



What does it take to be (generative) AI-literate?

From frameworks to frameworks that work



Image generated with AI

**The challenge is two-fold:
from defining AI literacy to making it work in education systems**



Agenda

- ▶ **The international landscape of AI literacy frameworks**
- ▶ From frameworks to sensemaking and practice
- ▶ The Luxembourg approach to (Gen)AI literacy
- ▶ Key takeaways



AI literacy

GenAI literacy

Data literacy



Media literacy

Social media literacy

Digital literacy

Information literacy

**The fragmentation issue:
fragmented discussions, but interconnected realities**



Competence

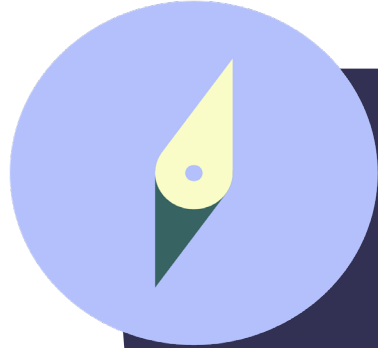
Skills



Literacy

Capability

**The ambiguity issue:
different labels, but converging concepts**



Understanding AI systems
Evaluating outputs and processes
Using and creating with AI
Acting ethically and responsibly
**Exercising human judgement in human–AI
interaction**

**And yet, there is strong convergence.
The issue is not disagreement – but translation.**



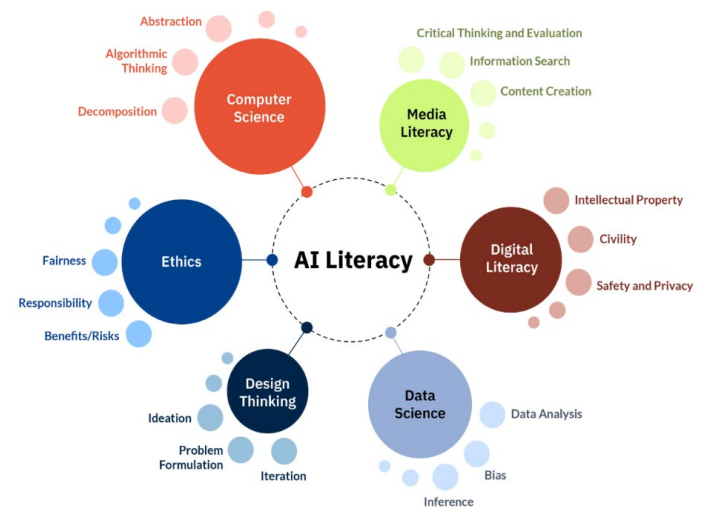
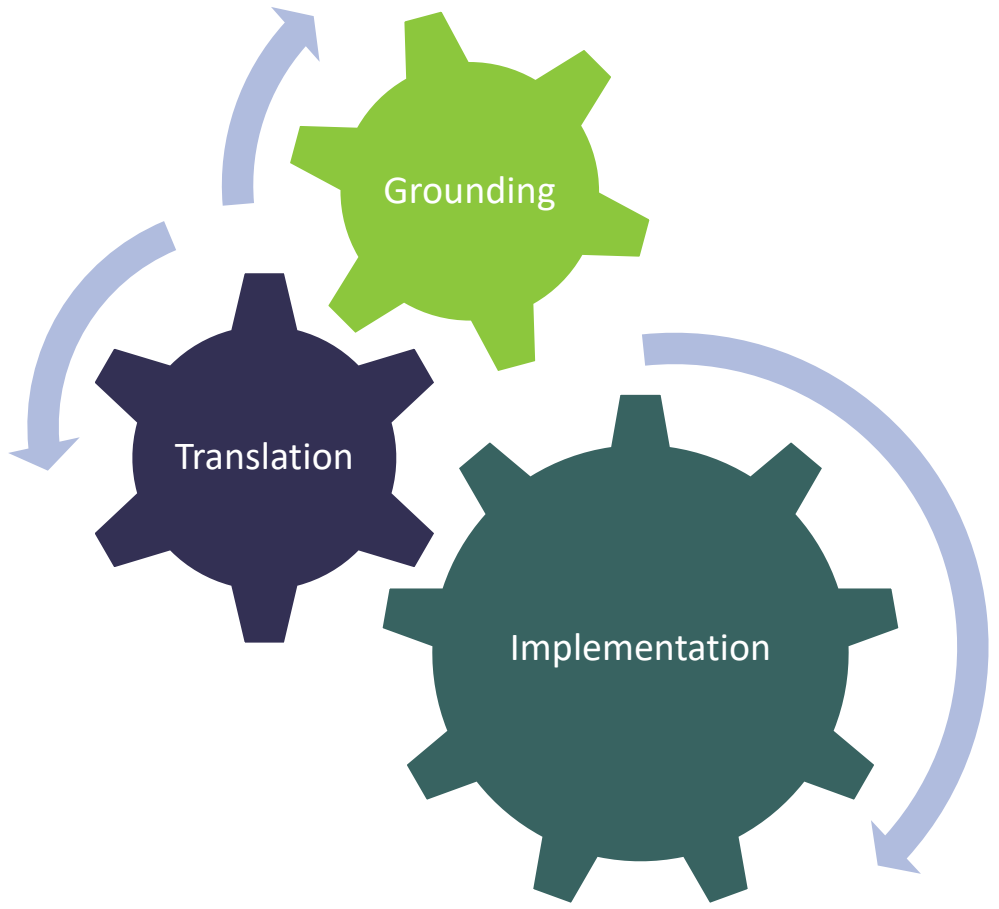
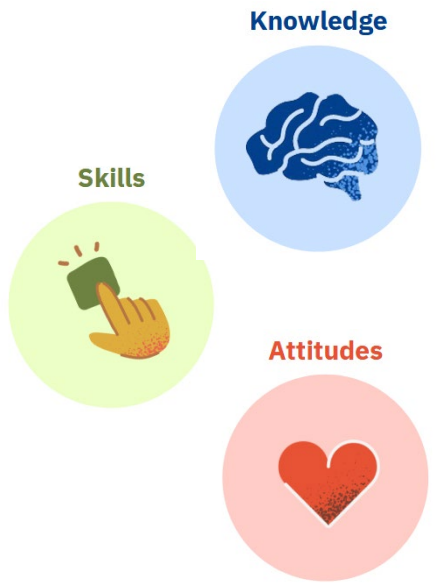
Agenda

