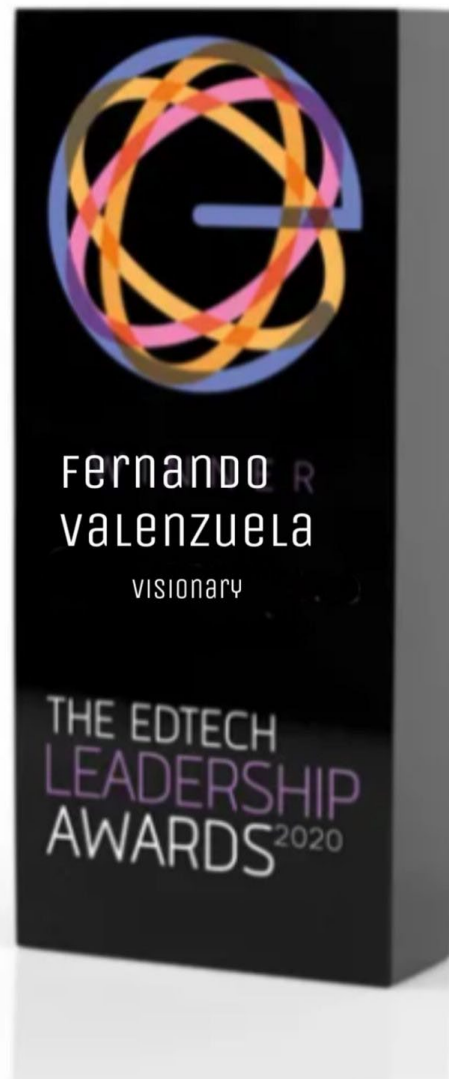




Fernando Valenzuela
EDLATAM



LEADERSHIP

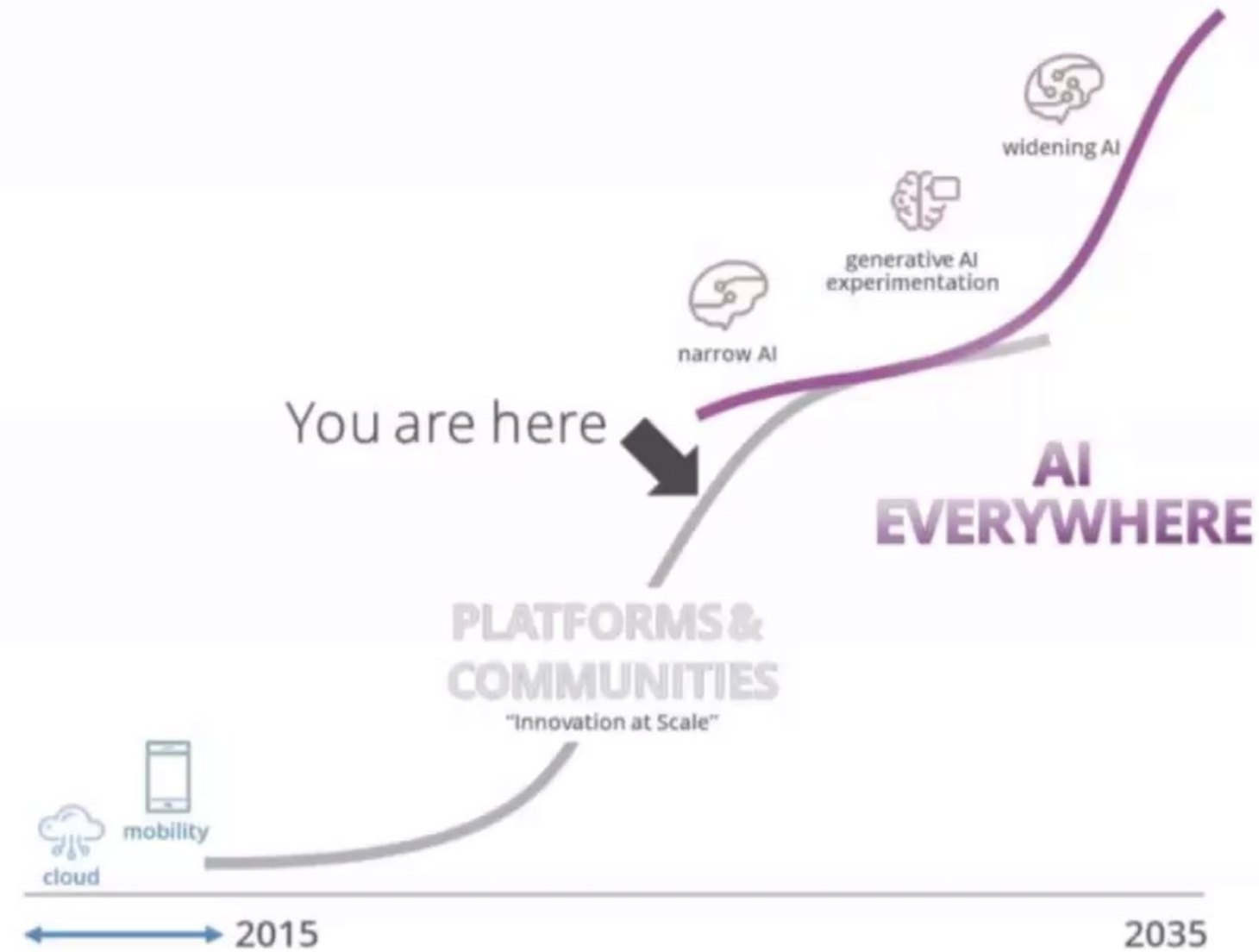
The EdTech Awards 2022 Finalists & Winners Announced

March 31, 2022

A hearty hat-tip and a grand salute to the innovators, leaders, and trendsetters in K-12, higher education, and workforce learning.



A Transition Is Coming



Source: IDC, 2023

How should we integrate AI into our lives while preserving human virtue and wisdom?

AI as a Replacement

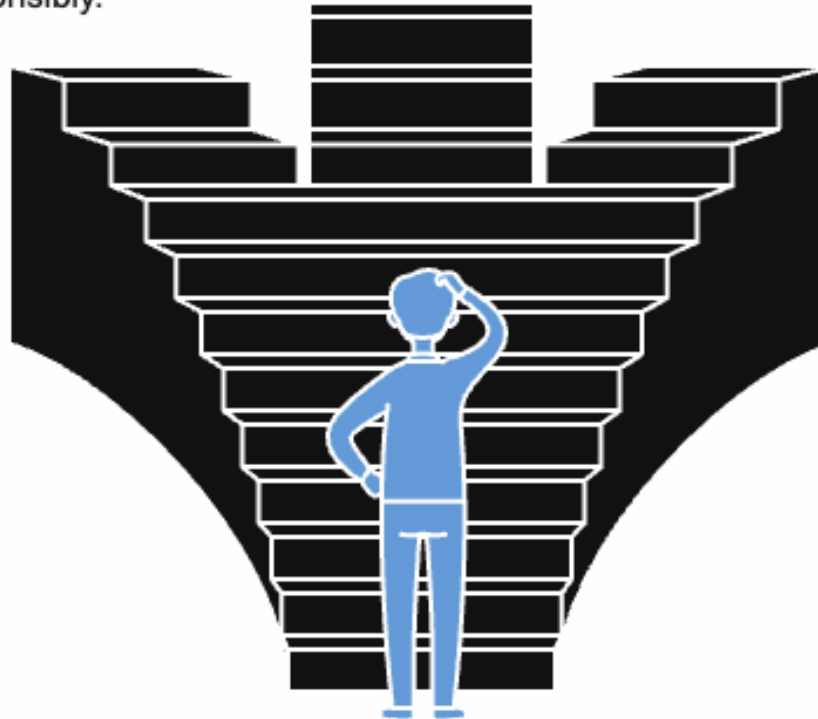
Relying on AI for ethical and creative tasks may lead to moral and spiritual complacency.

AI as a Mirror

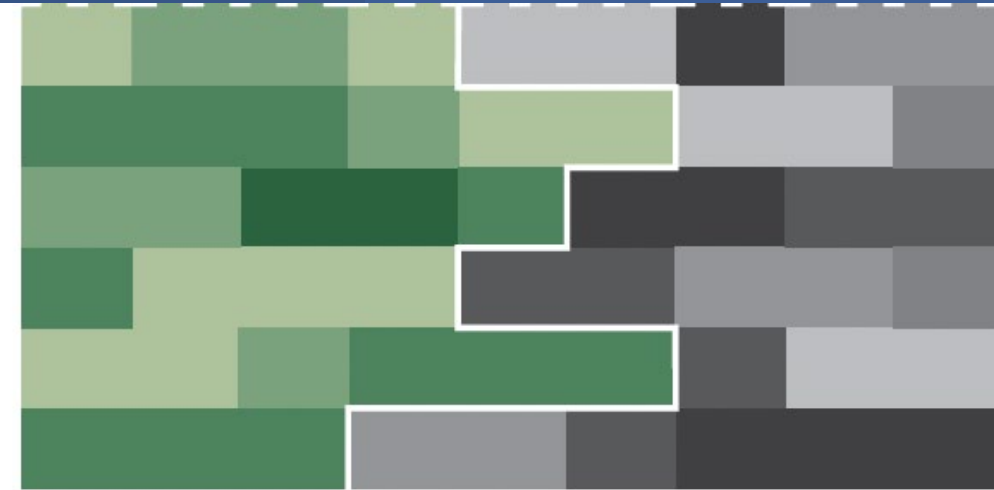
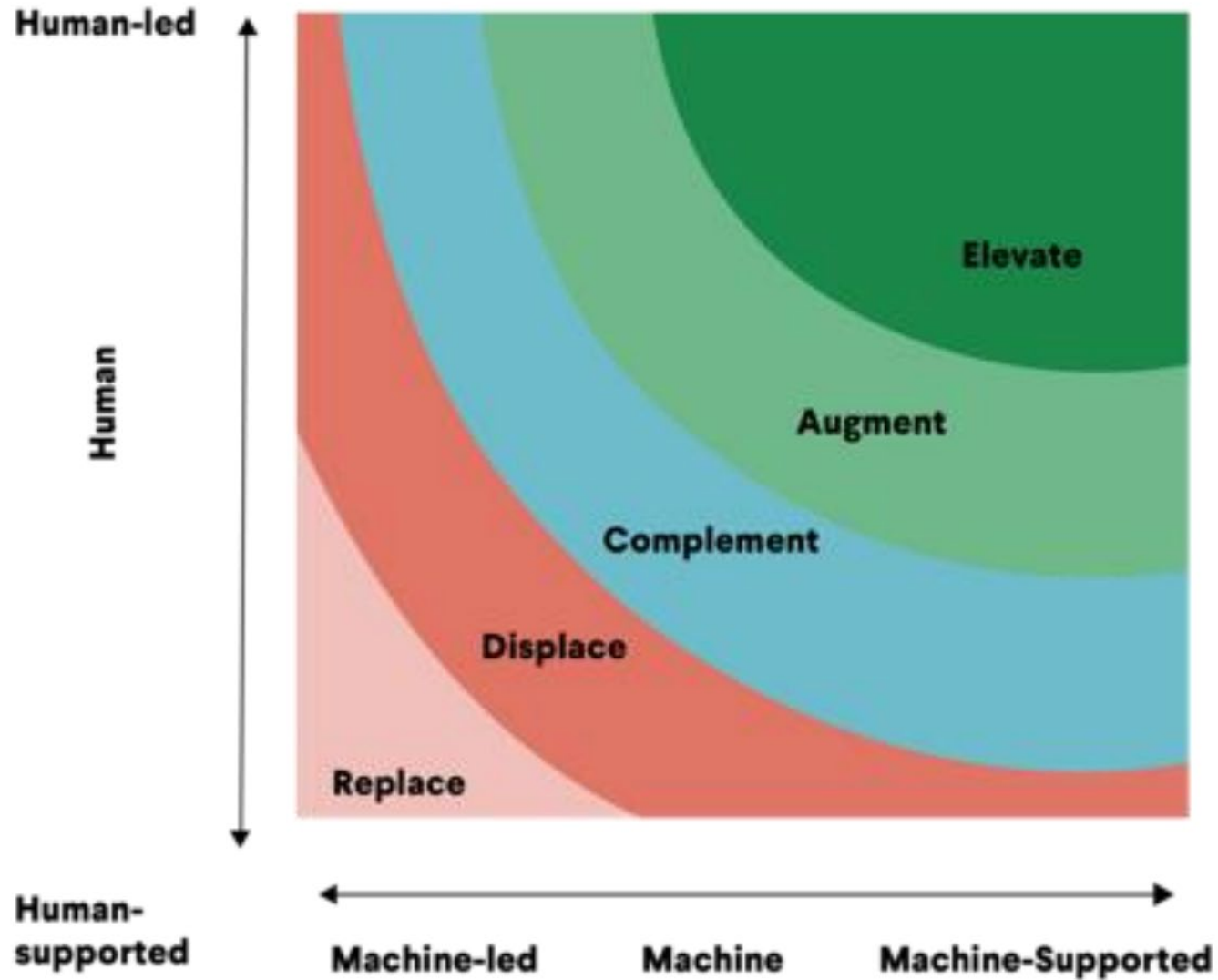
AI reflects human values and challenges us to clarify our principles.

