Agenda

Microsoft | acuvate
...where Acumen drives Innovation

- ➢ Introduction of Acuvate

- ➢ Introduction to Acuvate Accelerators

- ➢ Introduce Acuvate 7 steps Standard Digital Framework

- ➢ Explain Acuvate end to end Data services including explained our building blocks

- ➢ Microsoft and (Gen) AI developments

- ➢ Explain Centralised Acuvate Gen-AI Platform including the link with our end to end Data services

- ➢ Overview of Acuvate Business Solutions including Gen-AI driven ones

- ➢ The Need for Centralized Governance in GenAI Utilization

- ➢ Increasing importance of (near) realtime decision making and how supported

- ➢ Q&A Session
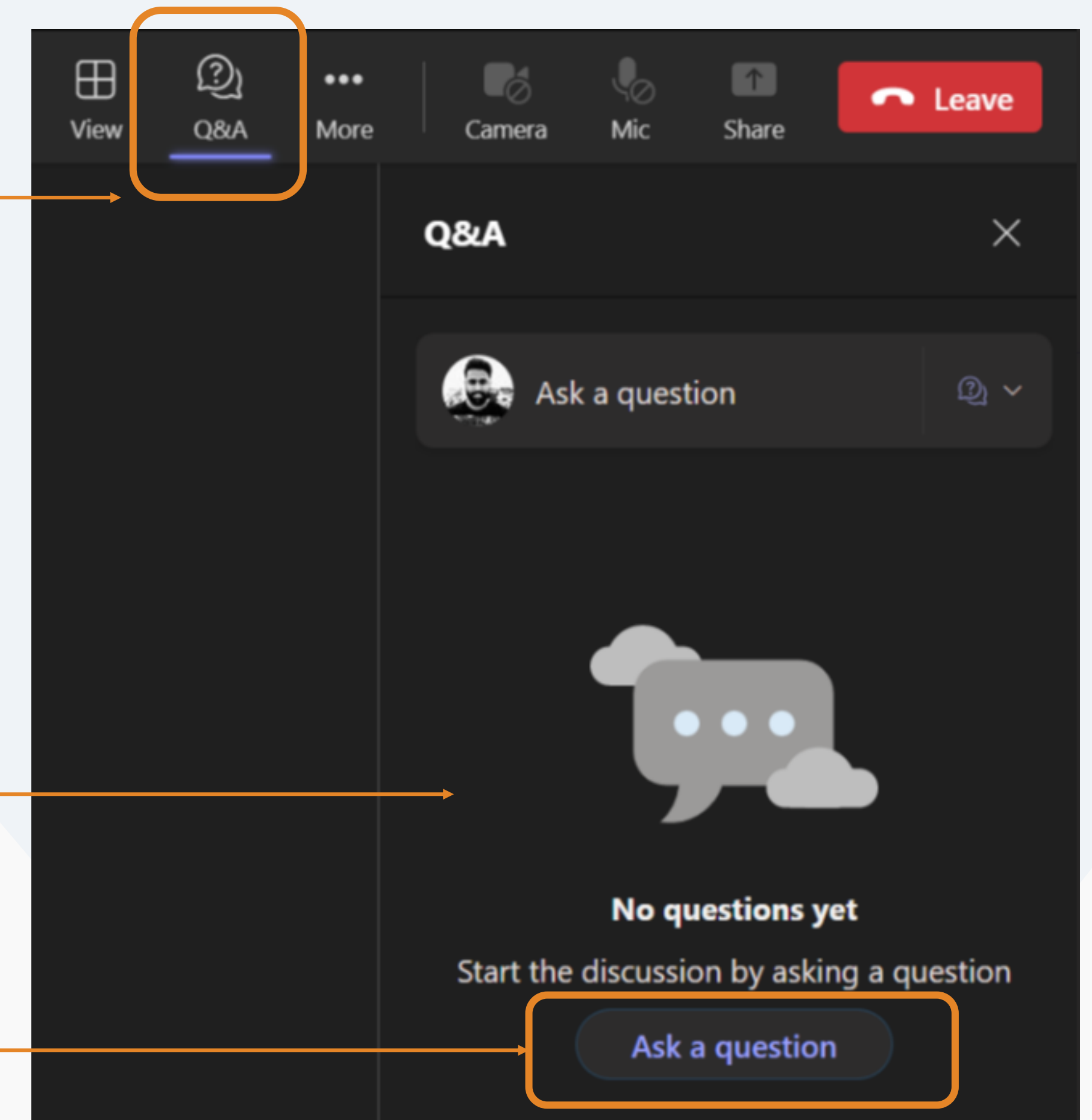
Housekeeping – Asking speaker a question

We want to hear from you!
Please submit your questions. We'll reserve time for Q&A at the end of the webinar.

