

# Connected by Purpose, Driven by Innovation

Strengthening our partnership  
to create a smarter,  
sustainable energy future

## AI Foundry & Cognitive Infra





# Agenda

**AI Scaling Challenge: Market Reality** **1**

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**Way Forward Multi-Dimensional Strategy for APS to Enable Scale AI & Cognitive Infrastructure** **3**

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## **Demos**

**1. Industry Focused Business Persona Driven Agentic AI**

**2. Technical Persona Tailored – Agentic Data Lifecycle Automation** **4**

**3. Conversational BI using Metahuman Framework**

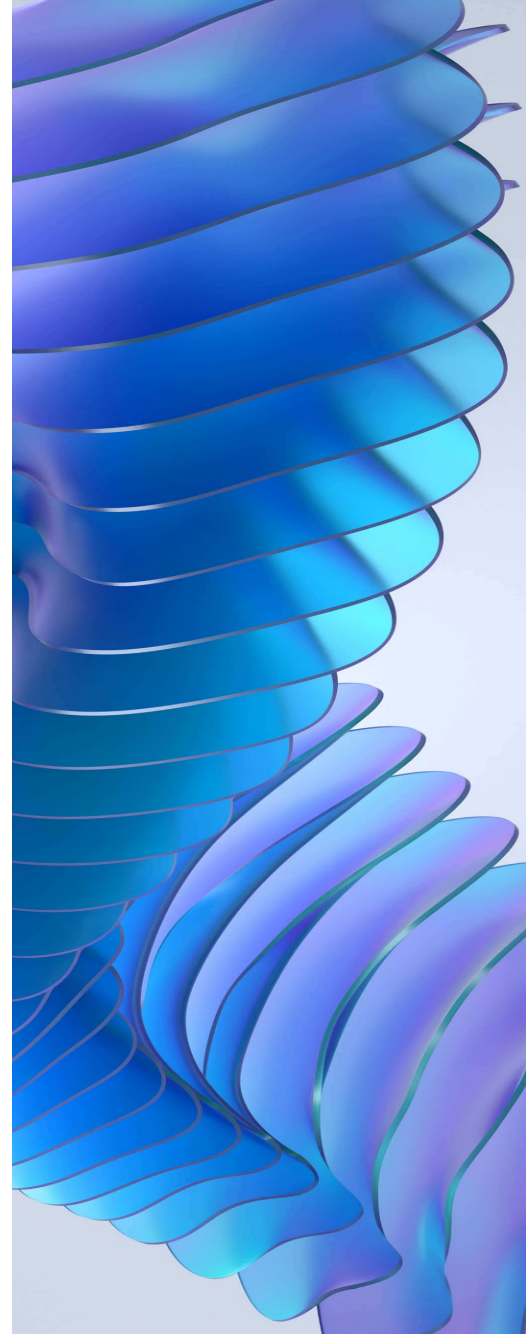
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# The AI Scaling Challenge: Market Reality

- *Only 5-10% of AI pilots make it to production at scale*
- *70% of enterprises stuck in "pilot purgatory" - endless experimentation without value*
- *\$2.5M average spent on failed AI initiatives before achieving first production success*

