
Sweden
AI Factory

Sweden AI Factory

What is Sweden AI Factory ?

an introduction to our focus areas and our services

Dr. Ana Tanevska

Training Coordinator & Trustworthy AI Expert

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AI Factories
EuroHPC Joint Undertaking
VINNOVA Sweden's Innovation Agency
Swedish Research Council
NAISS
RI.SE
Co-funded by the European Union

AI Factories powering

Europe's future

AI Factories are part of the EuroHPC initiative to strengthen Europe's AI capabilities and drive innovation across industries and society.

A network of AI facilities across Europe

Access to compute, expertise, and support

Helping organisations develop and scale AI solutions

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EuroHPC Joint Undertaking

VINNOVA Sveriges innovationsmyndighet

Swedish Research Council



A strong national collaboration – part of the European AI ecosystem

FUNDED BY

EuroHPC
Joint Undertaking

VINNOVA
Sweden's Innovation Agency

Swedish
Research
Council

Co-funded by
the European Union

Sweden
AI Factory

Our offering



Compute & Infra

AI-optimised compute and data infrastructure



Expertise & Support

Hands-on guidance for AI development and scaling



Training & Knowledge

Training and workshops in AI and HPC

Trustworthy AI

Reliable, ethical and compliant AI

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From idea to impact

We help SMEs, startups, the public sector and researchers develop and deploy AI solutions. We combine world-class compute with expert support to turn ideas into real-world impact.

WHAT WE OFFER

Support
Hands-on guidance for AI development and scaling

Skills
Training and workshops in AI and HPC

Access
AI-optimised compute and data infrastructure

Trustworthy AI
Reliable, ethical and compliant AI

OUR SPECIFIC FOCUS AREAS

Life Sciences
AI for medical imaging, drug discovery, and precision medicine

Materials Science
AI for materials discovery, simulation, and industrial scale-up

