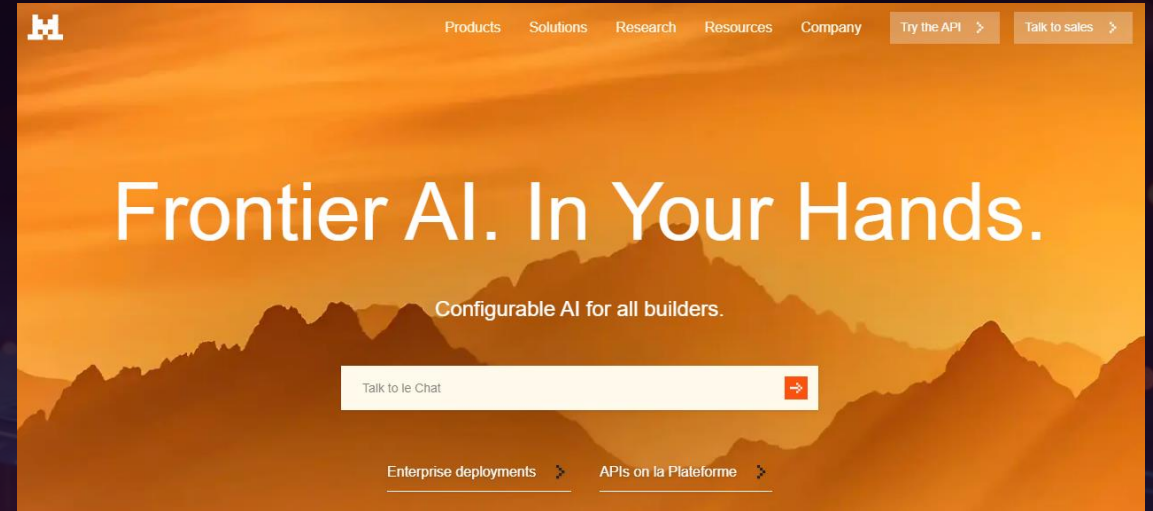Silos and duplication, central team "stuck in group", large programs tend to fail or have unclear ROI

Why are We Talking about this Today?

- **50%** of AI to production, **80% adoption gap**…?
- Value + scale is the topic of 2025 – and it is possible!
- Our countries have a DNA with innovation, entrepreneurship and **tech** we **know** this!
- We are **French =)**
  (And our part of the group even has a name tricky to say; in a good way!)

https://www.forbes.com/sites/bernardmarr/2025/03/10/15-mind-blowing-ai-statistics-everyone-must-know-about-now/

https://www.gartner.com/en/newsroom/press-releases/2025-03-05-gartner-identifies-top-trends-in-data-and-analytics-for-2025

https://www.forrester.com/blogs/predictions-2025-artificial-intelligence/

Frontier AI. In Your Hands.

Configurable AI for all builders.

Talk to le Chat

Enterprise deployments   APIs on la Plateforme

MINES PARIS | PSL

Sana

dataiku

CHALMERS UNIVERSITY OF TECHNOLOGY

Spotify

Tefal

We are dealing with emergent complex processes. Which we are good at dealing with!

The Why and Value Needs to Come First – Example of Returns

Forest Damages

21 000 000 EUR 2018 & 2019 in Timber Value

Illegal Substances in E-Commerce

Work taking 4-5 years took 15-30 min

Quality Translations

10X ROI + Faster Time to Market

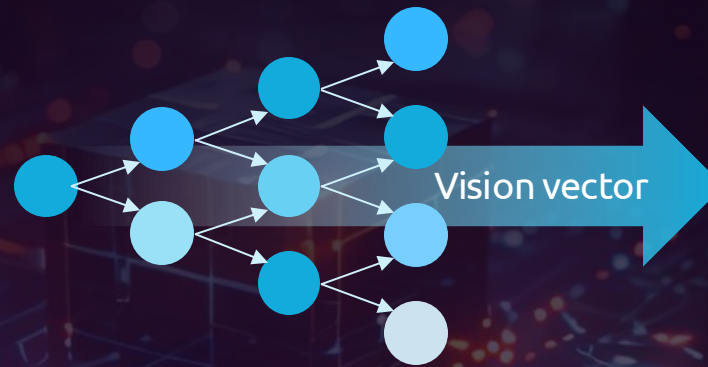**Three Areas** that are **Important** in Order to **Succeed**

