COMPANY & PROGRAM PROFILE

# AI Business Institute

*Where AI Strategy Meets Real-World Execution*

Flagship Program

## AI-First Enterprise Transformation

## Strategy Program

*Architecting and Operationalizing AI Systems in Real-World Enterprises*

| 6 | 6 | 5 | 1 |
|---|---|---|---|
| WEEKS | LIVE SESSIONS | REAL INDUSTRY CASES | BOARD-READY BLUEPRINT |

COMPANY PROFILE

# AI Business Institute

*Redefining enterprise AI education from the ground up*

## Our Identity

AI Business Institute is a specialized enterprise AI education and advisory organization built on a singular conviction: the most dangerous gap in global AI adoption is not technical - it is the absence of leaders who can translate AI capability into real business transformation.

We are not an academic institution extrapolating theory into practice. We are not a technology vendor selling a platform with training attached. We are not a consulting firm recycling case studies about companies that most of our participants will never work for. We are practitioners who have spent two decades building and breaking AI systems in the field - in oil rigs, on factory floors, in avionics bays, across national surveillance infrastructure, inside financial trading platforms, and through the messy reality of legacy enterprise systems.

That practitioner foundation is our product. Everything we teach is derived from systems we have designed, deployed, failed with, fixed, and scaled. We teach what actually works - and we are direct about what does not.

## Our Vision

> To produce the highest-caliber enterprise AI strategists in India, ASEAN, and the Middle East - leaders who can walk into a boardroom with a credible AI strategy, build the systems that deliver it, and measure the results in shareholder value.

## Our Mission

> 1. **To bridge the "Expertise Gap":** Equipping leaders to translate raw AI potential into measurable business value, revenue growth, and increased company valuation.
> 2. **To provide Practitioner-Led Frameworks:** Replacing academic theory with field-tested strategies for integrating AI into legacy systems (SCADA, OT, ERP) and physical industrial assets.
> 3. **To de-risk Enterprise AI Adoption:** Empowering executives with the governance, ROI modeling, and architectural independence needed to lead transformation without vendor bias or costly consultancy dependence.

## What Makes AI Business Institute Different

| We Versus | What They Offer | What We Offer Instead |
|---|---|---|
| Ivy League Programs | World-class theoretical frameworks with no deployment experience. Case studies from companies most participants will never work in. No coverage of cyber-physical AI, MLOps, or AI product operationalization. | We build real systems in real enterprises. Every framework taught here has been tested in a production environment - in aviation, oil & gas, manufacturing, government, retail, and financial services. |
| AI Vendor / Hyperscaler Training | Teaches their own stack. Vendor-biased architecture decisions. No strategic or financial framework. No governance depth. Silent on everything that doesn't involve their cloud. | We are vendor-neutral. We teach architecture, strategy, and governance - then give participants the framework to evaluate vendors on their own terms. |
| Silicon Valley AIPM Programs | Built for B2C product companies in high-growth markets. Focused on growth hacking, experimentation, and scale. Irrelevant to budget-constrained enterprises with legacy systems, regulatory constraints, and physical operations. | Our programs are designed from the ground up for enterprise reality in Asia and the Middle East: SOE dynamics, legacy infrastructure, talent scarcity, multi-regulator environments, and physical operations. |
| Big 4 / McKinsey AI Training | Strategically excellent, practically thin. Priced at $30K–$100K per engagement. Accessible only to Fortune 500 companies with global consulting budgets. | We deliver the depth of a strategic advisory engagement at a fraction of the cost - with the added advantage that participants leave with a deployable strategy, not a presentation. |

## The Cyber-Physical AI Distinction

AI Business Institute is the only enterprise AI education provider that systematically addresses Cognitive Cyber-Physical Systems (CPS) - the integration of AI with physical infrastructure, industrial sensors, edge devices, operational technology, and digital twins.

This is not a niche add-on. Over 60% of enterprise value in India, ASEAN, and the Middle East sits in sectors that operate physical assets: manufacturing, energy, utilities, transportation, logistics, healthcare infrastructure, agriculture, and construction. If your AI strategy doesn't address physical operations, it doesn't address most of your enterprise.

> No other executive AI education program - anywhere in the world - addresses Cognitive Cyber-Physical Systems at the strategic and architectural level. This is not a technical course for engineers. It is a strategic course for leaders who are responsible for AI systems that interact with the physical world.

## Our Services

| Service Line | Description |
|---|---|
| Enterprise AI Education | Flagship 6-week intensive cohort programs, executive masterclasses, and corporate in-house training. Built for C-suite, VP-level, and senior architecture roles. |
| Enterprise AI Strategy Advisory | End-to-end AI strategy engagements: opportunity discovery, architecture design, vendor evaluation, build vs. buy analysis, ROI modelling, and governance framework development. |
| Cognitive Cyber-Physical Solutions Strategy | Specialized advisory for industries operating physical infrastructure: industrial IoT strategy, digital twin roadmaps, edge AI architecture, and OT/IT convergence planning. |
| Corporate AI Training Programs | Custom-designed enterprise AI education programs for organizations seeking to upskill entire teams - including L&D partnership programs, internal AI academies, and cohort licensing. |

## Industry Sectors We Have Deployed In

| | | | |
|---|---|---|---|
| **Smart Cities & National Infrastructure** | **Oil & Gas** | **Aviation & Aerospace** | **Manufacturing & Industrial** |
| **Retail & Consumer** | **Transportation & Logistics** | **Financial Services** | **Hospitality & Tourism** |
| **Supply Chain Management** | **Biometric & Public Safety** | **Healthcare & Medical Devices** | **Government & Public Sector** |

FOUNDER & LEAD INSTRUCTOR

# Dr. Adhiguna Mahendra

*PhD · AI Architect · Multi-Sector CTO · Author · National AI Transformation Leader*

## The Man Who Built What Others Only Theorize

Dr. Adhiguna Mahendra is not an academic who studies AI deployment. He is a builder who has deployed it - from the sensor to the boardroom, from the algorithm to the P&L, from the proof-of-concept to the production system - across more than two decades and more than a dozen industries.

His biography reads as an unusual combination of rigorous scientific training and battlefield-level enterprise execution. He holds a PhD in Machine Learning and Computer Vision from the Université de Bourgogne, France, and a Master's in Computer Vision and Robotics from Heriot-Watt University, UK. He has been published in IEEE conferences on anomaly detection, industrial computer vision, and machine vision systems. And he has then taken that research - and built real systems with it, at scale, under commercial and government pressure, across Asia, Europe, and the Middle East.

## Career at a Glance

| Role | Detail |
|---|---|
| Current Role | Director of AI & Data Transformation - National Capital City of Indonesia (Nusantara / IKN). Leading sovereign-scale AI architecture, smart-city intelligence systems, and national AI data strategy for Indonesia's new capital - one of the most ambitious urban AI deployments in Southeast Asia. |
| Chief of AI, Business & Products | Nodeflux - Indonesia's leading AI Computer Vision company. Led end-to-end development and commercialization of AI platforms in computer vision, biometric identity, and enterprise analytics across public safety, financial services, retail, and critical infrastructure. |
| Founder | AI Business Institute - enterprise AI education and advisory, designed from practitioner experience for real-world enterprise deployment. |
| Academic Roles | Lecturer - Swiss German University and Central Queensland University. Best Lecturer Award, 2018. Subject: Applied AI, Cloud Computing, Big Data, and enterprise intelligent systems. |
| Author | "AI Startup Strategy" - Published by Apress/Springer, 2023. 518 pages. A comprehensive blueprint for building and scaling enterprise AI ventures, covering business model design, AI |

| | |
|---|---|
| | architecture, product development, operationalization, IP strategy, and valuation.<br><br>"Intelligent IoT Analytics"- Published by Mercury Learning 2025. A comprehensive blueprint of building large scale AIoT solutions for industries and smart city systems.<br><br>"Intelligent Video Analytics" – Published by Mercury Learning 2025. A comprehensive blueprint of building large scale smart surveillance and video analytics systems.<br><br>All books are available at Amazon, Barnes & Noble, Kinokuniya, Waterstones. |
| Research | Published across IEEE ICME and other international conferences. Areas: machine vision, anomaly detection (aviation FOQA data), industrial surface inspection (Magnetic Particle Inspection), and spatial AI. Affiliated research with Universitas Syiah Kuala. |
| Academic Credentials | PhD - Machine Learning & Computer Vision, Université de Bourgogne, France, 2012. M.S. - Computer Vision & Robotics, Heriot-Watt University, UK, 2008. |
| Industries Deployed In | Smart cities, oil & gas, aviation, retail, manufacturing, financial services, public safety & biometrics, government, transportation & logistics, supply chain, hospitality, healthcare. |