Gaming
AI for real-time simulation, player behaviour, and content generation

Autonomous Systems
AI for robotics, vehicles, and intelligent physical systems

Awareness | Use case definition | Prototype | Pilot | Scale | ★★★ Impact

Supporting your AI journey, every step of the way

Training events

Upskilling

For both beginners to advanced users

In-depth knowledge

Latest technologies

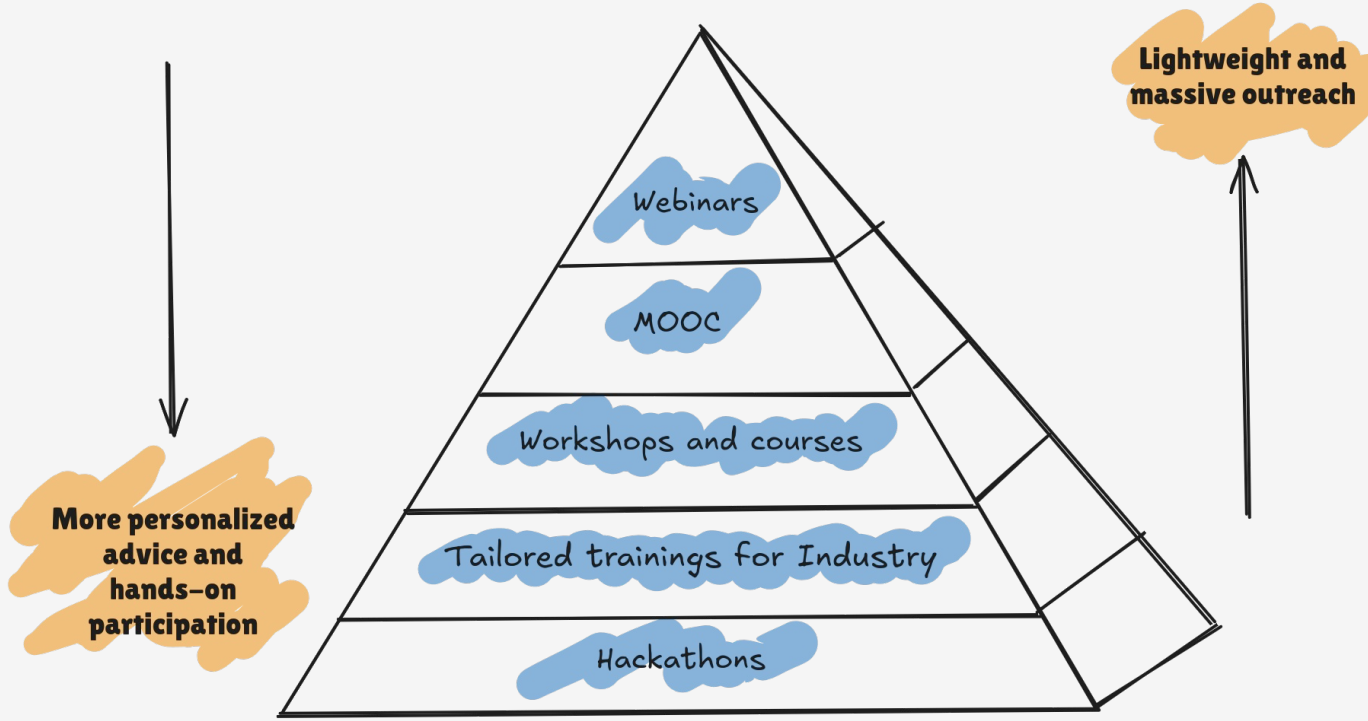
Open-access

More than 60 AI experts to learn from!

Hands-on experience

Practical skills and interactive formats

Self-study friendly



January-June 2026: 600+ registrations, 8 webinars, 2 online workshops

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Trustworthy AI

Design, assess and deploy AI systems that are reliable, compliant and aligned with human values across the full development lifecycle.

Risk Management & Accountability

Assess and categorise AI risk, with an EU ALTAI-based self-assessment tool for high-risk systems.

Data Quality

Completeness, consistency, diversity and privacy — including synthetic datasets — for better performance and fairness.

Human Oversight

Human-in-the-loop design and validation strategies, including ground truth evaluation for LLM and agentic systems.

Security, model auditing & privacy

Robustness testing, security evaluation and AI model auditing to identify privacy and information leakage risks under realistic conditions
.

Transparency

Explainability tools and traceability frameworks that clarify decisions and support regulatory compliance.

Diversity, Wellbeing & Ethics

Ethics by design through stakeholder engagement — fairness, inclusivity and social responsibility.

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The AI adoption journey

How organisations typically progress from AI curiosity to independent capability and how we support each stage.

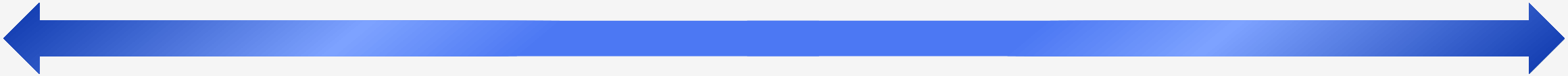
Stage	Awareness	Framing	Data foundation	Prototype	Pilot	Scaling	Advanced use	Independent
Client status (AI maturity)	AI curiosity, no clarity	Clear problem, unclear solution	Data exists but unusable	First working model	Model works, process unclear	Value proven, fragile setup	Strong team, compute-bound	Full lifecycle in-house
Expected outcome	Informed “yes / no / later”	Prioritised AI use cases	Governed, accessible data	Evidence of value	Trustworthy decision support	Repeatable AI capability	High-end AI workloads	Strategic autonomy

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User engagement spectrum

Emerging Users:
High Support Need

Advanced Users:
Low support need



Full Co-Development	Collaborative PoCs	Tech Guidance & Tools	Compute Access Only
Low AI maturity users (often SMEs, startups) • SEAIF experts embedded in project teams • End-to-end support from scoping to deployment	Co-development with SEAIF experts • Implementation of models or data pipelines • Knowledge transfer and capacity building	Moderately advanced users needing help integrating AI/HPC • Tool selection, workflow optimisation • Short consultations or mentoring	Experienced users, self-sufficient in AI workflows • Access to HPC • Minimal support - helpdesk/onboarding only

Training & Upskilling Pathways (cross-cutting)
All users can engage in training, workshops, or “train-the-trainer” sessions