Value

Technology

Organization

Set **Direction**, Connect to **Goals**, Build an **AI Investment Portfolio** of **Multiple Cases** with a **Value Conversion Approach**
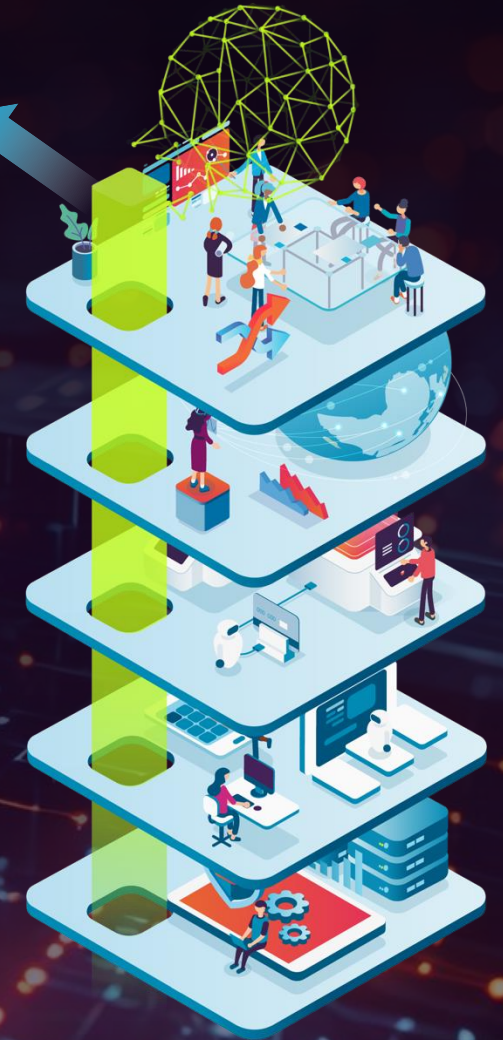
Business Value Activation

Vision vector

Find and validate business value

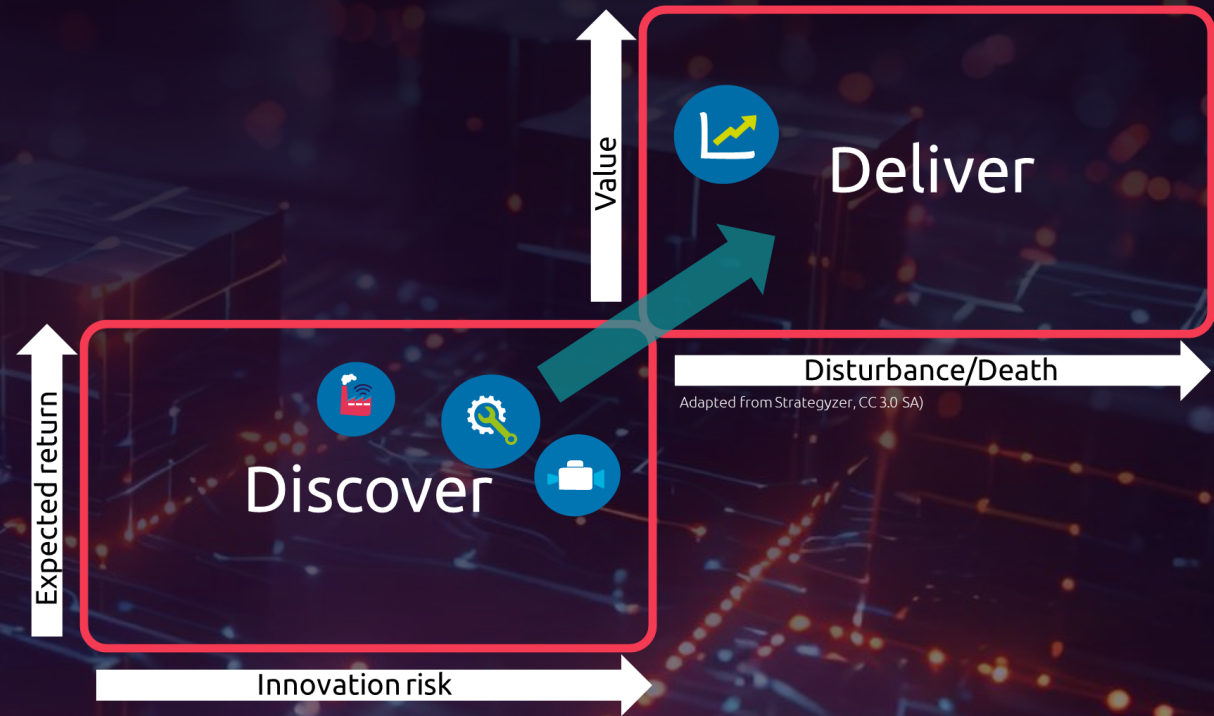Build cross sectional pillars to realize value with users

