

teachtorch

AI-native infrastructure for learning

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Building
your own
capability
infrastructure



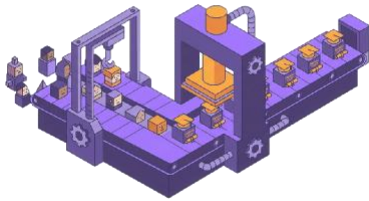
Knowledge + Skill → Capability

AI accelerates knowledge. AI automates skill. Capability is what your infrastructure

HUMAN CAPITAL



HUMAN CAPABILITY



KNOWLEDGE

"Knowing what."

The body of facts, principles, theories, and practices related to a field.



SKILL

"Applying knowledge."

The ability to carry out processes and use knowledge to achieve results.



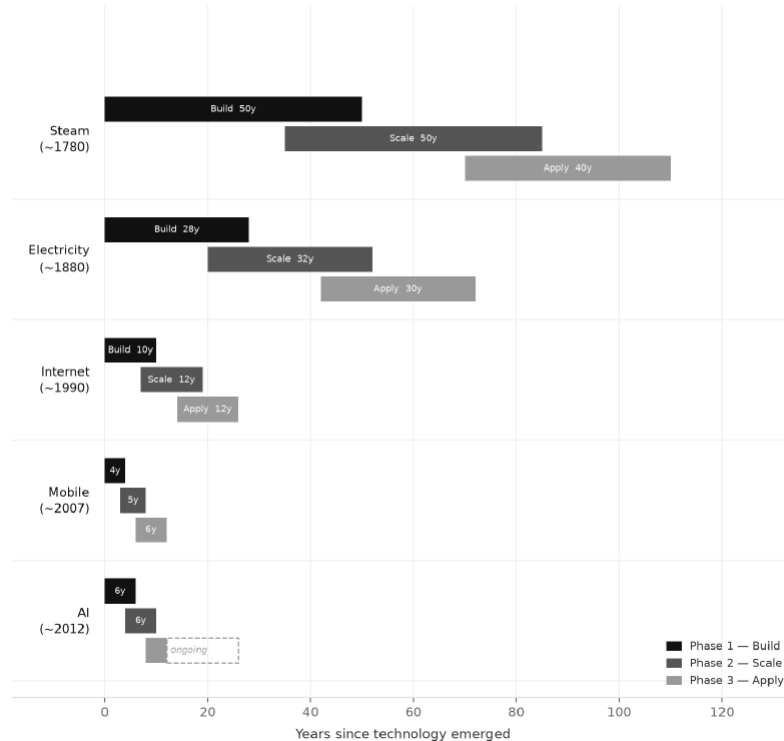
CAPABILITY

Capability is the sustainable infrastructure for:
absorb new technology,
adapt as the domain shifts,
sustain strategic autonomy
and resilience

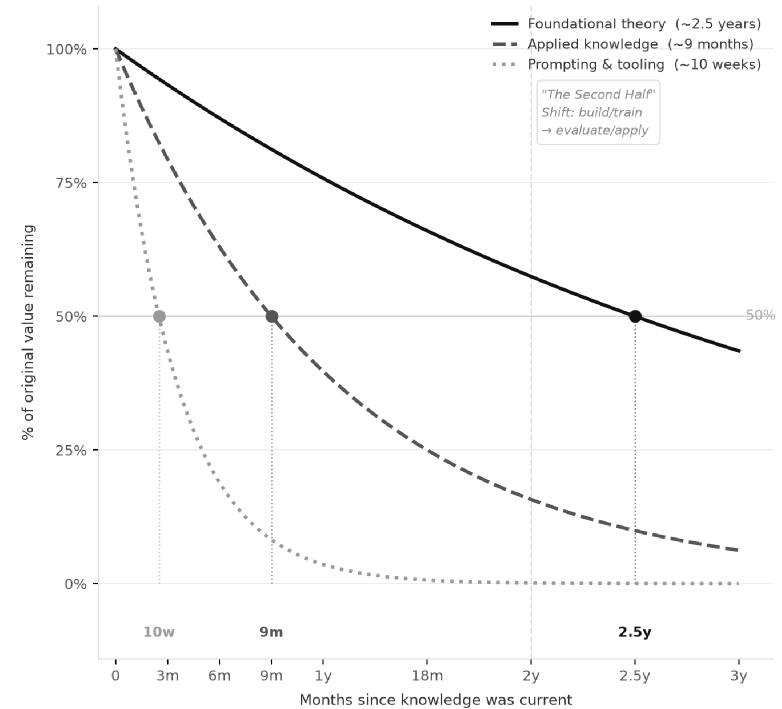
shift: human capital → human capability

technology half-life significantly shortened

120 years → 12 years.
The same journey, ten times faster.