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Focus areas

Target sectors where Sweden AI Factory has specialised AI expertise and services



Gaming

AI for real-time simulation, player behaviour, and content generation



Life Sciences

AI for medical imaging, drug discovery, and precision medicine



Autonomous Systems

AI for robotics, vehicles, and intelligent physical systems



Materials science

AI for materials discovery, simulation, and industrial scale-up

Generic

We can support just about any domain and use case

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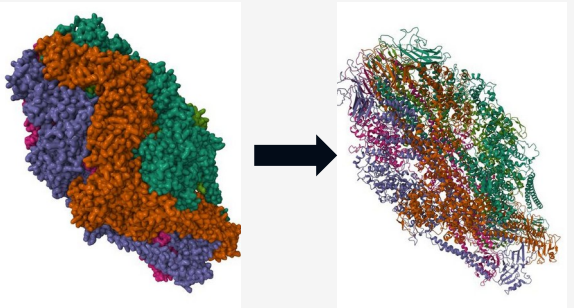
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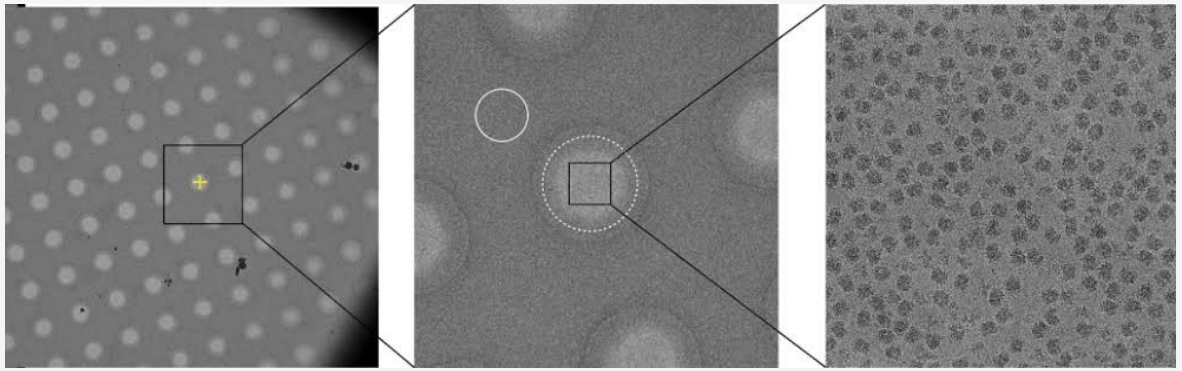
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Use cases in Life Sciences

AI for Electron Microscopy
Project: Q-Loop, a SciLifeLab Technology Development Project



The Challenge



Electron microscopy data is imaged across **multiple scales**.

At each level, bad data must be filtered out.

This is done **manually.**

Also: electron microscopes generate **enormous volumes of data**.

Time-consuming and data-heavy.

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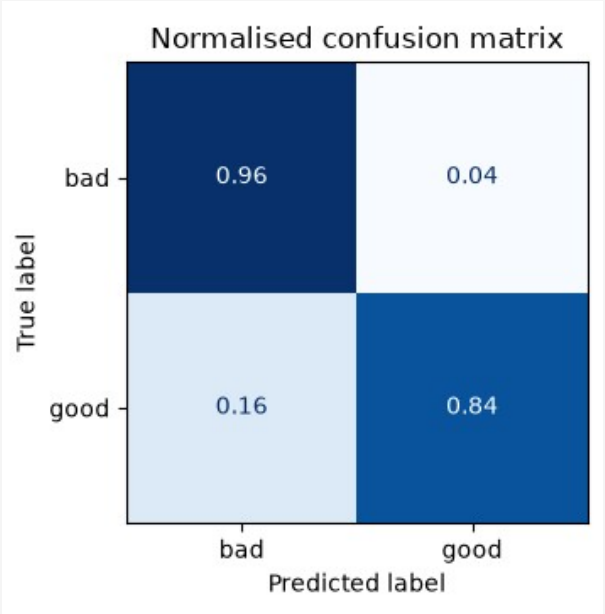
Use cases in Life Sciences

AI for Electron Microscopy
Project: Q-Loop, a SciLifeLab Technology Development Project

The Solution

Sweden AI Factory has helped implement:

- Classical methods (e.g. random forest).
- CNN-based classifiers.
- Vision transformers.



Next, we will work alongside the client to implement our model as a plugin to their software.