Realized business value drives a robust estate

We were in pace to see 8000 pitches this year and expected to fund 8.

So far we have funded 3.

Benjamin Narasin, Tenacity VC

Value

Expected return

Deliver

Disturbance/Death

Adapted from Strategyzer, CC 3.0 SA)

Discover

Innovation risk

Use Cases Should Carry Their Investment
while Infrastructure, Data and Enablement can **Give a Compounding Effect**

- **Forget about AI** (for a while!), shift left to **get it right at source.**
  Ability to look at data near problem = value

- **Robust data** respecting system boundaries (testable)
  will **pave the way for AI and autonomous Agents**

- **Talk to each other**, collaborate to sort out policies, firewalls
  and operating model to enable divisions and "the business"

Data Value Realization
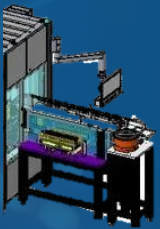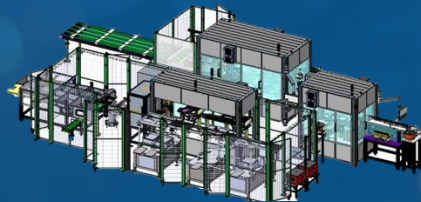
Component	Machine	Plant	Company

Cases that are also Examples of Different Ways to Scale and go to Production

Shagowaskee - Tooling

Husqvarna - Enterprise

How do we do all this in practice?

1. ## Identify what the organization wants to solve using AI

   - Is this a problem that AI should solve?

2. ## Does your organization have what it takes?

   - What is the character and quality of their data?

   - What is the AI readiness in the organization?

