"ปัญญาประสาน"
Collaborative Intelligence
และ
"คลังทักษะ"
Skill Wallet

Reshaping Teaching and Learning in the AI Era

การประชุมวิชาการ ครั้งที่ *20*
สมาคมเครือข่ายวิชาชีพอาจารย์และองค์กรระดับอุดมศึกษา

รศ. ดร. บวร ปภัสราทร

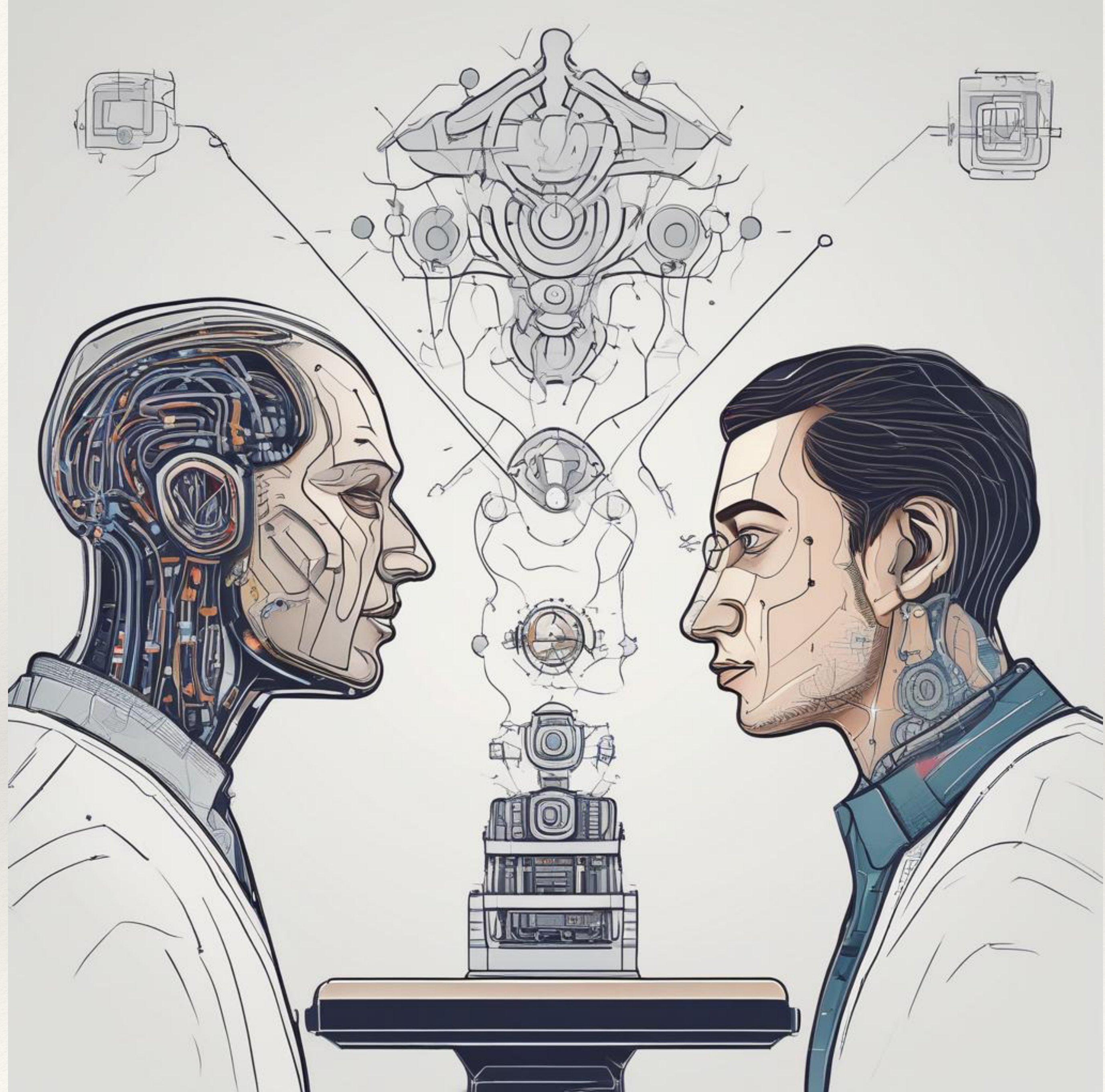สถาบันคลังสมองของชาติ
มีนาคม 2568

บริบทที่เปลี่ยนแปลงไป

- Rapid advancements in AI are transforming industries and the future of work.

- Traditional teaching and learning models need to evolve.

- Universities must prepare graduates for a world of human-AI collaboration.