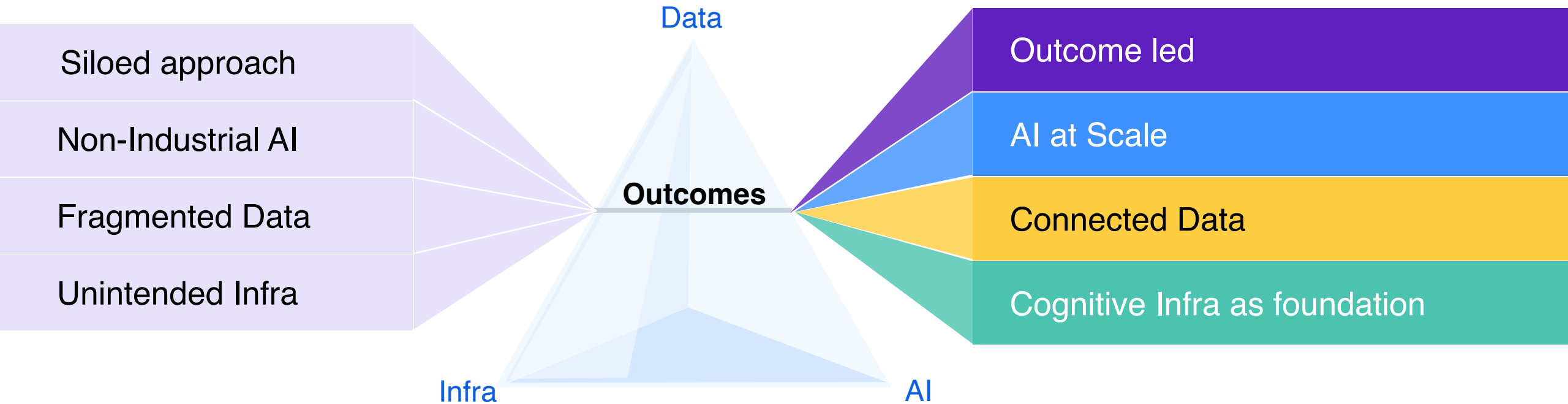
## The Bottom line

"Organizations are drowning in AI possibilities but starving for AI value realization"



- 1 Data Readiness Gap (67%)  
Lack of Unified Data Governance (Structured & Unstructured Data)
- 2 Integration Complexity(58%)  
AI Models Operate in Isolation, Legacy System incompatibility
- 3 Talent & Skill Shortage(52%)  
Gap between AI Engineers & Business users
- 4 Unclear ROI & Value Tracking(49%)  
No Framework to measure AI impact, less focus on Domain & More on Technology
- 5 Production Operations Immaturity(45%)  
Lack of Trust & AI Governance frameworks

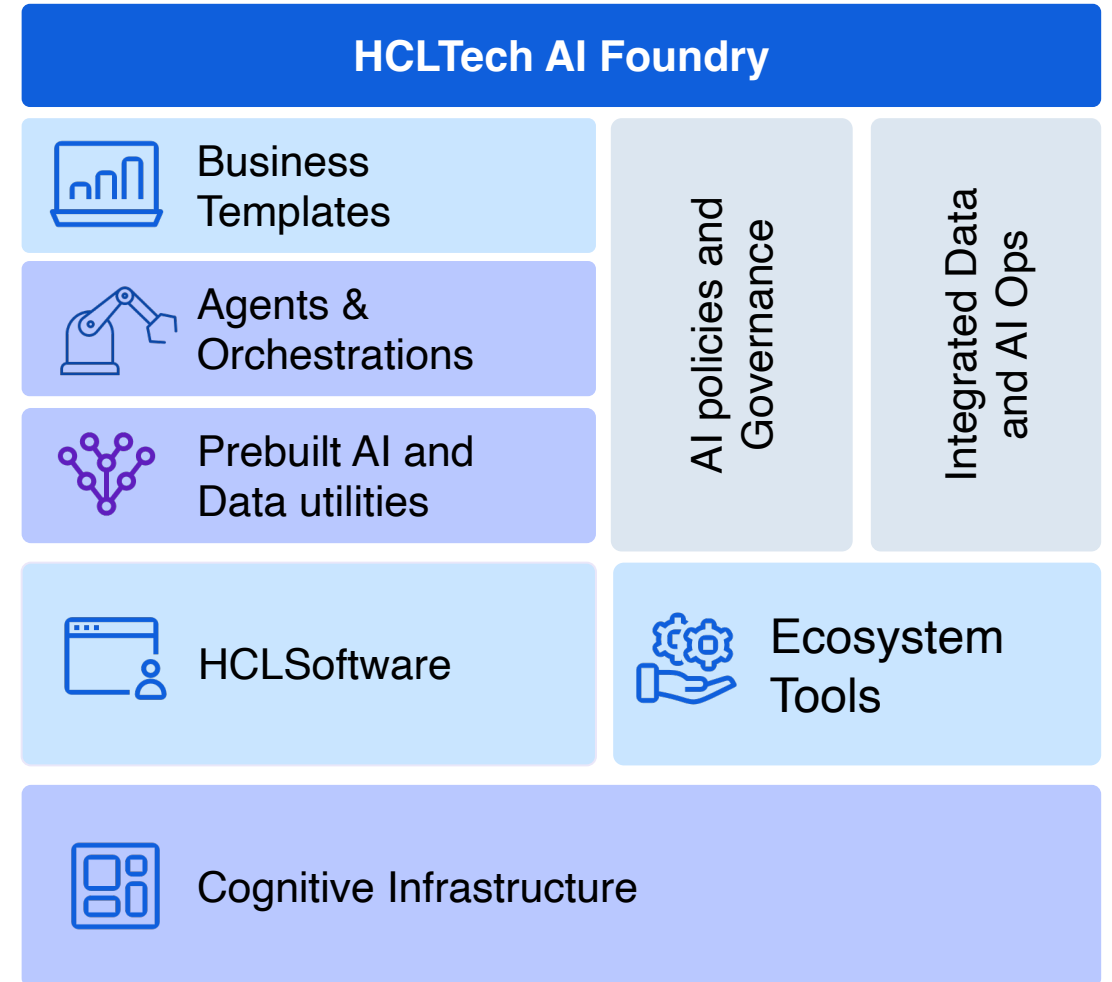
# Paradigm Shift in Enterprise Landscape