## What Participants Learn From Dr. Mahendra That They Cannot Learn Anywhere Else

- How an AI system actually fails in production, and how to design so it doesn't
- How to present an AI business case to a board that includes a CFO who has seen overpromised AI before
- How to architect a Cognitive Cyber-Physical System that integrates industrial sensors with AI inference at the edge
- How AI strategy must be designed differently for a state-owned enterprise in Jakarta versus a private bank in Mumbai
- How to evaluate an AI vendor's claims against the technical and commercial realities of your enterprise
- How to build an AI team when top AI talent won't work for your company's salary band
- How to move from a proof of concept that impressed your CTO to a production system that delivers quarterly results

**A Note on Pedagogy**

The primary teaching method is not lecture - it is deconstruction. Each week, Dr. Mahendra deconstructs a real deployment decision: what the options were, what was chosen, what the consequences were, and what he would do differently now. Participants learn not just the right answers but the quality of thinking that produces them.

PROGRAM PROFILE

# AI-First Enterprise Transformation Strategy Program

*The definitive enterprise AI program for leaders in India, ASEAN & the Middle East*

## Program Tagline

**Stop using AI. Start owning it.**

*The only executive program that builds AI strategists who can architect, deploy, and measure AI transformation - not just talk about it.*

# Background: Why This Program Exists

### The Honest Problem With Enterprise AI Education Today

The global AI education market has exploded. There are now hundreds of programs claiming to produce AI-ready executives, from Ivy League continuing education to tech vendor certifications to Silicon Valley cohort programs. And yet, enterprise AI failure rates remain stubbornly high. Studies consistently show that 70–85% of enterprise AI initiatives either fail to reach production or fail to deliver measurable business value after deployment.

The reason is not a lack of AI awareness. Senior leaders today know what AI is. They have attended the conferences, read the reports, and sat through the vendor demos. The reason is a gap between knowing what AI can do and knowing how to build an AI-first enterprise that actually captures that value: architecturally, operationally, organizationally, and financially.

That gap is what this program closes. Not with more theory. With the frameworks, tools, and mental models that come from having built it in the real world.

### Why Existing Programs Fall Short

Ivy League programs are built by brilliant people who have mostly read about enterprise AI, not deployed it. Their case studies are about Google, Amazon, and Tesla, not about a state-owned railway operator in Southeast Asia integrating AI with 30-year-old SCADA systems on a constrained government budget.

Vendor and hyperscaler programs teach you their stack and call it AI strategy. Choosing Microsoft Copilot over Google Vertex is a procurement decision, not an AI strategy.

Silicon Valley PM programs are excellent for building consumer apps at hypergrowth startups. They have essentially nothing to offer to a VP of Digital at a national bank, a CDO at a utility company, or a solution architect at a manufacturing conglomerate.

Big 4 and consulting firm programs are strategically credible but practically shallow - and priced for multinational budgets that most organizations in this region do not have.

> And almost no program anywhere acknowledges that modern enterprise AI is architecturally complex. An agentic AI system alone has seven distinct technical layers: the language model, memory and context, tooling, orchestration, inter-agent communication, infrastructure, and evaluation. Every layer is a strategic decision. Every layer has build vs. buy options. Every layer can fail in production. A program that teaches 'just use GPT' is not preparing leaders to govern systems of this complexity.

### The Deeper Problem: Your Architecture Was Built for a Different World

Most companies are trying to add AI on top of their existing technology stack. But that stack was never designed for intelligence.

For decades, enterprise architecture has followed the same basic model: operational systems capture transactions, data flows into a warehouse, analysts produce dashboards, and humans make decisions. Software stored data. Humans interpreted it. Organisations reacted.

| LEGACY ENTERPRISE ARCHITECTURE | | AI-NATIVE ENTERPRISE ARCHITECTURE |
|---|---|---|
| Operational Systems | → | Operational Systems + Real-Time Signals |
| Data Warehouse | → | Knowledge Layer (Entities · Relationships · Context) |
| Dashboards | → | AI Agents (Monitor · Interpret · Decide) |
| Human Decisions | → | Automated Actions + Human Escalation |
| **Data → Reports → Decisions** | ⟹ | **Signals → Knowledge → Action** |

AI changes that model completely. The next generation of enterprises will not use AI as a reporting tool, they will be built around it. In an AI-native enterprise, intelligence is not something you check in a dashboard. It is a continuous operating capability of the organisation itself.

The biggest challenge is not the technology. Most enterprise architectures were built for a world where humans were the primary decision engine. Redesigning that assumption strategically, architecturally, and organisationally is the central skill this program develops.

### The Gap This Program Fills

The professionals who genuinely need a serious enterprise AI strategy program are the ones these programs ignore: leaders working inside non-tech corporations, state-owned enterprises, multinationals, and industrial companies across India, ASEAN, and the Middle East. They have budgets that are real but constrained. They have data that is

abundant but ungoverned. They have legacy systems that cannot be replaced overnight. They have regulatory environments that differ from anything a Silicon Valley case study has ever addressed. And many of them operate physical infrastructure that AI must interact with - not just digital products.

This program was designed for exactly that reality. Not adapted for it. Designed for it, from the first principle.

### The Motivation: 20 Years of Watching the Same Failure

Dr. Mahendra has spent two decades observing a repeating pattern: organizations that understand AI conceptually but cannot translate that understanding into deployed, operational, value-generating systems. The failure is almost never technical - there are engineers who can code the models. The failure is almost always strategic: no clear business alignment, no architecture framework, no understanding of what operationalization actually requires, no governance structure that survives first contact with a regulator, and no organizational design that allows AI teams to function effectively.

This program is the structured, transferable version of every lesson learned across those two decades, made available to the leaders who need it most.

## Program Objectives

By the end of this six-week program, participants will have achieved the following:

1. Develop a comprehensive, board-ready AI strategy aligned to their organization's specific financial objectives - revenue growth, cost reduction, risk mitigation, and competitive positioning.
2. Build the AI architecture literacy required to evaluate vendors, commission technical teams, and make informed technology decisions - without needing to write code.
3. Design an enterprise AI product roadmap that accounts for data readiness, legacy system constraints, regulatory compliance, and organizational capability.
4. Understand how to operationalize AI from proof of concept to production, including MLOps, LLMOps, infrastructure design, and model governance.
5. Construct and present a financially grounded AI business case, including ROI modelling, risk-adjusted return analysis, and phased investment planning.
6. Design the AI team and organizational structure required to sustain an AI-first enterprise - including sourcing, structuring, and managing AI talent in resource-constrained environments.
7. Produce a complete, executable AI Strategy Blueprint - a real deliverable they can present to their board, executive team, or investor on the day they complete the program.

> **The Transformation Promise**
>
> You will not leave this program with a certificate and a notebook full of concepts. You will leave with a board-ready AI strategy for your own organization, the frameworks to defend every decision in it, and the credibility to lead the transformation it describes.
>
> From zero to Enterprise AI Strategist - in six weeks.