Collaborative Intelligence
ปัญญาประสาน

- *A partnership between humans and AI, leveraging their respective strengths.*

- *AI augments human capabilities, not replaces them.*

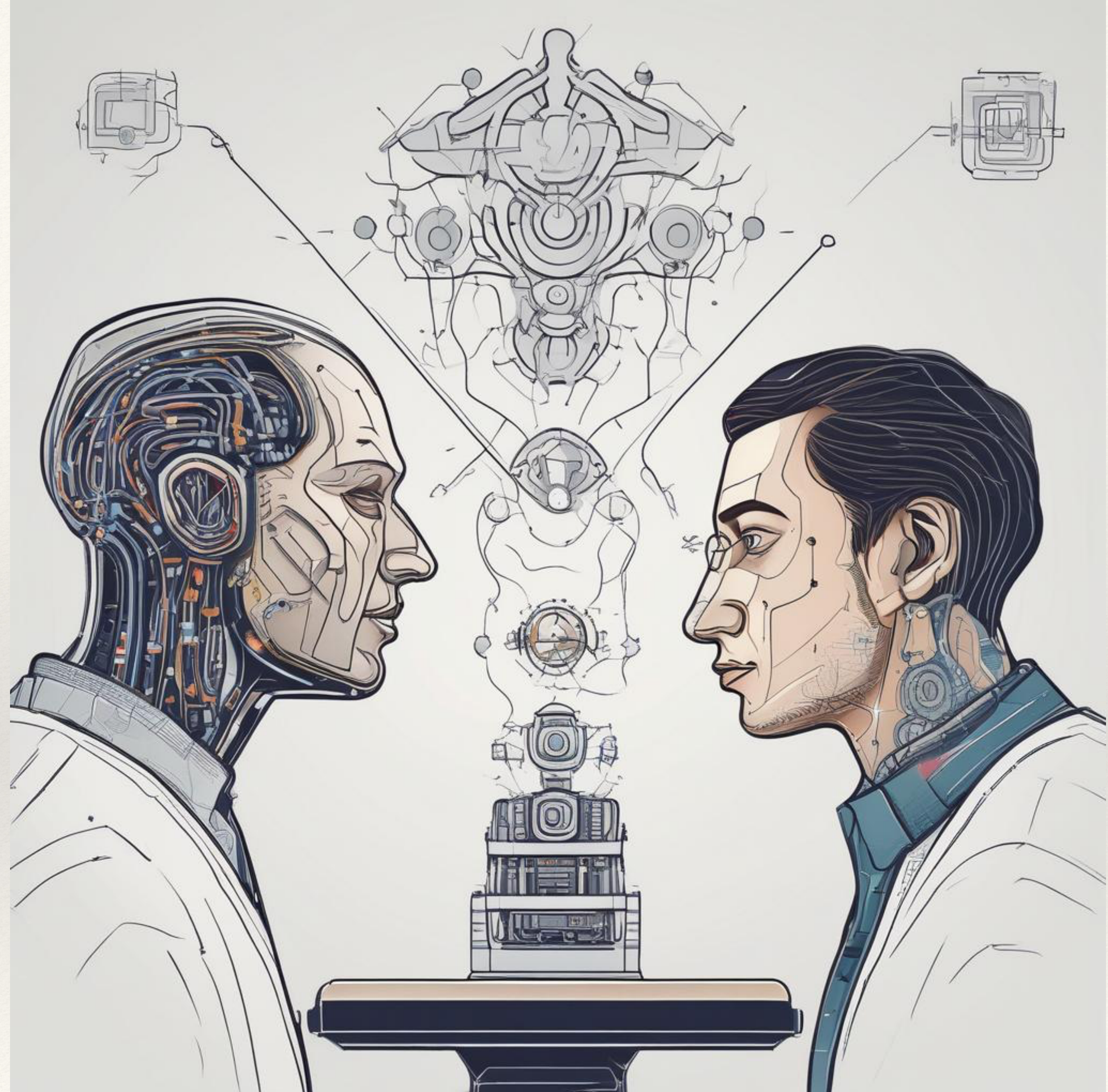- *Focus on synergy, creativity, and ethical decision-making.*

Collaborative Intelligence
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Essential Elements

- *Data Literacy and Analysis*

- *Human-Computer Interaction (HCI)*

- *AI Ethics and Societal Impact*

- *Critical Thinking and Problem-Solving*

- *Emotional Intelligence and Communication.*

To effectively collaborate with AI, our students need a diverse set of skills.

Human-Computer Interaction (HCI)

