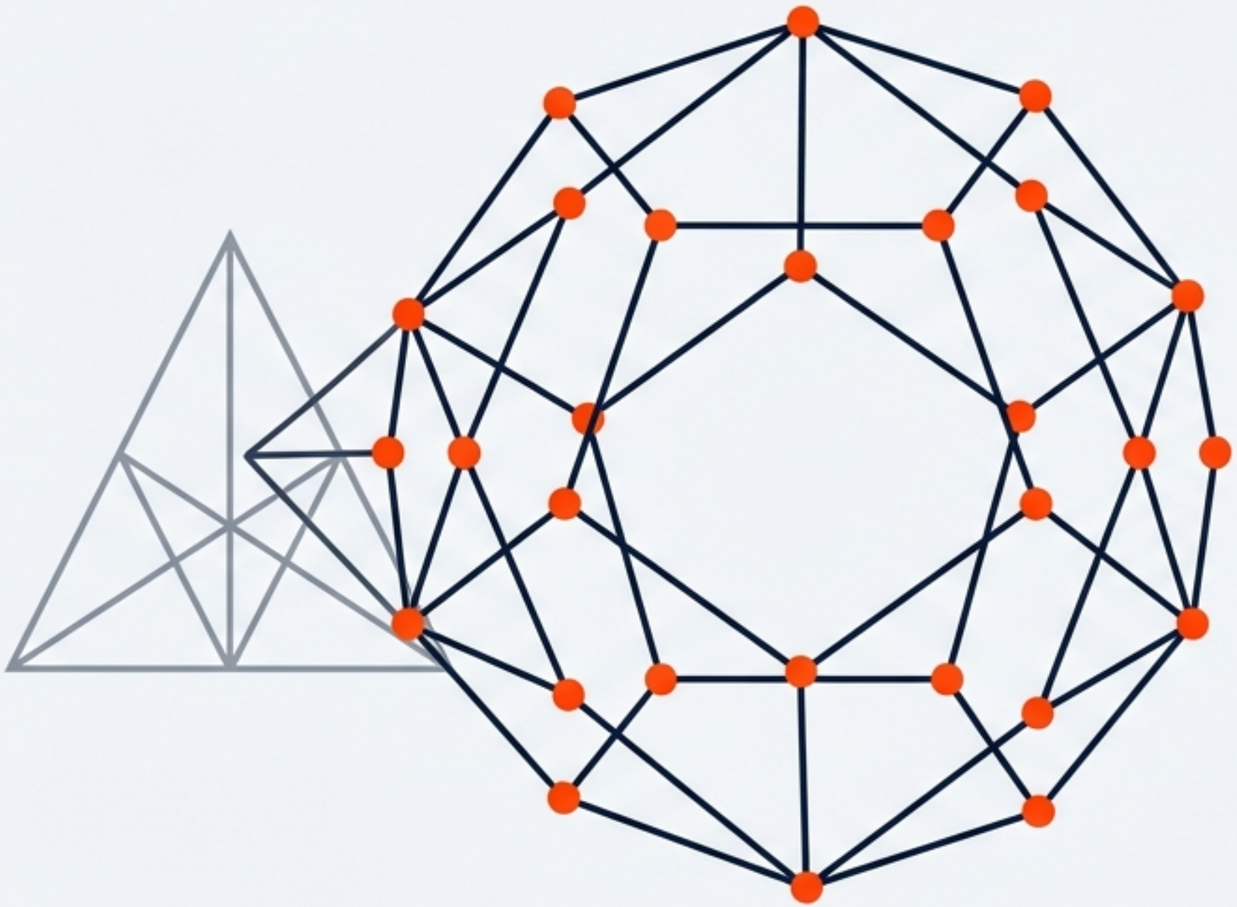

DIGITAL LITERACY COUNCIL &
DATA SCIENTIST SOCIETY UPDATE

Redefining the Data Scientist

Reskilling Strategy for the Era of Generative AI

Based on Di-Lite Lunchtime Talk #10
Featuring MR. SAEKI, Secretary General of the DSS
2025 Strategic Framework

The State of the Union

Merriweather
Source Context & Authority

The Announcement

The Data Scientist Society (DSS), in collaboration with the Digital Literacy Council (Di-Lite), has officially overhauled the definition of a "Data Scientist" for the first time since the inception of the industry-standard "3 Circles" model.

The Goal

To align professional standards with the reality of Generative AI. The focus shifts from "Model Accuracy" to tangible "Business Transformation" (DX).

The Ecosystem Impact

These new standards directly influence the "DX Passport" certification, integrating the IT Passport (IPA), G-Kentei (JDLA), and DS Kentei exams.

The Catalyst: Why Automation Demands a New Definition

The Data Value Chain

Issue Definition & Strategy
Merriweather
Human-Centric Value

Coding, Modeling, Analysis
Rapidly Automating via GenAI

Meaning Creation & Governance
Merriweather
Human-Centric Value

The Tool Shift

Generative AI has dramatically lowered the barrier for code generation and data analysis, commoditizing technical execution.