# Target Participants

### Who This Program Is Built For

This program is designed for senior professionals who are accountable for AI strategy, AI investment decisions, or AI product outcomes at an enterprise level. It is not a beginner's introduction to AI, and it is not a technical programming course. It is a strategic and architectural program for leaders.

| Participant Role | Why They Need This Program | Highest-Value Weeks |
|---|---|---|
| Chief Digital Officer / Chief AI Officer | Accountable to the board for the company's AI transformation agenda. Needs a credible strategy, defensible architecture decisions, and a governance framework that will withstand regulatory scrutiny. | Full program. Every week is directly relevant to this role. |
| Chief Technology Officer | Responsible for AI technology strategy and infrastructure. Needs to align technical decisions with business strategy and communicate them to non-technical leadership. | Weeks 1, 3, 4, 5, 6 are primary. Strong technical depth modules. |
| Chief Product Officer / VP Product | Building AI-powered products and features. Needs the AI product development lifecycle, use case economics, and the architecture literacy to direct engineering teams. | Weeks 1, 2, 4, 6 are primary. AI PDLC and product frameworks. |
| VP Digital Transformation | Leading the enterprise-wide shift to AI-powered operations. Needs the full strategic, architectural, and change management toolkit. | Full program. Change management and organizational design are critical. |
| VP Business / VP Strategy | Responsible for identifying where AI creates value. Needs the business case framework, use case prioritization, and financial modelling tools. | Weeks 1, 2, 6 are primary. ROI and business case frameworks. |
| Enterprise AI Solution Architect | Designing the technical architecture of AI systems. Needs the enterprise architecture frameworks, data strategy, and CPS integration knowledge to build systems that work. | Weeks 3, 4, 5 are primary. Architecture depth is directly applicable. |
| Enterprise Product Manager (AI) | Owning AI product development across the organization. Needs the AI product development lifecycle, vendor evaluation framework, and operationalization knowledge. | Weeks 2, 4, 5 are primary. Direct application to daily responsibilities. |
| Senior Technical Program Manager | Governing complex AI programs across multiple teams and vendors. Needs end-to-end AI lifecycle literacy. | Full program. Governance and team design modules are critical. |

### Geography

- Primary markets: India, Indonesia, Malaysia, Singapore, Thailand, Philippines, Vietnam, Saudi Arabia, UAE, Qatar, Egypt
- Secondary markets: Bangladesh, Sri Lanka, Pakistan, Bahrain, Jordan, Oman - and globally for participants from multinationals with APAC/MENA responsibilities

### Industry Sectors

- Financial services: Banking, securities, insurance, fintech
- Energy and utilities: Oil & gas, power generation, renewable energy, water utilities
- Transportation and logistics: Airlines, railways, ports, freight, supply chain
- Manufacturing and industrial: Automotive, electronics, heavy industry, pharmaceutical, FMCG
- Government and public sector: National AI initiatives, smart cities, public safety, defence procurement
- Telecommunications and technology: Telcos, satellite operators, ISPs, enterprise software
- Healthcare and life sciences: Hospital systems, medical devices, diagnostics, pharma
- Retail and consumer: E-commerce, omnichannel retail, quick commerce, hospitality

## Program Format & Delivery

### Format Overview

| Parameter | Detail |
|---|---|
| Mode | Blended: Self-paced recorded video + 6 live instructor-led Zoom sessions |
| Duration | 6 weeks (approximately 6–8 hours of engagement per week) |
| Live Sessions | 6 Zoom sessions, 2 hours each, held on Saturdays. Attendance is optional but strongly recommended. Sessions are recorded for review. |
| Video Modules | Pre-recorded video lectures (8–12 videos per week, 10–20 minutes each). Watch at your own pace, any device, anytime. |
| Language | English (with contextual examples from India, ASEAN, and Middle East markets) |
| Cohort Size | Maximum 35 participants per cohort. Deliberately kept small for peer learning quality. |
| Start Dates | Quarterly cohort intakes. Fully self-paced version available on a rolling basis. |

| | |
|---|---|
| Capstone | Running through all 6 weeks. Final presentation in Week 6 live session. |

### The Live Saturday Session Design

Live sessions are not lectures. They are structured working sessions in which Dr. Mahendra deconstructs real-world deployment decisions, facilitates peer strategy reviews, and conducts Q&A on participant-specific challenges. Each session follows this structure:

| Session Segment | Content |
|---|---|
| First 20 minutes | Week recap: Key concepts reinforced, common questions from the learning management system addressed |
| Next 40 minutes | Deep-dive case deconstruction: One of the five anonymised anchor case studies (railway CPS, satellite Geo-AI, laboratory intelligence, research institution, or regulated fintech agentic platform) dissected in detail, linking week concepts to real decisions made in actual production deployments |
| Next 30 minutes | Participant strategy workshop: The students review each other's capstone progress with structured feedback |
| Final 30 minutes | Open Q&A and industry discussion: Dr. Mahendra answers specific questions about participants' organizations |

## Program Facilities

| Facility | Description | Access |
|---|---|---|
| 🎓 Certificate of Completion | Enterprise AI Strategy Professional (EASP) Certificate credential awarded upon successful completion of all six weeks and the capstone presentation. Includes a verifiable digital badge for LinkedIn and professional profiles. The EASP credential is signed by Dr Adhiguna himself. | Awarded Week 6 |
| 💻 Learning Management System | Fully hosted LMS accessible from any device - desktop, tablet, or mobile. Organized by week and module with progress tracking, video bookmarking, note-taking, and discussion threads. All recorded live sessions are archived and | Full program |

| | | |
|---|---|---|
| | accessible within 24 hours of each Saturday session. | |
| Video Library | All pre-recorded video modules permanently accessible - including all past live Saturday sessions. Participants retain lifetime access to the full content library, including all future content updates as the program evolves with the AI landscape. | Lifetime access |
| PDF Handouts | Weekly PDF handout packages per session: framework diagrams, reference architecture models, decision templates, scoring matrices, and checklist tools. Designed for active use during live sessions and as working tools in participants' own organizations. | Weekly |
| Program eBook | The AI-First Enterprise Transformation Strategy - the complete program curriculum compiled as a structured eBook. Covers all six weeks of frameworks, models, case study insights, and tools. The participant's permanent reference manual long after the program ends. | Full program |
| Template Framework Library | A complete library of all 15 frameworks taught in the program as ready-to-use, editable templates - including the AI Opportunity Canvas, AI Initiative Scoring Matrix, Build vs. Buy Decision Matrix, AI Architecture Blueprint template, MLOps Maturity Assessment, AI ROI Model (Excel), AI Governance Canvas, and the 7-Layer Agentic AI Architecture Reference. Delivered in PowerPoint and PDF formats for direct use in board presentations. | Delivered Week 1 |
| Tool Access | Guided access and setup walkthroughs for: Google AI Studio (AI workflow prototyping), Dify.ai (LLM and agentic workflow building), Miro (system and architecture mapping), Draw.io (enterprise architecture diagrams), and a pre-built AI Business Case financial model in Excel. | Full program |
| Community: Discord Server | Permanent access to the AI Business Institute Discord community - a professional network of enterprise AI | Lifetime access |

| | | |
|---|---|---|
| | practitioners across India, ASEAN, and the Middle East. Channels organized by industry sector, AI discipline, and geography. Active during and long after the program. Direct access to Dr. Mahendra and guest practitioners. | |
| Professional Network | The AI Business Institute alumni network spans senior enterprise professionals across financial services, energy, manufacturing, government, telecommunications, and technology sectors in India, ASEAN, and the Middle East. Cohort peers become a lifelong professional network of AI-first leaders. | Lifetime access |
| Instructor Access | Participants receive instructor feedback on capstone milestones within 48 hours, can post questions to the LMS forum, and have dedicated time in each Saturday live session to bring real organizational challenges directly to Dr. Mahendra. | Full program |

# Enrollment & Pricing

**NEXT COHORT - BATCH 1 · 2026**

**Program Start: Saturday, 2 May 2026**

| LIVE SESSION 1 | LIVE SESSION 2 | LIVE SESSION 3 | LIVE SESSION 4 | LIVE SESSION 5 | CAPSTONE DAY |
|---|---|---|---|---|---|
| **Sat 2 May** | **Sat 9 May** | **Sat 16 May** | **Sat 23 May** | **Sat 30 May** | **Sat 6 June** |
| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Presentations |