- ▶ The international landscape of AI literacy frameworks
- ▶ **From frameworks to sensemaking and practice**
- ▶ The Luxembourg approach to (Gen)AI literacy
- ▶ Key takeaways



Image generated with AI

**The challenge is not only to define AI literacy
– but to integrate it into practice through sensemaking**



Interdisciplinary
Integrate AI literacy into a wide range of subjects and educational settings.

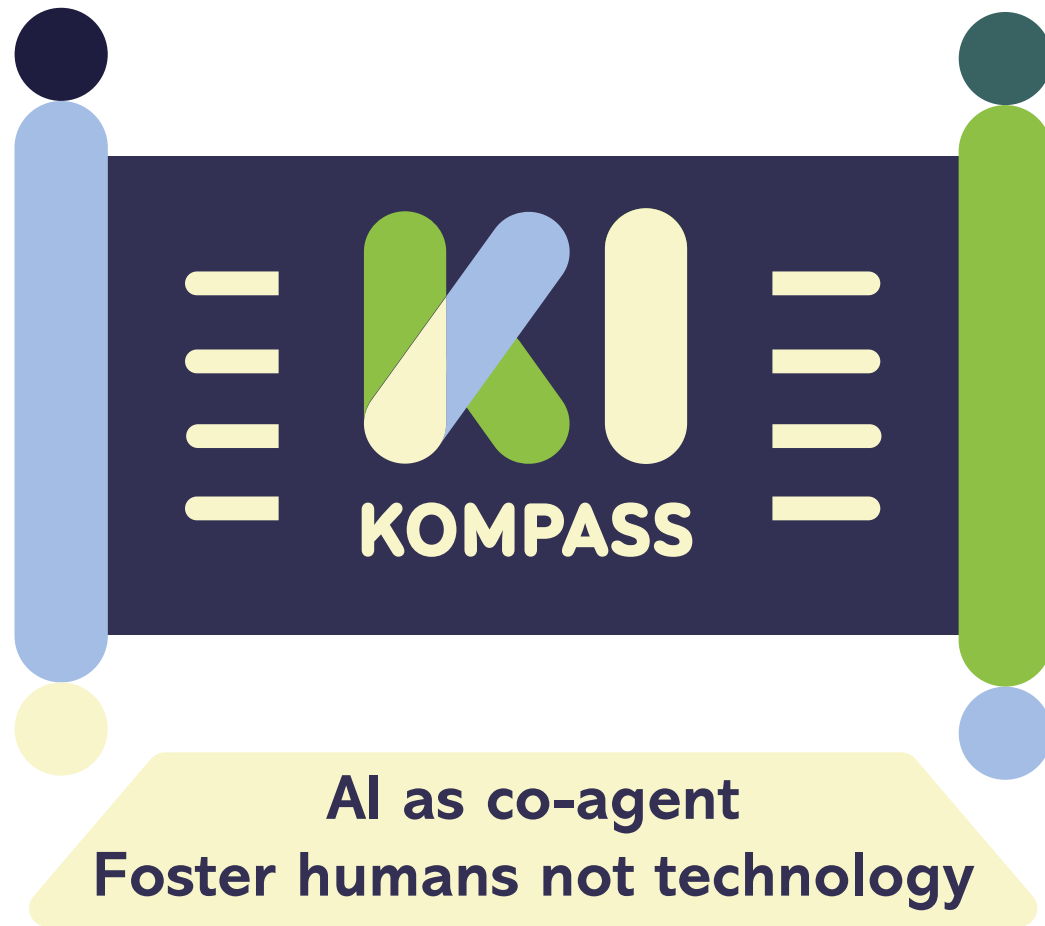
**Sensemaking enables action:
turning frameworks into frameworks that work**