The Value Shift

Accuracy is no longer the sole differentiator. The focus has moved from “High-Accuracy Models” to “High-Impact Business Transformation”.

The Risk: PoC Fatigue

Professionals focusing solely on the automating middle layer face obsolescence and projects that fail to deliver ROI.

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From Three Circles to Five Strategic Areas

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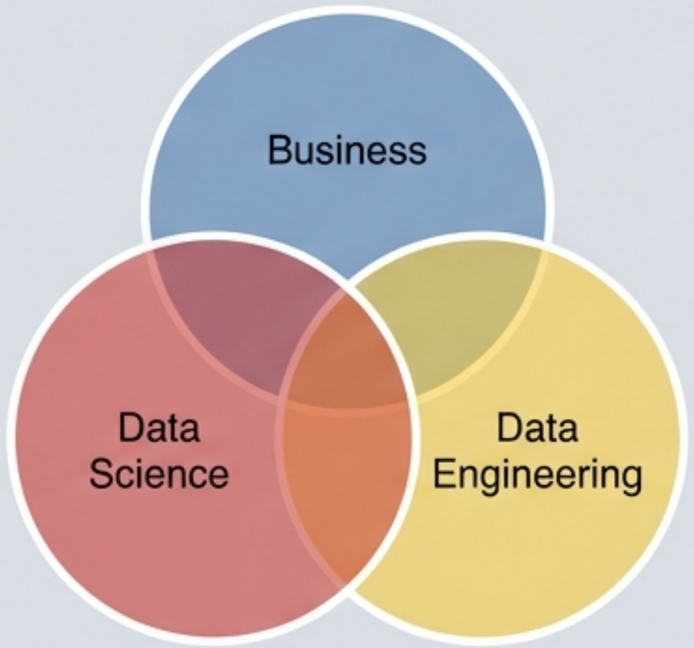
The Old Model (Classic)