INVESTMENT

**USD $399**

*per participant · one-time payment · full 6-week program*

Includes everything: LMS access · all video modules · 6 live Saturday sessions · PDF handouts · eBook · Template Framework Library · AI ROI Model · Tool walkthroughs · Capstone support · Community Discord · CASP Certificate · Lifetime content access

| | |
|---|---|
| What's Included | LMS platform · All 6 weeks of recorded video modules (lifetime access) · 6 live Saturday Zoom sessions (recorded) · Weekly PDF handout packages · Program eBook · Complete Template Framework Library (15 frameworks) · AI Business Case financial model (Excel) · Tool access walkthroughs · Capstone workspace and milestone feedback · Discord community (lifetime) · Alumni professional network · Enterprise AI Strategy Professional Certificate (CASP) digital credential |
| Corporate / Team Enrollment | Organizations enrolling 3 or more participants are eligible for group pricing. Contact AI Business Institute directly for corporate cohort arrangements, custom in-house delivery, and L&D partnership programs. |
| Enroll Online | www.aibusinessinstitute.com |

Enroll at **www.aibusinessinstitute.com**

*Cohort sizes are limited to 35 participants. Seats fill quickly - early enrollment is strongly recommended.*

FULL 6-WEEK SYLLABUS

# AI-First Enterprise Transformation Strategy Program

*Frameworks · Sessions · Outputs · Case Studies*

## Curriculum Design Philosophy

Every week of this program is built around a single principle: the output matters more than the input. Participants do not passively absorb content - they produce something useful every week. By Week 6, those six outputs assemble into the AI Strategy Blueprint: a complete, board-ready, executable strategic document for their own organization.

Five real-world enterprise AI transformation scenarios run through all six weeks as persistent learning threads. Each is drawn from an actual deployment advised or led by Dr. Mahendra, presented anonymously to protect client confidentiality. Every concept taught in the program is anchored to at least one of these five organizations.

| Case Study | Industry · Focus · Framework Application |
|---|---|
| Case Alpha - National Railway Engineering & Manufacturing Enterprise | A large state-owned national railway operator undertaking a Cognitive Cyber-Physical AI transformation. Focus: predictive maintenance, infrastructure condition intelligence, and operational monitoring across a national rail network. Primary objective: reduce maintenance cost and improve operational reliability. Framework application: Systemic Bottleneck Identification, CPS Architecture, AI-PDLC, MLOps at the physical edge, safety-critical AI governance. |
| Case Beta - Satellite Telecommunications Operator | A national satellite infrastructure company transforming from a pure infrastructure provider into an intelligence services business. Focus: satellite telemetry intelligence, geospatial analytics, and network optimization. Primary objective: convert satellite data assets into new commercial intelligence products. Framework application: Enterprise Intelligence Recapitalization, AI Opportunity Portfolio, Geo-AI product engineering, data monetization strategy. |
| Case Gamma - Scientific Testing & Laboratory Services Company | A large testing, inspection, and certification laboratory seeking to use AI to improve throughput, quality reliability, and knowledge retention. Focus: laboratory workflow intelligence, data-driven quality assurance, and scientific knowledge management. Primary objective: improve productivity and reliability of laboratory operations at scale. Framework application: Bottleneck Identification, LLM-based knowledge assistants, RAGOps, AI Governance. |
| Case Delta - Private University & Research Institution | A private university deploying AI to enhance research output, academic knowledge management, and administrative efficiency. Focus: research intelligence systems, academic knowledge graph |

| | |
|---|---|
| | construction, and administrative process automation. Primary objective: increase institutional productivity and research impact. Framework application: Enterprise Intelligence Architecture, Agentic AI for knowledge retrieval, AI Operating Model design, change management for academic institutions. |
| Case Epsilon - State-Owned Securities & Investment Company (Southeast Asia) | A publicly listed state-owned securities and investment company building an enterprise agentic AI platform for financial advisory intelligence, equity research automation, and client portfolio decision support - operating under strict capital market regulatory authority oversight. Focus: LLM-powered investment research assistants, RAG-based regulatory knowledge systems, agentic workflow orchestration for trading operations, and compliance-grade AI audit trail architecture. Primary objective: improve analyst productivity, accelerate client advisory throughput, and operationalize AI within the constraints of capital market regulation. Framework application: Decision-Centric AI Design, 7-Layer Agentic Architecture, LLMOps, RAGOps, AI Governance Canvas, OJK regulatory compliance design. |

**Three Questions That Drive Every Week**

1. Where does this create measurable value for my business?
2. What does this require me to actually build, buy, or govern?
3. What would I say to my board about this on Monday morning?

## The Complete Transformation Model at a Glance

The diagram below shows the complete architecture of the AI-First Enterprise Transformation - the Five-Layer model, the eight-stage execution pipeline, and the six components of the Enterprise AI Transformation Blueprint that every participant produces. This is the intellectual backbone of the entire program.


Revenue Growth
Cost Reduction
Risk Mitigation
Reputation
FIVE-LAYER ENTERPRISE AI TRANSFORMATION MODEL
STRATEGY
DATA
ARCHITECTURE
OPERATIONAL
ORGANIZATIONAL TRANSFORMATION
AI TRANSFORMATION EXECUTION PIPELINE
1 SYSTEMIC BOTTLENECK IDENTIFICATION
Identify key organizational constraints
2 ENTERPRISE INTELLIGENCE RECAPITALIZATION
Convert assets into AI capabilities
3 ENTERPRISE AI OPPORTUNITY PORTFOLIO
Prioritize AI initiatives
4 VALUE PROOF (MVP / PoC)
Validate AI solutions
5 ENTERPRISE INTELLIGENCE ARCHITECTURE
Design data & AI infrastructure
6 AI SYSTEM ENGINEERING
Build AI systems
7 AI PRODUCTIONIZATION
Deploy & operate AI systems
8 GOVERNANCE & ORGANIZATIONAL TRANSFORMATION
Establish AI governance & culture
ENTERPRISE AI TRANSFORMATION BLUEPRINT
BOARD-READY STRATEGY DOCUMENT
Strategic Objectives
AI Opportunity Portfolio
Enterprise AI Architecture
AI System Engineering Plan
Operationalization Roadmap
Governance & Organization Model

**WEEK 1**

## Enterprise Value & Bottleneck Discovery

*Frameworks: Systemic Bottleneck Identification · Enterprise Intelligence Recapitalization*

**SESSION TOPICS**

- **AI Foundations for Decision-Makers**
  *Deep learning, LLMs, Computer Vision, Agentic AI, Decision Optimization - the minimum technical literacy required to lead AI strategy. Conceptual depth, no code.*
- **The 4 Business Goals of AI**
  *Every AI initiative must map to one of four enterprise value drivers: Revenue Growth, Cost Reduction, Risk Mitigation, or Reputation Enhancement. Participants learn to express AI strategy in the language of shareholders and boards.*
- **The AI-Native Enterprise Stack**
  *From the legacy Data → Reports → Decisions model to the AI-native Signals → Knowledge → Action architecture. Understanding why bolt-on AI fails and what enterprise transformation actually requires.*
- **Signature Framework 1: Systemic Bottleneck Identification**
  *Organizations identify the constraint consuming the greatest cognitive or operational capacity - the place where AI-enabled intelligence produces the highest business leverage. Outputs: Enterprise Strategic Bottleneck Definition. Illustrated through Case Alpha (railway maintenance) and Case Gamma (laboratory workflow congestion).*
- **Signature Framework 2: Enterprise Intelligence Recapitalization**
  *Converting enterprise assets - operational data, institutional knowledge, processes, machine signals, and customer interactions - into structured intelligence resources that AI systems can actually use. Outputs: Enterprise Intelligence Asset Map. Illustrated through Case Beta (satellite telemetry as intelligence product feedstock), Case Delta (academic research corpus), and Case Epsilon (securities firm converting transaction history, research reports, and regulatory filings into a structured knowledge layer for AI-powered advisory).*
- **AI Maturity Assessment Model**
  *A five-domain maturity audit across: data readiness, organizational capability, technology infrastructure, governance maturity, and leadership alignment. Produces a scored baseline and prioritized gap-analysis roadmap.*
- **The AI ROI Framework**
  *Quantifying AI value in board language: NPV, payback period, productivity multiplier, and risk-adjusted return - using real financial inputs, not benchmark estimates.*
- **Capstone Launch**
  *Participants apply Frameworks 1 and 2 to their own organization: mapping strategic bottlenecks and building their Enterprise Intelligence Asset Map.*