Source: Empowering Learners for the Age of AI - Review Draft (May 2025)



Agenda

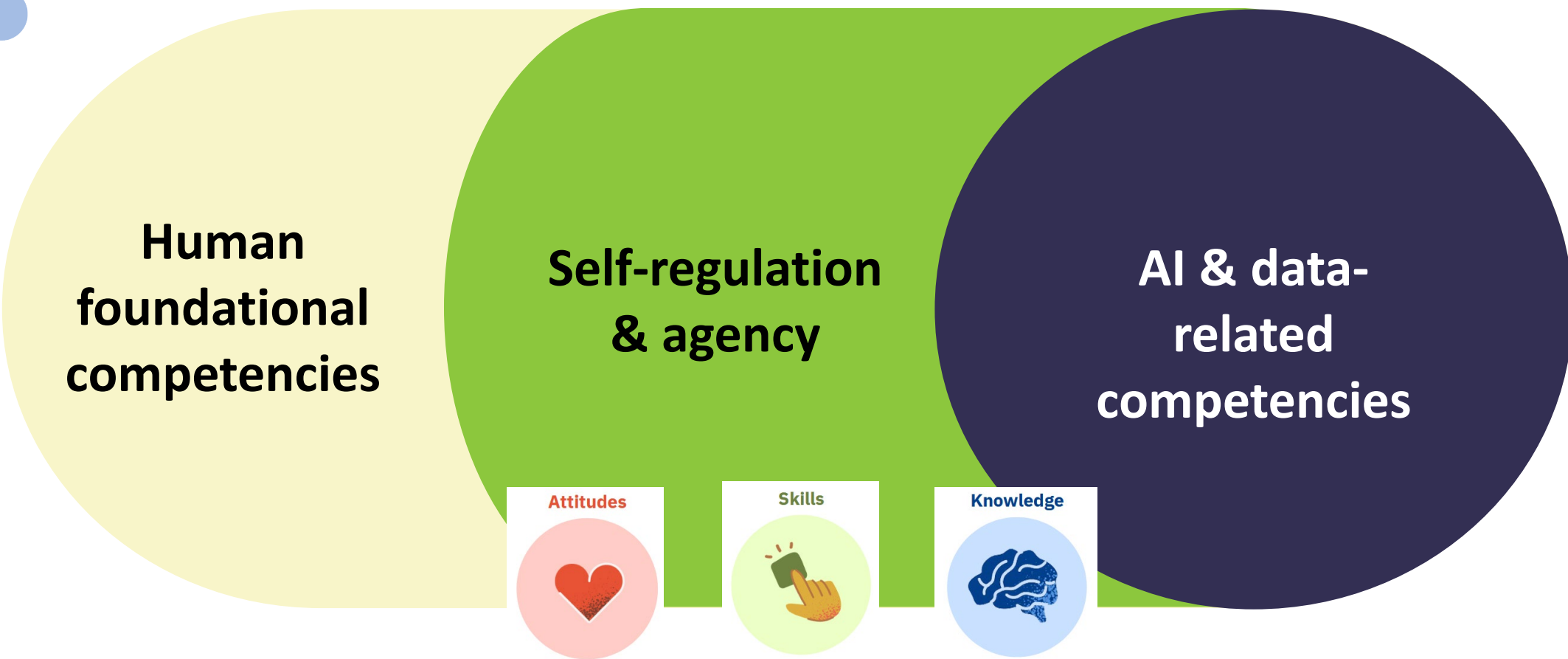
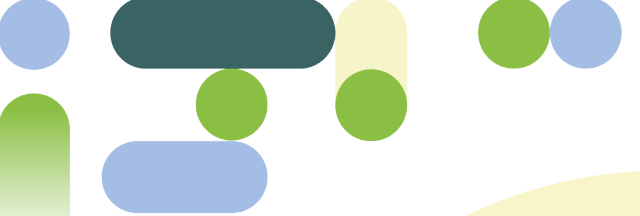
- ▶ The international landscape of AI literacy frameworks
- ▶ From frameworks to sensemaking and practice
- ▶ **The Luxembourg approach to (Gen)AI literacy**
- ▶ Key takeaways