Obsolete Structure

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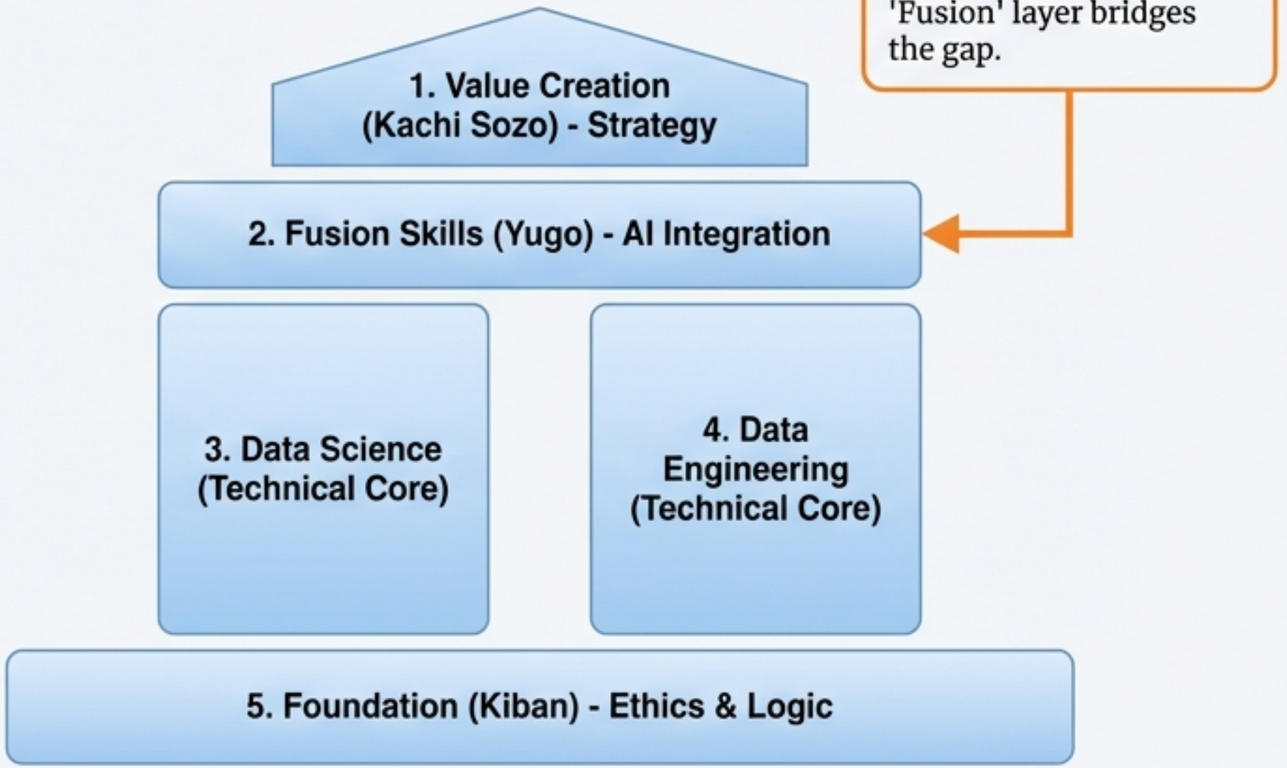
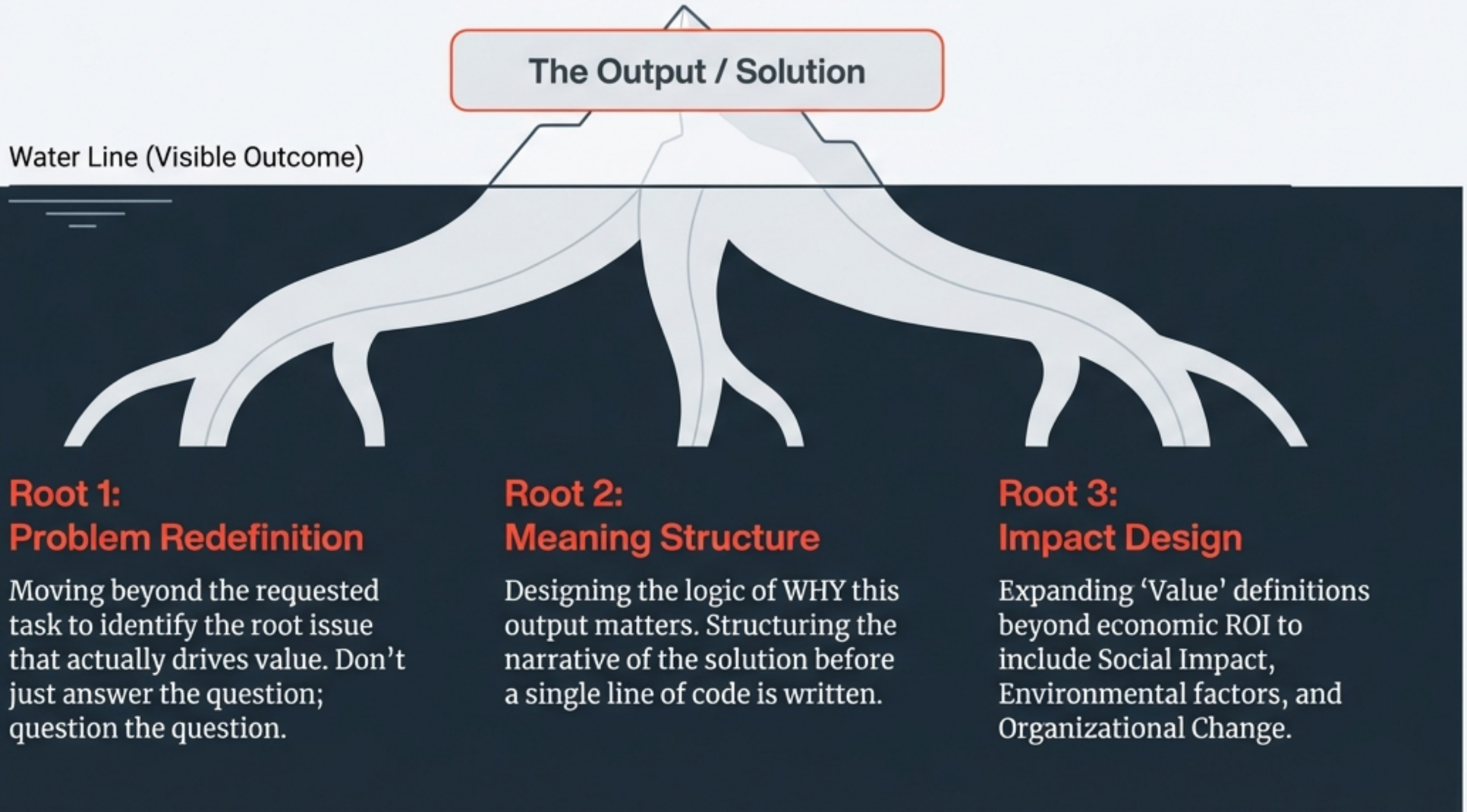
The New Model (2025 Standard)



Deep Dive: From “Business Power” to ‘Value Creation”

Moving from passive understanding to active strategic leadership.



Root 1: Problem Redefinition

Moving beyond the requested task to identify the root issue that actually drives value. Don’t just answer the question; question the question.

Root 2: Meaning Structure

Designing the logic of WHY this output matters. Structuring the narrative of the solution before a single line of code is written.

Root 3: Impact Design

Expanding ‘Value’ definitions beyond economic ROI to include Social Impact, Environmental factors, and Organizational Change.

The Shift:

Old: Understand the Business Context.