AI as a Tool

AI can enhance capabilities and support human flourishing when used responsibly.

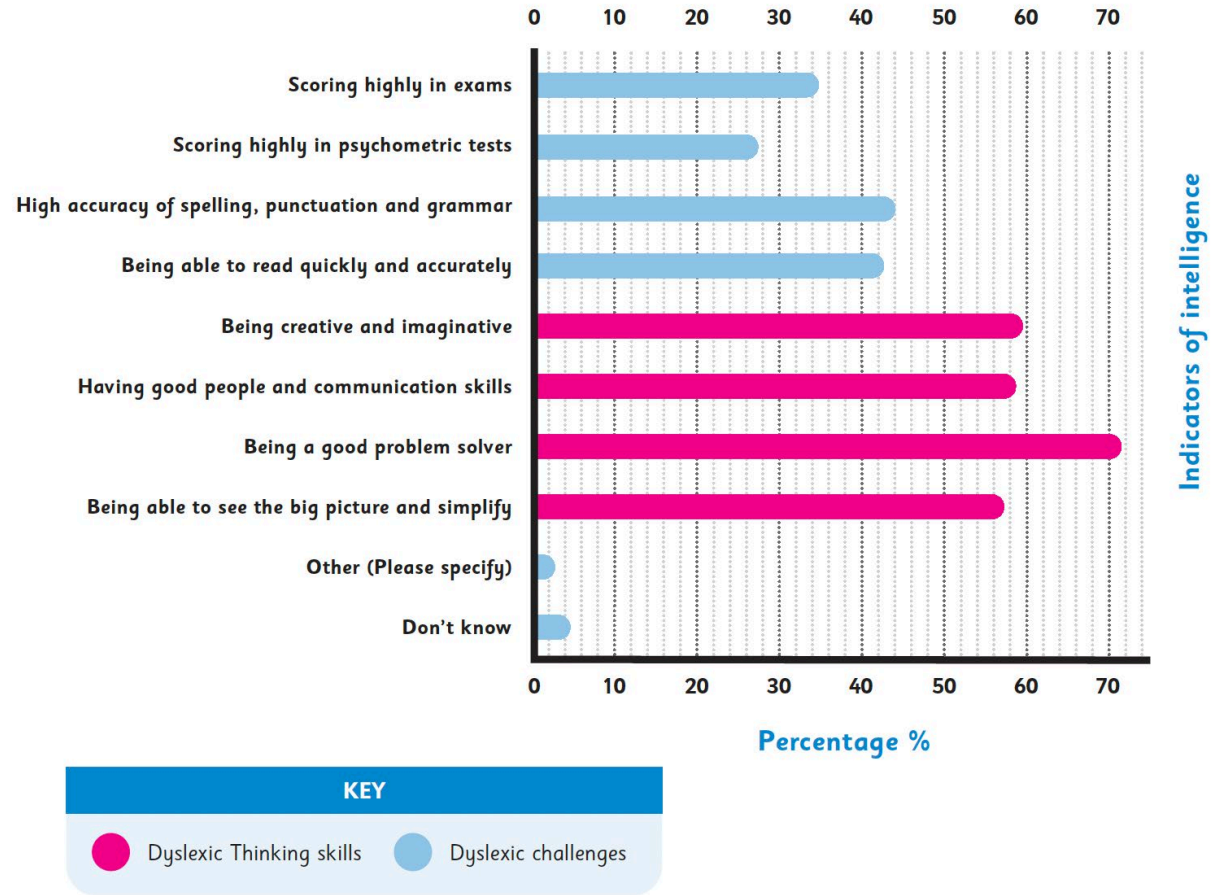


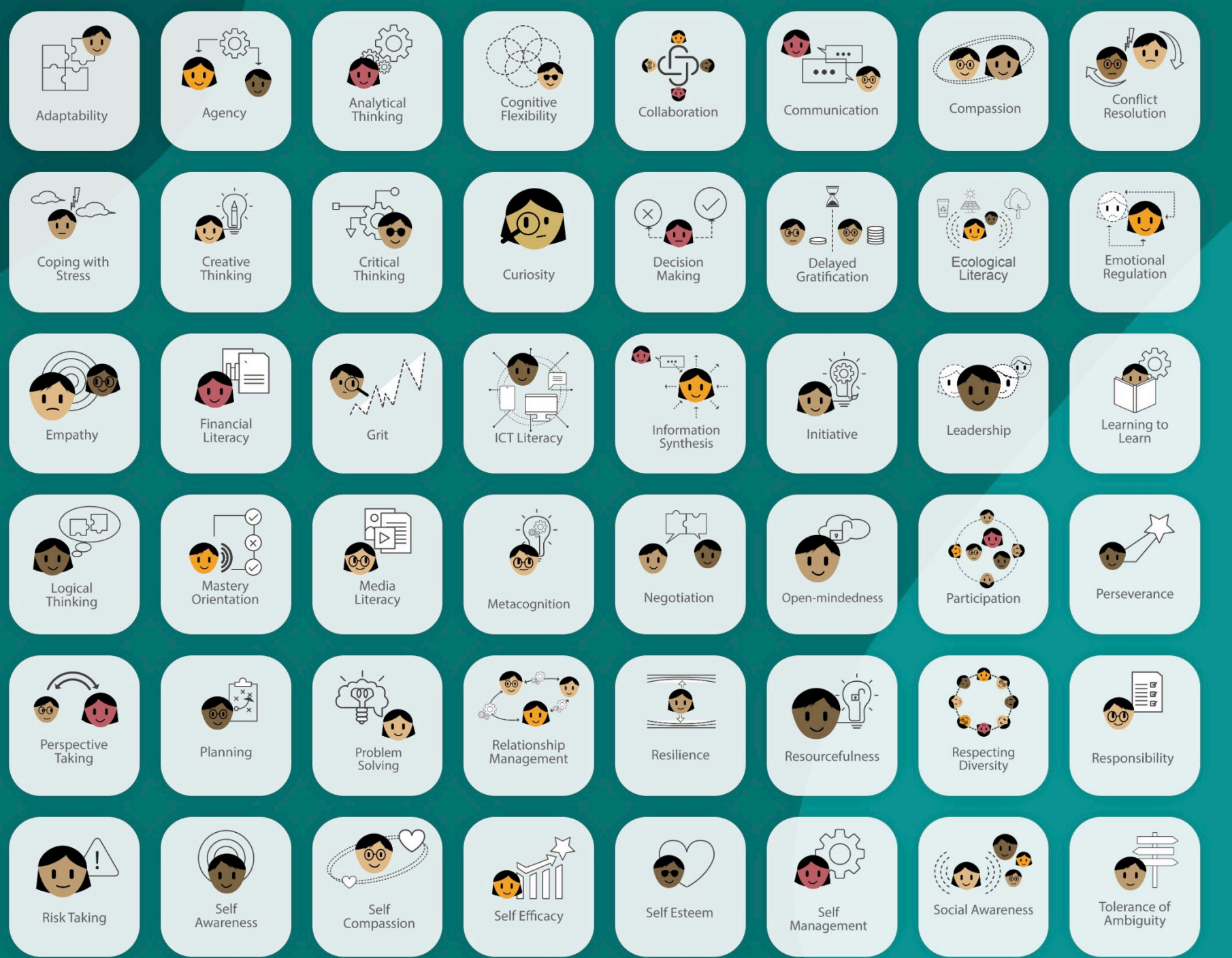
The AI-Ready Workforce Framework: Types of AI Impact on Common Skills