Data Literacy and Analysis

ปัญญาประสาน

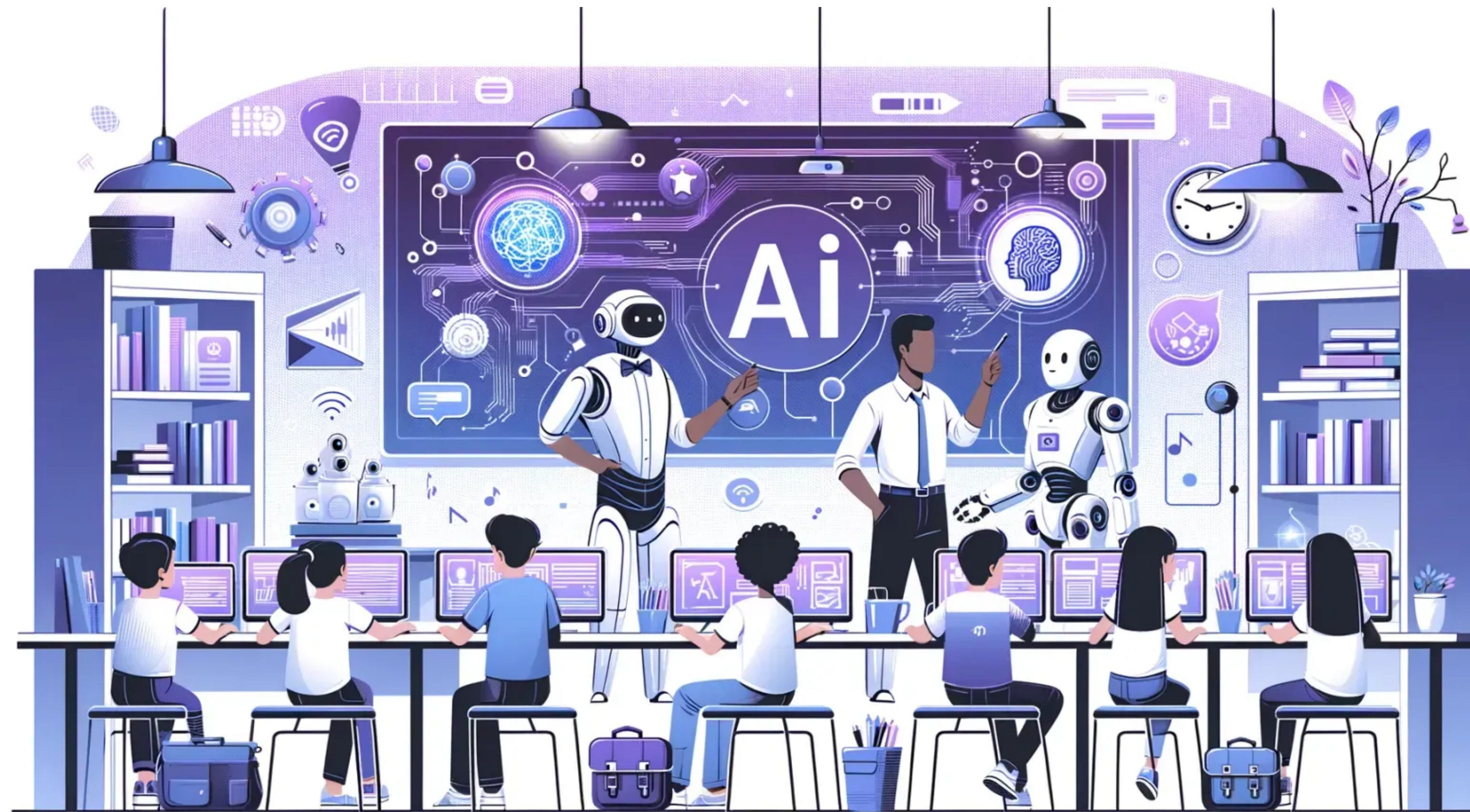AI Ethics and Societal Impact

Emotional Intelligence and Communication

Critical Thinking and Problem-Solving

Collaborative Intelligence
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Practical Applications in the Classroom

- *AI-powered chatbots for student support.*

- *Adaptive learning platforms that adjust to student progress.*

- *AI-driven simulations for experiential learning.*

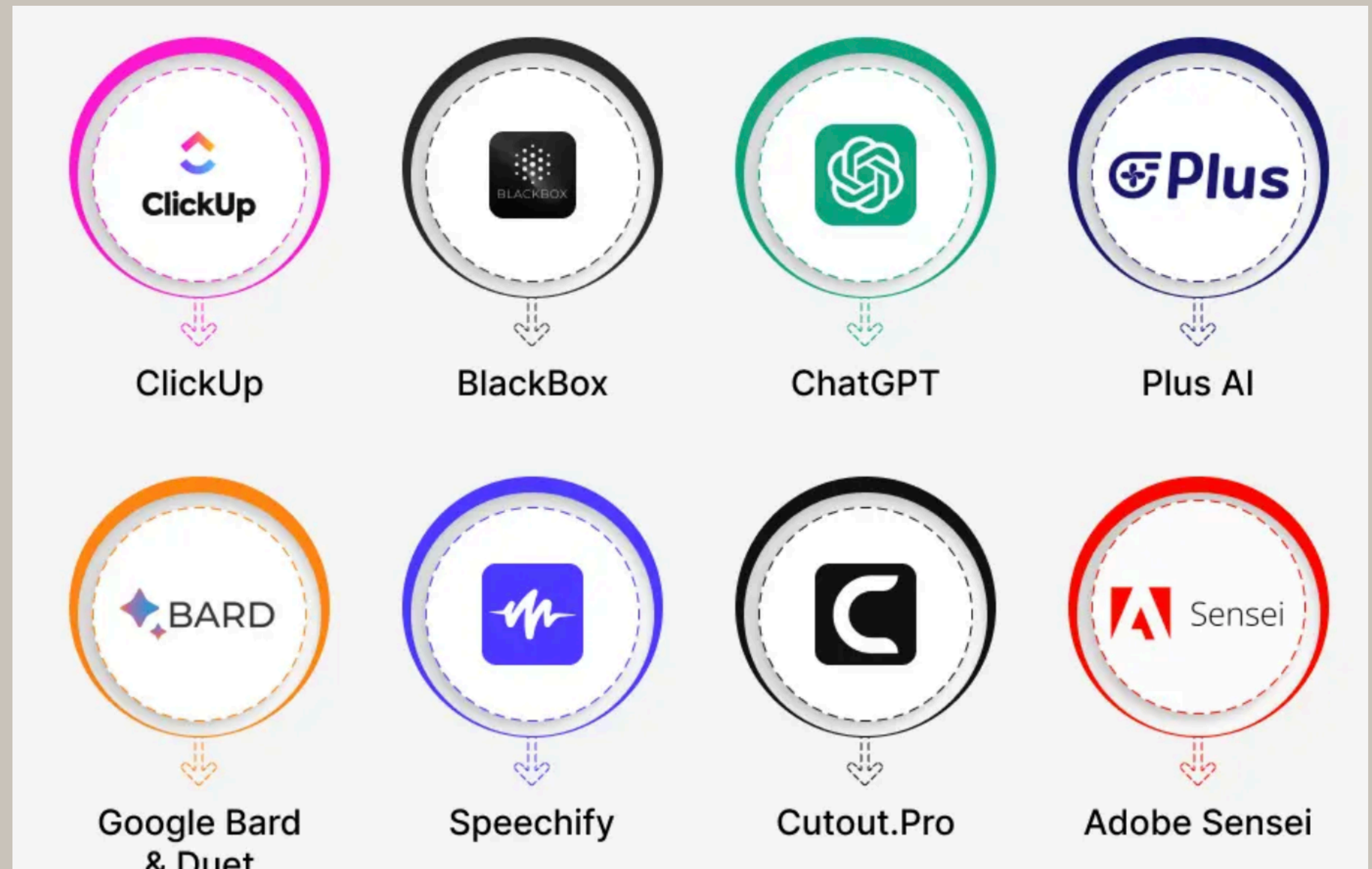- *AI-assisted grading and feedback tools.*