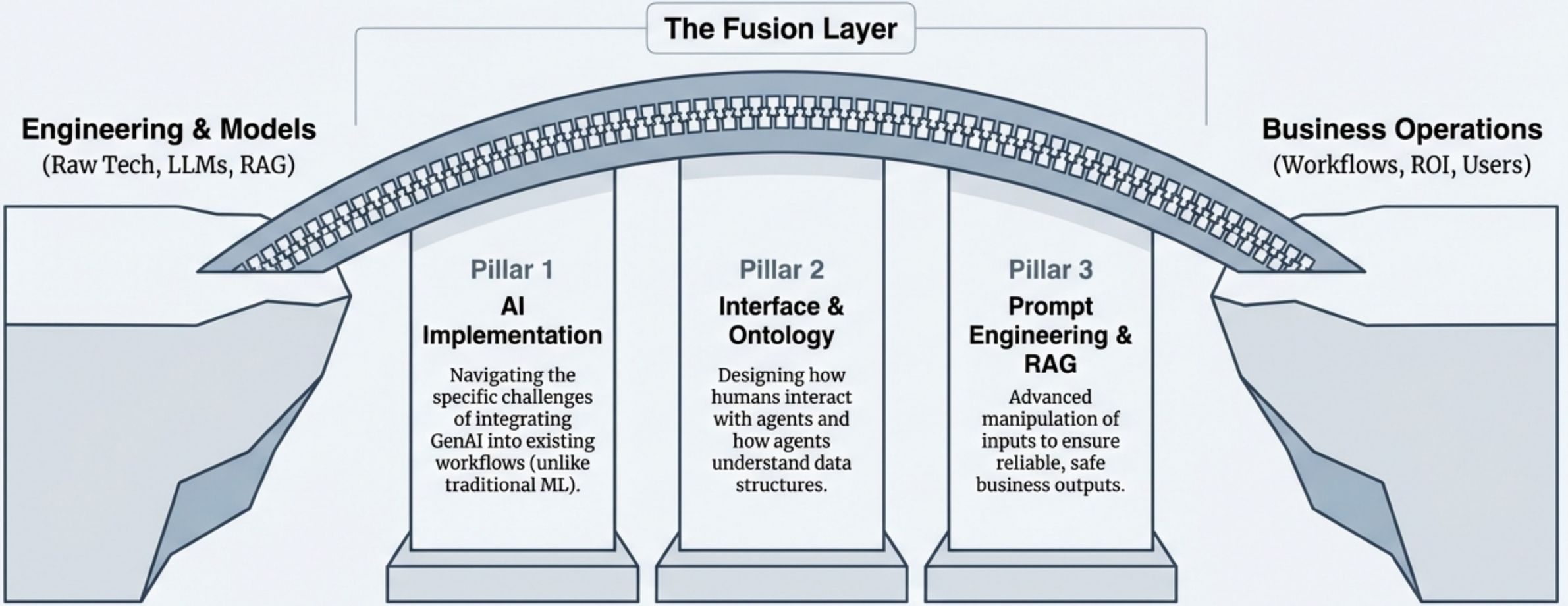
Moving beyond the requested task to identify the root issue that actually drives value. Don't just answer the question; question.

New: Define the Business Strategy.

Expanding 'Value' definitions beyond economic ROI to include Social Impact, Environmental factors, and Organizational Change.