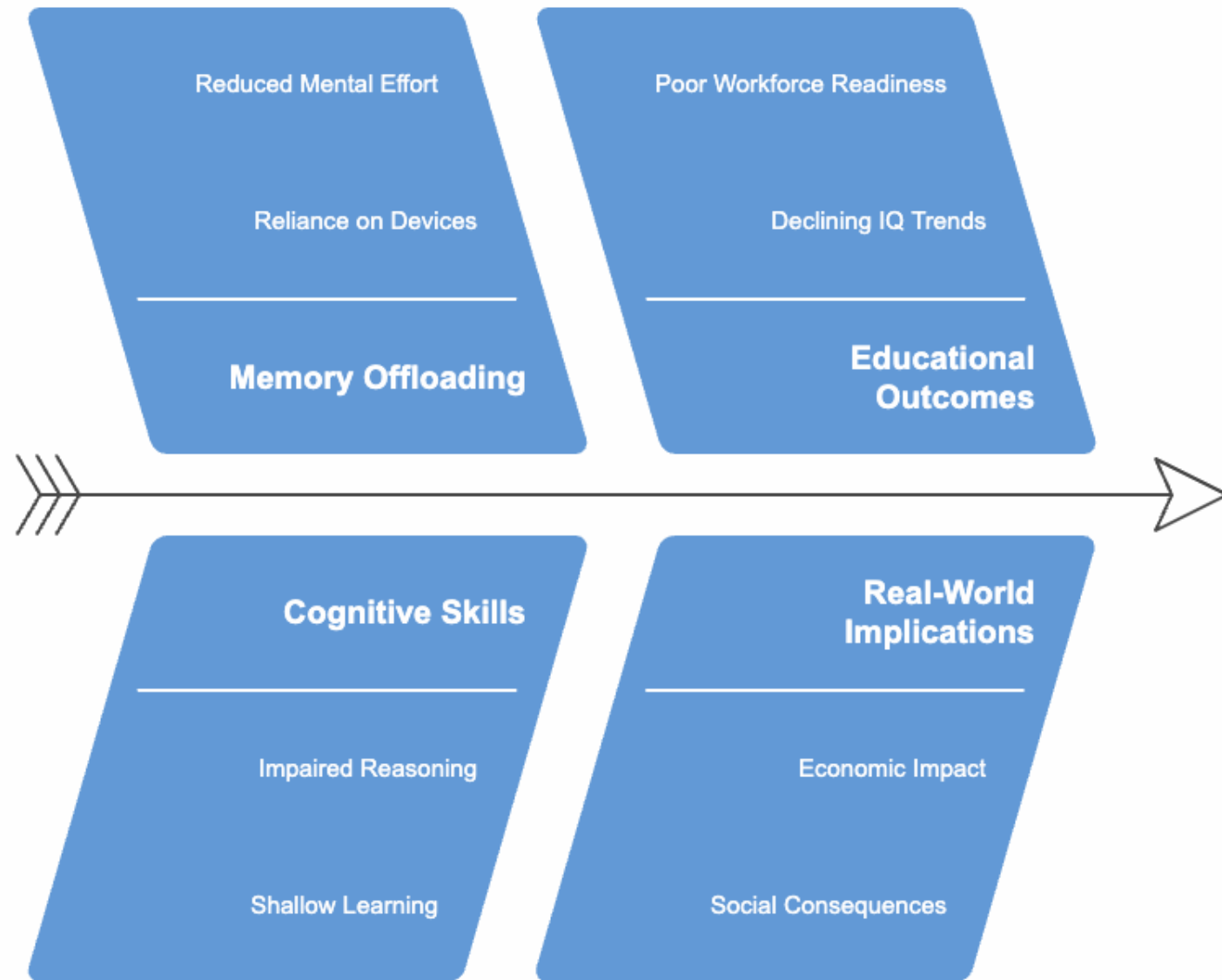
1: Reframing intelligence

Indicators of intelligence and their perceived importance

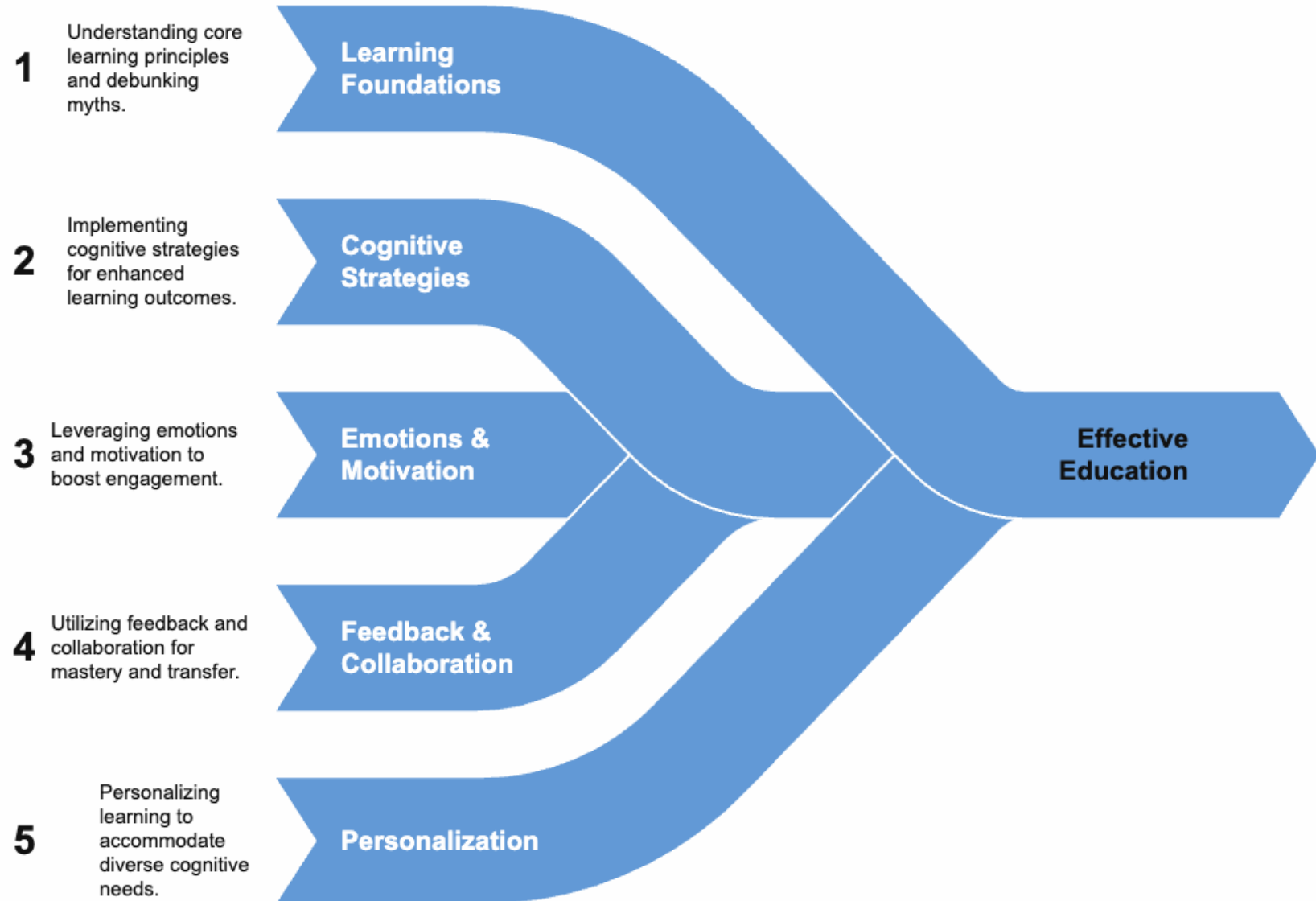




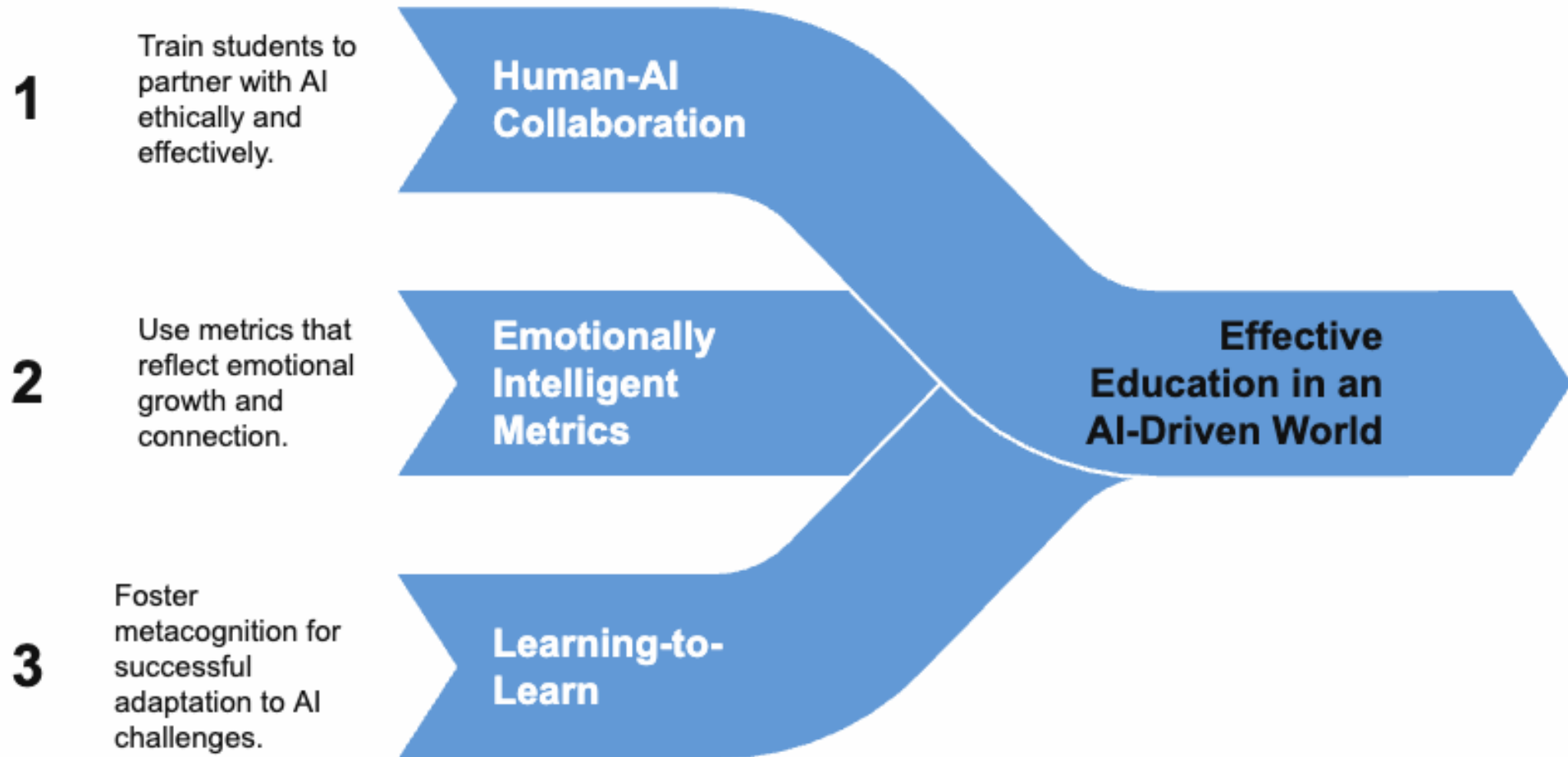
Cognitive Decline in the Digital Age



Pathways to Learning Success



Strategic Educational Goals



The Essence of Teaching

Subject Matter Knowledge

Understanding the content being taught

Emotional Labor

Emotional investment in student well-being

Student Trust

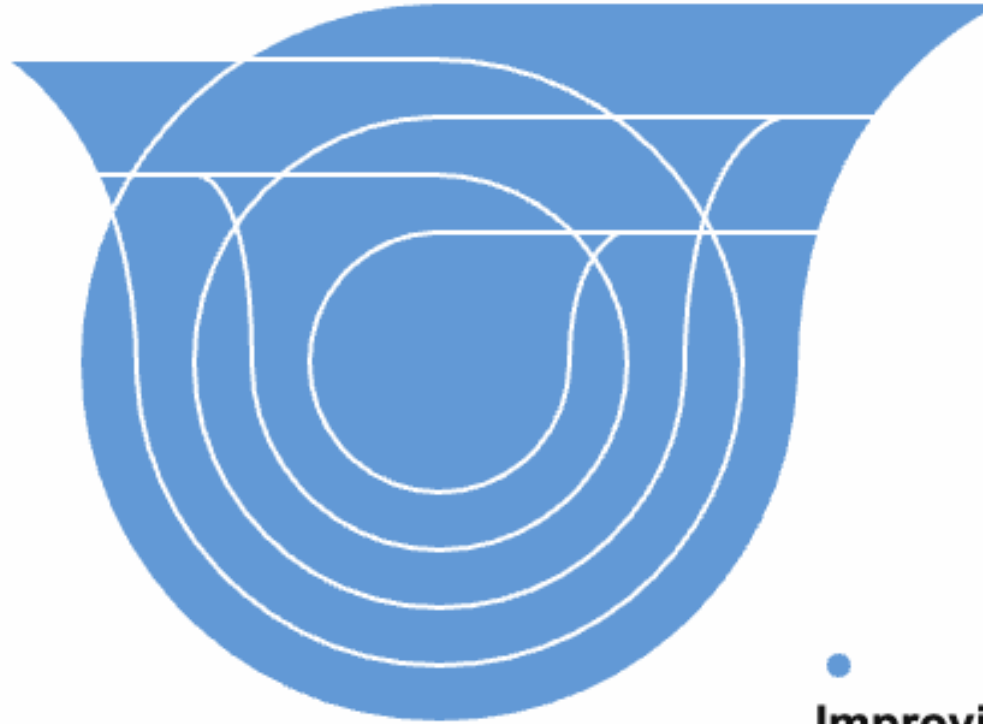
The foundational element of effective teaching