1 To submit questions, click on the Q&A at the top right corner

2 Clicking on the Q&A icon will open a window where you can type your question.

3 Click on the 'Ask a question' button & type your question.

Housekeeping –Participating in Polls

Your opinion is valuable to us!
Please take part in our polls to help us understand your views.

1 Submit Your Vote:

A new window will pop up with the poll question.

Choose your answer from the provided options

2 Confirm Your Selection:

After selecting your option, make sure to hit the
'Submit' button to record your response..

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Poll 1

Is your data ready for Generative AI solutions?

- A) Yes, we have clean and well-prepared data.
- B) Partially, some of our data is ready.
- C) No, our data needs significant preparation.
- D) Unsure, we are still assessing our data readiness.

E) I am unsure about GenAI ready mean.

ABOUT ACUVATE

Acuvate is a global player in next-generation digital solutions & services that modernize, automate and transform enterprise applications. With over **17 years** of experience, we have been enabling our clients globally to steer their digital transformation strategy using **AI, Data & Cloud**.

We build & develop smart & sustainable solutions to help our customers transform their conventional processes to match the next-generation technological trend.
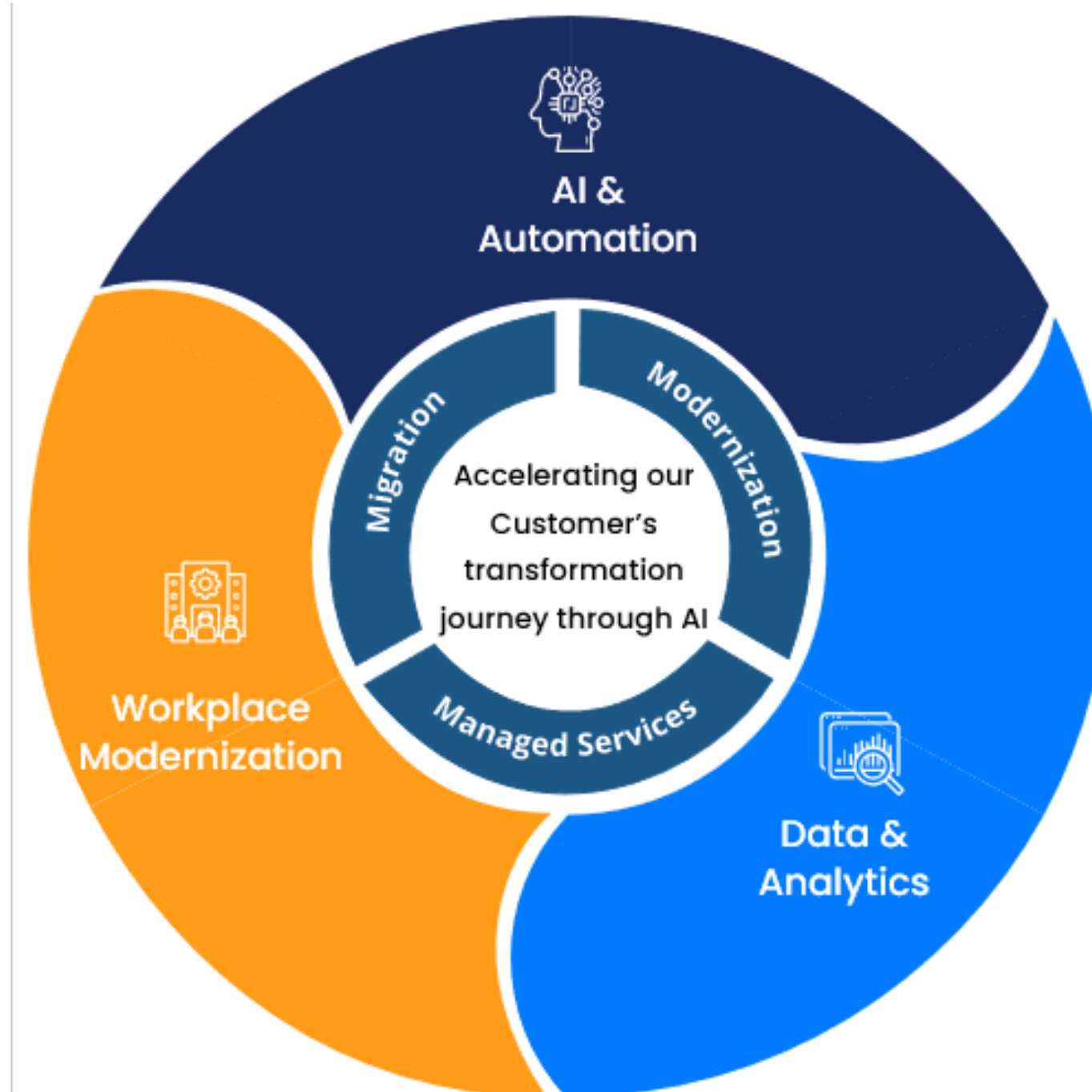
OUR FOCUS