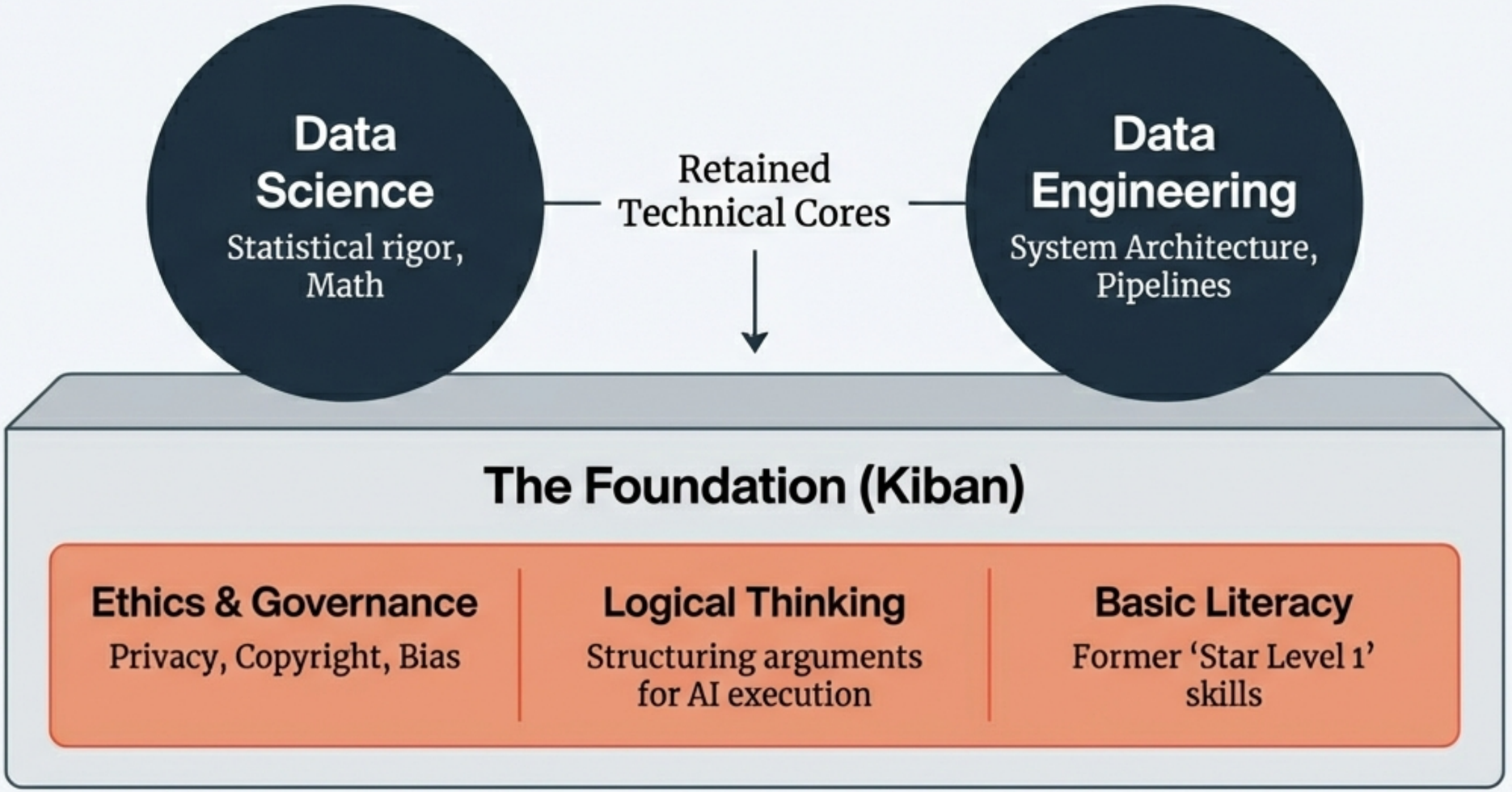
Deep Dive: The Emergence of ‘Fusion Skills’

The critical bridge between Engineering (LLMs) and Business Implementation.



Insight: Pure Engineers and pure Business leaders cannot meet in the middle without this specific translation layer.

The Technical Core & The Ethical Foundation

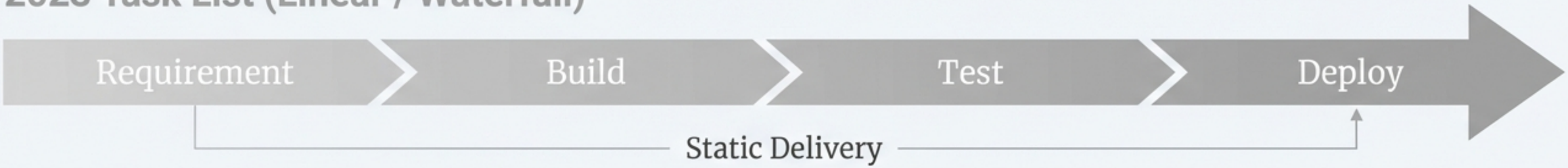


The Baseline has Raised.

Technical prowess must now sit on a bedrock of ethics and basic logic. Without this foundation, deployment is unsafe.

The Process Shift: From Linear to Circular

2023 Task List (Linear / Waterfall)



2025 AI Utilization Task List (Circular / Spiral)

We are no longer just building models; we are managing a continuous lifecycle of Value Creation.

Case Study: The AI Interviewer Project

When “Accuracy” is actually “Failure”.

Strategic Goal: Increase Female Management Representation (3-Year Plan).