The Shrinking Half-Life of AI Knowledge Not one curve — three, at different speeds.



where do
human capabilities live



Individuals



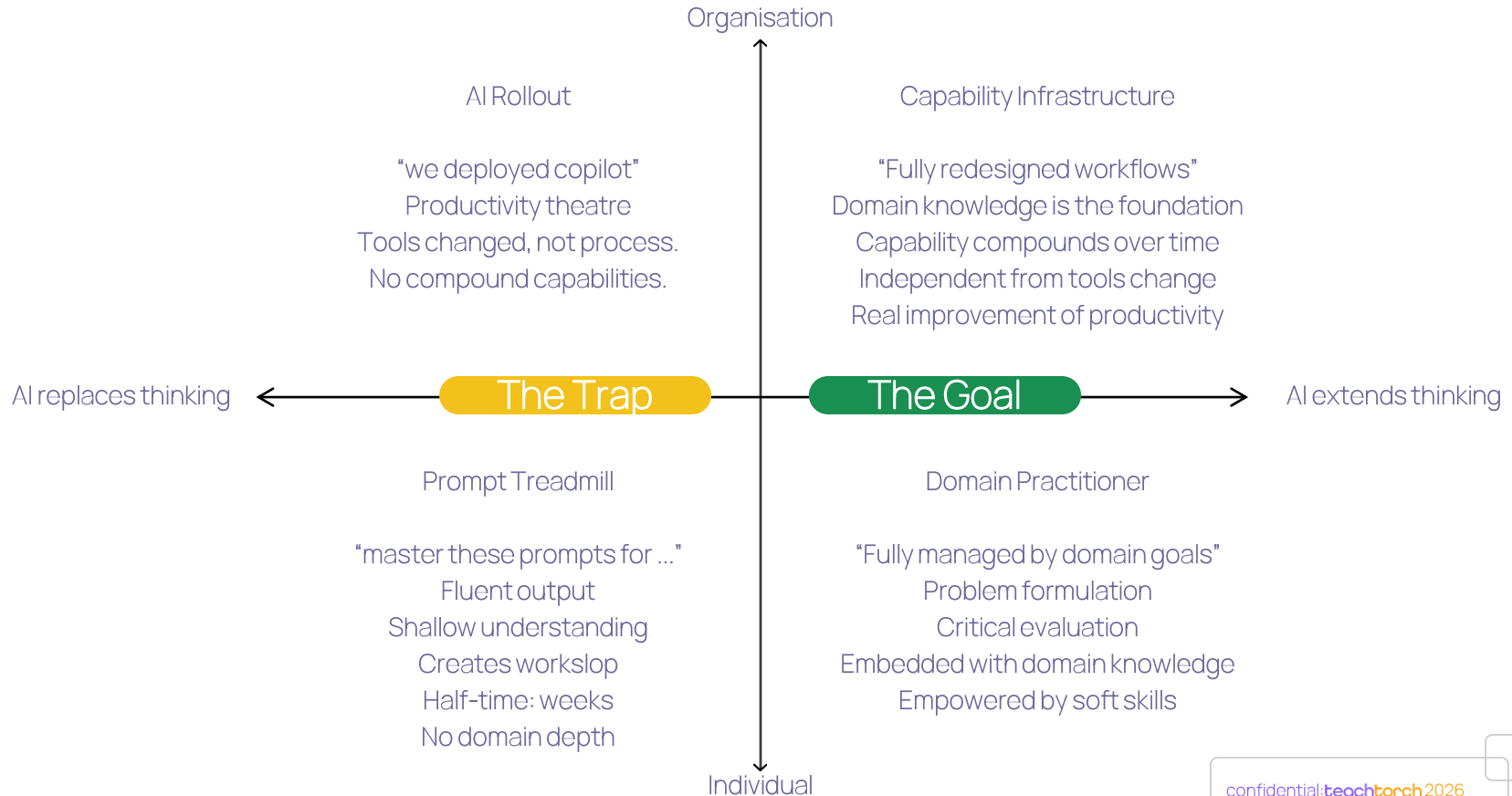
Organisations



Eco-systems &
Partners

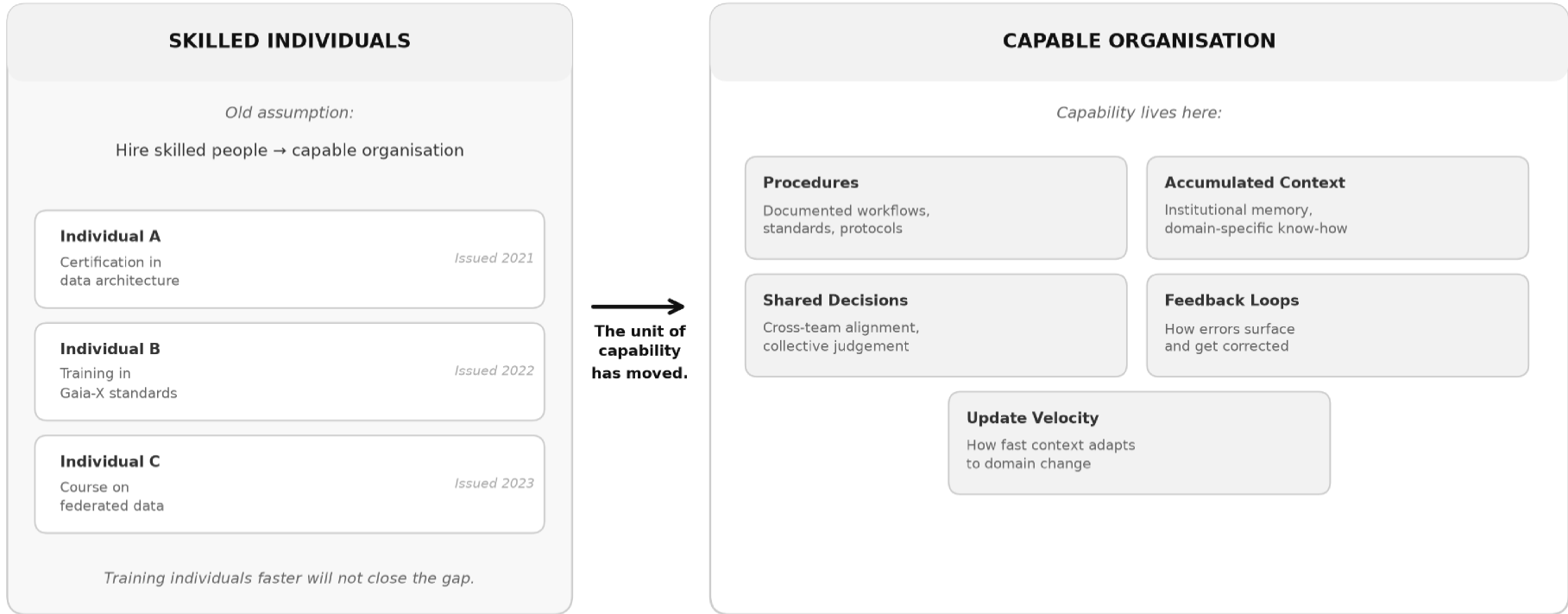
Avoid Skills Trap in Adoption

domain grounded capability enables true technological adoption



Individual Skill to Organisational Capability

Training individuals faster will not close the gap



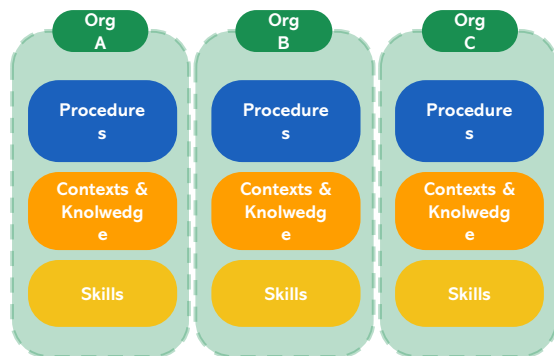
Capability is not the sum of individual skills. It is what the organisation does with them together.