**Collapse the Siloed Operating Model to deliver Outcome-First transformations**

# AI Foundry Overview

AI Foundry provides a cohesive **AI, Data to Insights and AI Productization Infrastructure** blueprint to embed AI at scale across the value stream and deliver tangible outcomes aimed at the C-suite's priorities.



# Data to Dollars – As of Now



Data	Insights	Actions	Outcomes
<p><b>Modernize Data</b></p> <ul style="list-style-type: none"> <li>Autonomous Engineering</li> <li>Self-healing DQ</li> <li>X-Ops</li> </ul> <p> <b>Cost</b></p> <ul style="list-style-type: none"> <li>MigrateData</li> <li>ConvertData</li> <li>CurateData</li> <li>PrepData</li> <li>CertifyData</li> <li>GovernData</li> <li>ProductizeData</li> <li>ObserveData</li> </ul>	<p><b>Simplify</b></p> <ul style="list-style-type: none"> <li>Tech-debt reduction</li> <li>Conversational &amp; Explainable</li> <li>Augmented Analytics</li> </ul> <p></p> <ul style="list-style-type: none"> <li>AugmentInsights</li> <li>Cockpit</li> <li>Marketplace</li> <li>DigitalCFO</li> </ul>	<p><b>Apply AI</b></p> <ul style="list-style-type: none"> <li>Office of AI</li> <li>Multi-Agent Metahuman</li> <li>AI Integrations</li> </ul> <p></p> <ul style="list-style-type: none"> <li>Metahuman Framework</li> <li>Agent Hub</li> <li>MLOpsCommand Centre</li> <li>SmartBuy Digital Buying</li> <li>AI Marketplace</li> </ul>	<p><b>\$\$\$</b></p> <ul style="list-style-type: none"> <li>20 M annual saving for large enterprises</li> <li>5X faster time to market</li> <li>50% increase in leads &amp; 20% boost in sales</li> </ul> <p> <b>Value</b></p> <ul style="list-style-type: none"> <li>American Multinational Health Insurance and Services Company – \$ 7.1 Mn</li> <li>Leading Integrated Financial ServiceBank in Australia - \$ 14.95 Mn</li> <li>American Commercial Real Estate ServiceCompany - \$ 2.1 Mn</li> </ul>

# AI Foundry - HCLTech's AI-ready Data offering for scaling AI

Industry and Horizontal Focused Repeatable solutions and platforms

Data + AI Strategy & Advisory

Data and AI System integration services

## Data Modernization

- AI Foundry.Data.Convert
- AI Foundry.Data.Prepare
- AI Foundry.Data.Certify
- AI Foundry.Data.Govern
- AI Foundry.Data.Productize
- Seiri, BizCanvas

## Insights and Analytics

- Analytics: (Conversational BI, Self-service, Predictive, Real-time)
- AI Foundry.Insights.Augment
- Visualization & Actions: AI-infused, GenBI etc.