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Use cases in Life Sciences

Agentic AI for spatial biology
Project: Gene expression (spatial transcriptomics)

The Challenge

Finding **meaningful** biological patterns often requires **substantial** manual analysis and specialist knowledge.

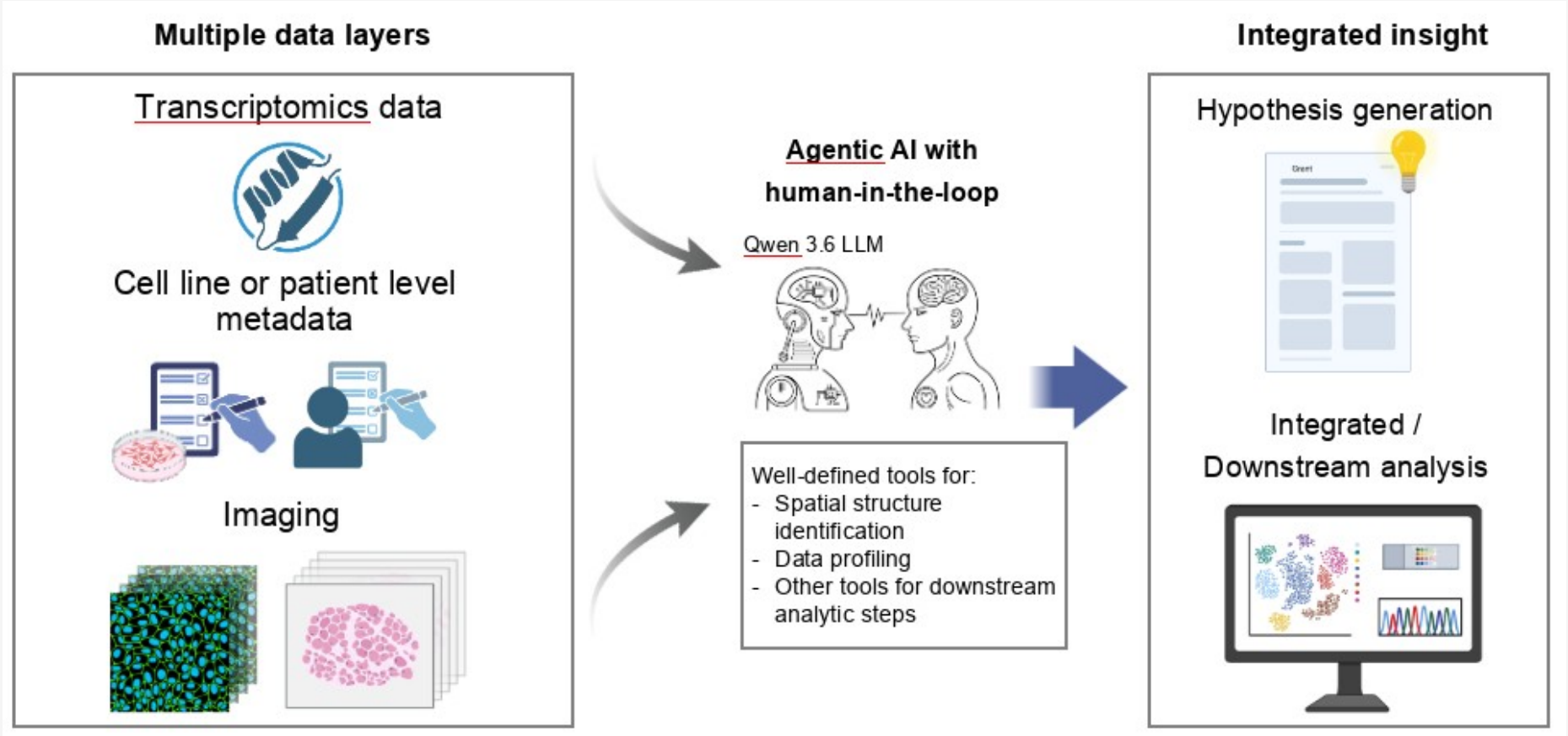
Proposed way forward: An **agentic** platform for discovering and understanding spatial transcriptomics data.

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Use cases in Life Sciences

Agentic AI for spatial biology
Project: Gene expression (spatial transcriptomics)

The solution: turning Complex Biology Into Actionable Insight



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