Managerial Skills

Organizing and managing the classroom

Improvisation

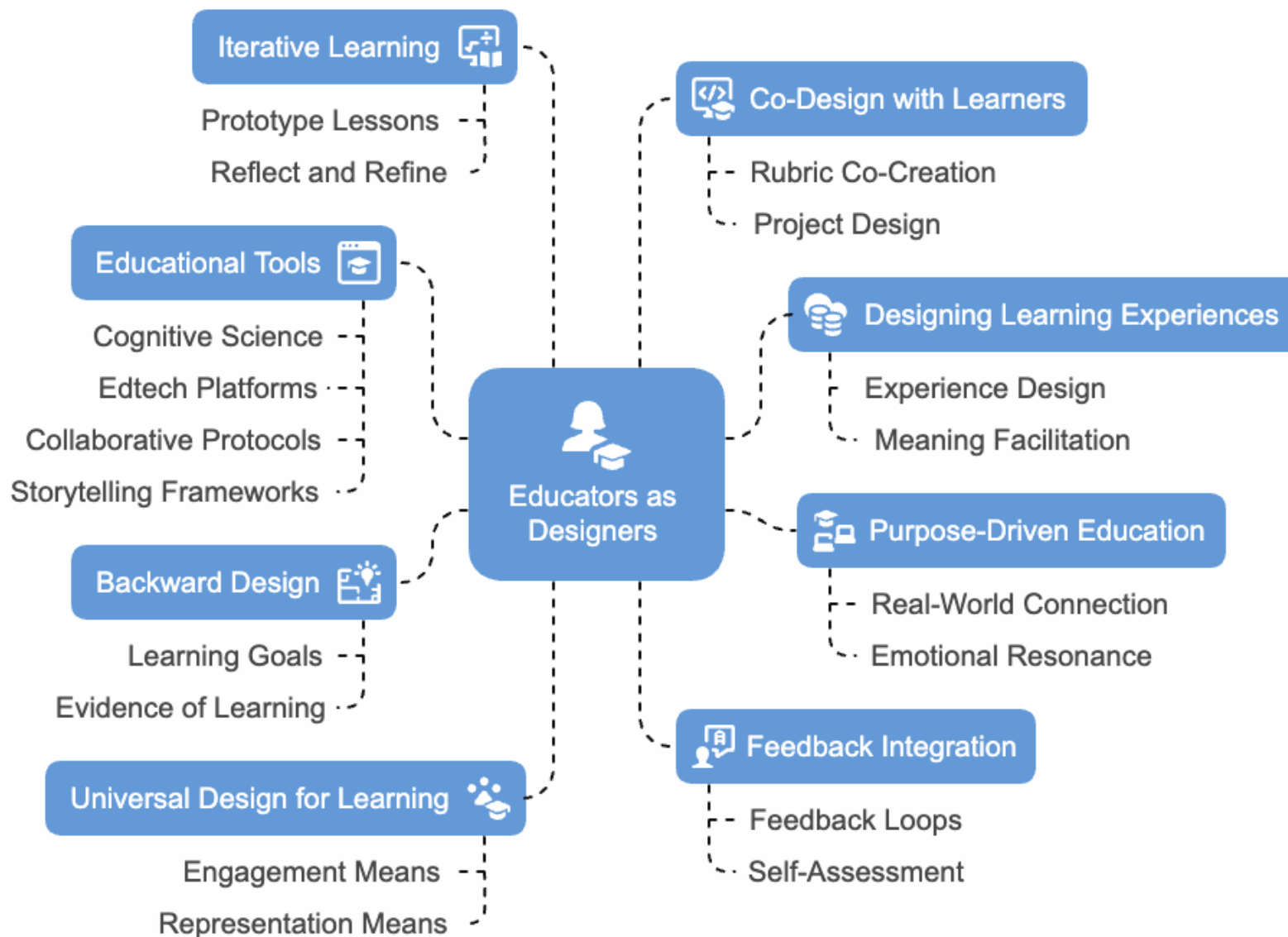
Adapting teaching methods on the fly



Factors Influencing Learning



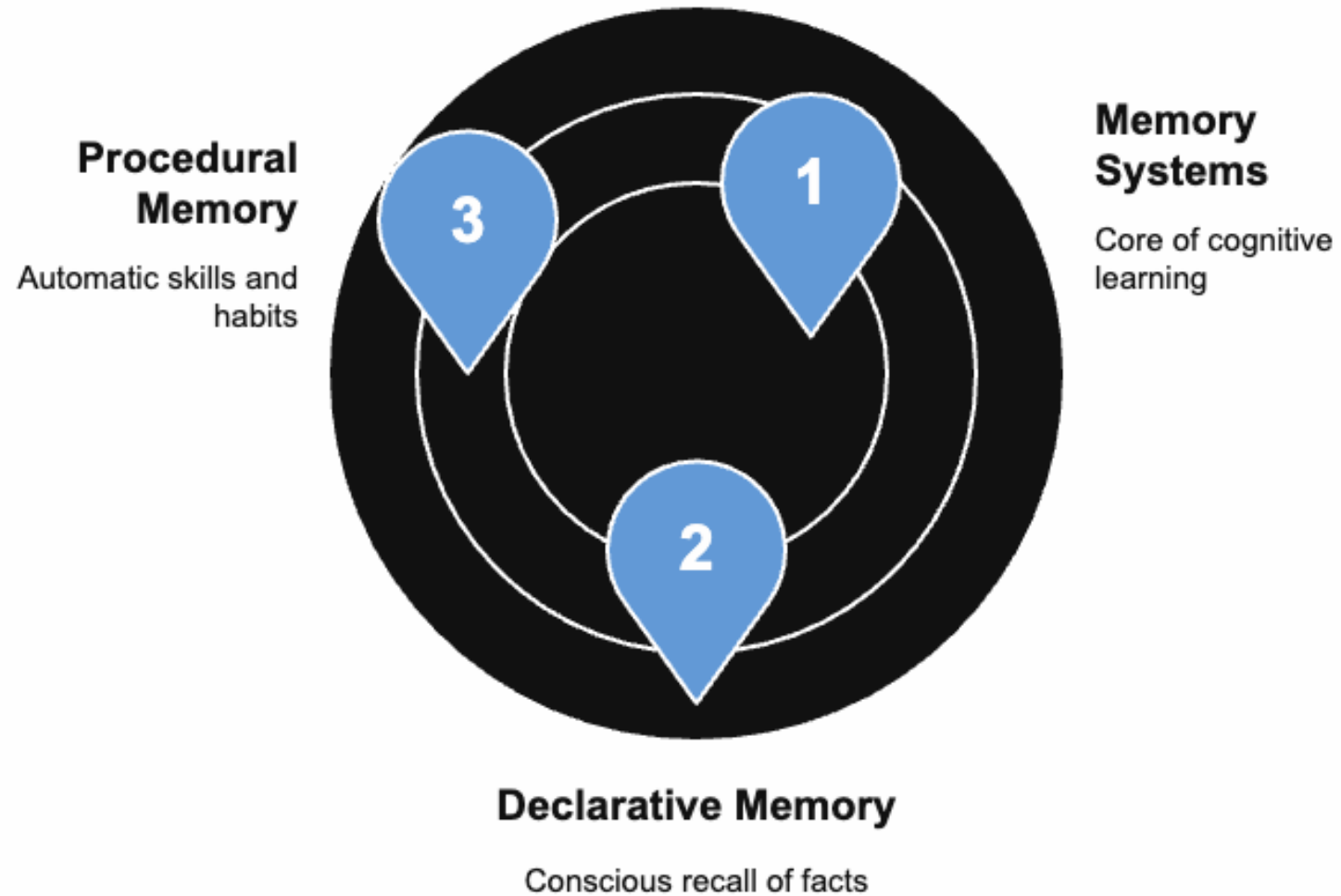
Educators as Designers: Transforming Learning Roles