## Scaling AI

- Agent Build, Ops & Orchestration
- Assets Marketplace
- Pre-built business templates
- Model Build Tools

AI Foundry.AIEngg.AgentHub

AI Foundry.AIEngg.BizTemplates

AI Foundry.AIEngg.Playground

AI Foundry.AIEngg.**Metahuman**

AI Foundry.AIOps.CommandCentre

AI Foundry.AIOps.AgentSteward

## Data & AI Ops + Gov

- Data Management Services
- Data Reliability Engg.
- Model Ops and Model Gov

Cognitive Infra

# HCLTech AI Foundry: Enabling value stream innovation

Service Accelerator Framework to establish foundational capabilities to support successful AI / GenAI transformations



## Business Templates

Reusable Value stream Patterns & Solutions



## AI Policies & Governance

Uniform Code of AI for maintenance of right coding & model evaluation standards



## Pre-built AI Utilities

Frameworks for Agentic AI, MLOps/LLMOps



## Pre-built Data Utilities

DLC(Coming) AI Agentic Data lifecycle Management



## Integrated DataOps & AIOps

Integrated Value Chain in a single workflow bringing together Data & AI operations



Industry Focused Repeatable Solutions (IFRS)



## Ecosystem Tools

Built-in AI Enterprise Cores, AI FinOps & Hyperscalers



## Reusable Assets and Pattern Repository

Collection of methods, modeling approaches dataset for reuse of custom-built AI/ML models



## Cognitive Infrastructure

Purpose-built Infrastructure for AI Frameworks, Model Ops, MLOps, LLMOps



## Principles Of HCLTech's AI Foundry Design

- Establishes comprehensive AI estates while minimizing Technical Debt
- Reduce the time needed to move from concept to production.
- Improve ROI per AI project by mapping use case against business outcomes
- Reduce investments in PoC, and increase AI project success rates by reducing the gap between experiments and production
- Support reusability and democratization of AI & Data assets across the enterprise
- Fosters Responsible and

# Way Forward For APS - Multi-Dimensional Strategy to enable Scale AI

01

## Industry Tailored –Agentic AI Led Automation

Business Persona-driven Vertical Focused AI enabling specific business outcomes

Example: **Autonomous Factory**

**Partners** :Avathon, Falconry , **First insights, etc**

• **Personas: Plant Manager, Quality Lead**

• Pre-built Agentic Workflows & Domain AI Agents

Other Examples: **Intelligent Banking , Autonomous Supply Chain, Precision Healthcare etc**

02

## Persona Tailored – Agentic Data Lifecycle Automation

Technical Persona-driven AI enabling extreme automation, quality & standardization

• **Personas: Data Engineer, Data Scientist & Others**

• Purpose built AI Agents for Pipeline build, Quality check, Catalog Agent

03

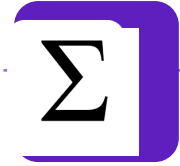
## Strategic AI Ecosystem

Amplifying impact through strategic partnerships

Example: **Multi-Model Excellence**

**Technology Partners** - Palantir, Meta,  
**Platform Partners** - Hyperscalers, data platforms

**Delivery Model** - FDE teams, co-innovation labs, joint GTM



## AI Value Realization

From Pilots to Production Excellence

Example: **Enterprise AI Platform**

- **Production First Design**
- **Domain & Outcome Focused**
- **Enterprise Grade Data & AI Platforms**
- Value Measurement frameworks
- Well Governed Data
- Gen AI adoption at scale
- Scaled MLOps & LLMOps

"Powered By"