EMERGING TECH

ACCELERATORS

Org Brain

Mesh3.0 By Acuvate

BotCore By Acuvate

MPASS By Acuvate

Optimum

CONSULTING SERVICES

Weave. FABRIC WORKSHOP

Ignite GEN AI WORKSHOP

AI & Automation

Modernization

Migration

Accelerating our Customer's transformation journey through AI

Managed Services

Data & Analytics

Workplace Modernization

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500+
Multi-Skilled Professionals

17+
Years in the Industry

3 Continents, 7 offices
North America, Europe, Asia

Gold Microsoft Partner

AI and Machine Learning in Microsoft Azure Specialization

Analytics on Microsoft Azure Advanced Specialization

Modernization of Web Applications to Microsoft Azure Advanced Specialization

Google Partner

COGNITE databricks

snowflake dbt

UiPath AUTOMATION ANYWHERE blueprint

Trusted partner of Several Fortune 500 companies across the globe

Certification & Compliances

ISO 27001 Certified GDPR The General Data Protection Regulation ITIL

OUR GLOBAL CLIENTELE

Microsoft | acuvate

CPG, Retail
Unilever, AB InBev, Mars, SUNTORY, DIAGEO, hp, Kimberly-Clark, Holland America Line, BRITANNIA, DELL, BRITVIC, TATA GLOBAL BEVERAGES, Domino's Pizza

Oil & Gas, Energy
Shell, NEPTUNE ENERGY, vår energi, eni, sherritt, Seadrill, SUPERGAS

Manufacturing
adidas, niagara, AkzoNobel, EVONIK, GREIF, HEIDELBERGCEMENT, HARSCO INFRASTRUCTURE, BUILT

Government
NYC Environmental Protection, NYC SCA School Construction Authority, Georgia Department of Human Services, NHS Oxford University Hospitals NHS Foundation Trust, NHS University Hospitals Bristol NHS Foundation Trust, U HEALTH UNIVERSITY OF UTAH, NEW ZEALAND FOREIGN AFFAIRS & TRADE, WEST MIDLANDS FIRE SERVICE, BC PENSION CORPORATION

BFSI
BAJAJ FINSERV, desert FINANCIAL CREDIT UNION, ARAG, ADIB, orient insurance pjsc, Emirates NBD, AON, AXA, AA

Healthcare and Pharma
Hanger Empowering Human Potential, CBI HEALTH GROUP, Biogen, Celgene, medline Inspired Solutions for your laboratory, astellas

Technology, Telecommunications & Others
DATAMARK, NEWPARK, Carnival, Foresight Ever-growing value. Everlasting value., XILINX ALL PROGRAMMABLE, KIER, City, Bentley, LIBERTY GLOBAL, Crowe, Wincanton, Biffa, W, RSI

TRUSTED BY 200+ ENTERPRISES WORLDWIDE INCLUDING SEVERAL FORTUNE 500

ACUVATE'S
END TO END DATA SERVICES

ACUVATE'S END TO END DATA SERVICES

- **DIGITAL** driven.

- **End to End:** From collecting the right data as input to getting maximum **Business value** out of each process.