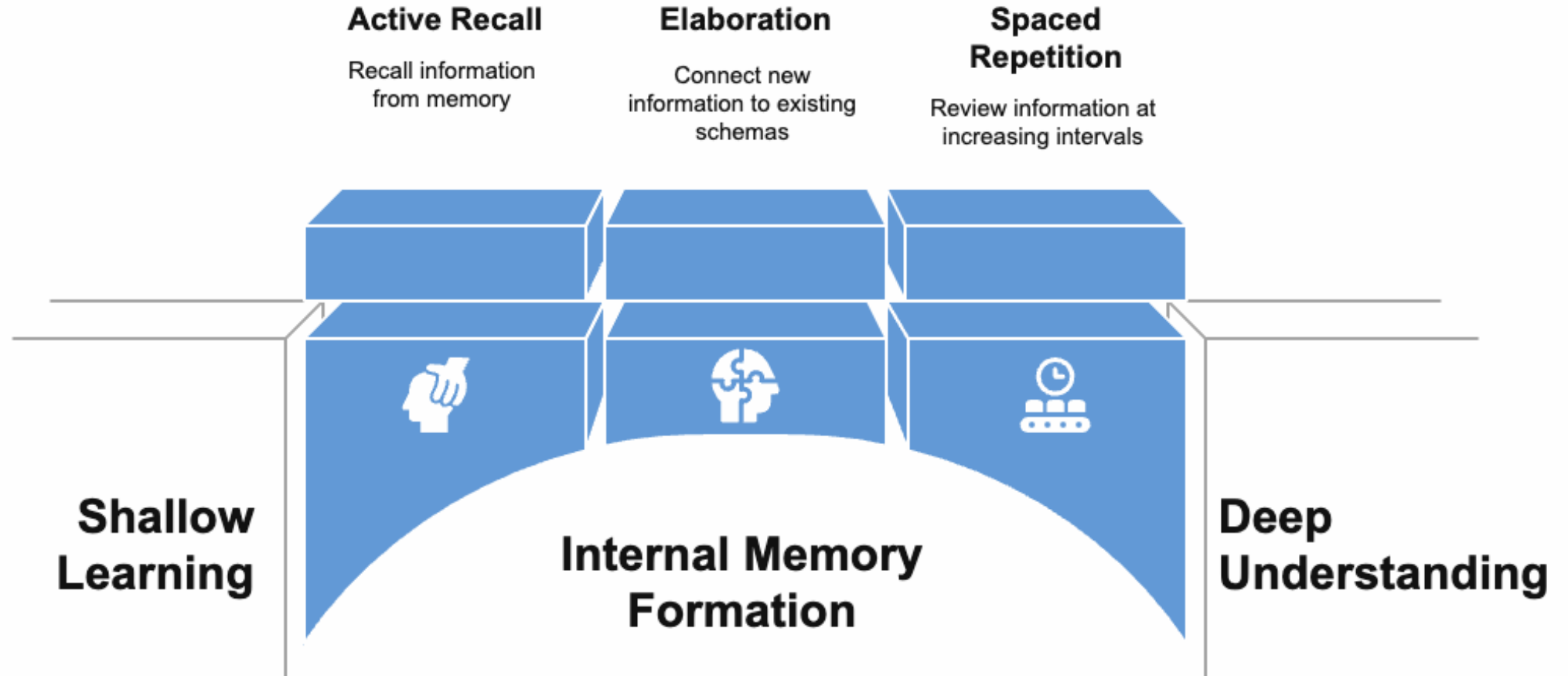
Steps to Effective Teaching



Memory Systems in the Brain



Building Schemas for Effective Learning



2: Scenarios of Ai in education

AI Literacy Framework

Transformative AI Literacy

Empowers ethical AI futures and questioning power



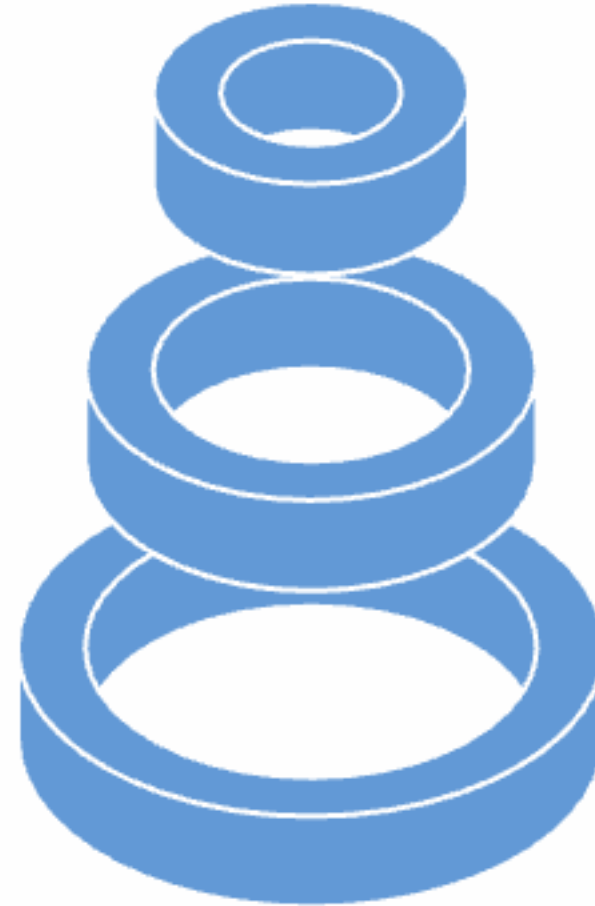
Situated AI Literacy

Emphasizes social context and relevance

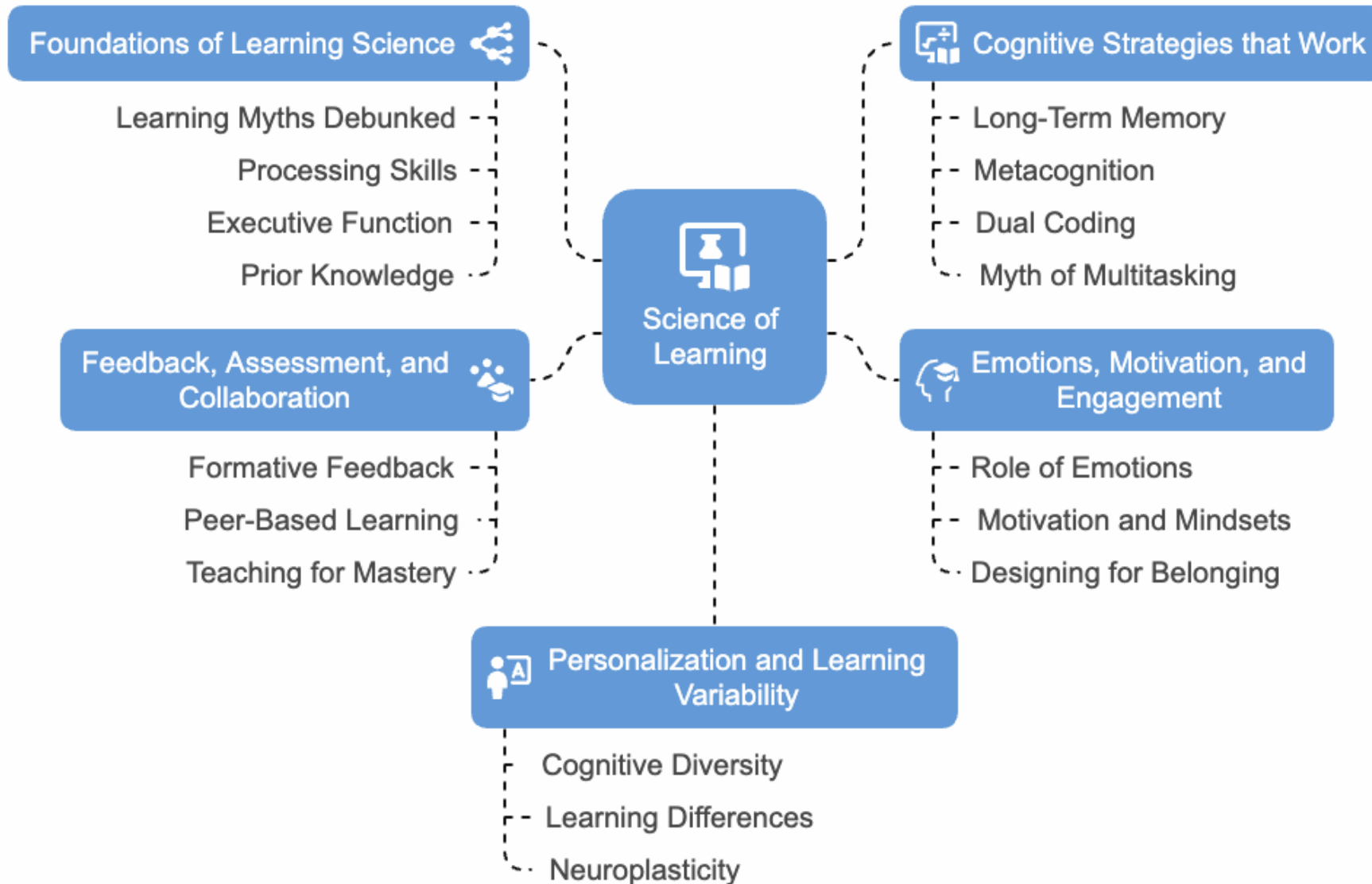


Generic AI Literacy

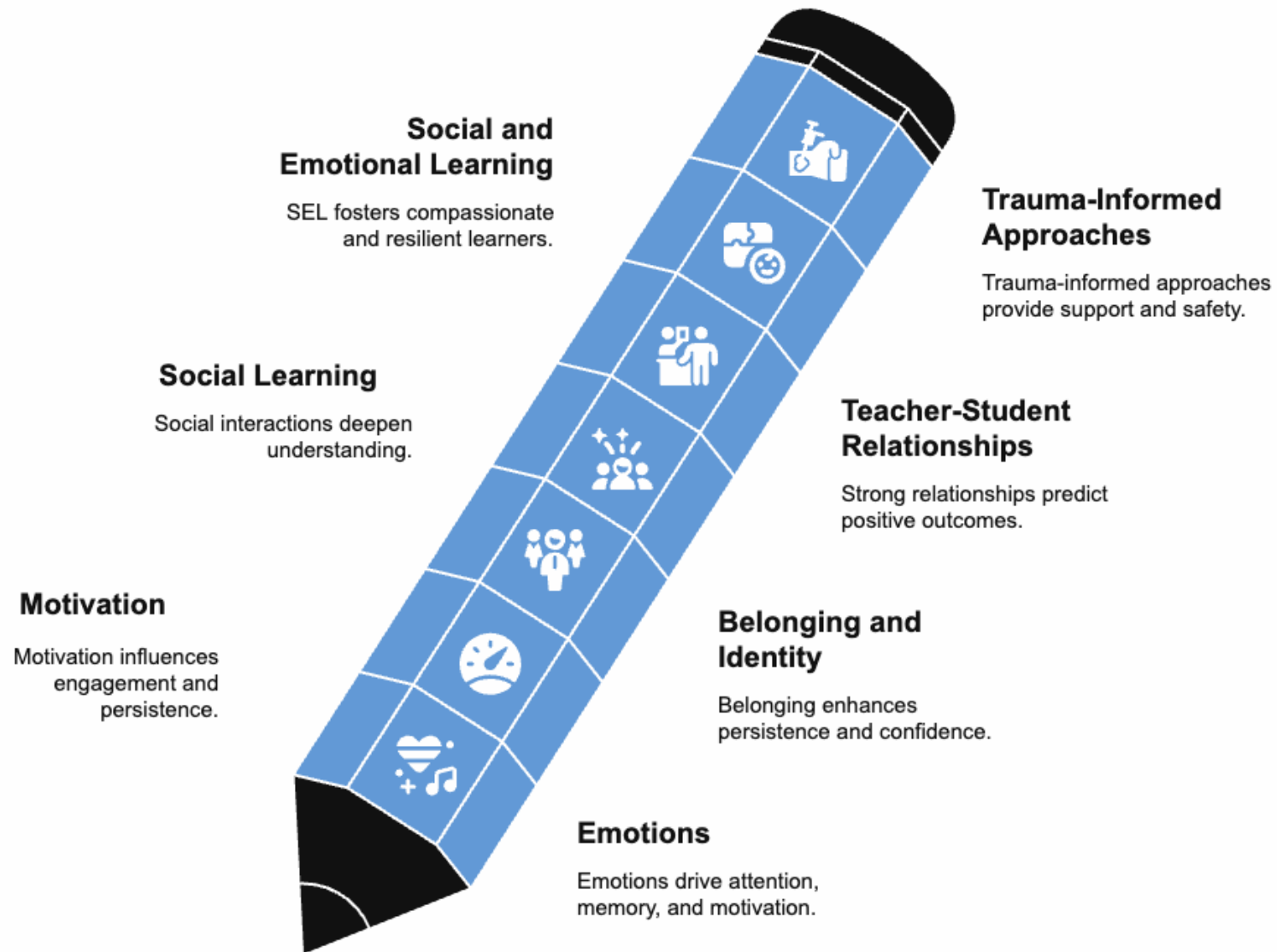
Focuses on technical skills and knowledge



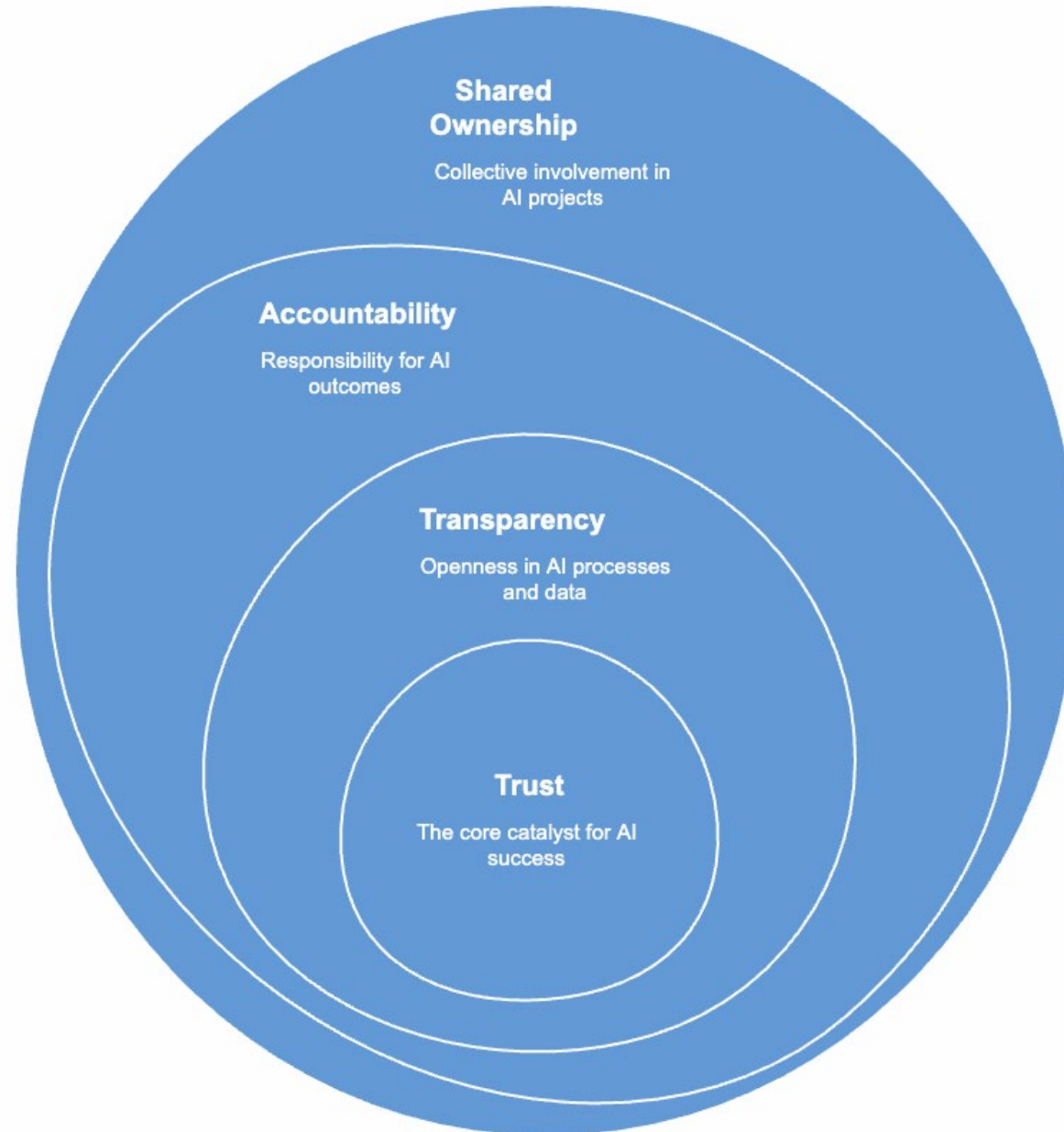
Science of Learning: Key Concepts and Strategies



The Dynamics of Learning



Trust in AI Integration



AI in Education Hierarchy

Deeper Learning

AI fosters understanding and lifelong learning habits



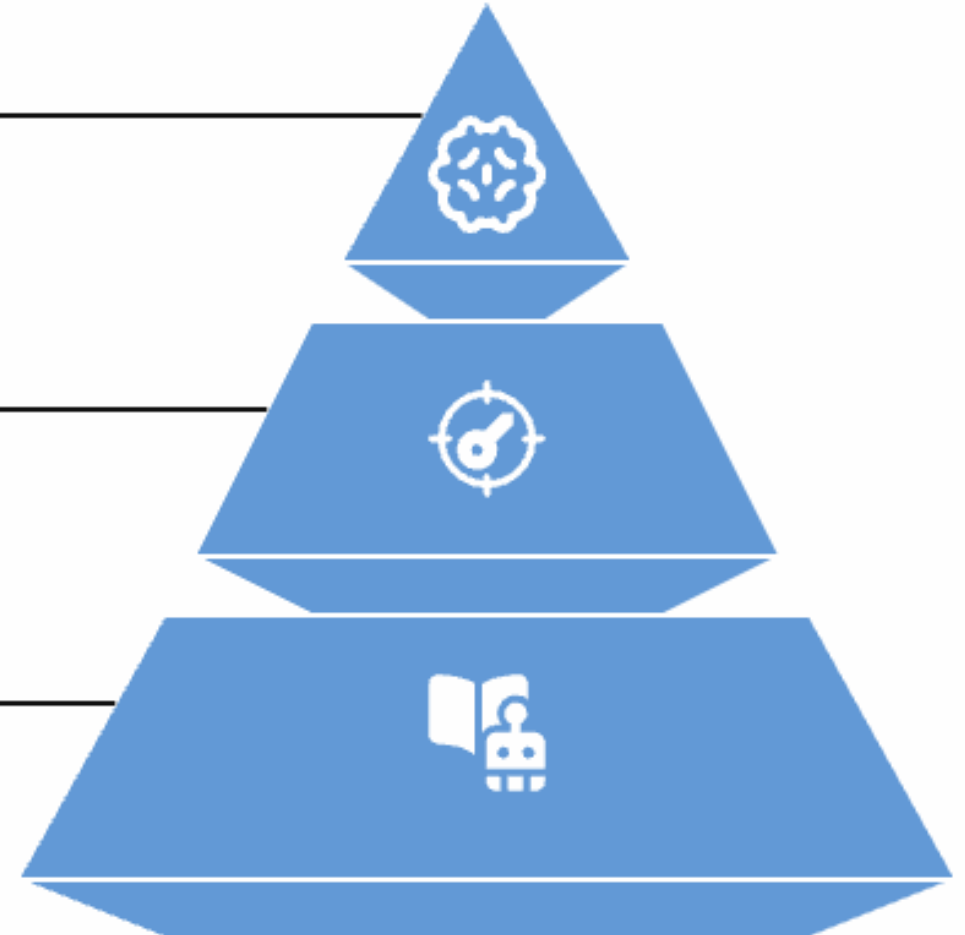
Individualized Support

AI provides tailored feedback and growth opportunities



AI as Catalyst

AI should enhance learning, not just speed up tasks

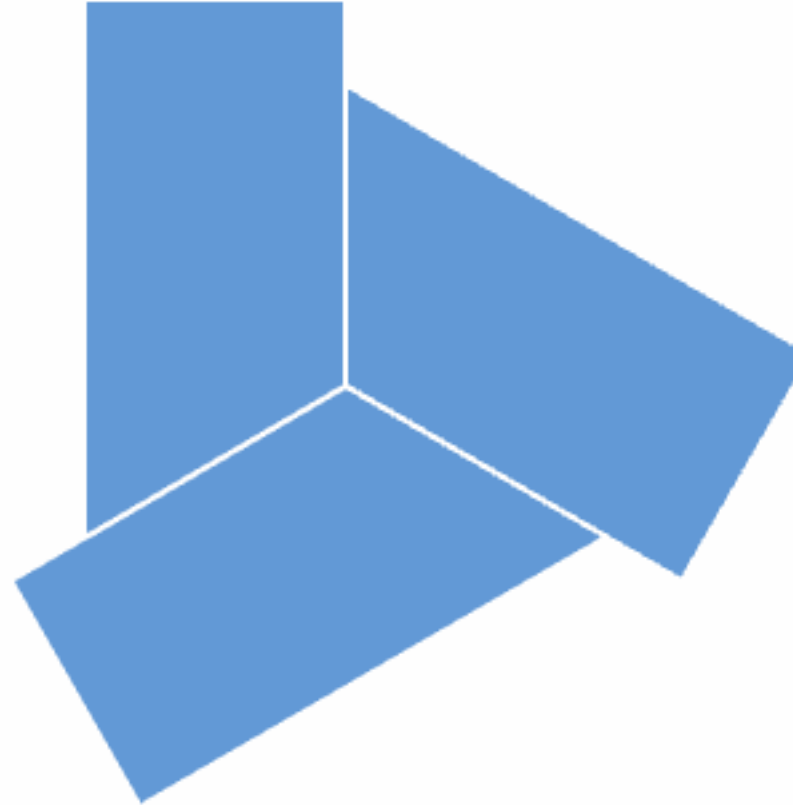


AI Ethics Considerations

Ethical Alignment
Aligning AI with ethical principles.