AI Foundry



Scale AI

Vertical AI

AgentHub



Simplify Insights

AugmentInsights

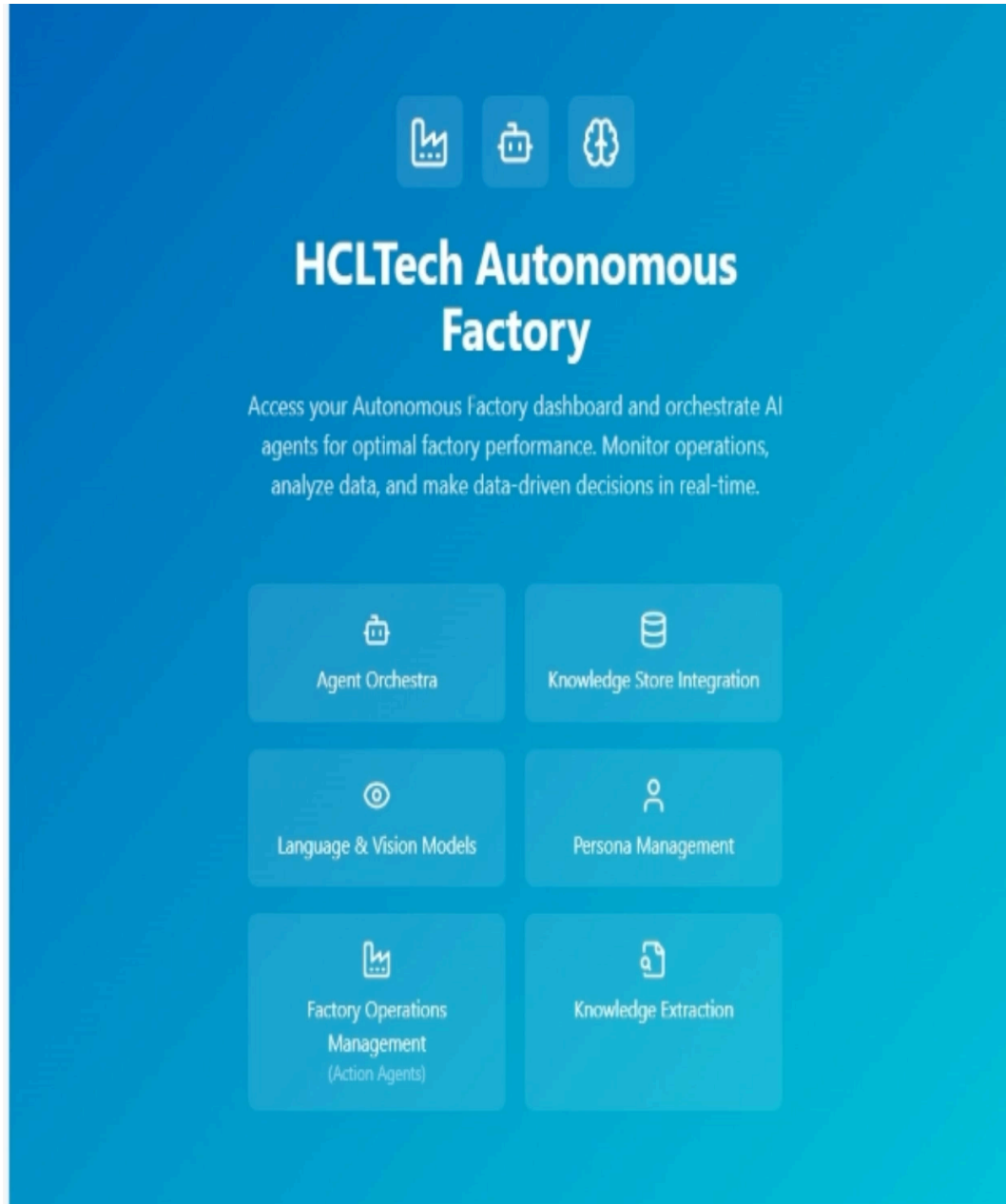


Modernize Data

Agentic DLC (Autonomous Data Eng)