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Transforming the Educational Experience

- *Personalized learning pathways for students.*

- *AI-powered feedback and assessment.*

- *Enhanced research and data analysis capabilities.*

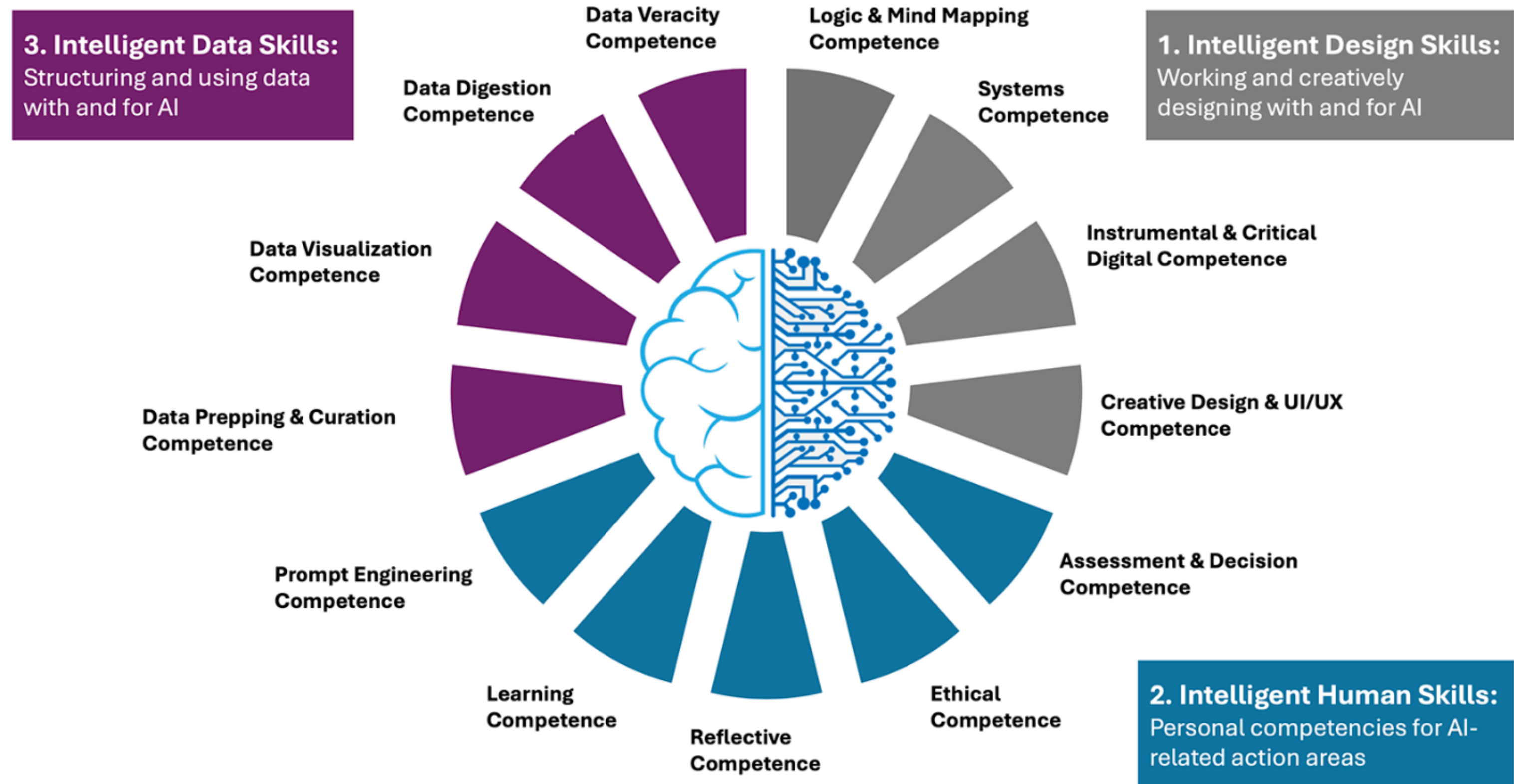- *Streamlined administrative tasks.*

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Cultivating "ปัญญาประสาน (Panya Prasarn)" Competency