Board Room

Warning

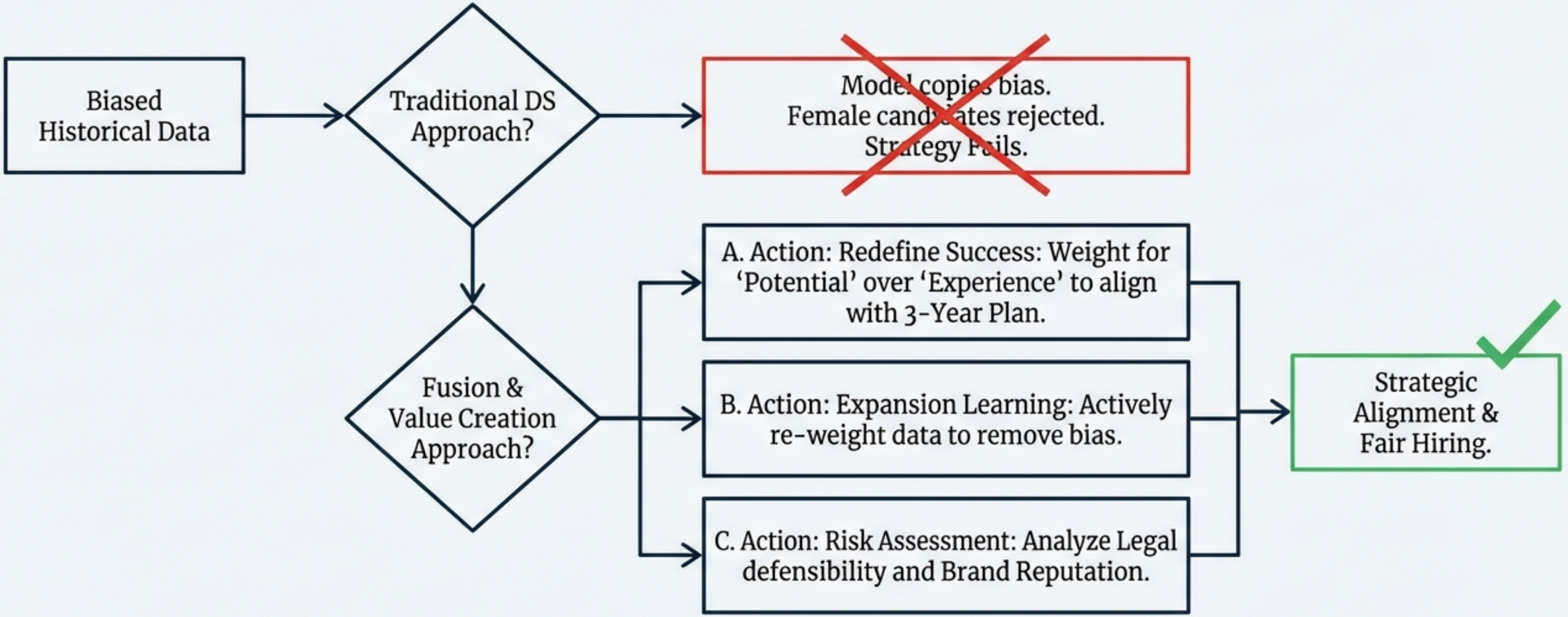
Request: Build an AI Interviewer using historical hiring data.

Data Scientist

The Conflict:

- Historical data favors men due to past biases.
- A traditional model trained for ‘accuracy’ on past data will reject female candidates.
- Result: The AI actively works *against* the company strategy.

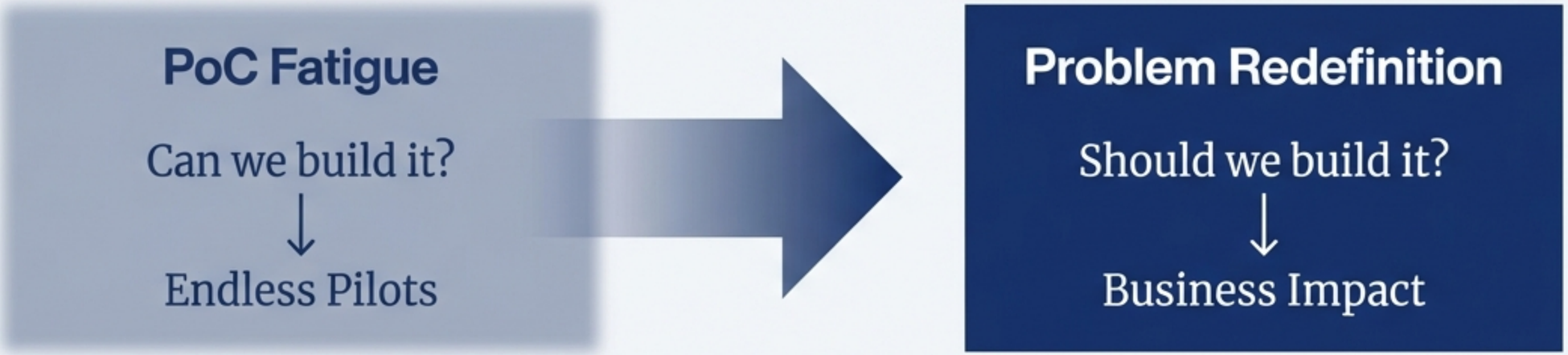
Why Code Alone Fails: The ‘Fusion’ Necessity



The Data Scientist is the only role positioned to see both the technical bias and the strategic risk.

Reskilling Challenge #1: Mastering "Value Definition"

ACTION REQUIRED



- Escaping the Trap: Moving beyond technical execution to question the stakeholder's request. (e.g., Don't just build a chatbot; solve the service bottleneck).
- Meaning Design: Structuring the output so it directly impacts key business KPIs.
- **Key Insight:** Model construction is automating. Meaning construction is the new human value.

ACTION REQUIRED

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Reskilling Challenge #2: Designing Governance & Guardrails

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Risk Anticipation

Predicting hallucinations, bias, and data leakage before they happen.

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Social Impact Design

Evaluating how the system affects users and society (e.g., Fairness in hiring).