- **Need for increased Speed** and Efficiency drives Demand for **Realtime** execution of business workflows.

- Our prime focus initially at **MANUFACTURING & ENERGY**, but also growing towards other Industries such as **CONSUMER GOODS, BANKING, MEDICAL, ETC..**

- **Scalability** important given the expected **explosive growth of data.**

- **Data quality addressed** and therefore being able to exploit latest **AI (ML / MV / GEN)** developments.

- OT and IT support.

- Getting ready for **Digital Twins.**

ACUVATE'S STANDARD DIGITAL FRAMEWORK

Acuvate's framework, to Modernize, Optimize and Transform businesses to Digital Decision Automation

acuvate®

All data types feeding AI routines and resulting in higher value decision making

Devices (Machine)

(Existing)
Fill \ Applications

Connectivity

Edge Compute

Device mgt Data Platform (Cloud Compute Storage)

Applications & Services (AI-ML /MV)

Inform Decision Makers

Support Decision Making

(IT/OT) Cyberdefense - Information Security

DATA FLOW BOTH WAYS
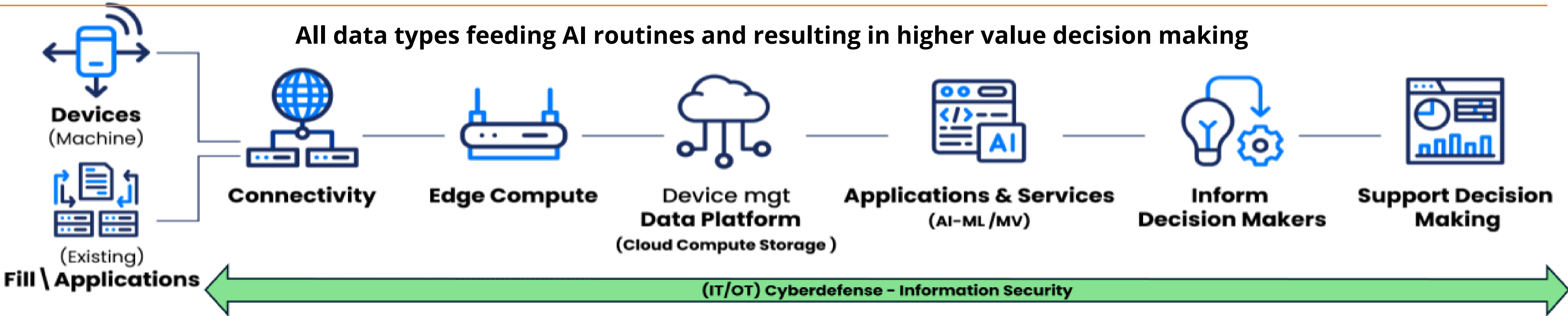
Setpoints

① Multiple devices (sensors) collect data for processing (e.g., videos, images, temperature, pressure, damages, consumer, banking, etc.)
Apps can produce input as well and then to be used as input..

② 4G or 5G as base connectivity to transport large volume of data with low latency
Other protocols for other type of messages

③ Edge compute will be used for time-critical use cases and/or high-volume computing

④ Data will normally be transferred to a single cloud-based store per company: It will be the Acuvate Data Platform.

IOT Device Mgt: complete (IOT) control & mgt

⑤ AI (ML / MV) will be used to provide insights from data collected and translated into information
Both data (ML) and images (MV) can be used for this

⑥ Inform decision makers using various methods (e.g., XR, e-mail, set-point, Digital Twin, etc.) and of course Gen-AI as increasingly important

⑦ Decision makers make the final call on actions to be taken.
Autonomous is as well possible whereby AI makes the call

Manufacturing

Energy

CPG,Retail, Supply Chain

Government

Healthcare

BFSI

APPLIES TO ANY INDUSTRY / GOV / ETC. BUSINESS

WHAT IS
ACUVATE'S INDUSTRIAL DATA PLATFORM?

ACUVATE'S (INDUSTRIAL) DATA PLATFORM

- **Scalable** to support ever increasing data volumes.

- This version is focused at **Energy / Manufacturing** and Related File input data.

- For this reason, there is direct support for your important filetypes such as **Timeseries**, etc.

- Several features to **manipulate your important data types.**

- Full support for **AI (MV-ML) - GEN-AI** modelling and related data / query support.