From Organisational to Ecosystem Capability

Training individuals faster will not close the gap

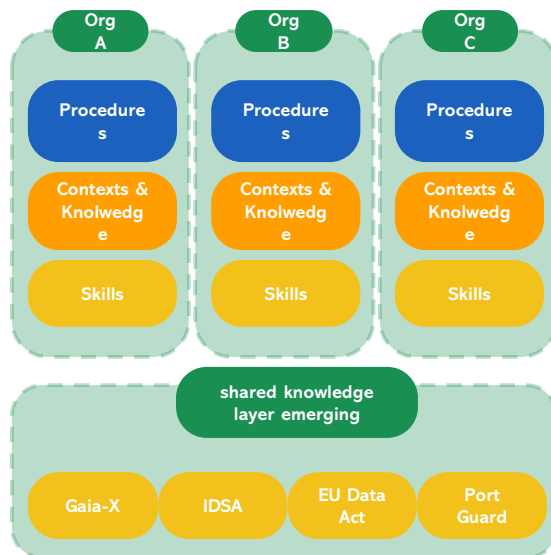
Traditional Model

Organisations build capabilities within



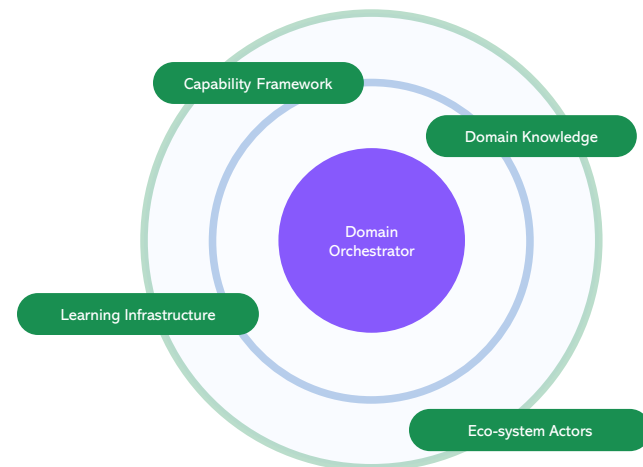
In Transition

Common Knowledge Structure created



New Reality

Shared Capability Model



From Individual to
Ecosystem

A Shared Capability Infrastructure

where individual expertise,
organisational capability,
and ecosystem knowledge
converge



AI accelerates knowledge.

AI automates skill.

**Capability is what every
organisation runs on.**

Architectural Principles

An integrated AI Infrastructure for building human capabilities



Grounded in
your verified
sources



Continuously
updated with
your domain



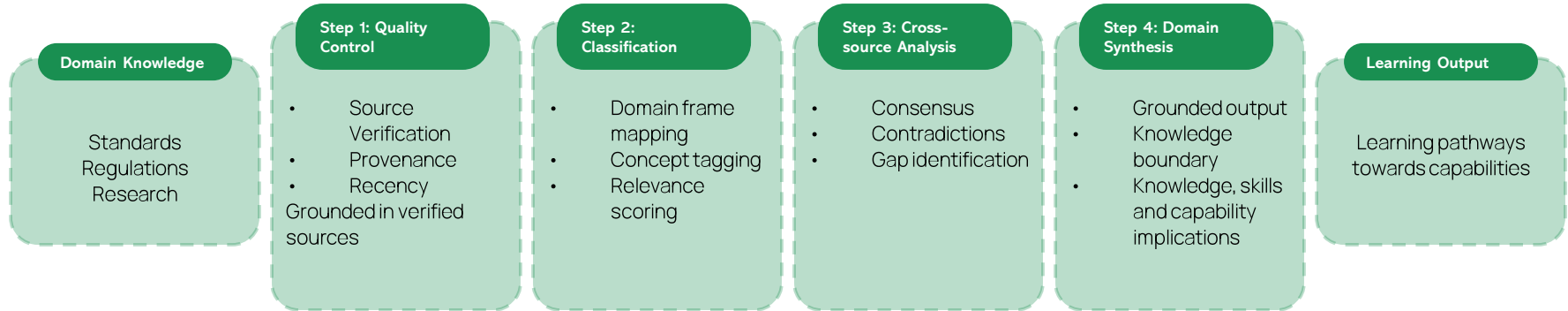
Sovereign by design



One engine across
three layers

Demo

Where the AI Architecture Meets the Domain



Persona1
Lena, 23
Aviation Graduate

Background	BSc Aviation & Logistics, final year
Goal	Enter drone operations / UAS coordination role
Current AI exposure	General tools (ChatGPT, search)
Domain knowledge	Foundational — regulatory landscape unfamiliar
Learning mode	Full programme, sequential
Time available	~6 months, part-time alongside studies

Module	Topic	Level	Capability Focus
M1	EU data sharing regulatory landscape	Foundational	Understand what governs AUS data
M2	Data space architecture (Gaia-X, IDSA, DSSC)	Foundational	Map the infrastructure landscape
M3	Trust, identity & encryption in federated environments	Intermediate	Apply security principles in context
M4	Interoperability & semantic standards for AUS	Intermediate	Evaluate cross-system data exchange
M5	Sovereign data architecture for AUS in critical infrastructure	Advanced	Design domain-specific solutions