- *Interdisciplinary curriculum development.*

- *Experiential learning opportunities (AI labs, projects).*

- *Emphasis on AI ethics and responsible innovation.*

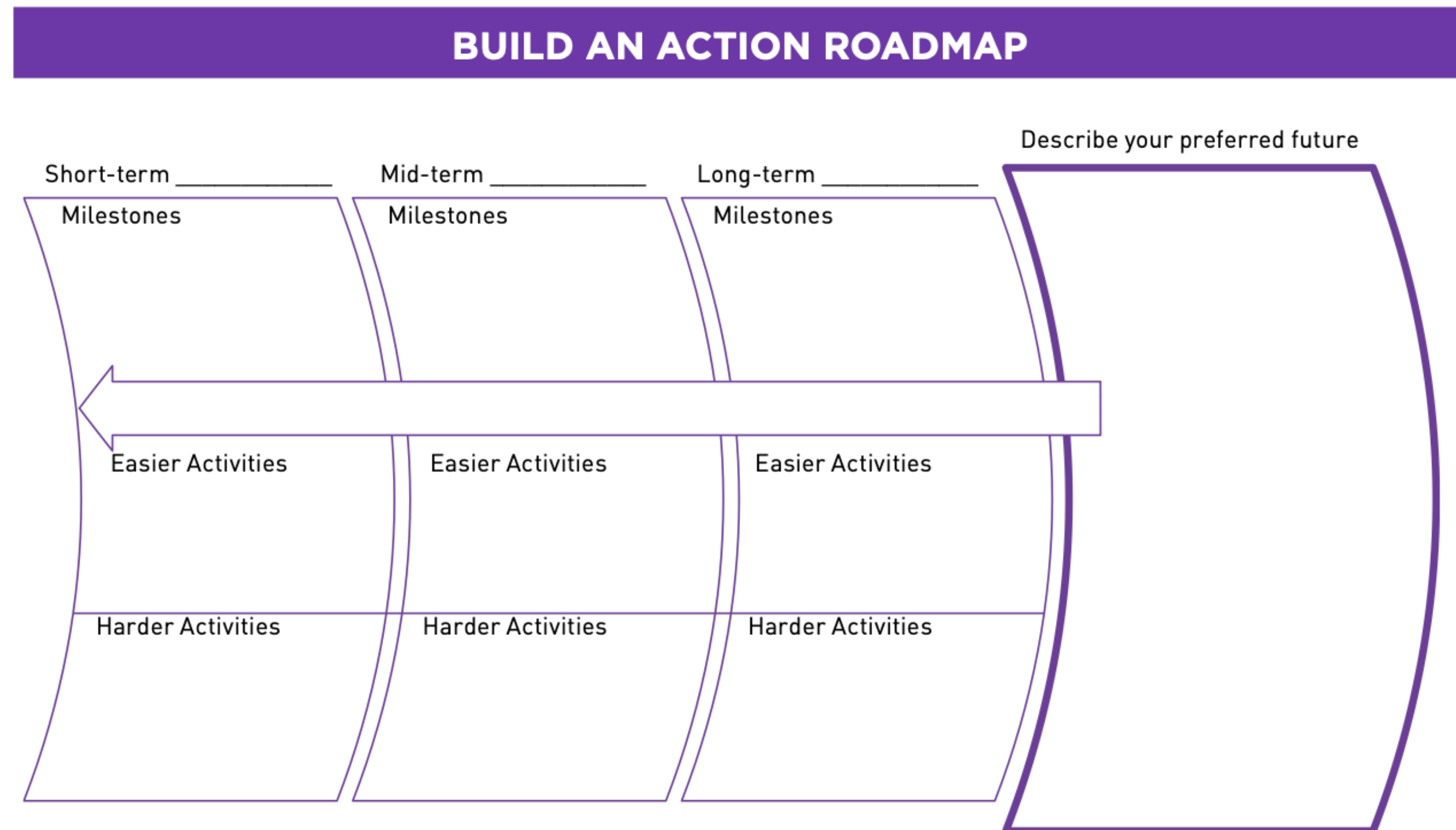- *Faculty development in AI literacy and collaborative teaching.*

3. Intelligent Data Skills: Structuring and using data with and for AI

Data Veracity Competence

Data Digestion Competence

Data Visualization Competence

Data Prepping & Curation Competence

Logic & Mind Mapping Competence

Systems Competence

1. Intelligent Design Skills: Working and creatively designing with and for AI

Instrumental & Critical Digital Competence

Creative Design & UI/UX Competence

Assessment & Decision Competence

Prompt Engineering Competence

Learning Competence

Reflective Competence

Ethical Competence

2. Intelligent Human Skills: Personal competencies for AI-related action areas

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University Action Plan

- *Integrate AI and collaborative learning into all programs.*

- *Establish AI-focused research and innovation centers.*

- *Foster industry partnerships for AI-related projects.*

- *Develop ethical guidelines for AI use in education.*

BUILD AN ACTION ROADMAP

Short-term _____
Milestones

Mid-term _____
Milestones

Long-term _____
Milestones

Describe your preferred future

Easier Activities

Easier Activities

Easier Activities

Harder Activities

Harder Activities

Harder Activities

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Measuring Success

- *Percentage of courses incorporating AI content.*

- *Number of students participating in AI-related projects.*

- *Graduate survey data on AI competency.*

- *Employer feedback on graduate readiness.*

คลังทักษะ
The SkillWallet
: Your Digital Learning Passport

- *A dynamic, digital record of individual learning outcomes.*

- *Captures granular skills, evidence, and context.*

- *Empowers students to showcase their competencies effectively.*

- *Facilitates lifelong learning and career development.*

Learner Credential Wallet Specification

Editors: Kim Hamilton Duffy, Ulrich Gallersdörfer, James Goodell, Matt Lisle, Brandon

Muramatsu, Philipp Schmidt

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คลังทักษะ
The SkillWallet
Beyond Traditional Transcripts: Detailed Outcomes

- *Specific learning outcomes: e.g., "Developed a machine learning model for fraud detection."*

- *Evidence and artifacts: links to portfolios, GitHub, digital badges.*

- *Contextual information: course details, project descriptions, assessment results.*