- Link to **EDGE** version so data can be stored in edge and/or main data platform

- Fully imbedded in the **Acuvate 7 steps approach (see slide 7).**

Acuvate's Industrial Intelligence Data Platform - Master

Data Fabric

Data Lakehouse on Cloud	Application and Services

Edge On-Prem/On-Device

Data Sources On-Prem & Cloud

- OT Data (Historian, SCADA, DCS)
- Internal Data (Owned)
- 3rd Party Data
- Unstructured Data
- Qualitative Data

Realtime Streaming

Edge AI/Applications

Edge Management

Edge Cloud

Batch Processing

GenAI

Raw → Clean → Curated

Contextualisation

Model Deployment from Edge on Cloud

- Portal / Dashboarding
- AI-ML
- AI-MV Gen-AI
- PowerBI
- Analytics application

Insights Serving Layer through Integration GenAI

Inform Decision Makers/Support Decision making

- Copilot (includes Gen-AI)
- Reports and Dashboards
- Data Chat Bots
- Digital Twins
- Intelligent App (including XR)
- Real time Alerts

Data Governance, Security and Compliance

Enterprise Data Architecture

Data Strategy, Domain Consulting, Technology & Analytics Consulting

Program and Change Management

Data Catalog with Active Metadata Management

Data Observability and Data Operations

- Databricks based with Energy extensions
- Runs on Cloud and On Premise

The future of AI is here

87%

of organizations believe AI will give them a **competitive edge**

Source: MIT Sloan Management Review

Microsoft Fabric

CIOs are accelerating their efforts to bring AI to their data estate

Azure

Applications

Microsoft 365   Microsoft Dynamics 365
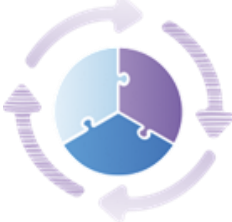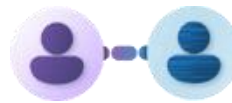
| Power BI | Power Apps | Power Automate | Power Virtual Agents |

| ISV ecosystem | Customer Solutions | Partner Solutions |

Azure AI Services

| Bot Service | Cognitive Search | Document Intelligence | Video Indexer | Metrics Advisor | Immersive Reader |

| Vision | Speech | Language | Decision | Azure Open AI |

Azure AI Studio

Machine Learning Platform

Azure Machine Learning

Data Platform

Fabric

AI Infrastructure

Azure

Get to know Azure AI

Azure AI Studio
One place for building and deploying AI solutions

- Model Catalog
- Complete AI Toolchain
- Responsible AI Practices
- Enterprise-Grade Production at Scale

Cutting-Edge Models
Access to the latest foundation and open-source models

- Model Catalog
- Models As a Service
- GPT Model Family
- Open-Source Models
- Small Language Models

Azure AI Services
Pre-trained, turnkey solutions for intelligent applications

- Azure OpenAI Service
- Azure AI Search
- Azure AI Speech
- Azure AI Vision
- Azure AI Content Safety
- Azure AI Document Intelligence
- Azure AI Language
- Azure AI Translator

Azure Machine Learning
Full-lifecycle tools for designing and managing responsible AI models

- Prompt Flow Orchestration
- Responsible Model Design
- Model Fine-Tuning
- Model Training

Azure AI Infrastructure
State-of-the-art silicon and systems for AI workloads

- High-Bandwidth Networking
- Microfluidic Cooling
- Azure Maia Silicon

The core dimensions of implementing generative AI effectively

Model choice

Select the right models **for your use case**, benchmark and test them with your data

Total trust

Innovate confidently on top of data privacy, security, compliance, and critical **content safeguards**

Experience quality

Build high-quality LLM-based applications with **information retrieval** and prompt engineering

Streamlined lifecycles

Operationalize and scale the **management** of your GenAI apps as they evolve over time

GenAI

Microsoft Azure runs on trust

Your data is your data.

Azure AI does not store your data. Your data is stored and encrypted in your Azure subscription.

Your data from any fine-tuning is not used to train the AI foundation models.

Model fine tuning stays in your Azure subscription and never moves into the foundation models.

Your data is protected by the most comprehensive enterprise compliance and security controls.