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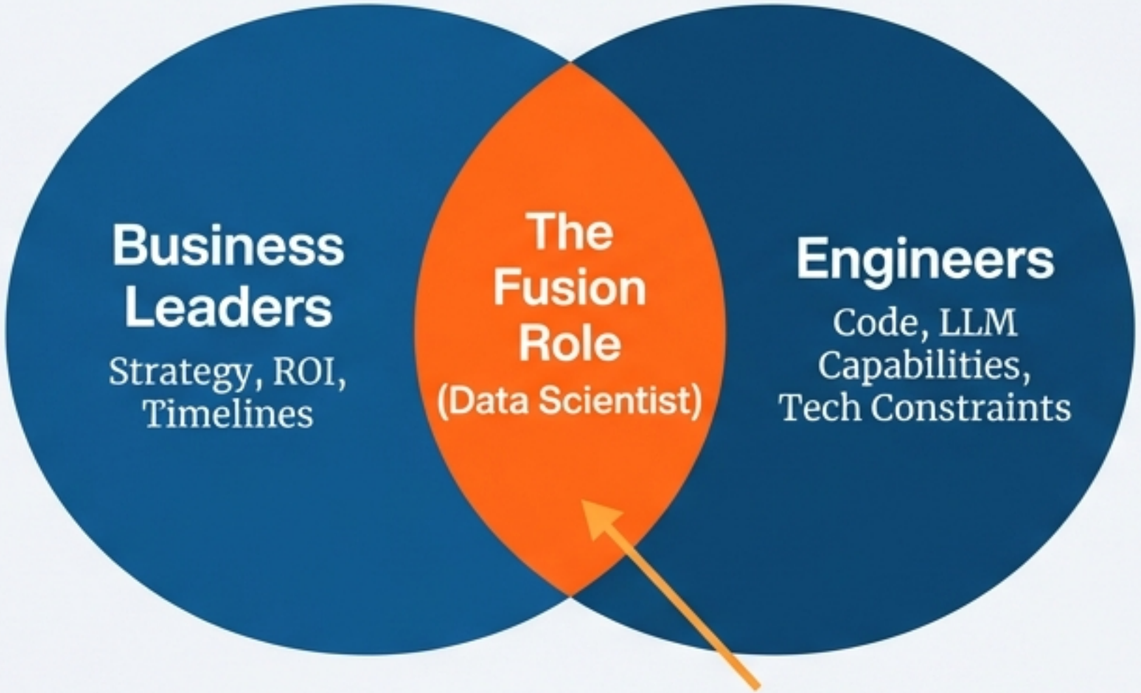
Technical Implementation

Building architectural constraints into the system to enforce company policy.