Our goal is to improve the quality of learning processes without undermining cognitive, social or emotional development



AI literacy is about judgement, not just usage



**Human
foundational
competencies**

**Self-regulation
& agency**

**AI & data-
related
competencies**

Attitudes



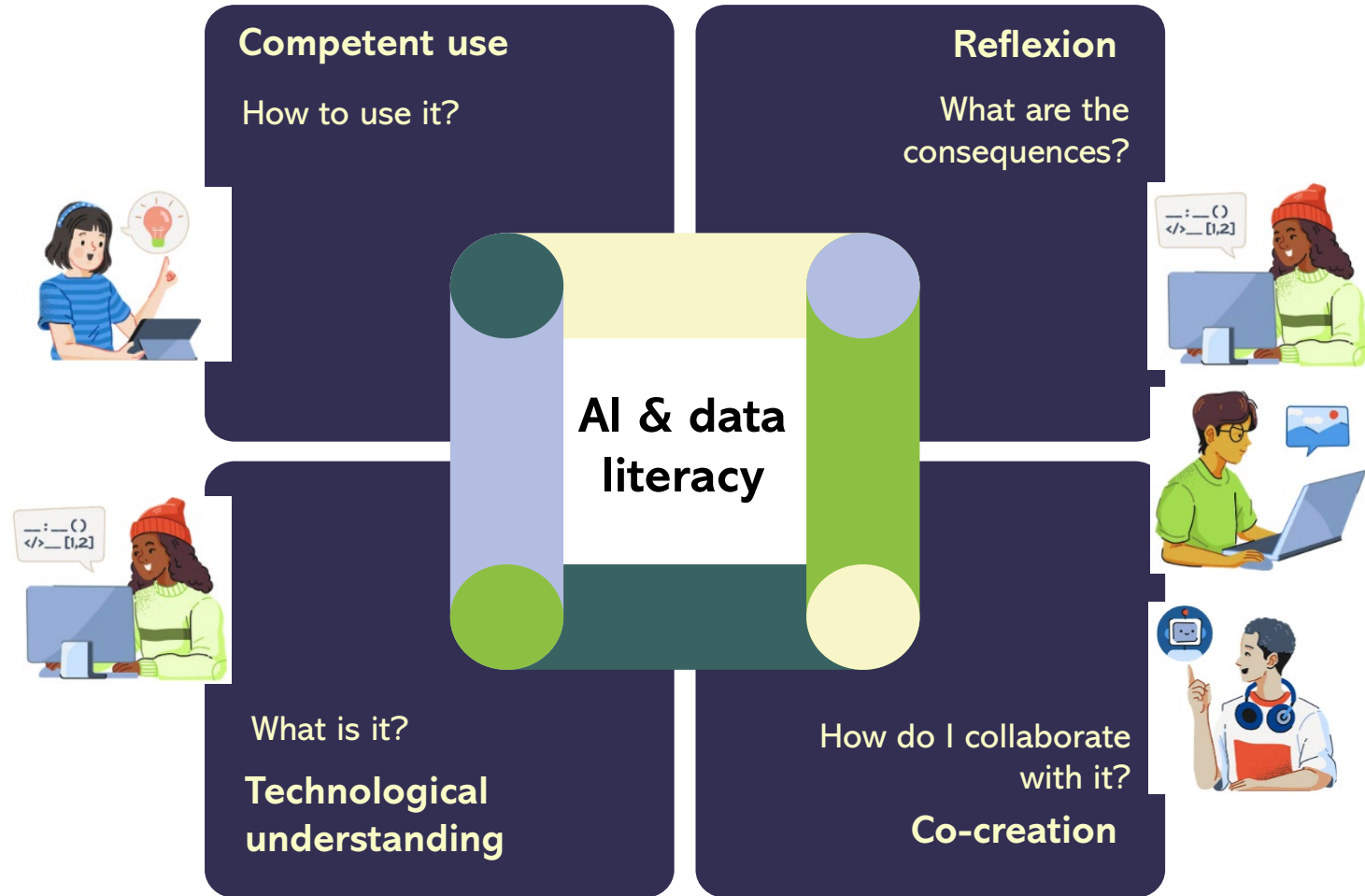
Skills



Knowledge



AI literacy builds on three interrelated layers



**AI literacy builds on data literacy
– both must be developed together**



DALI4US DATA LITERACY FOR UPPER PRIMARY SCHOOLS

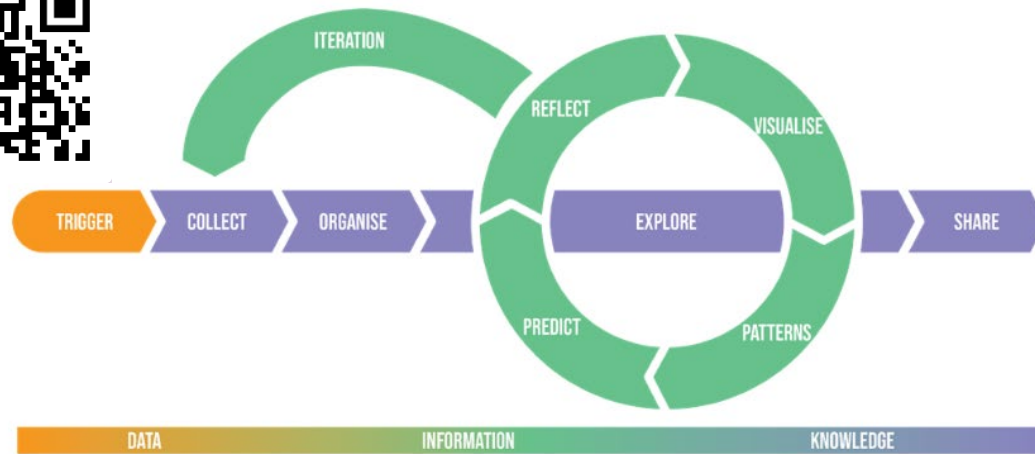


AIDL DATA LITERACY IN THE AGE OF AI FOR EDUCATION



HOW?

DATA EXPLORATION FRAMEWORK LEARNING THROUGH REAL-WORLD INQUIRY AND INTERPRETATION



WHAT IS DATA LITERACY IN THE AGE OF GenAI?

Data literacy in the context of the AI-DL project ensures the ability to:

- ✓ Understand how data is generated, examined, explored, interpreted, visualised, employed, and utilised by Generative AI
- ✓ Critically reflect on and evaluate data-driven outputs to utilise them creatively, effectively, and thoughtfully in educational activities

GenAI is utilised as a trigger to develop these knowledge, skills and attitudes in meaningful classroom contexts.