   - Minimize risk of unsure investment

Strategic Alignment Readiness

Data Readiness

Ethical & Sustainable Readiness

AI Readiness Assessment

People Readiness

Tech Readiness

Process Readiness

80% adoption gap
of AI solutions in production

3 Tips to get started

1. **Speak** with the right people
2. **Get** your hands dirty – start implementing and iterations
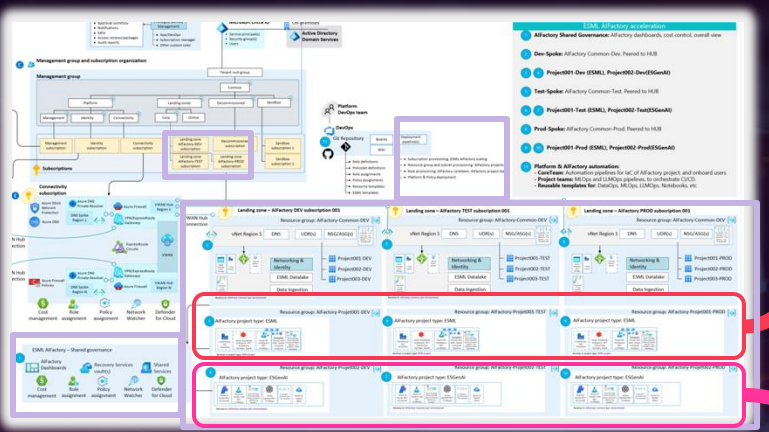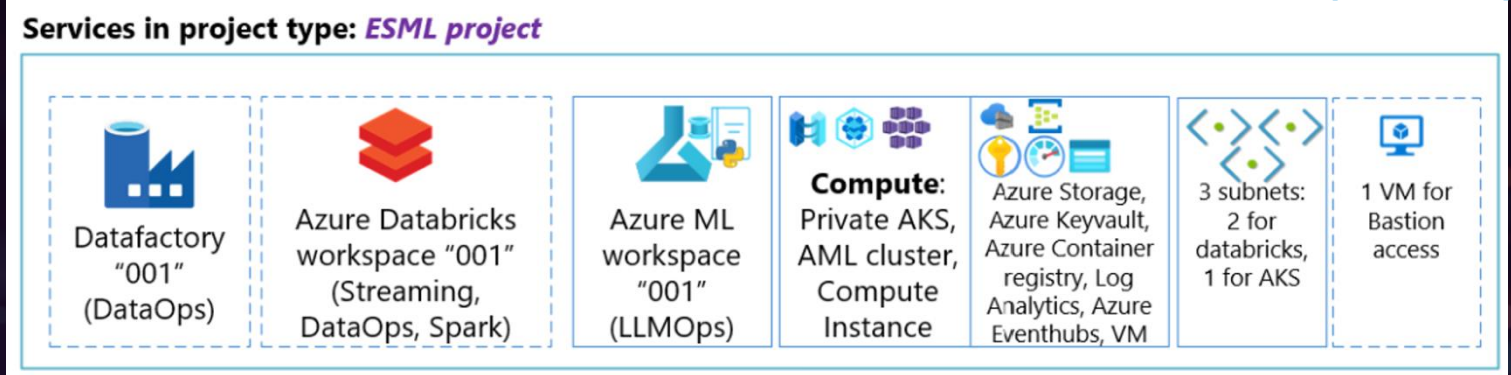3. **Pave** the way for future AI projects

Accept that **AI** implementations **take time**.

Following: an example of a successful delivery of a multi AI agent at the airport --->

Technology (the short version...)

Discriminative AI "Classical AI" MLOps + DataOps
Machine Learning, Deep Learning, Predictions, Vision, Speech

ESML(est 2019)

Services in project type: *ESML project*