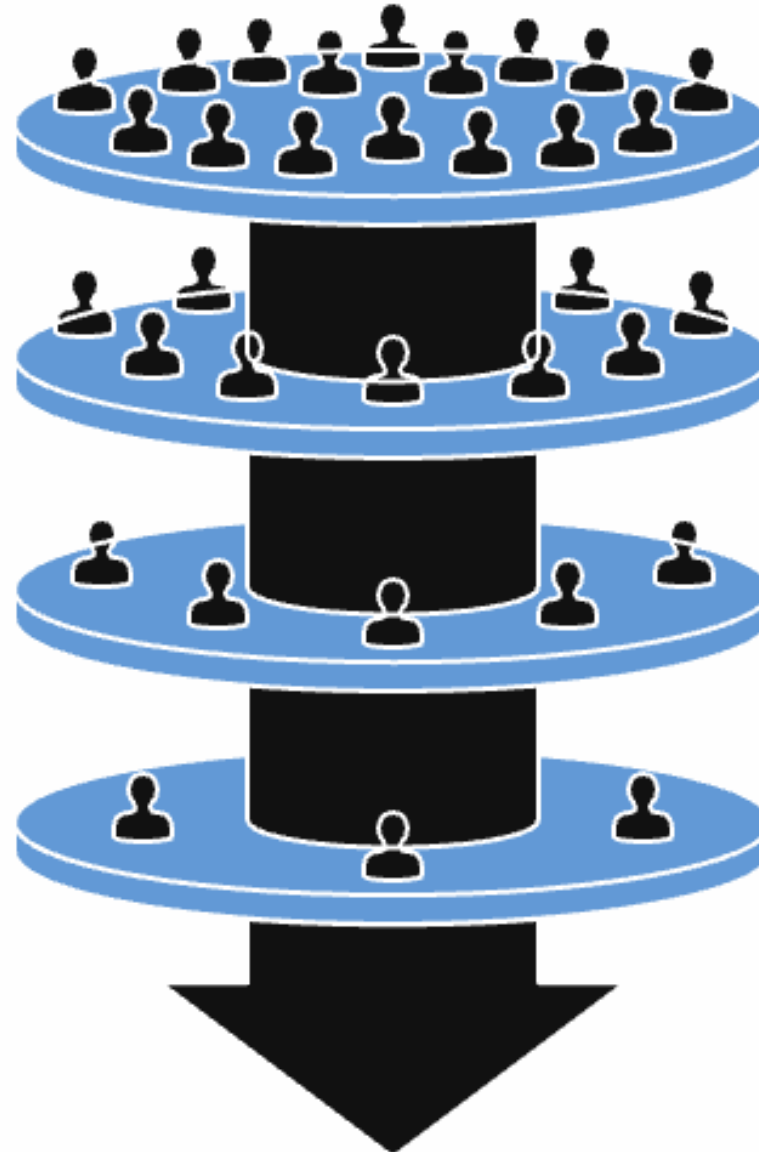


Bias Detection
Identifying and mitigating biases.



Agent Behavior
How the agent acts.

Transforming Education for the Future



Redesign Architectures



Rethink Learner Journeys

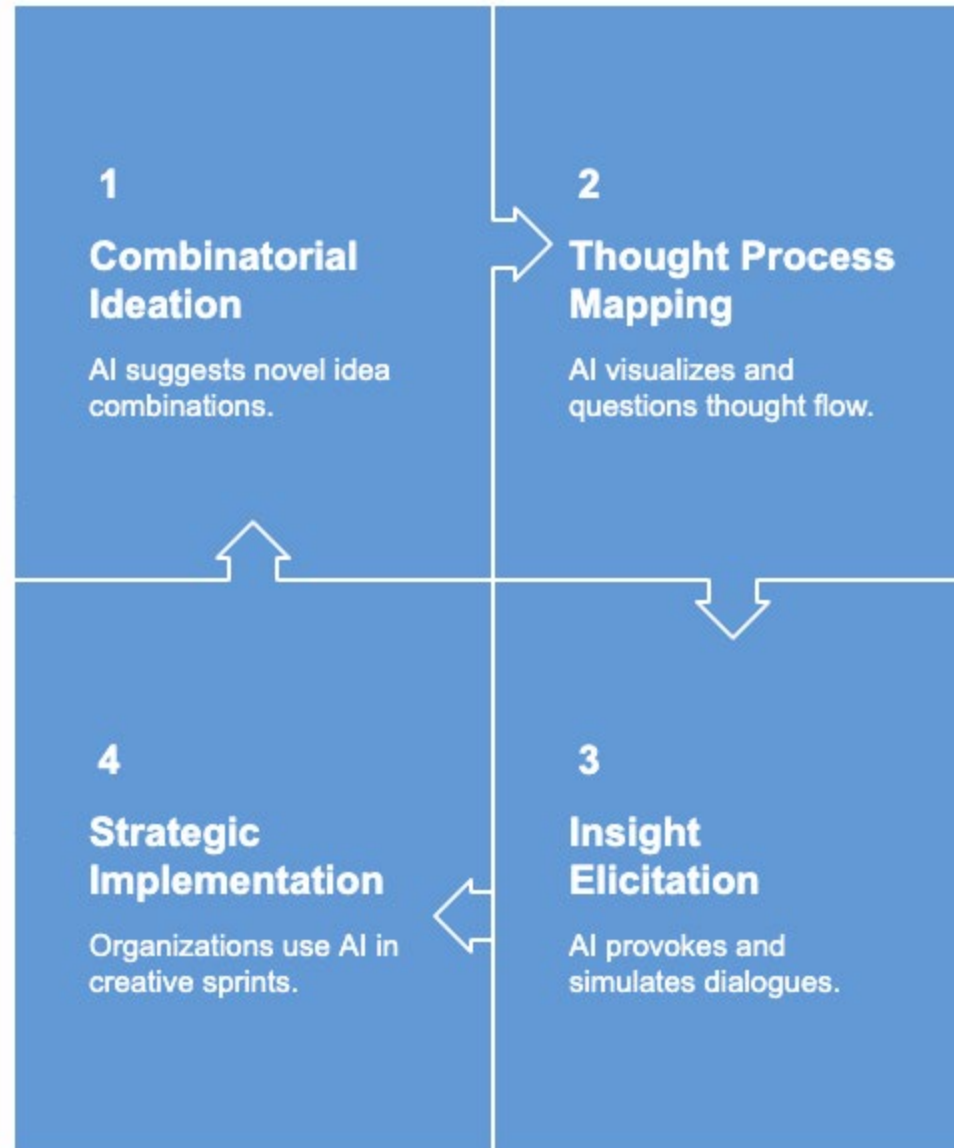


Build Governance

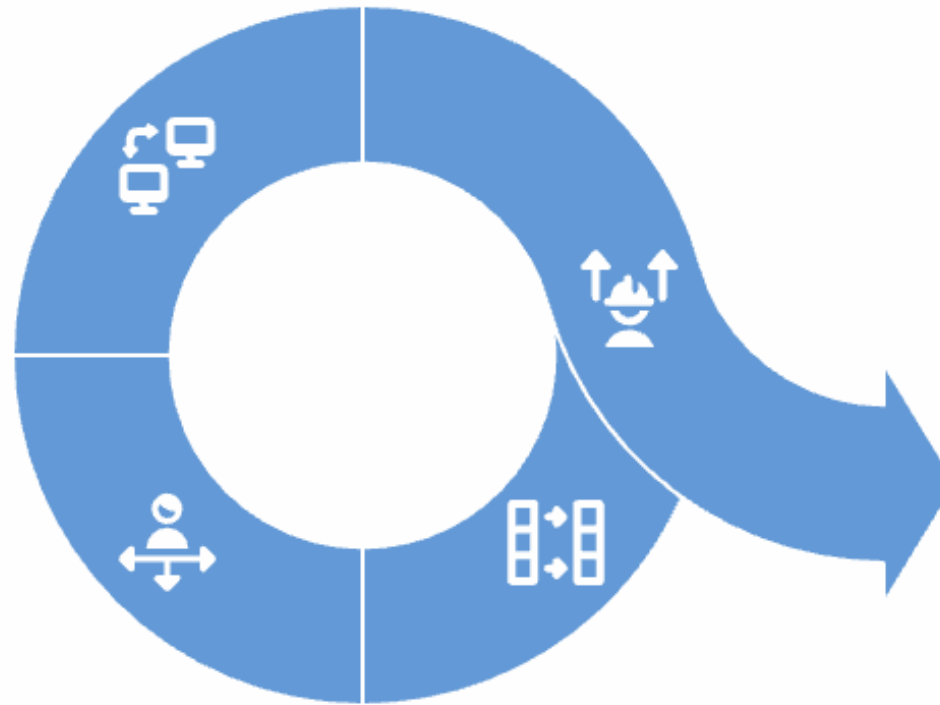


Commit to Standards

AI-Driven Creativity Cycle



Cycle of Skill Enhancement



1

Repetition

Practice to reinforce skills

2

Transfer

Apply skills to new situations

3

Contextual Variation

Adapt skills to different contexts

4

Augmentation

Enhance existing skills

How to improve reasoning in large models?

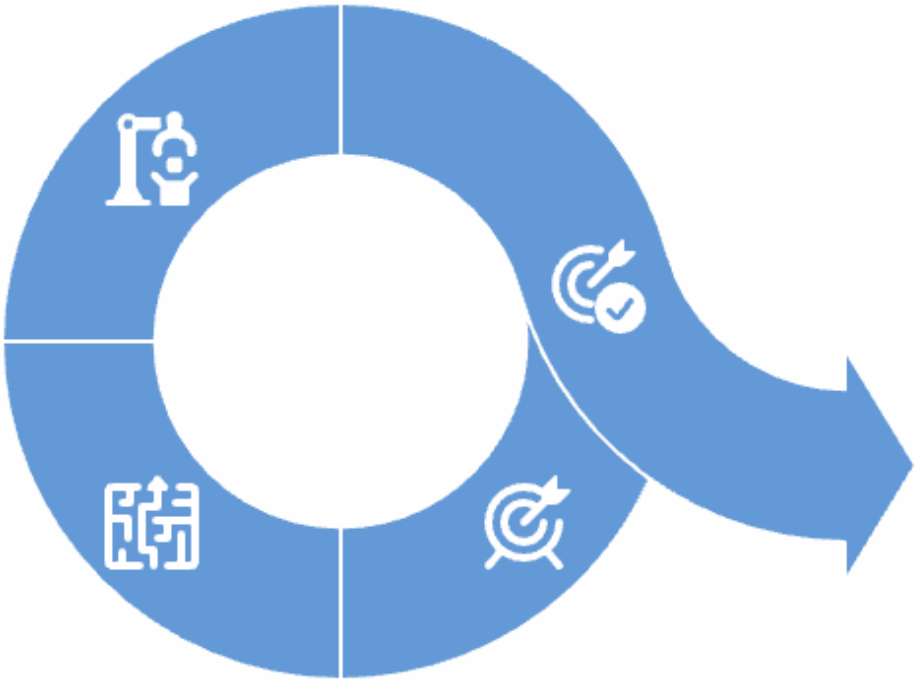


Strategies for Smarter Reasoning Systems



3: Agentic futures

Intent-Based Execution Cycle



- 1**

Define Goal

Clearly articulate the desired outcome.
- 2**

AI Navigates Complexity

AI processes and simplifies the task.
- 3**

Execute Task

AI performs the necessary actions.
- 4**

Achieve Outcome

The goal is successfully accomplished.