Area A:
Foundations

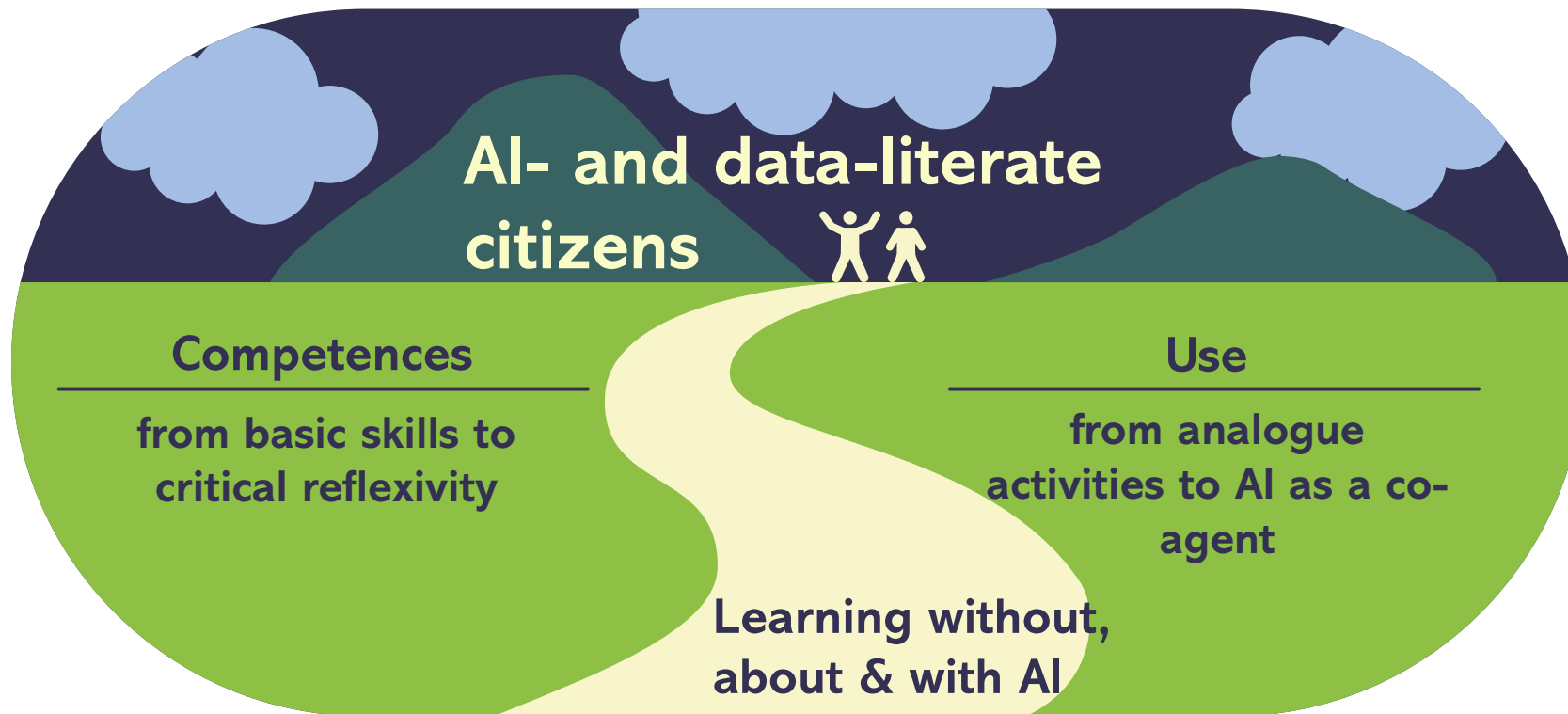
Area B:
Critical
evaluation

Area C:
Human-GenAI
collaboration

Area D:
Communication
& civic
participation



KOMPASS



**Becoming AI- and data literate is a developmental journey
- from understanding to responsible action**

ki-kompass.lu (DE/FR/EN)



Strategy

- Strategy
- Results from the AI Survey 2025
- Projects
- Scientific Support

AI in Practice: Ideas & Tools

- AI Tools
- Glossary
- Practical Materials

Books Class workshops Lesson ideas Projects

Teaching and learning materials Themenblätter Topic sheets Videos

Exchange and Training

- Training
- Communities of Practice
- Support for School Development
- Support for School Administrations

Contact

- Contact Address
- FAQ
- Contact Form
- News



Agenda

- ▶ The international landscape of AI literacy frameworks
- ▶ From frameworks to sensemaking and practice
- ▶ The Luxembourg approach to (Gen)AI literacy
- ▶ **Key takeaways**



AI literacy is about judgement, not just use

Being AI literate means being able to make informed, responsible decisions about when, how, and why (not) to use AI.

AI literacy builds on human competencies

AI literacy does not replace foundational human competencies, it depends on them: critical thinking, creativity, communication, and the ability to take responsibility.

AI literacy includes data literacy

Understanding AI requires understanding data — how it is generated, used, and shapes outcomes.

From frameworks to frameworks that work