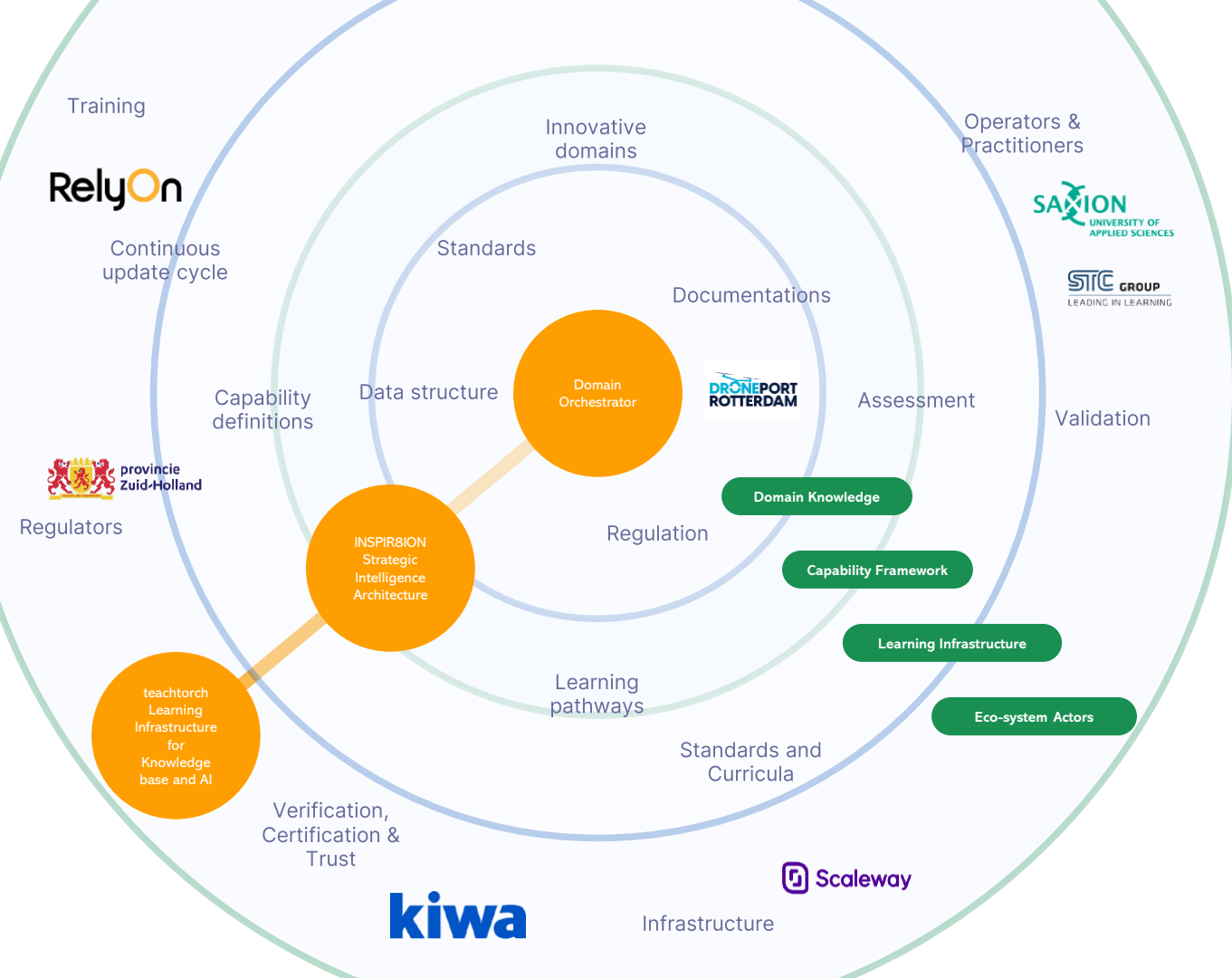
Persona 2

Marcus, 41

Data Steward

Background	data governance, semantic modeling, EU data compliance
Goal	extend data governance into federated, AUS-driven environments
Current AI exposure	Operational dashboards, some automation tools
Domain knowledge	strong in data governance, limited/average in federation and AUS-specific architecture
Learning mode	Entry from M3 — skips foundational theory
Time available	~3 months, intensive professional development

Module	Topic	Level	Capability Focus
M1	EU data sharing regulatory landscape	Foundational	Prior knowledge assumed — available as reference
M2	Data space architecture (Gaia-X, IDSA, DSSC)	Foundational	Prior knowledge assumed — available as reference
M3	Trust, identity & encryption in federated environments	Intermediate	Entry point — applied to port environment
M4	Interoperability & semantic standards for AUS	Intermediate	Cross-system exchange in DPR operational context
M5	Sovereign data architecture for AUS in critical infrastructure	Advanced	Design and lead implementation



Let's build an
Eco-system
together

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Thank You!

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Let's join forces
to build the
capability
infrastructure!