Reskilling Challenge #3: The ‘Fusion’ Translator Role

ACTION REQUIRED

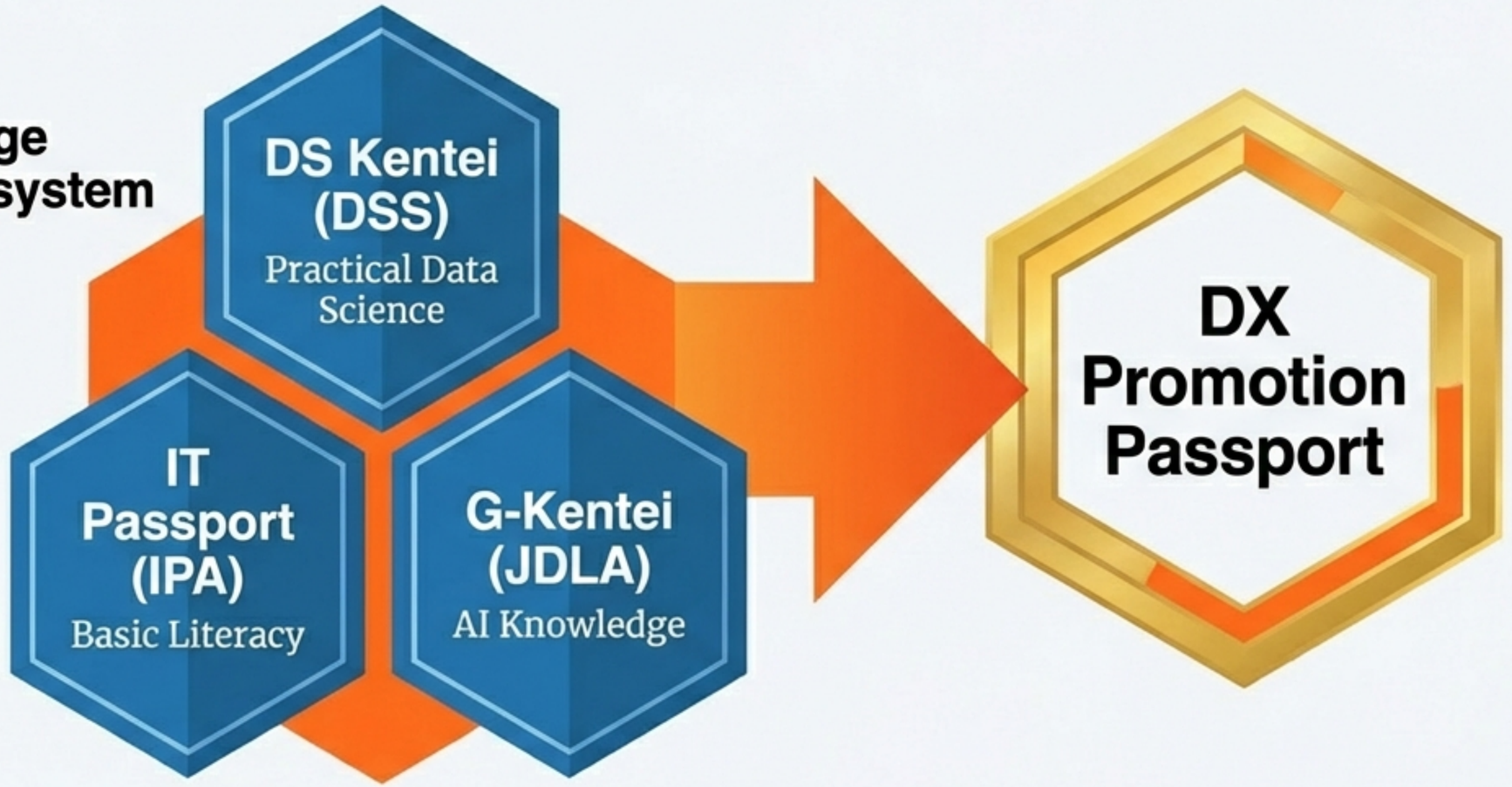


The Translator who speaks both languages.

- Saying “NO” to technically feasible but strategically dangerous ideas.
- Saying “YES” to complex implementations that drive real value.
- Translating “Business Intent” into “Prompt Engineering”.

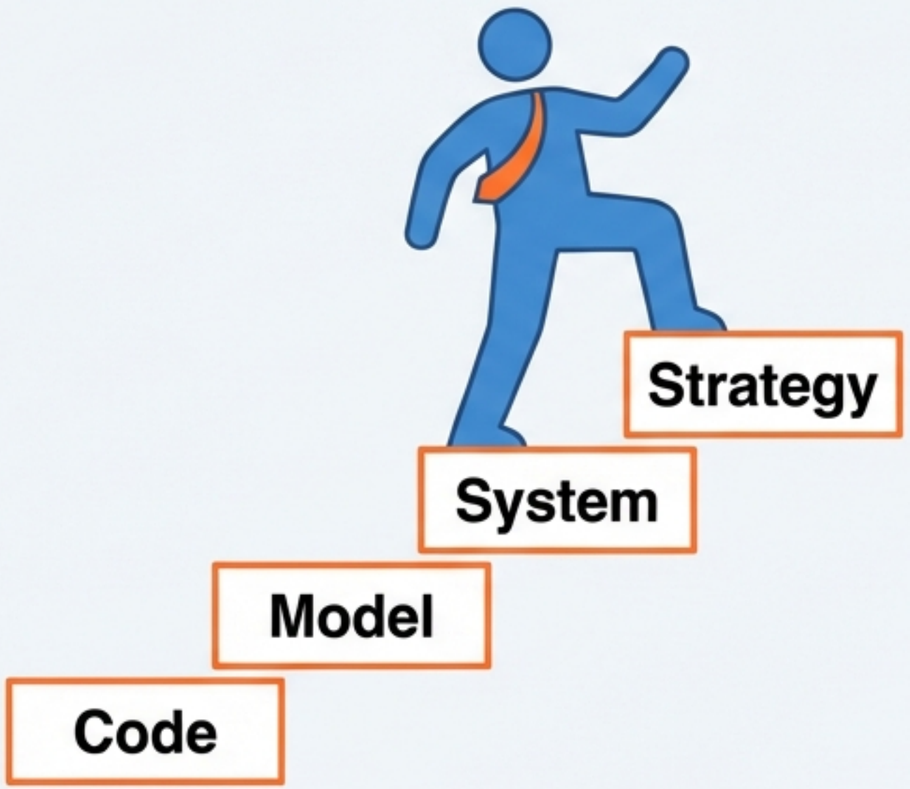
Certifying the New Skill Set: The DX Passport

Badge Ecosystem



A unified credential signaling holistic competence in the new 5-Area Model.

The Data Scientist is Not Disappearing—They Are Elevating



1

Embrace Fusion

Become the bridge between Generative AI and Society.

2

Prioritize Value

Shift focus from model accuracy to problem definition.

3

Architect Intelligence

Move from building tools to designing business intelligence.

Merriweather" Regular
For the full "2025 Task List" and detailed definitions, visit the Data Scientist Society website.
Presentation generated based on Di-Lite / DSS Resources.