| Datafactory "001" (DataOps) | Azure Databricks workspace "001" (Streaming, DataOps, Spark) | Azure ML workspace "001" (LLMOps) | **Compute:** Private AKS, AML cluster, Compute Instance | Azure Storage, Azure Keyvault, Azure Container registry, Log Analytics, Azure Eventhubs, VM | 3 subnets: 2 for databricks, 1 for AKS | 1 VM for Bastion access |

Generative AI "ChatGPT" – GenAIOps
ChatGPT, RAG, Agentic, Generate text, Image, Summary, Video

GenAI(est 2024)

Services in project type: *ESGenAI project*

| Azure AI Studio "001" (AI portal) | Azure AI Studio Hub "001" (LLMOps) | Azure Storage, Azure Keyvault, Azure Container registry, Log Analytics | Azure OpenAI "001" (LLMOps) | 2 subnets: 1 for front-end 1 for backend | Azure AI Search (RAG) | Azure Webapp (UI) |
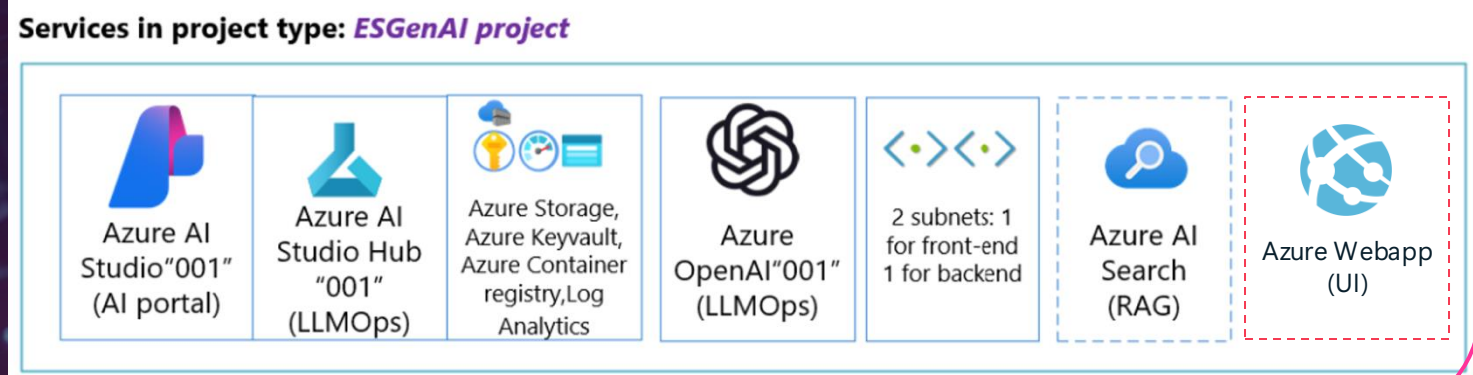
Reaching n cases, establish a unified infrastructure supporting work through dev, QA to prod. This is done in parallel with use cases.