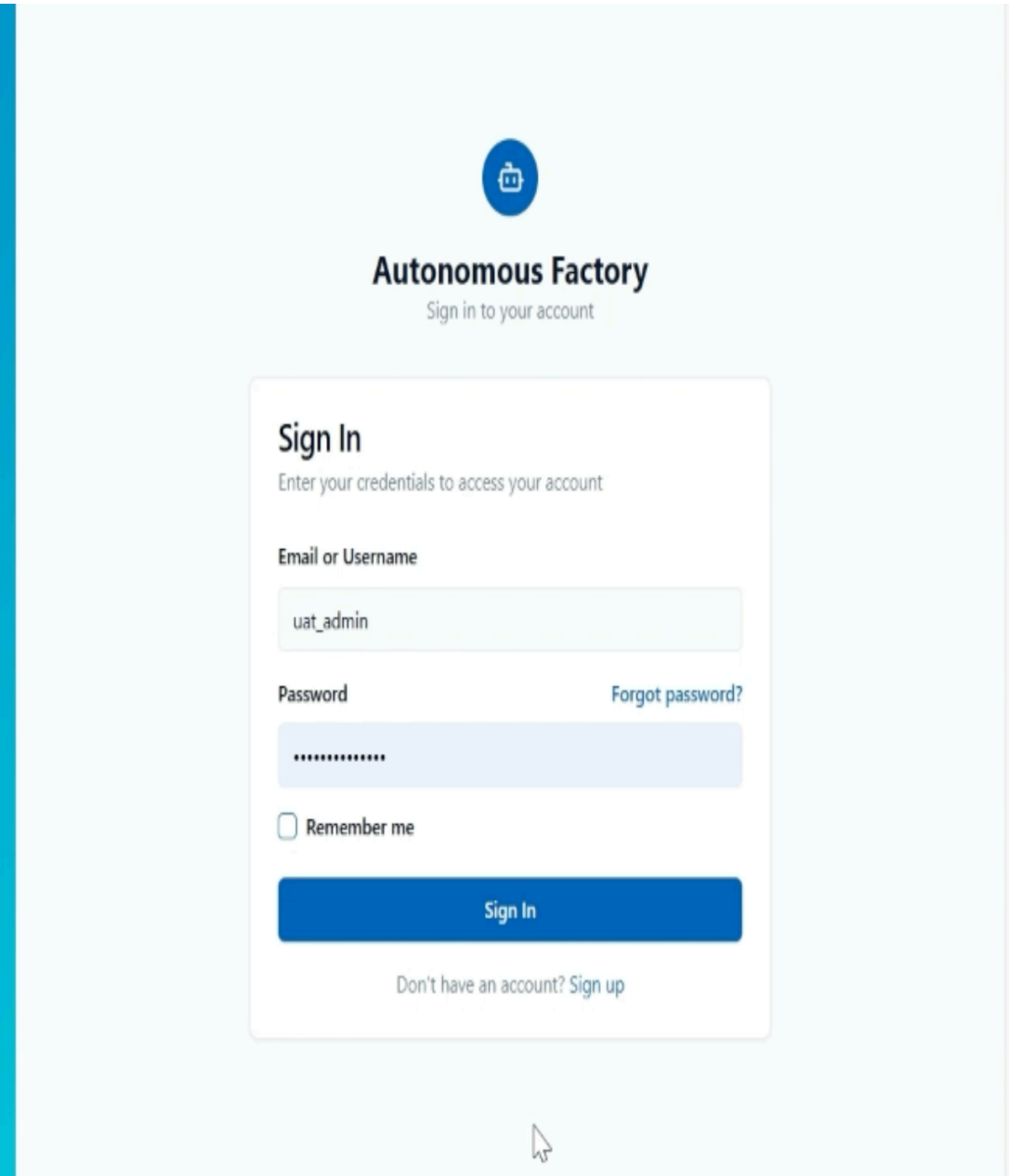
## Demo 1-

Persona Based, Industry Focused, Agentic AI Platform



The dashboard features a blue gradient background. At the top, three icons represent a factory, a server, and a brain. Below them is the title 'HCLTech Autonomous Factory'. A descriptive paragraph follows: 'Access your Autonomous Factory dashboard and orchestrate AI agents for optimal factory performance. Monitor operations, analyze data, and make data-driven decisions in real-time.' The main content area contains six feature cards arranged in a 3x2 grid:

- Agent Orchestra (with a server icon)
- Knowledge Store Integration (with a database icon)
- Language & Vision Models (with a camera icon)
- Persona Management (with a person icon)
- Factory Operations Management (Action Agents) (with a factory icon)
- Knowledge Extraction (with a document icon)



The sign-in page has a light blue background. At the top center is a blue circular icon with a server symbol. Below it is the title 'Autonomous Factory' and the subtitle 'Sign in to your account'. A white sign-in form is centered on the page. The form contains the following elements:

- Sign In** header
- Instruction: 'Enter your credentials to access your account'
- Email or Username** label above a text input field containing 'uat\_admin'
- Password** label above a password input field with masked characters '\*\*\*\*\*'
- [Forgot password?](#) link
- Remember me** checkbox
- Sign In** button
- [Don't have an account? Sign up](#) link

A mouse cursor is visible at the bottom right of the page.