**WEEK OUTPUT**

*You will walk away with:*

- ✓ **Enterprise Strategic Bottleneck Definition**
- ✓ **Enterprise Intelligence Asset Map**
- ✓ **AI Maturity Self-Assessment (scored)**
- ✓ **AI Transformation Problem Statement**
- ✓ **Capstone Milestone 1: Organizational baseline**

**WEEK 2**

## AI Opportunity Discovery

*Framework: Enterprise AI Opportunity Portfolio*

**SESSION TOPICS**

- **Enterprise AI Solution Landscape**
  *The full map of AI solutions relevant to enterprise deployment: Predictive Analytics, Decision Intelligence, LLM-powered Enterprise Assistants, Computer Vision Monitoring, Agentic AI Platforms, Geo-AI, and Cognitive Cyber-Physical Systems - with real deployment economics and failure patterns for each.*
- **Signature Framework 3: Enterprise AI Opportunity Portfolio**
  *A systematic methodology for discovering and prioritizing AI initiatives across the enterprise. Each opportunity is evaluated across six dimensions: (1) Business Impact - quantified value against the 4 Goals; (2) Implementation Feasibility - technical and organizational complexity; (3) Data Readiness - availability, quality, and access cost; (4) Organizational Complexity - change management burden; (5) Time-to-Value - months to first measurable return; (6) Jevons Rebound Risk - the probability that AI-enabled efficiency gains trigger a proportional increase in demand, neutralizing or reversing projected savings. Output: Prioritized AI Opportunity Portfolio.*
- **The Jevons Paradox in Enterprise AI**
  *William Stanley Jevons (1865) showed that increasing coal efficiency caused total consumption to rise - because lower cost per unit drove higher demand. The same dynamic operates in enterprise AI. When AI reduces the cost of a cognitive task, organizations tend to consume more of that task, not bank the savings. Participants learn to identify high-rebound-risk use cases, design demand caps and consumption controls, and re-score their portfolio with Jevons-adjusted ROI projections. High-rebound initiatives are not necessarily abandoned - but they require different governance, different success metrics, and different infrastructure capacity planning from day one.*
- **AI Initiative Scoring Matrix**
  *The quantitative scoring tool that powers Framework 3: a six-dimension weighted decision matrix. Jevons Rebound Risk is a modifier that can suppress an otherwise high-scoring initiative if demand expansion risk is uncontrolled. Applied live in the session to participant organizations.*
- **The 5-Dimension Build vs. Buy Framework**
  *A structured decision model for every initiative: (1) Strategic differentiation value, (2) Data sensitivity and control requirements, (3) Proprietary process and knowledge encoding, (4) Total cost of ownership over 5 years, (5) Operational maturity to sustain the system.*
- **Data Availability & Feasibility Assessment**

**WEEK OUTPUT**

*You will walk away with:*

- ✓ **AI Initiative Portfolio (six-dimension scored portfolio)**
- ✓ **Opportunity Evaluation Matrix with Jevons Rebound Risk column**
- ✓ **Prioritized Top 3–5 Transformation Initiatives**
- ✓ **Build vs. Buy Decision Matrix per initiative**
- ✓ **Capstone Milestone 2: Investment-grade portfolio with rebound-adjusted ROI**

*Evaluating organizational data assets against each shortlisted initiative - do you have the data, is it accessible, and what will it cost to make it production-ready? Applied to Case Gamma (laboratory data quality audit) and Case Delta (research corpus assessment).*

- **Case Application: Case Alpha, Beta & Epsilon**

  *How a railway operator scored 14 candidate initiatives and selected 3 - including identifying a passenger-facing AI chatbot with high Jevons rebound risk and de-prioritizing it. How a satellite operator identified 6 Geo-AI product opportunities from proprietary telemetry. How a state-owned securities company identified an acute Jevons rebound risk in its AI advisory platform: AI-cheapened investment recommendations drove a projected 3× increase in client trade volume - amplifying commission revenue but simultaneously amplifying portfolio risk exposure, compliance review load, and settlement infrastructure demand in ways that required complete redesign of the platform's governance and capacity model.*

- **Capstone Milestone 2**

  *Participants complete their Enterprise AI Opportunity Portfolio including Jevons Rebound Risk scoring for each initiative.*

**WEEK 3**

## AI Value Validation & ROI Modelling

*Framework: Value Validation & ROI Modeling*

**SESSION TOPICS**

- **Signature Framework 4: Value Validation & ROI Modeling**

  *Before committing large investments, organizations validate that selected AI initiatives produce measurable business value. This framework combines financial ROI modelling with technical proof-of-value. Financial outputs: ROI projections, cost-benefit analysis, NPV and payback modelling, operational productivity gains. Technical outputs: minimal AI prototypes (MVP/PoC), data feasibility validation, integration feasibility assessment.*

- **The AI ROI Financial Model - Applied**

  *Participants build a working ROI model for their priority initiative using the program's Excel template: revenue impact, cost savings, productivity multiplier, payback period, NPV, and risk-adjusted return. The model includes a Jevons Rebound Adjustment layer - a scenario tool that stress-tests ROI projections under demand expansion assumptions, so the business case is defensible even if efficiency gains drive volume increases rather than cost savings.*

- **Proof-of-Value Design**

  *How to design minimal, low-cost experiments that validate AI feasibility before full investment: AI-assisted decision support prototypes, computer vision monitoring pilots, predictive*

**WEEK OUTPUT**

*You will walk away with:*

- ✓ **ROI Model for selected initiative (Excel)**
- ✓ **Proof-of-Value design document**
- ✓ **Technical feasibility assessment**
- ✓ **Value Validation Plan**
- ✓ **Capstone Milestone 3: Funded business case**

*analytics proof models, and enterprise knowledge assistants using RAG. The difference between a PoC that gets funded and one that gets shelved.*

- **Technical Feasibility Validation**
  *Data feasibility (do we have sufficient, clean, accessible data?), model feasibility (is the problem solvable with current AI?), and integration feasibility (can this connect to our enterprise systems at acceptable cost and risk?).*
- **Case Application: All Five Cases**
  *How Case Alpha validated predictive maintenance against 3 years of sensor history. How Case Beta designed a Geo-AI PoC from satellite telemetry. How Case Gamma evaluated an LLM-powered laboratory knowledge assistant. How Case Delta modelled ROI for a research intelligence system. How Case Epsilon built a Jevons-adjusted ROI model for an AI advisory platform - stress-testing three demand expansion scenarios before board presentation to the capital market authority.*
- **Capstone Milestone 3**
  *Participants complete their ROI model and proof-of-value design for their primary initiative - the financial foundation of the AI Strategy Blueprint.*

**WEEK 4**

## Enterprise AI Architecture

*Framework: Enterprise Intelligence Architecture · 8-Component Enterprise AI Design · Enterprise AI Stack Landscape*

**SESSION TOPICS**

- **Signature Framework 5: Enterprise Intelligence Architecture**
  *Designing the architecture that operationalizes intelligence across the enterprise. Key domains: (1) Enterprise Data Platforms - batch, streaming, data lake, lakehouse, data mesh; (2) Contextual Knowledge Layers - knowledge graphs, context graphs, semantic models, ontology design; (3) AI Service Orchestration - how AI models, APIs, and agents are composed; (4) Middleware and API Architecture - integration patterns for heterogeneous enterprise stacks; (5) For asset-heavy industries: AIoT, OT/IT convergence, and digital twin infrastructure.*
- **The 8-Component Enterprise AI Design Framework**
  *A practitioner framework for building enterprise AI systems around decisions - not tasks. Component 1: Define Enterprise Intent & Value (strategic objective, use domains, value metrics, operating constraints). Component 2: Decision-Centric AI Design - the core principle: AI should be designed around decision owners, decision types, human-in-the-loop rules, and risk boundaries, not around task automation. Component 3: Model & Architecture Strategy (model selection, context architecture, latency vs. accuracy tradeoffs, cost governance). Component 4: Enterprise Systems & Integrations (core system connections,*