Architecture, Organization, Governance and Operations Need to Enable, Especially so in a Decentralized Organization

Enterprise IT

Core IIoT Platform Team

Management plane

Data plane

Connected operations: On top of a factory

Edge | Cloud

Enterprise IT

Azure management plane spans across cloud and edge via Azure Arc

Operations experience

Azure Resource Manager

Use Case 1

Akri services

Data flows

MQTT broker

Data processor

Core IIoT Platform Team

Connectors

OPC UA, ONVIF™, Media

Use Case 2

Schema registry

Husqvarna OEE

Azure IoT Operations

Arc Enabled Kubernetes

Enterprise IT

Arc Connected Machine or Azure Local

Azure Portal and Azure CLI

Azure Device Registry

...

Event Grid

Core IIoT Platform Team

Data Platform

Event Hub

Databricks

OneLake

Blob Storage

Use Case 3

Factory Companion

Cameras Sensors ...

PLCs MES Historians

Microsoft Copilot

Microsoft Entra ID

Enterprise IT
Microsoft Sentinel

Azure Monitor

...

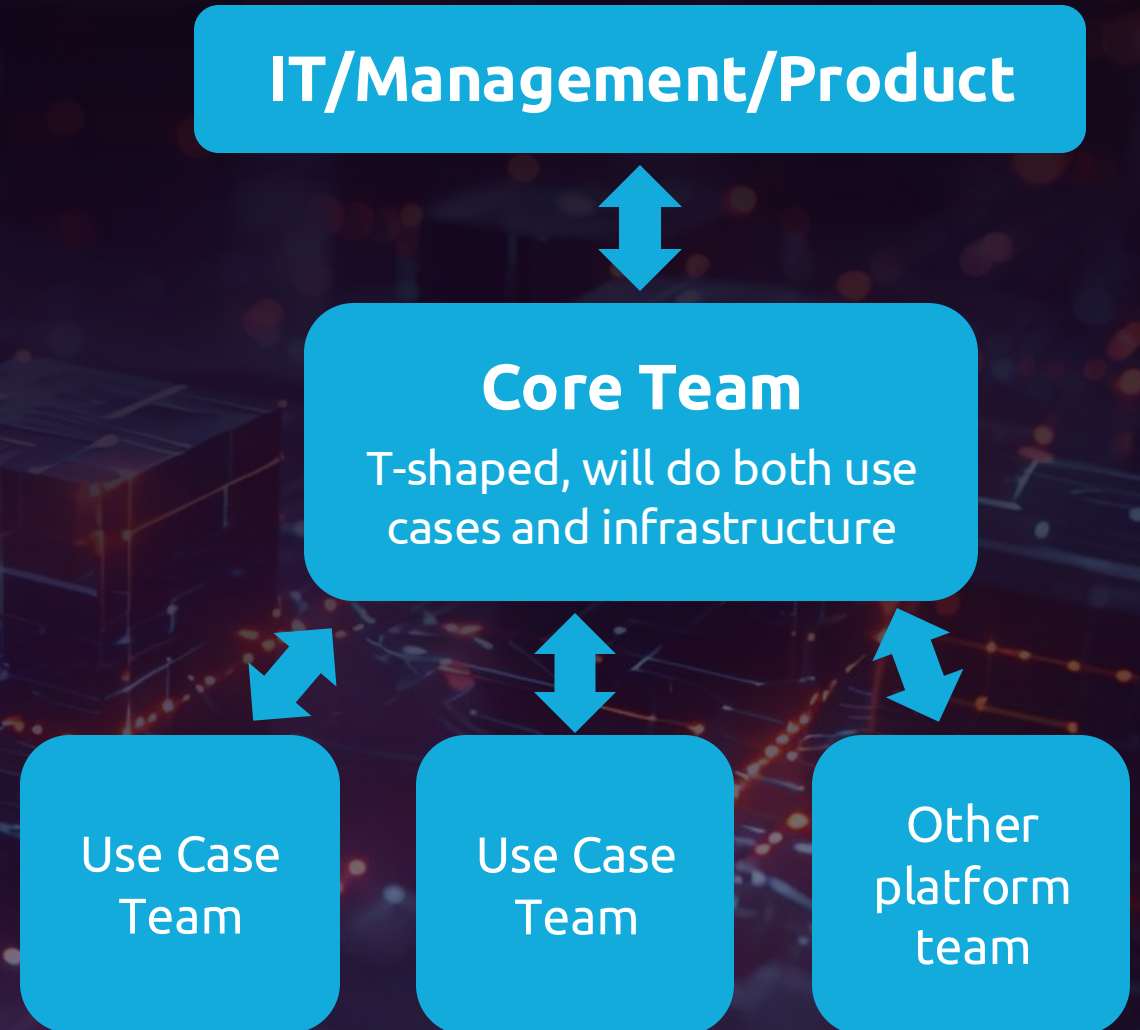# Unified Architecture and a Strife Towards Joint "Rules of the House" can Enable Multiple Teams in a Decentralized and Collaborative Way

Enterprise IT

Core IIoT Platform Team

Domain Team

Management plane

Data plane

Connected operations: On top of a factory

Edge | Cloud

Enterprise IT

Azure management plane spans across cloud and edge via Azure Arc

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MQTT broker

Core IIoT Platform Team

Microsoft Copilot

Connectors
OPC UA, ONVIF™, Media

Use Case 2

Data Platform

Core IIoT Platform Team

Microsoft Entra ID

Event Grid

Cameras
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...