## Demo 2-

*Persona Based, Data Lifecycle Management, Agentic AI Platform*



# HCLTech Data Development Platform

Select your role to access personalized tools and AI agents



**20+**  
AI Agents



**500+**  
Active Users



**1000+**  
Data Sources



**99.9%**  
Success Rate

## Choose Your Role

Select the role that best matches your responsibilities



20+ agents

### Administrator

Full platform access with administrative privileges

KEY CAPABILITIES

Full Platform Access  
User Management +2 more



4 agents

### Project Manager

Project planning, stakeholder management, and delivery oversight

KEY CAPABILITIES

Requirements Analysis  
Project Planning +2 more



4 agents






### Data Engineer

Data pipeline development, quality assurance, and infrastructure

KEY CAPABILITIES

Data Quality  
Pipeline Orchestration +2 more

# Recent Successes

Customer	Competition
	Infosys, Accenture, Persistent Systems
	TCS, CTS
	TCS
	CTS, IBM, TCS, Infosys
	TCS

Customer	Competition
	All big SI's + E&Y, Deloitte
	TCS, Wipro, Cognizant
	CAP, IBM
	TCS
	Infosys, TCS



HCLTech AI Foundry Asset

# Conversational BI using Metahuman Framework

# Predictive & Proactive Maintenance Of Assets

## Functional Approach :

- Asset Identification
- Asset Component Identification
- Asset failure reasons Identification
- Asset Use case identification
- Data Sources
- Deviation Detection from Asset Performance Signature
- Model building
- Data Visualisation
- Maintenance Process Study and Process redesign
- Automation

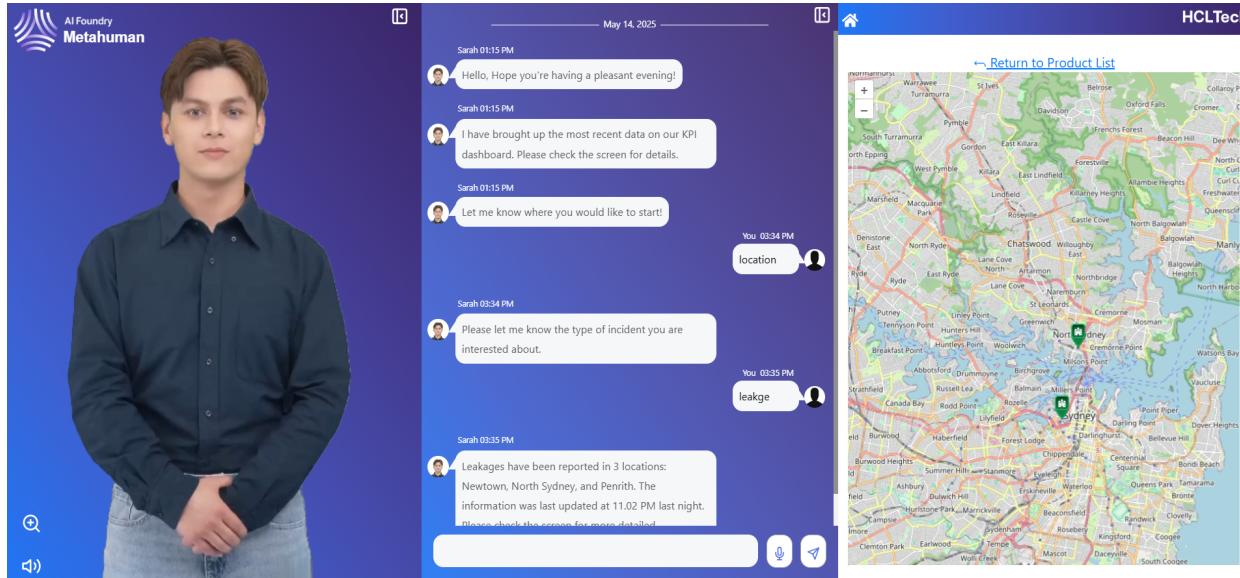
## Technical Approach :