**WEEK OUTPUT**

*You will walk away with:*

- ✓ **Enterprise AI Architecture Blueprint (8-component structure)**
- ✓ **Enterprise AI Stack Landscape Assessment**
- ✓ **Enterprise Intelligence Platform Design**
- ✓ **System Integration Strategy**
- ✓ **Vendor/Platform Evaluation Scorecard**
- ✓ **Capstone Milestone 4: Architecture decision record**

*data access layers, workflow execution, API and event-driven design). Component 5: Enterprise Memory & Knowledge (institutional knowledge capture, operational memory, structured intelligence, auditability requirements). Component 6: Orchestration & Control Layer (workflow orchestration, access control, error handling, multi-agent coordination). Component 7: Enterprise User Experience (embedded interfaces, role-based AI experiences, explainability surfaces, adoption design). Component 8: Governance, Security & Evaluation (model governance, security and compliance, performance monitoring, continuous improvement loops). Participants use this framework to stress-test any proposed enterprise AI system design.*

- **The Enterprise AI Stack Landscape**

  *A vendor-neutral map of the five categories of enterprise AI infrastructure: (1) Enterprise LLM Platforms - OpenAI, Anthropic, Google, Azure; cloud/hybrid deployment; best for knowledge work and executive decision support. (2) Orchestration & Agents - LangGraph, CrewAI, Google A2A; local/cloud; best for complex multi-step enterprise processes. (3) Data & Memory - vector databases and data warehouses; hybrid; best for institutional knowledge grounding. (4) Automation Layers - ERP/CRM APIs and iPaaS platforms; cloud; best for operational AI at scale. (5) Governance & Security - internal controls and IAM systems; enterprise deployment; best for regulated industries. Participants evaluate their organization against all five categories and identify gaps.*

- **The 7-Layer Agentic AI Architecture**

  *The definitive framework for enterprise agentic systems: Layer 1 Language Model (reasoning engine), Layer 2 Memory & Context (vector databases, session memory), Layer 3 Tooling (API connections, enterprise system integration), Layer 4 Orchestration (multi-agent workflows: CrewAI, LangGraph, Google ADK), Layer 5 Communication (A2A protocol, MCP), Layer 6 Infrastructure (deployment, CI/CD, observability), Layer 7 Evaluation (RAGAS, MLflow, hallucination tracking). Taught as a governance and evaluation framework for executives.*

- **Knowledge Graphs, Context Graphs & Enterprise Memory**

  *Ontology design, semantic enterprise models, entity relationship design - how to encode what the organization knows into a form AI can use reliably. Connects directly to Component 5 (Enterprise Memory & Knowledge) of the 8-Component Design Framework.*

- **Legacy System Integration**

  *Connecting AI to SAP, Oracle, Salesforce, and OT/SCADA systems - middleware patterns, API gateway design, event-driven integration, and the technical debt management strategies that make enterprise AI actually work at scale.*

- **Vendor & Platform Evaluation Framework**

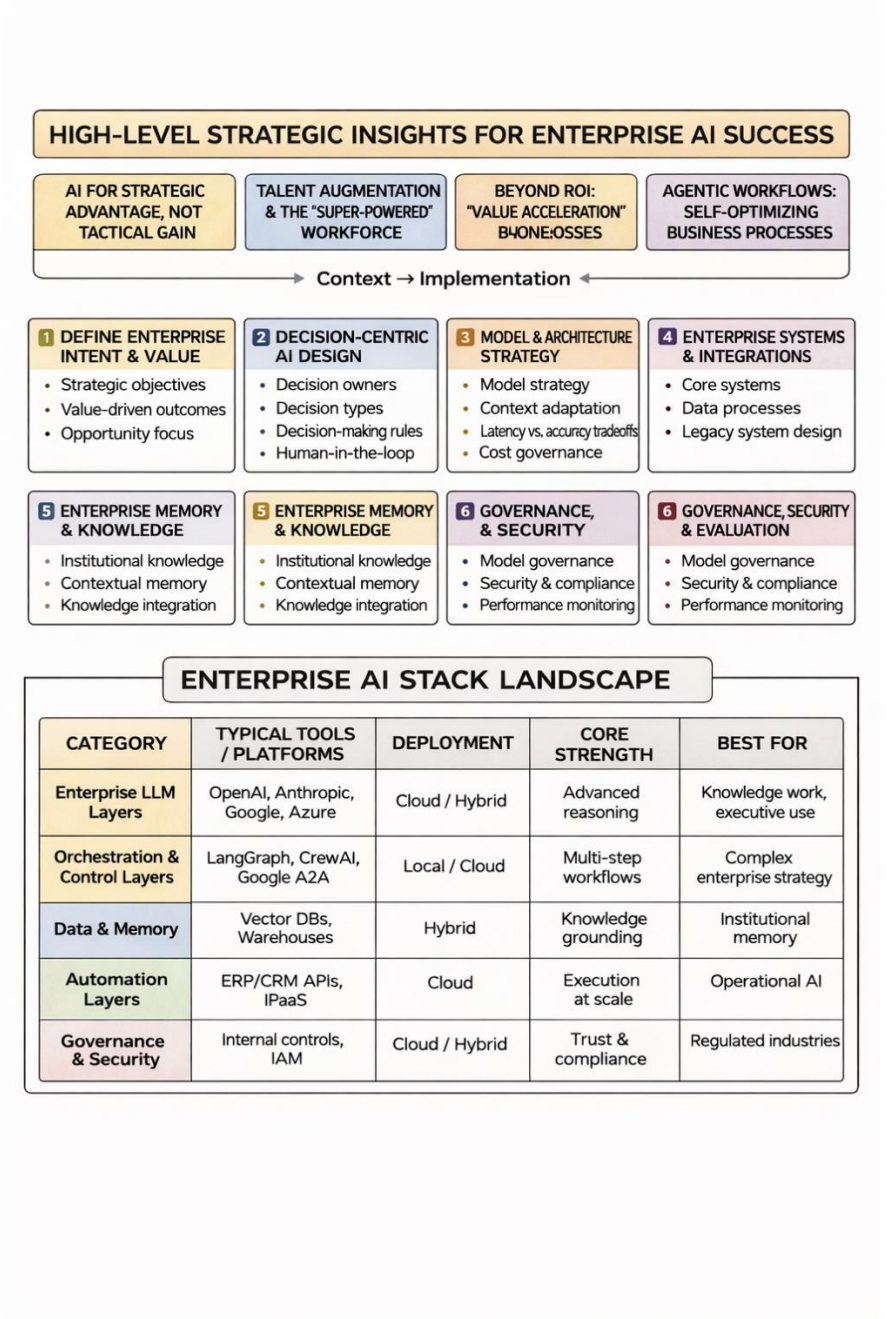
  *How to evaluate AI infrastructure vendors, cloud platforms, and AI software solutions against the Enterprise AI Stack Landscape - with a structured scorecard and the questions vendors hope you never ask.*

- **Case Application: Case Alpha, Beta & Epsilon**

*CPS architecture for national rail: from sensor network to edge inference to digital twin to operations dashboard - all 8 design components mapped. Geo-AI platform architecture for a satellite operator: telemetry pipelines to intelligence products. Complete agentic AI architecture for a regulated securities company (Case Epsilon): 7-layer architecture applied in full - LLM selection for financial reasoning, vector knowledge store from 10 years of equity research reports, tooling layer connecting to trading systems, LangGraph orchestration for multi-step advisory workflows, A2A communication between specialist sub-agents, OJK-compliant audit trail infrastructure, and RAGAS-powered evaluation for financial accuracy and hallucination control.*