Encrypted with Customer Managed Keys, Private Virtual Networks, Role Based Access Control Soc2, ISO, HIPAA, CSA, STAR Compliant.

The **most valuable companies** build with Azure AI

53,000
organizations
using Azure AI

>50%
of the Fortune 500
on Azure OpenAI Service

150%
increase in work output with
Azure AI

Poll 2

Are you managing multiple GenAI projects with centralized governance in your organization?

- •A) Yes, we have a centralized governance structure.
- •B) Yes, but governance is decentralized.
- •C) No, we are managing them individually.
- •D) We are planning to implement centralized governance
- •E) We do not have GenAI projects.

WHAT IS
THE ACUVATE'S GEN-AI PLATFORM & ORG BRAIN ACCELERATOR

ACUVATE'S VISION FOR GENERATIVE AI PLATFORM

"Our Vision is to empower Enterprises harness the power of Generative AI by adopting the cutting-edge technology services available in the market using an enterprise ready platform approach. The platform should accelerate the time to market enabling businesses to swiftly roll out innovative use cases and achieve their strategic goals with efficiency and confidence."

In order to achieve this vision, Acuvate has developed a framework **-"Org Brain".**

Org Brain, simply put, is an accelerator framework designed to enable organizations to swiftly build and deploy Centralized GenAI platform. It consists of pre-built components & methodologies that are enterprise ready and have been built by implementing using the available technologies and best practices. Org Brain eliminates the need to start from scratch, significantly reducing development time and effort by at least 40%.

ACUVATE'S CENTRALIZED GENAI PLATFORM ARCHITECTURE
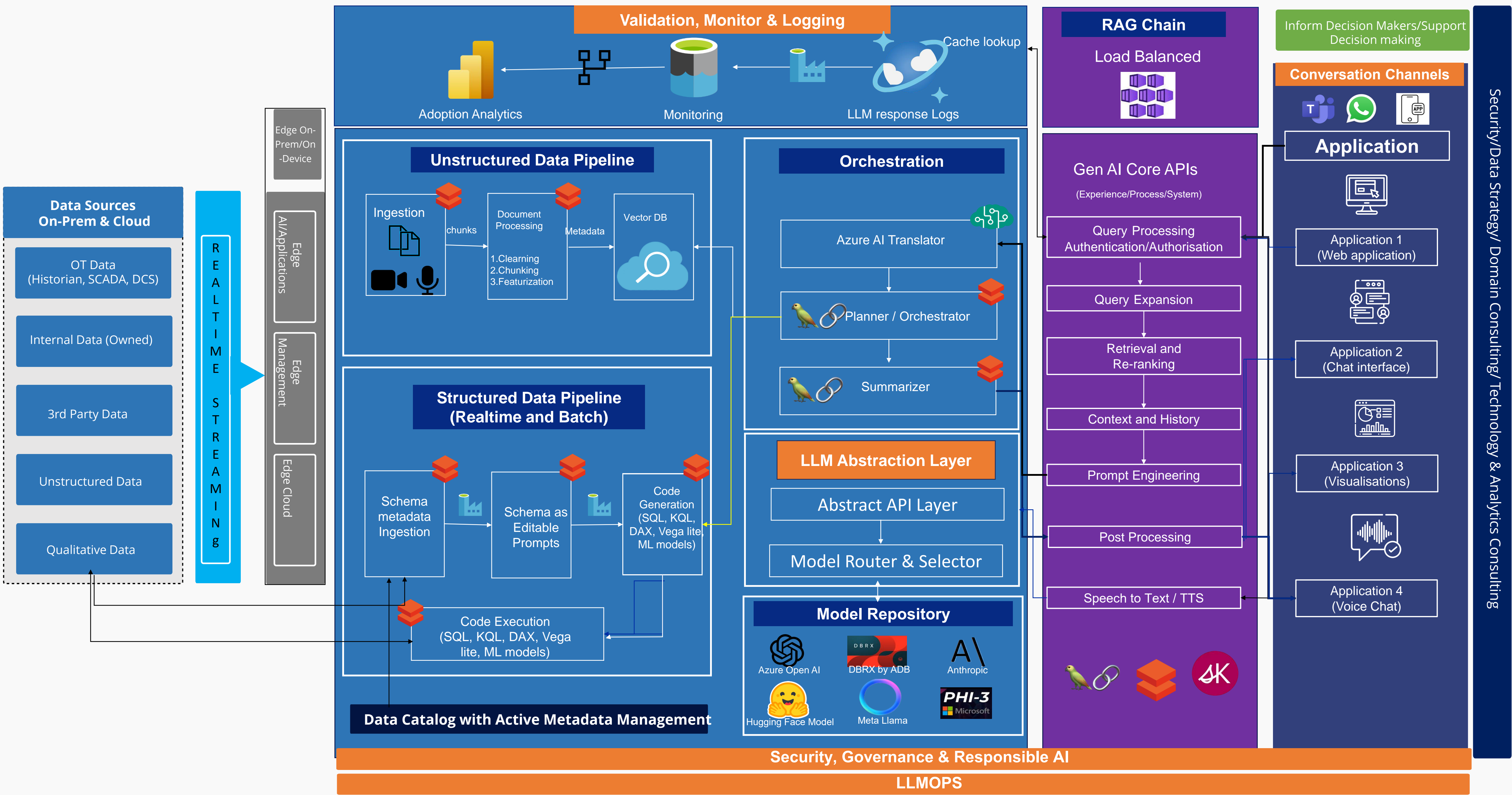
HOW YOU CAN GET BENEFITS FROM ACUVATE GENAI PLATFORM & ORG BRAIN ACCELERATOR?