Orchestrating AI Agents in Education

Learning Journeys

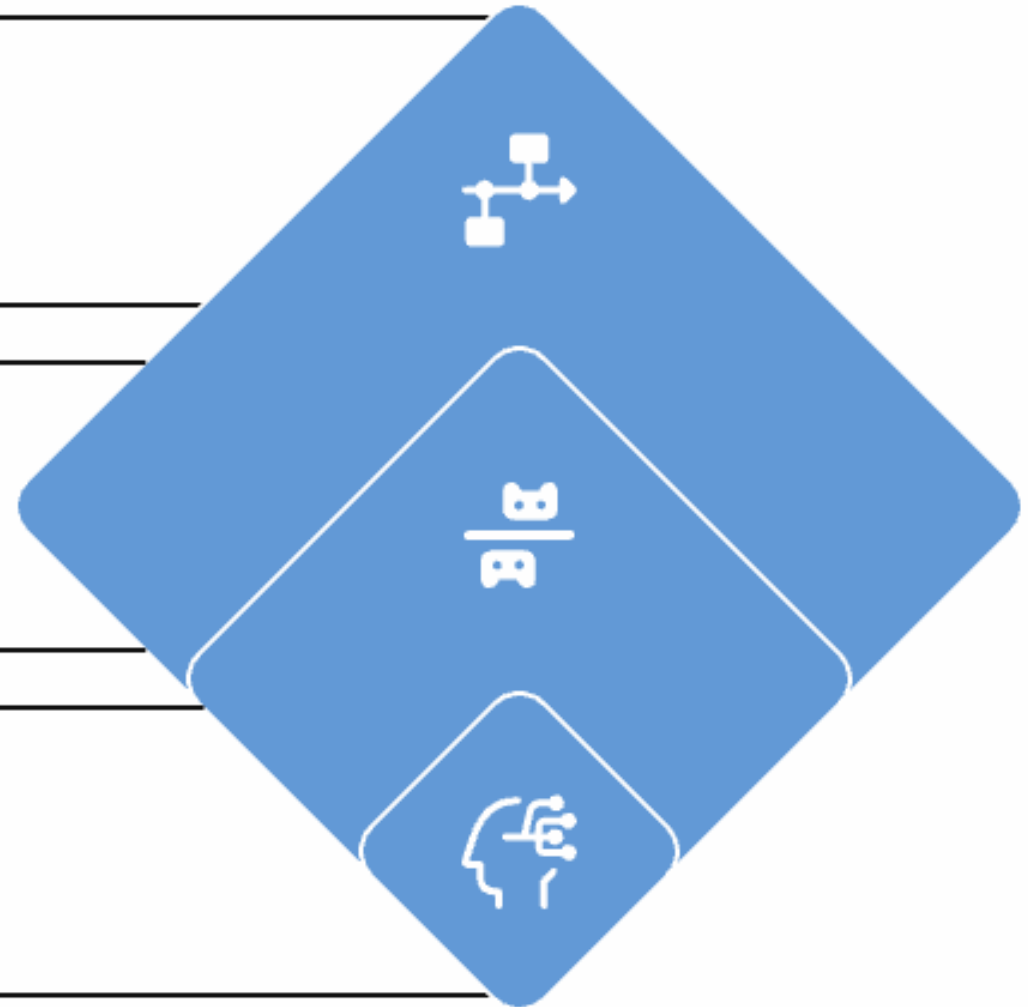
Personalized educational paths

Multiple Agents

Diverse AI tools enhancing learning

Intelligent Orchestration

Core strategy for AI in education



Evolution of AI Companions



Agent Capabilities



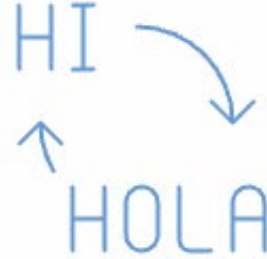
Teach

Agents can educate users on various subjects.



Coach

Agents can guide users to achieve goals.



Translate

Agents can convert languages for communication.



Assess

Agents can evaluate user performance and skills.



Inspire

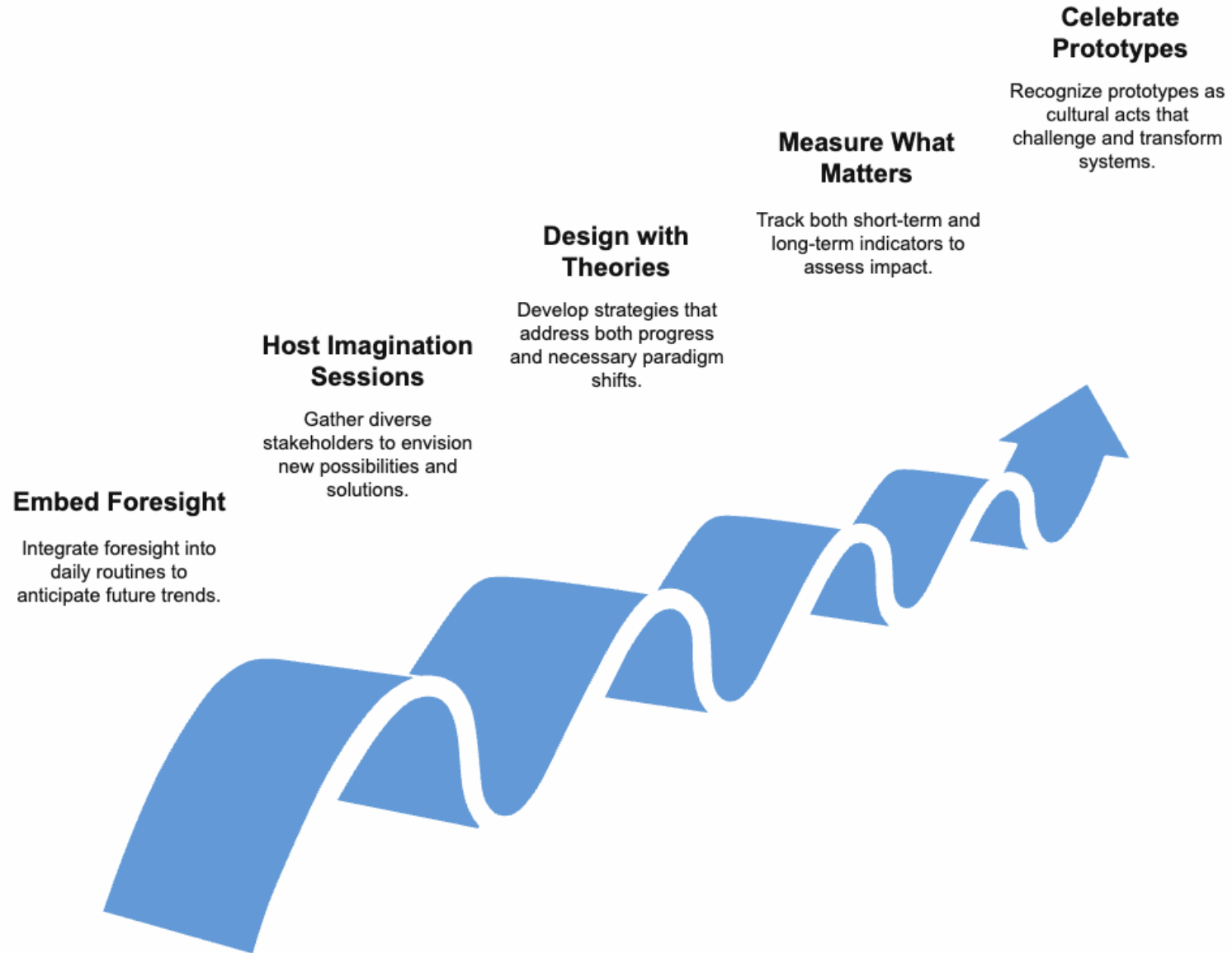
Agents can motivate and encourage users.

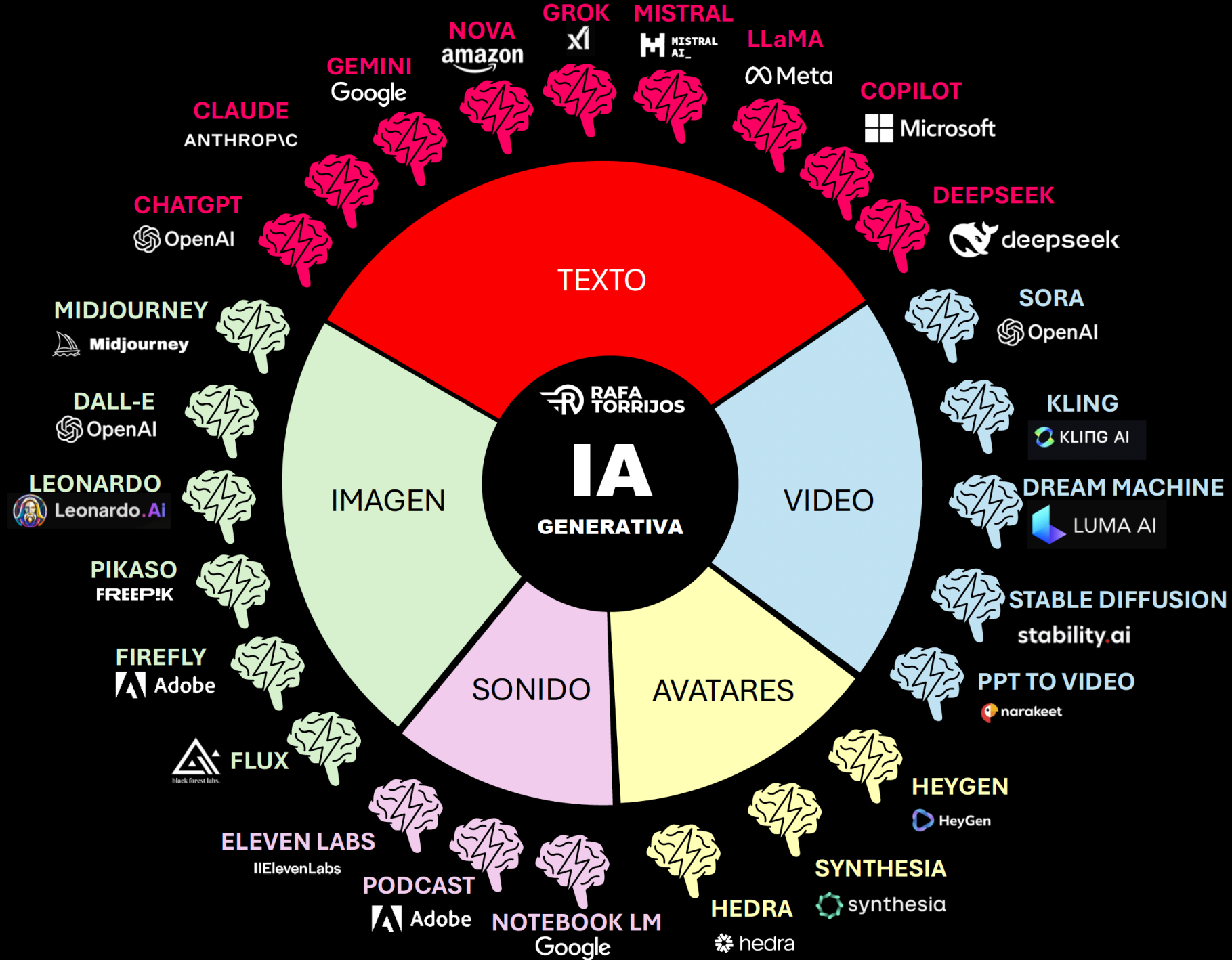
LLM Performance Regimes Based on Problem Complexity