PLCs
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Husqvarna OEE

Azure IoT Operations

Blob Storage

Azure Monitor

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Enterprise IT

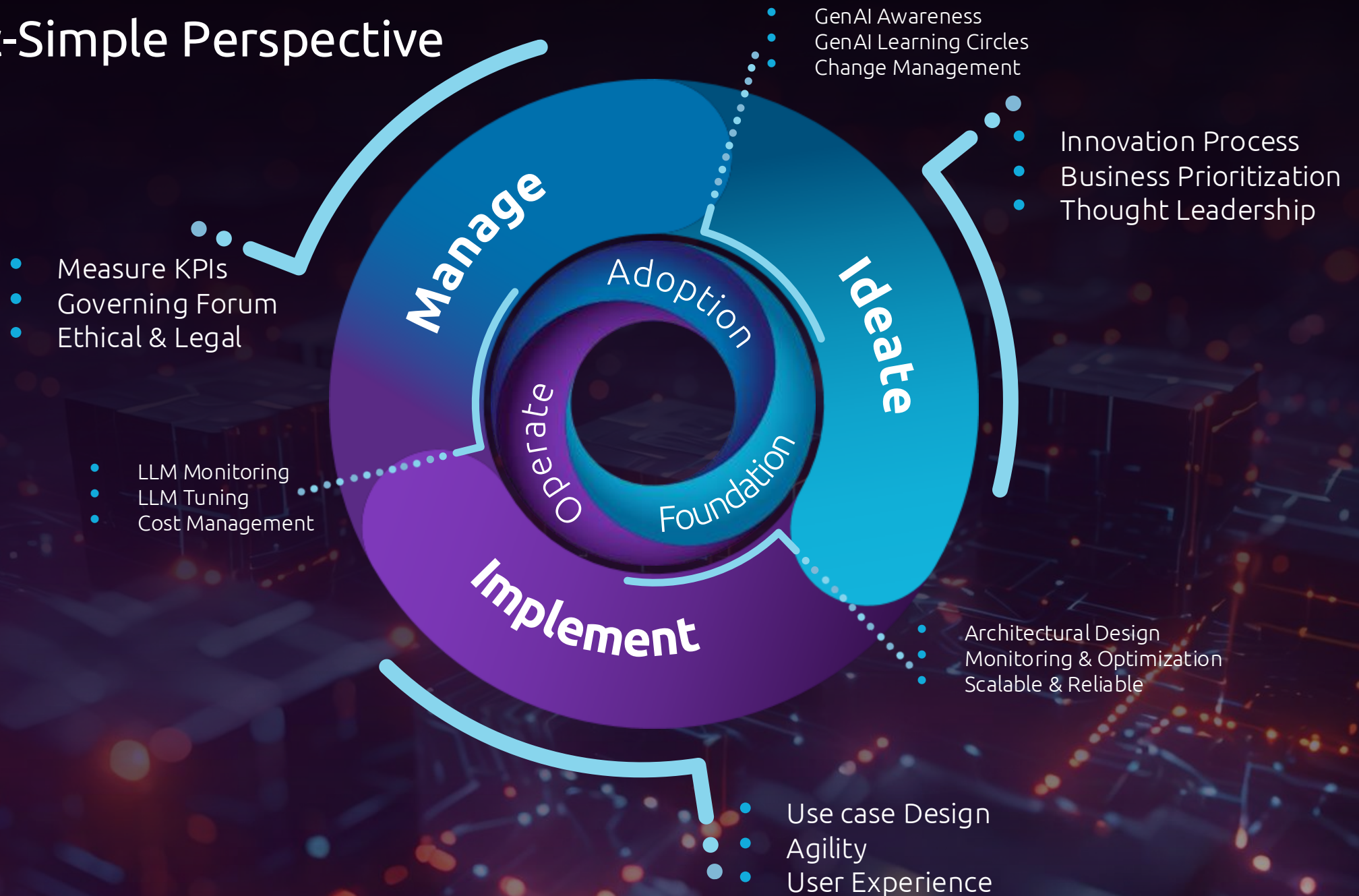Arc Connected Machine or Azure Local

Use Case 3

Factory Companion

...

Tech + Organization

- We set a **scalabe infrastructure and architecture** that matches how we want to work and enable (Conway's law)

- Our starting core team can be small, can scale but will stay core to **keep a unified approach**

- Additional **autonomous** teams, (e.g. Amazon's "two-pizza teams") can be given workspaces within this platform and governance

- **Components can be shared** from core team to use case teams and vice versa

IT/Management/Product

Core Team
T-shaped, will do both use cases and infrastructure

Use Case Team

Use Case Team

Other platform team

Holistic-Simple Perspective

Manage
Ideate
Implement

Adoption
Operate
Foundation

GenAI Awareness
GenAI Learning Circles
Change Management

Innovation Process
Business Prioritization
Thought Leadership

Measure KPIs
Governing Forum
Ethical & Legal

LLM Monitoring
LLM Tuning
Cost Management

Architectural Design
Monitoring & Optimization
Scalable & Reliable

Use case Design
Agility
User Experience

Embrace uncertainty through our heritage in tech, innovation and entrepreneurship

Respect system boundaries, form contracts to reach robustness coping with AI

Set a capability with a direction and autonomy to drive value through cases, scale around it

About Sogeti

Part of the Capgemini Group, Sogeti makes business value through technology for organizations that need to implement innovation at speed and want a local partner with global scale. With a hands-on culture and close proximity to its clients, Sogeti implements solutions that will help organizations work faster, better, and smarter. By combining its agility and speed of implementation through a DevOps approach, Sogeti delivers innovative solutions in quality engineering, cloud and application development, all driven by AI, data and automation.

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