Centralized Governance: Enables centralized governance, ensuring compliance and security measures are uniformly enforced.
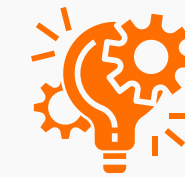
Up-to-Date Innovation: Maintains a modern technology stack, incorporating the latest advancements to enhance usability across various applications.

Cost Efficiency: Drives cost savings through reduced development expenses by leveraging innovative technologies, staying current with tech trends, and minimizing maintenance costs.

Data Security: Enhances data security protocols, minimizing the risk of unauthorized access and inadvertent data exposure, thereby significantly reducing the likelihood of security breaches within Unilever.

Continuous Improvement: Fosters iterative enhancements based on feedback from implemented GenAI applications, ensuring ongoing relevance and operational efficiency.

API Integration: Business teams can seamlessly integrate platform APIs into their applications, leveraging capabilities such as RAG for more accurate information retrieval.

Data Type Agnosticism: Supports a variety of data types, enabling business users to access real-time analytics, forecasting data, and AI-driven insights effortlessly.

Cloud Agnosticism: Provides flexibility to migrate between different cloud platforms easily, offering centralized management for streamlined transition.

Multi-Lingual and Multi-Channel Capabilities: Facilitates the rollout of GenAI applications across different languages and interfaces, ensuring accessibility and usability across diverse user groups within Unilever.
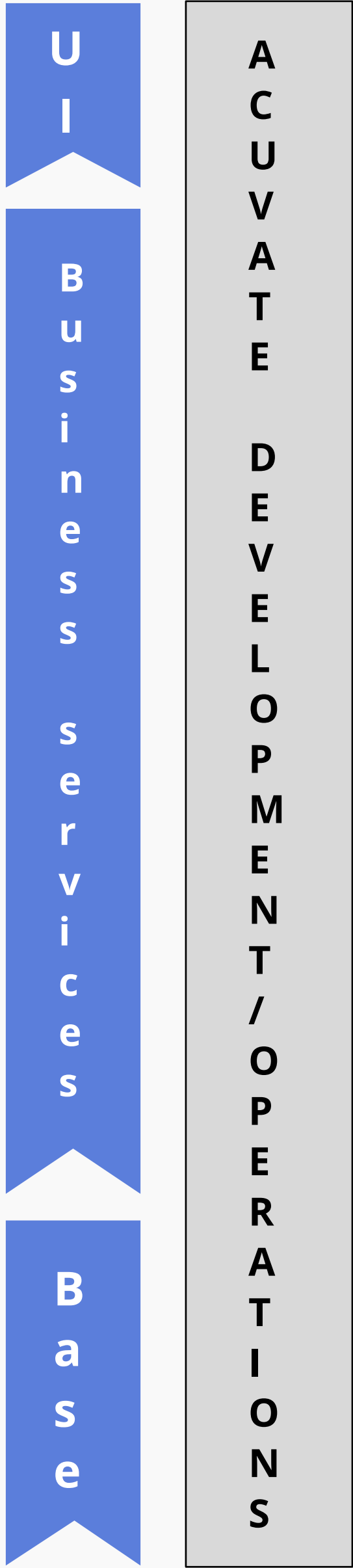
Cloud Platform Agnostic: Offers a centralized location for managing GenAI models, facilitating smooth movement from one cloud platform to another as per business needs and preferences.