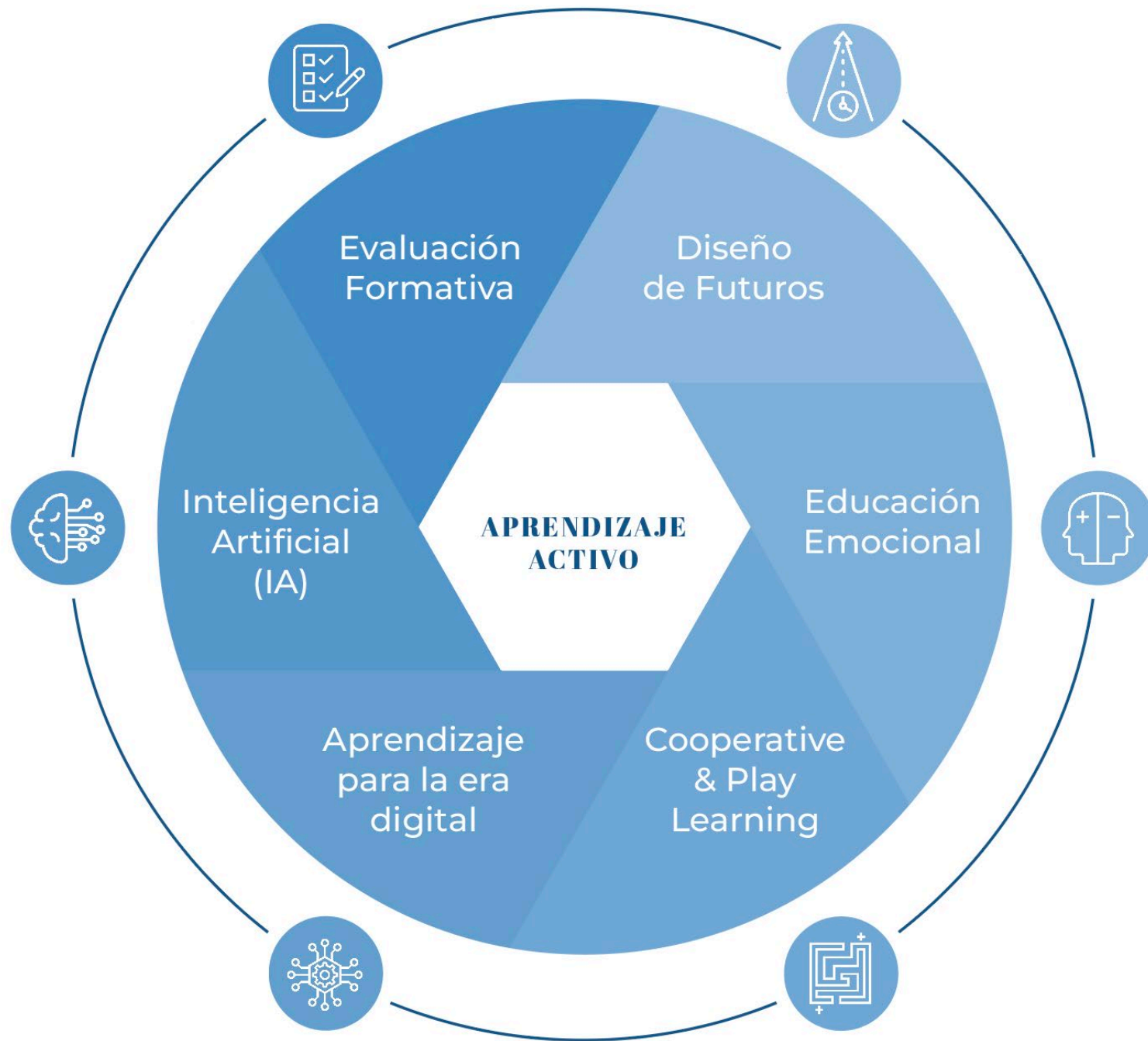


4: Augmented Roadmap

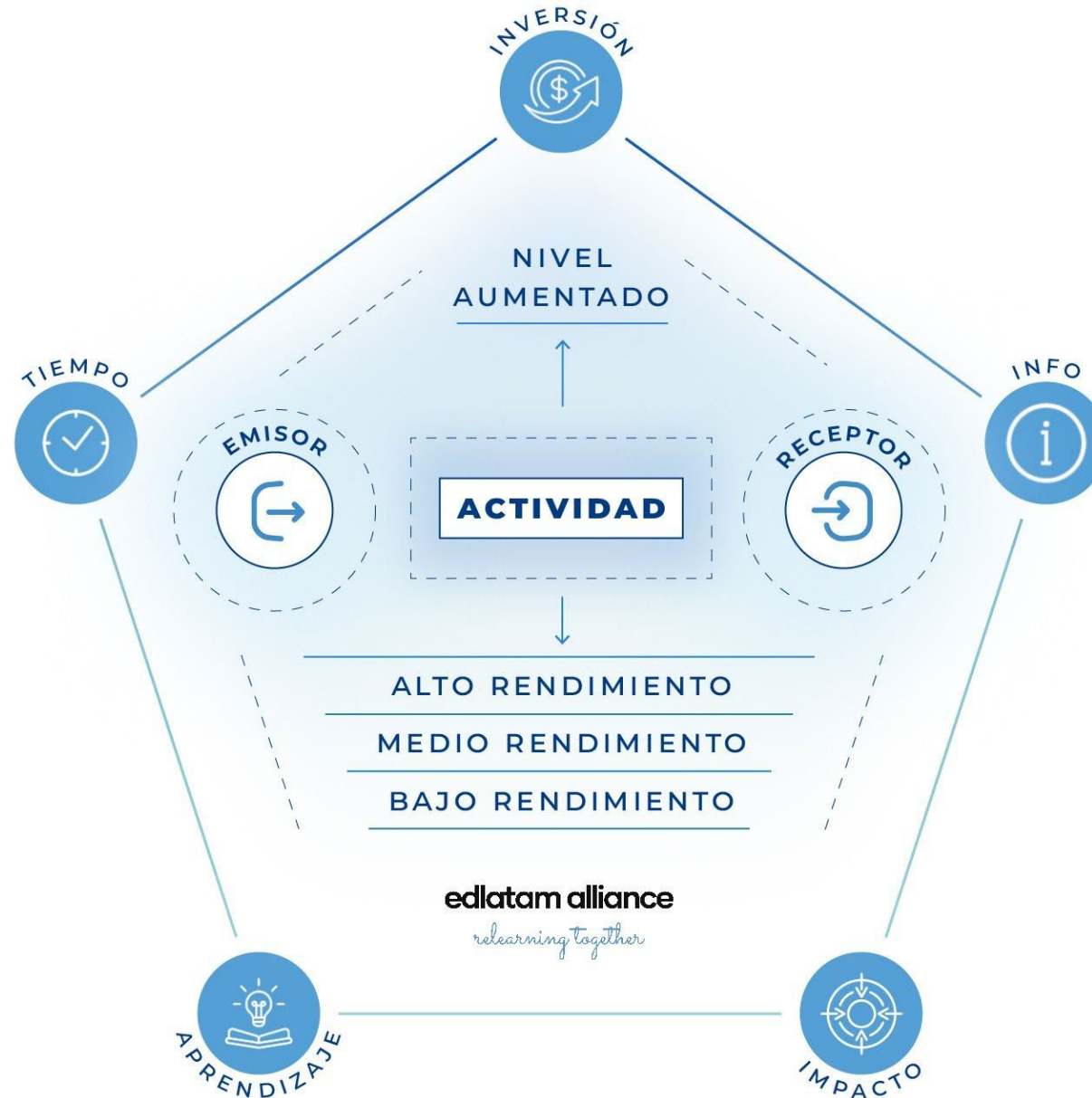
Cultivating Radical Incrementalism

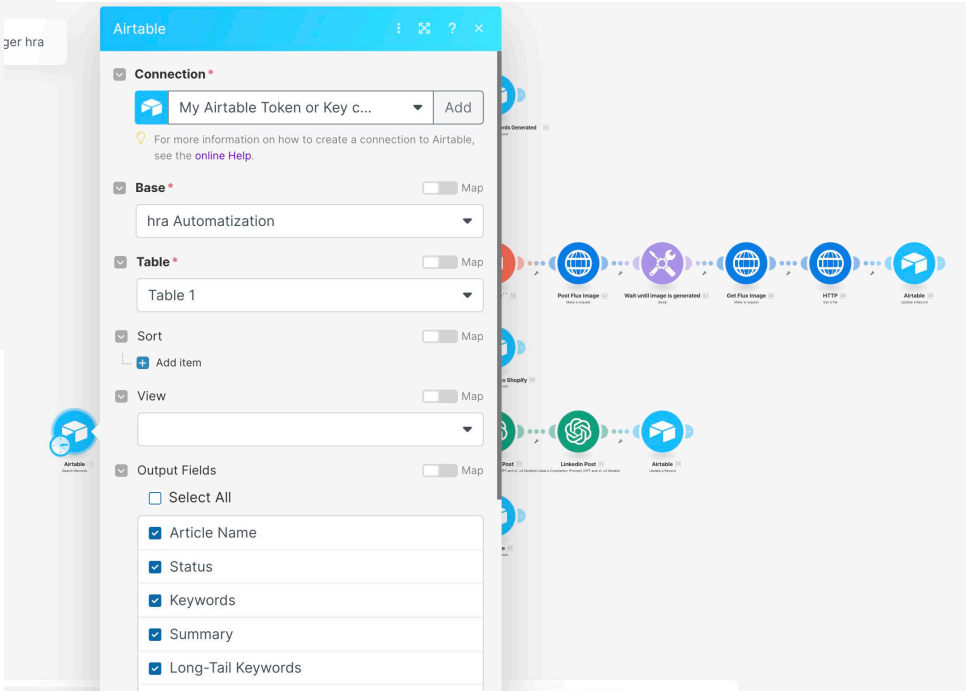
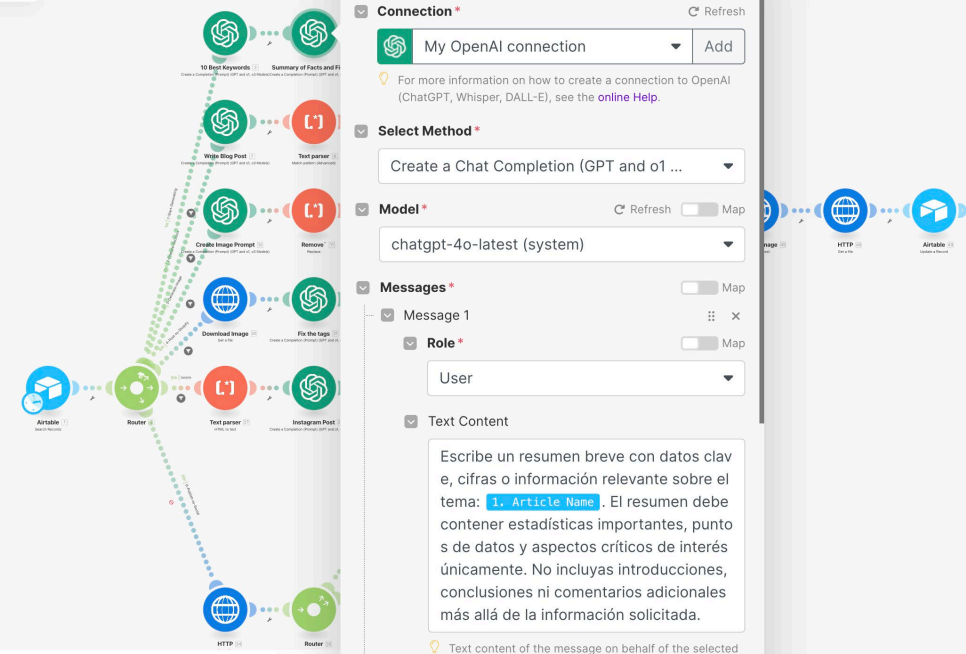
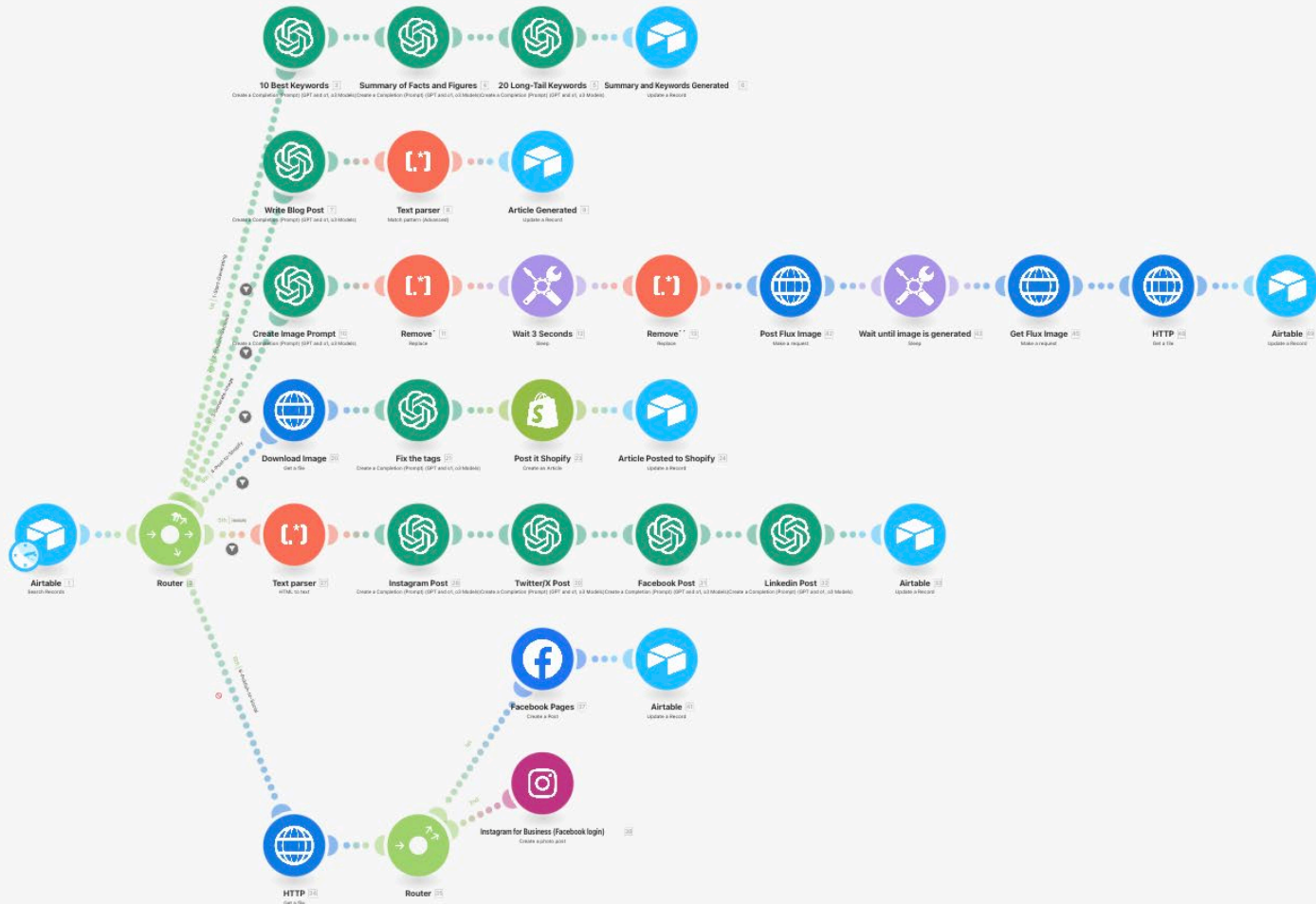






RETORNO





Cycle of Recognition of Learning



Achieving Augmented Learning