- *Skill dependencies and Learning pathways.*

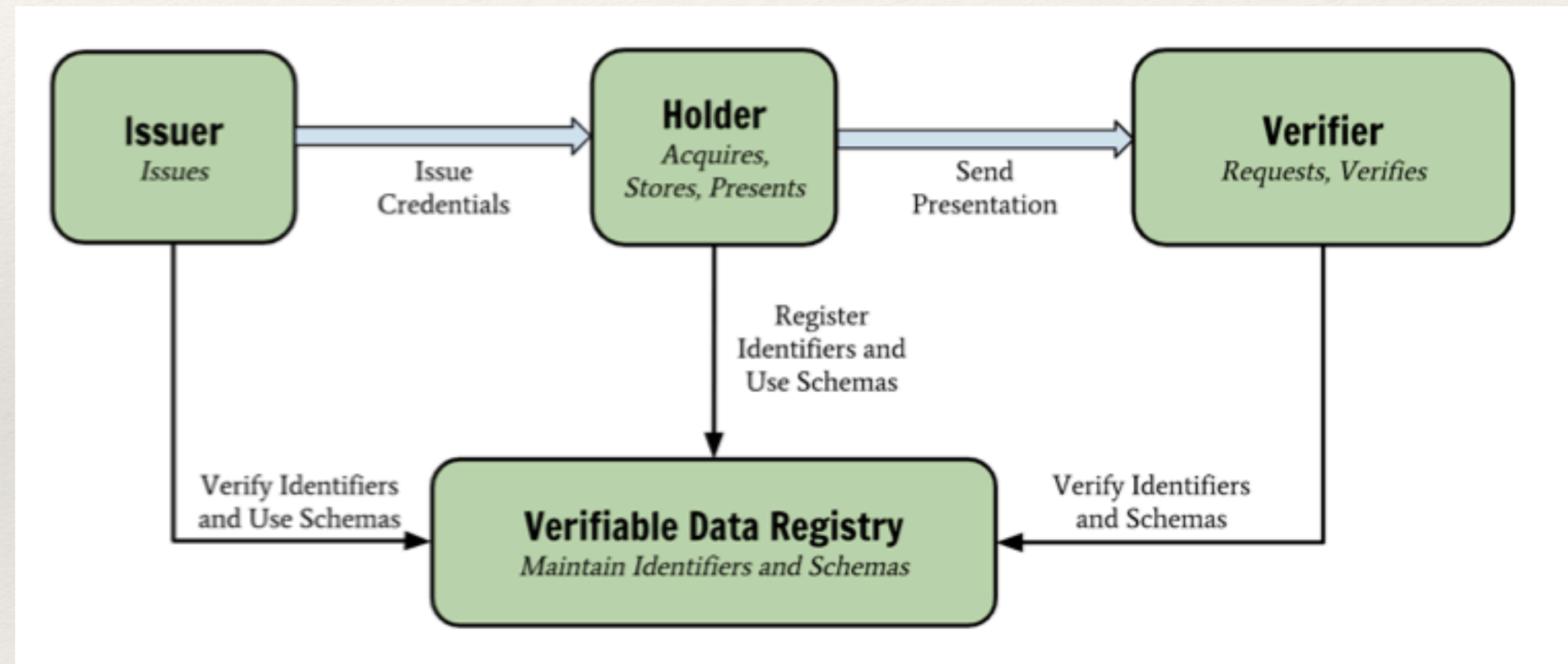| Term	Definition
Credential	A set of one or more claims made by an issuer.
Issuer	The entity asserting claims.
Subject	A thing about which claims are made. In this document, the subject is the student (or learner) possessing the wallet
Identifier	A way to refer unambiguously to an entity, used here in the same sense as in the VC data model.[2] The subject of a credential is identified with the `credentialSubject.id` property in a VC. The identifier data type in the VC data model is a Uniform Resource Identifier (URI).
Verifiable Credential (VC)	Tamper-evident credential with cryptographically verifiable authorship.
Presentation	Data derived from one or more VCs, issued by one or more issuers, that is shared with a specific relying party by the holder.

https://digitalcredentials.mit.edu/docs/Learner-Credential-Wallet-Specification-May-2021.pdf

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Building Trust: Verification and Validation

- *Instructor verification of skills and outcomes.*

- *Peer validation and feedback.*

- *Integration with external validation platforms.*

- *Blockchain technology integration for immutability.*

Learner Credential Wallet Specification

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Muramatsu, Philipp Schmidt.   Copyright MIT, May 2021

What is a micro-credential?

Non-college-credit training focused
on a single skill or cluster of skills

Study, practice, and improve
upon a specific skill quickly

Signals the completion
of a skills-based learning experience

Digital Badges
One type of micro-credential offered by the Alamo Colleges

Two types of learning experiences
that result in a digital badge at our Alamo Colleges

- **In a micro-course**
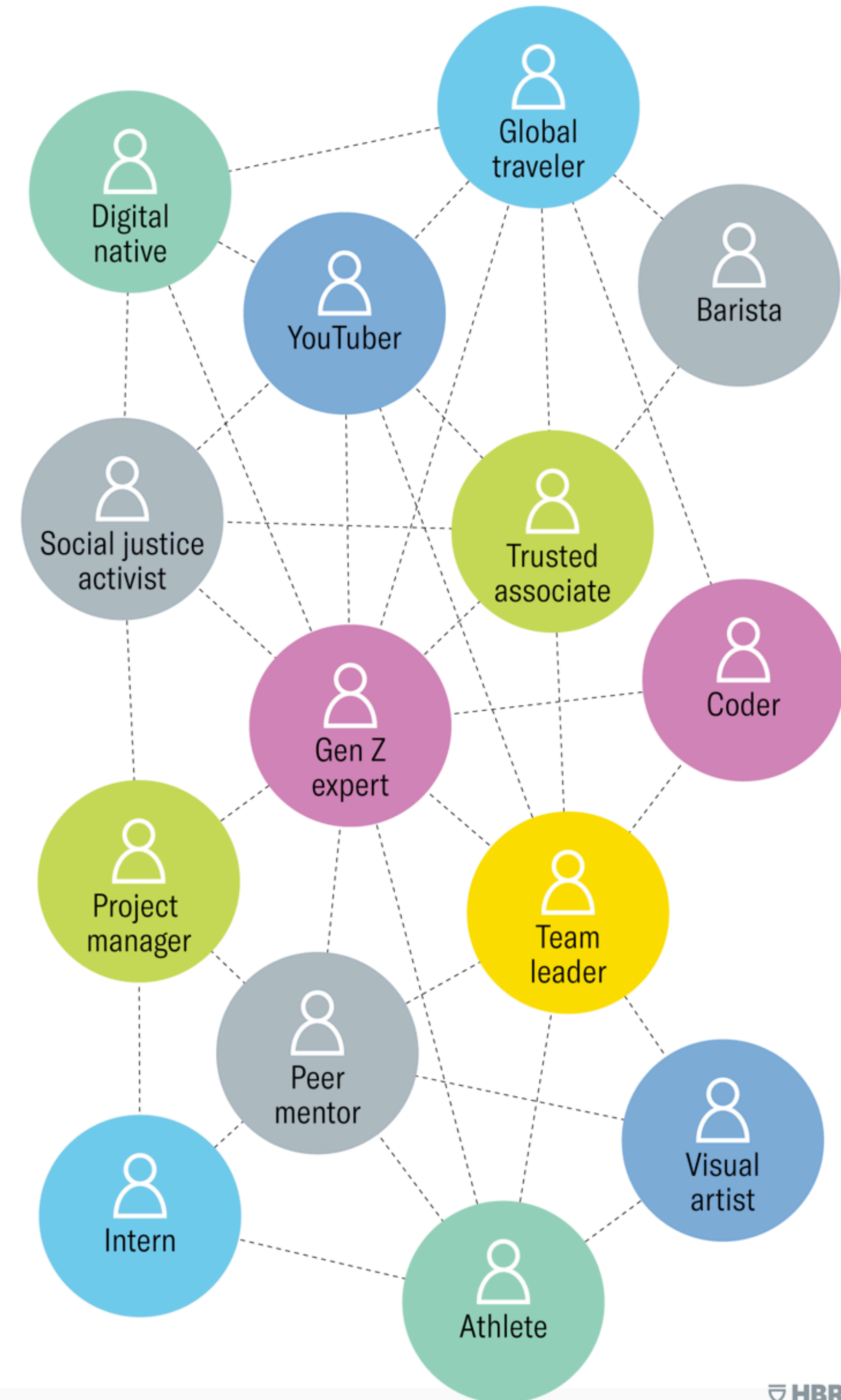 Online, on-demand training
- **10–15 hours**
  to complete