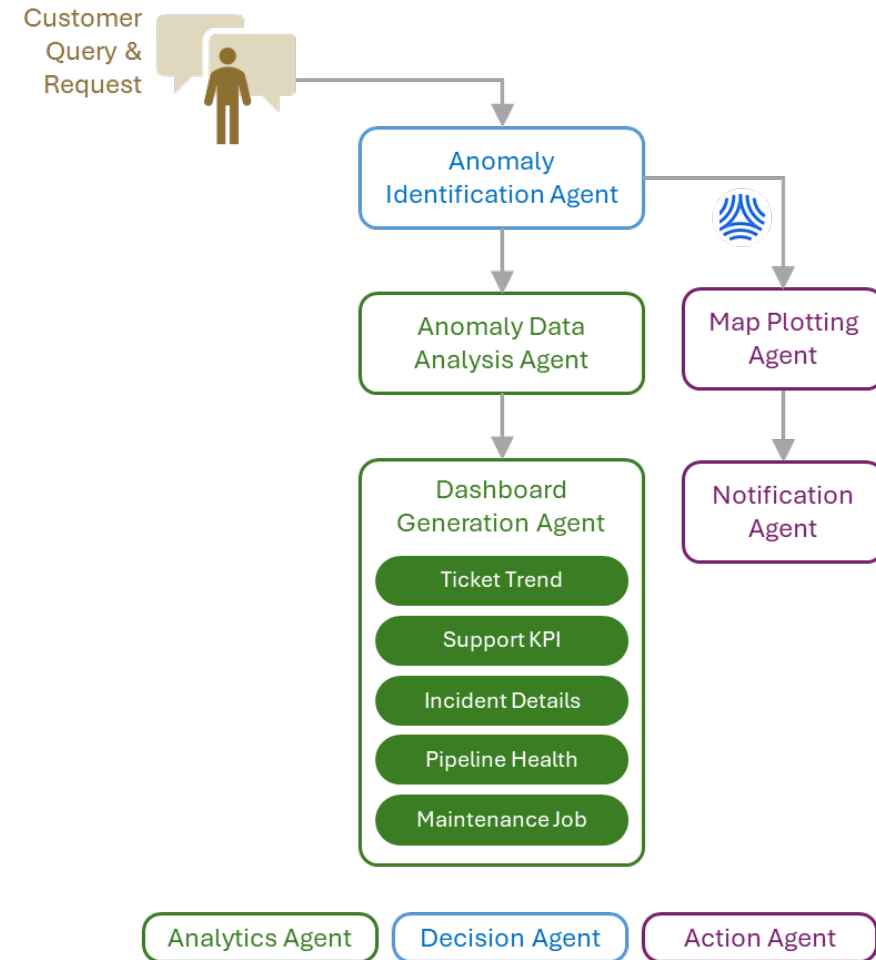
**Insights delivered :** Dashboard on Asset information, status, health , proactive maintenance recommendations



# HCLTech AI Foundry > Scale AI Assets > Metahuman Framework driven Solution > Experience Utility Service Desk for an Australian Water Supplier



Serving as water supplier for residents of a huge area in and around Sydney in Australia, customer wanted to improve its serving quality by early identification of onsite issues like leakage, blockage, drop in pressure etc., reducing the response time to address such incidents and enhancing the overall consumer experience with an efficient service desk. At the same time, making the dashboard-based information availability was also an objective.



Demo 3-

Conversational  
BI  
using  
Metahuman  
Framework

**HCLTech** | Supercharging  
Progress™

AI Foundry Framework

# Metahuman Framework

HCLTech Next Gen Conversational AI Solution



AI Foundry

**HCLTech** | Supercharging  
Progress™

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