Seamless Integration: Effortlessly integrates with various types of GenAI models tailored to specific use cases and compatible with different cloud partners.

ACUVATE'S (GEN-AI) BUSINESS SOLUTIONS (WITH DEMOS)

ACUVATE BUSINESS SERVICES OVERVIEW

acuvate®
...where Acumen drives Innovation

UI / Business services / Base	ACUVATE DEVELOPMENT/OPERATIONS		
	AI	(Co-Pilot) Digital Twins / PowerBI (reporting) / XR (3D)	
	AI	Gen-AI user interface: (Search) Documentation – Structured data - Tables	
	AI **Edge**	Energy Mgt: Utilities / Optimize	
	AI **Edge**	Customer / Thirdparty Business Applications	
	AI **Edge**	Optimized Production Line settings	**Man**
	AI	Overall Equipment Effectiveness (OEE)	**Man**
	AI **Edge**	HSSE: PPE / Zone protection / Emission leakages / Smoke detection	
	AI **Edge**	(real time) Quality Control Elementary (products: Very high success rate)	**Man**
	AI **Edge**	real time) Quality Control (products: Plastics / lubricants / chemicals)	**Man**
	AI	Operations: E2E from Pred. Maintenance to Maintenance Staff fixing the problem	
	AI	(drones / robots) Operations: Leakage Detection / Spillage / Emissions	
	AI	Predictive Maintenance (ADI Smart Motor Sensor): For Three Phase Induction & Magnetic eng.	
	AI	Predictive Maintenance: For pumps / engines / turbines / compressors / valves / etc.	
	AI	Acuvate AI – Machine Learning / AI – Machine Vision: Development – Training – Running (device itself / edge / enterprise data platform)	

Governance / Cleansing / Master data	Acuvate Data Platform	Acuvate Edge Platform
	Acuvate 7 steps standard Digital framework	
IT & OT (data sources)	Sensors	(Cloud: MS Azure & On Premise)

ACUVATE'S BUSINESS SERVICES FOR INDUSTRY (ENERGY & MANUFACTURING)

Energy / Manufacturing Predictive Maintenance
(engine / turbine / compressor/ pump / transport belt / etc.).

Predictive Maintenance (ADI OTO Smart Motor Sensor)

Energy / Manufacturing Quality Control

Energy / Manufacturing Quality Control (Elementary)

Energy / Manufacturing Operations (End to end Problem Solving services)

Energy / Manufacturing Operations (Leakage detection / Spillage / Emissions) by robots driving around

HSSE (PPE / smoke detection); (Zone protection)

Gen AI for Operations Efficiency

Gen AI search-based services for documentation

Edge Services with applications

Acuvate Data Platform

Sensor (optional bi-directional) based data feed

AI - ML model development & training

AI-MV model development & training

Data Cleansing

Digital Twin End to End services

Gen-AI enabled   **Gen-AI enriched**   **Demo**

1. **Pre-Built demos** - We have the following prebuilt demos that can be showcased to your business users for quick buy-in using a "**Show & Tell**" approach:
   - IT Helpdesk for IT Operations
   - HR Next for HR Operations
   - Operations Next for Factory Operations
   - Knowledge Management Solution – Employees Assistants,
   - Document comparison – Standard Guidelines Comparison, RFP Responses, Contract Documents.
   - Document Generation – BRD, TDD documents creation, Test case generation, Contract document generation, Prescription generation
   - Supplier Automation – Supplier Assistants, Retail Assistants, Procurement Chatbots.
   - Email Classification & Automation – Email Classification (using Sentiment Analysis, Categories), Ticket Classifications

Poll 3

How likely are you to invest in a centralized GenAI platform?

- •A) Very likely
- •B) Somewhat likely
- •C) Neutral
- •D) Unlikely
- •E) Very unlikely

THANK YOU

Contact: **advisors@acuvate.com**