- **Capstone Milestone 4**

  *Participants produce their Enterprise AI Architecture Blueprint using the 8-Component Design Framework as the organizing structure.*




## ENTERPRISE AI STACK LANDSCAPE

| CATEGORY | TYPICAL TOOLS / PLATFORMS | DEPLOYMENT | CORE STRENGTH | BEST FOR |
|---|---|---|---|---|
| Enterprise LLM Layers | OpenAI, Anthropic, Google, Azure | Cloud / Hybrid | Advanced reasoning | Knowledge work, executive use |
| Orchestration & Control Layers | LangGraph, CrewAI, Google A2A | Local / Cloud | Multi-step workflows | Complex enterprise strategy |
| Data & Memory | Vector DBs, Warehouses | Hybrid | Knowledge grounding | Institutional memory |
| Automation Layers | ERP/CRM APIs, IPaaS | Cloud | Execution at scale | Operational AI |
| Governance & Security | Internal controls, IAM | Cloud / Hybrid | Trust & compliance | Regulated industries |

*The 8-Component Enterprise AI Design Framework & Stack Landscape - a practitioner reference taught in Week 4*

WEEK 5

## AI System Engineering & Operationalization

*Frameworks: AI System Engineering · AI Productionization*

### SESSION TOPICS

- **Signature Framework 6: AI System Engineering**
  *Translating architecture into real AI systems capable of solving enterprise problems. System categories covered: (1) Predictive Analytics Systems - forecasting, anomaly detection, demand prediction; (2) Decision Intelligence Platforms - automated decision engines with explainability; (3) Enterprise Knowledge Assistants - LLM and SLM-based systems for institutional knowledge retrieval; (4) Computer Vision Inspection Systems - quality control, safety monitoring, infrastructure surveillance; (5) Operational Monitoring Systems - continuous intelligence over processes and assets. Output: AI System Engineering Plan.*
- **AI Product Development Lifecycle (AI-PDLC)**
  *How AI product development differs fundamentally from traditional software: data-centric, experimental, non-linear. The governance checkpoints and go/no-go criteria at each phase. What goes wrong when traditional project management is applied to AI.*
- **ML, LLM & Agentic Engineering for Executives**
  *Feature engineering, model training, evaluation metrics, fine-tuning, RAG system design - at the level of oversight, evaluation, and commissioning. What to measure, what to question, and what a bad engineering answer sounds like.*
- **Computer Vision, AIoT & Cognitive CPS Engineering**
  *Camera networks, edge inference, industrial IoT integration, OT/IT convergence - the engineering principles behind AI systems that interact with the physical world. Illustrated through Case Alpha's railway CPS deployment.*
- **Signature Framework 7: AI Productionization**
  *Converting AI from experiments into operational enterprise capability: (1) Model Deployment Pipelines - MLOps, automated retraining, model registry; (2) LLMOps - prompt versioning, inference cost management, model observability; (3) RAGOps - knowledge base lifecycle management, retrieval quality monitoring; (4) Operational Monitoring - drift detection, performance degradation, incident response; (5) Infrastructure Planning - edge vs. cloud vs. hybrid, GPU provisioning, AI data center design. Output: Operational AI Deployment Framework.*
- **The Operationalization Gap**
  *Why 85% of enterprise AI projects fail to reach production - the specific technical, organizational, and governance decisions that separate the deployments that work from the ones that die in the pilot stage.*
- **Case Application: Cases Alpha, Beta, Gamma & Epsilon**
  *Railway edge MLOps and digital twin operationalization (Case Alpha). Satellite Geo-AI product pipeline management (Case Beta). Laboratory LLM knowledge assistant production*

### WEEK OUTPUT

*You will walk away with:*

- ✓ **AI System Engineering Roadmap**
- ✓ **Operational AI Deployment Framework**
- ✓ **MLOps/LLMOps Infrastructure Plan**
- ✓ **Infrastructure Decision Matrix**
- ✓ **Model Monitoring & Governance Approach**
- ✓ **Capstone Milestone 5: Engineering and operations plan**

*deployment (Case Gamma). Case Epsilon as the deep LLMOps/RAGOps anchor: the complete operational architecture of an agentic financial platform inside a regulated securities company - inference security design under capital market authority rules, complete audit trail for every AI-generated investment recommendation, model versioning for regulatory review, prompt versioning and cost governance across 3 specialist LLM sub-agents, knowledge base lifecycle management for 10 years of equity research content, and the retrieval quality monitoring system that prevented AI hallucinations from appearing in client-facing financial advice.*

- **Capstone Milestone 5**

  *Participants complete their AI System Engineering Roadmap and Operational Deployment Framework for their primary initiative.*

**WEEK 6**

## Governance & Enterprise Transformation

*Framework: Governance & Organizational Transformation · Capstone Presentations: Saturday 6 June 2026*

**SESSION TOPICS**

- **Signature Framework 8: Governance & Organizational Transformation**

  *Implementing governance structures and organizational operating models that ensure AI adoption is responsible, compliant, and sustainable. Key elements: (1) AI Governance Policies - decision rights, acceptable use, model approval processes; (2) Risk Management Frameworks - model risk, operational risk, reputational risk, regulatory risk; (3) Regulatory Compliance Structures - India DPDP/SEBI, Indonesia BSSN/OJK, Singapore MAS/PDPA, UAE NDMO, KSA SDAIA; (4) AI Operating Model - how the enterprise organizes, staffs, and runs AI as a permanent capability; (5) AI Team Structures - platform AI teams, product AI teams, enabling teams, AI CoE design; (6) Talent Development - hiring, growing, and retaining AI talent in resource-constrained markets. Output: Enterprise AI Governance and Transformation Plan.*

- **AI Governance Canvas**

  *A structured framework across five governance domains: Policy (what must be governed), Controls (how it is governed), Accountability (who is responsible), Regulatory Mapping (which laws apply by market), and Incident Response (what happens when AI fails or is misused).*

- **AI Risk Management**

  *The enterprise AI risk register - model risk, operational risk, reputational risk, and regulatory risk - with mitigation strategies, risk appetite frameworks, and escalation protocols for each category.*

- **Responsible AI in Practice**

**WEEK OUTPUT**

*You will walk away with:*

- ✓ **AI Governance Framework document**
- ✓ **AI Operating Model**
- ✓ **AI Team Design & Organization Blueprint**
- ✓ **Regulatory Compliance Checklist (by market)**
- ✓ **90-Day Execution Roadmap**
- ✓ **Complete AI Strategy Blueprint (board-ready)**
- ✓ **CEAS - Certified Enterprise AI Strategist credential**

*Bias, fairness, explainability, and transparency for AI systems in finance, healthcare, infrastructure, and government - how to design AI responsibly without killing deployment velocity.*

- **AI Team Design & Organization**
  *Team Topologies applied to AI: how to structure AI teams that actually ship production systems. Common failure modes of AI CoEs and why most of them stall within 18 months.*
- **The 90-Day AI Execution Playbook**
  *From blueprint to first deployed system in 90 days: Days 1–30 (mobilise - team, data, infrastructure), Days 31–60 (build - model development, integration, testing), Days 61–90 (deploy - staged rollout, monitoring, board communication).*
- **Case Application: All Five Cases**
  *Safety-critical AI governance for a national railway system (Case Alpha). Academic AI governance for a research institution (Case Delta). AI operating model design for a laboratory services company (Case Gamma). Case Epsilon as the primary regulatory compliance anchor: the complete AI governance architecture for a state-owned securities company operating under Indonesia's OJK capital market authority - model risk management framework, AI decision audit trail for regulatory inspection, explainability requirements for AI-generated investment recommendations, model approval process aligned with OJK expectations, and the AI CoE structure required to sustain compliant AI operations inside a publicly listed financial institution.*
- **Capstone: Peer Review (Week 6 self-paced)**
  *Structured peer review of each participant's complete AI Strategy Blueprint before the presentation session.*
- **Capstone Final Presentations - Saturday 6 June 2026**
  *Each participant presents their complete, board-ready AI Strategy Blueprint to the full cohort and Dr. Mahendra. Structured feedback. CEAS credential awarded.*