- **Within a college-credit course**
- **Same length as course**
  depending on requirements

คลังทักษะ
The SkillWallet
Benefits for All: Students, Educators, and Employers

- *Students: Enhanced portfolio and career opportunities.*

- *Educators: Improved assessment and curriculum development.*

- *Employers: Streamlined talent acquisition and skill validation.*

- *Lifelong learning tracking.*

Talent Acquisition vs Recruitment
The Differences

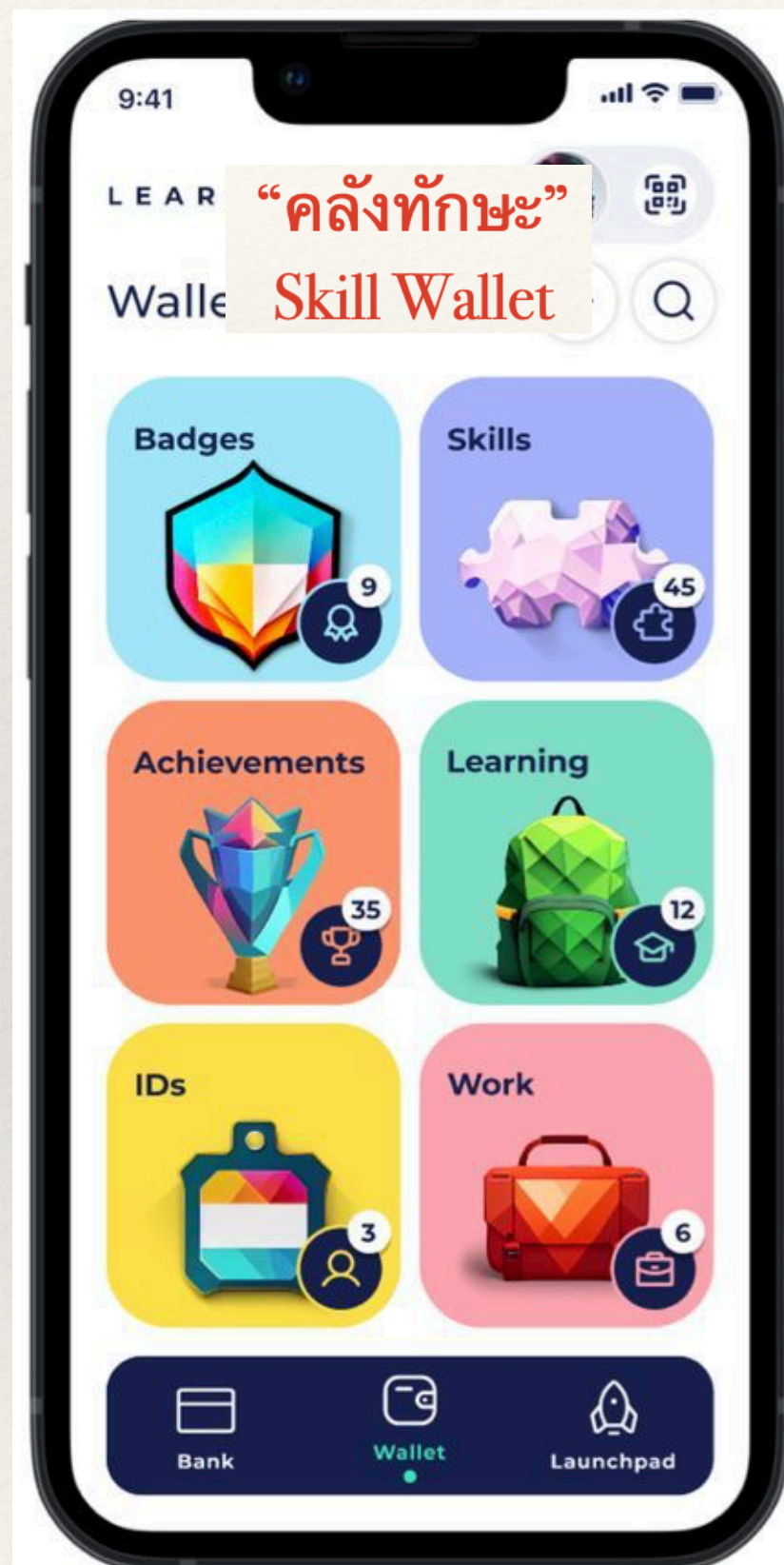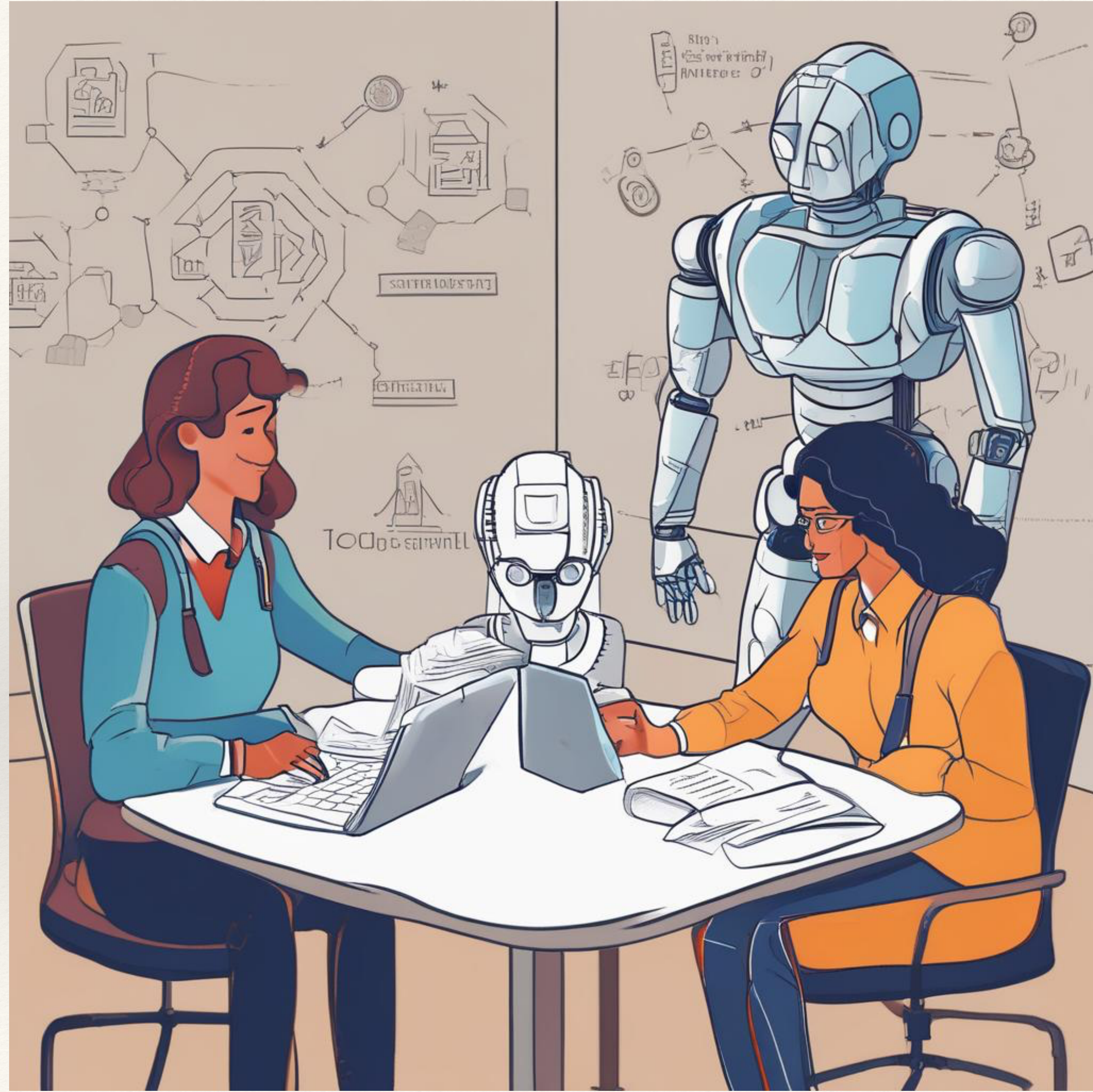| Recruitment	VS	Talent Acquisition
Short-term /emphasis on filling immediate vacancies/		**Long-term** /talent acquisition is an ongoing strategy by anticipating future staffing requirements based on business needs/
Regular recruitment and volume hiring, usually for entry-level roles		**Focuses on the strategic side of hard to fill positions**
Can be deployed immediately /recruiters always hire for positions that are always needed, so recruiting tactics are deployed on the get-go/		**Employs more time and planning** /TA specialists study the company's different roles and departments, as well as the skills and experience needed to succeed in each area/

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"คลังทักษะ"
Skill Wallet

Embracing the Future of Education

- *Let's collaborate to integrate AI into our teaching and learning practices.*

- *Share best practices and innovative approaches.*

- *Prepare our students for a future of human-AI collaboration.*

- *Facilitate talent acquisition and skill validation.*

รองศาสตราจารย์ ดร. บวร ปภัสราทร

ผู้อำนวยการ สถาบันคลังสมองของชาติ

ประธานอนุกรรมการส่งเสริมการจัดการศึกษาตลอดชีวิต และคลังหน่วยกิตกลาง

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รางวัลเสมาคุณูปการ กระทรวงศึกษาธิการ

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บทความก้าวไกลวิสัยทัศน์ กรุงเทพธุรกิจ https://www.bangkokbiznews.com/tags/บวร%๒๐ปภัสราทร