## The Capstone: AI Strategy Blueprint

The capstone is the program's defining output. It is not a final exam. It is not a slide deck about AI in general. It is a complete, board-ready AI strategy document for the participant's own organization - built progressively over six weeks from real organizational data, real constraints, and real strategic objectives. The five anchor case studies serve as reference models: at each milestone, participants can compare their design decisions against those made in real deployments across railway infrastructure, satellite operations, laboratory services, academic institutions, and regulated financial markets.

| Blueprint Component | Content & Source Week |
|---|---|
| Component 1 (Week 1) | Enterprise Strategic Bottleneck Definition + Enterprise Intelligence Asset Map - the organizational baseline and the AI raw materials inventory. |
| Component 2 (Week 2) | Enterprise AI Opportunity Portfolio - the prioritized AI initiative shortlist with scored evaluation across impact, feasibility, data readiness, and time-to-value. |
| Component 3 (Week 3) | Validated AI Value Case - the ROI model, proof-of-value design, and technical feasibility assessment for the primary initiative. |
| Component 4 (Week 4) | Enterprise AI Architecture Blueprint - the architecture design for the primary initiative covering data, AI services, integration, and knowledge layer design. |
| Component 5 (Week 5) | AI System Engineering Roadmap + Operational Deployment Framework - the engineering plan and MLOps/LLMOps operationalization model. |
| Component 6 (Week 6) | Enterprise AI Governance and Transformation Plan - governance framework, regulatory compliance map, AI operating model, team design, and 90-day execution playbook. |

## The 8 Signature Transformation Frameworks

These eight frameworks form the execution pipeline of the AI-First Enterprise Transformation. They are the unique intellectual property of this program - derived from real deployments, tested in production environments, and designed to be immediately applicable to any enterprise. Each is delivered as an editable template in the Template Framework Library.

| Signature Framework | Week | Description & Output |
|---|---|---|
| Framework 1: Systemic Bottleneck Identification | Week 1 | Identifies the constraint consuming the greatest cognitive or operational capacity across the enterprise - the place where AI-enabled intelligence produces the highest leverage. Output: Enterprise Strategic Bottleneck Definition. |
| Framework 2: Enterprise Intelligence Recapitalization | Week 1 | Converts enterprise assets - data, institutional knowledge, processes, machine signals, and customer interactions - into structured intelligence resources that AI can use. Output: Enterprise Intelligence Asset Map. |
| Framework 3: Enterprise AI Opportunity Portfolio | Week 2 | Systematically discovers and prioritizes AI initiatives across the enterprise using a six-dimension scoring matrix: business impact, feasibility, data readiness, organizational complexity, time-to-value, |

| | | |
|---|---|---|
| | | and Jevons Rebound Risk. Output: Prioritized AI Opportunity Portfolio with rebound-adjusted ROI. |
| Framework 4: Value Validation & ROI Modeling | Week 3 | Validates AI initiatives through financial ROI modelling (NPV, payback, productivity multiplier) and technical proof-of-value (MVP/PoC design, data and integration feasibility). Output: Validated AI Value Case. |
| Framework 5: Enterprise Intelligence Architecture | Week 4 | Designs the architecture that operationalizes intelligence across the enterprise: data platforms, knowledge layers, AI service orchestration, middleware, and (for industrial organizations) AIoT and digital twin infrastructure. Output: Enterprise AI Architecture Blueprint. |
| Framework 6: AI System Engineering | Week 5 | Translates architecture into real AI systems: predictive analytics, decision intelligence platforms, LLM-based enterprise assistants, computer vision inspection, operational monitoring, and Cognitive CPS. Output: AI System Engineering Plan. |
| Framework 7: AI Productionization | Week 5 | Converts AI from experiments into operational capability: MLOps pipelines, LLMOps, RAGOps, model monitoring, infrastructure planning, and edge/hybrid deployment. Output: Operational AI Deployment Framework. |
| Framework 8: Governance & Organizational Transformation | Week 6 | Implements governance structures and organizational models for sustainable AI: governance policies, risk management, regulatory compliance, AI operating model, team design, and talent development. Output: Enterprise AI Governance and Transformation Plan. |

## Supporting Technical Frameworks

| Supporting Framework | Week | Description |
|---|---|---|
| AI Maturity Assessment Model | Week 1 | Five-domain maturity audit across data readiness, organizational capability, technology infrastructure, governance maturity, and leadership alignment. Produces a scored baseline and gap-analysis roadmap. |
| AI ROI Financial Model | Week 1 & 3 | Working Excel model: NPV, payback period, productivity multiplier, risk-adjusted return. Built from actual deployment financials. Board-ready format. |
| 5-Dimension Build vs. Buy Framework | Week 2 | Scores every initiative across strategic differentiation, data sensitivity, proprietary knowledge encoding, 5-year TCO, and operational maturity. Produces a justified recommendation per initiative. |
| AI Initiative Scoring Matrix | Week 2 | Six-dimension weighted decision matrix: impact × feasibility × data readiness × time-to-value × organizational complexity × Jevons Rebound Risk. The rebound risk dimension acts as a modifier that can suppress high-scoring initiatives where demand expansion risk is |

| | | |
|---|---|---|
| | | uncontrolled. Converts a long opportunity list into a ranked, rebound-adjusted investment shortlist. |
| Jevons Rebound Risk Assessment | Week 2 & 3 | A structured evaluation of the probability that AI-enabled efficiency gains will trigger proportional demand increases, neutralizing projected savings. Applied as a sixth scoring dimension in the Opportunity Portfolio and as a scenario stress-test layer in the AI ROI Financial Model. Includes demand cap design and consumption governance patterns for high-rebound initiatives. |
| 7-Layer Agentic AI Architecture | Week 4 | The definitive framework for enterprise agentic systems: (1) Language Model, (2) Memory & Context, (3) Tooling, (4) Orchestration, (5) Communication, (6) Infrastructure, (7) Evaluation. Executive framework for governing, commissioning, and evaluating agentic deployments. |
| 8-Component Enterprise AI Design Framework | Week 4 | A decision-centric design framework for building enterprise AI systems: (1) Enterprise Intent & Value, (2) Decision-Centric AI Design, (3) Model & Architecture Strategy, (4) Enterprise Systems & Integrations, (5) Enterprise Memory & Knowledge, (6) Orchestration & Control Layer, (7) Enterprise User Experience, (8) Governance, Security & Evaluation. Used to evaluate completeness and soundness of any proposed AI system design. |
| Enterprise AI Stack Landscape | Week 4 | A vendor-neutral evaluation map across five infrastructure categories: Enterprise LLM Platforms, Orchestration & Agents, Data & Memory, Automation Layers, and Governance & Security - each assessed for deployment model, core strength, and organizational fit. |
| Cognitive CPS Architecture Framework | Week 4 & 5 | Five-layer CPS architecture: Physical Asset Layer → Edge Computing Layer → OT/IT Connectivity Layer → Digital Twin Layer → AI Intelligence & Action Layer. |
| MLOps Maturity Ladder | Week 5 | Five-level capability model from manual deployment (Level 0) to self-healing, governed AI pipelines (Level 4). Prioritizes MLOps investment by current organizational state. |
| AI Governance Canvas | Week 6 | Five-domain governance design: Policy Domains, Control Mechanisms, Accountability Structures, Regulatory Mapping, and Incident Response Design. |
| 90-Day AI Execution Playbook | Week 6 | Phased execution plan: Days 1–30 (mobilise), Days 31–60 (build), Days 61–90 (deploy). Milestone structure, risk register, and board reporting template included. |

## Who Will You Be After Six Weeks?

You will be the person in the room who understands what AI can actually do for your organization - and has a plan, a blueprint, and the vocabulary to make it happen. You will be the leader who

presents a credible, financially grounded AI strategy to your board instead of waiting for a consultant to produce one. You will be the executive who turns AI from a cost centre and a buzzword into a measurable driver of business value.

***That is what this program is for.***