Compute to Impact: Finland as a World-Leading AI Hub

AMD Silo AI

Finland’s AI Moment is Now

Software is changing the world, and AI accelerates it. AI is transforming every industry at unprecedented speed, creating a €190B market that continues to grow rapidly.

Compute to Impact addresses both current AI challenges and next-generation breakthroughs - working end-to-end from computing infrastructure to new model architectures

Compute to impact enables AMD Silo AI to build a comprehensive AI ecosystem where Finnish companies can develop and commercialize solutions through high-impact co-innovation projects

Compute to Impact: Finland as a World-Leading AI Hub

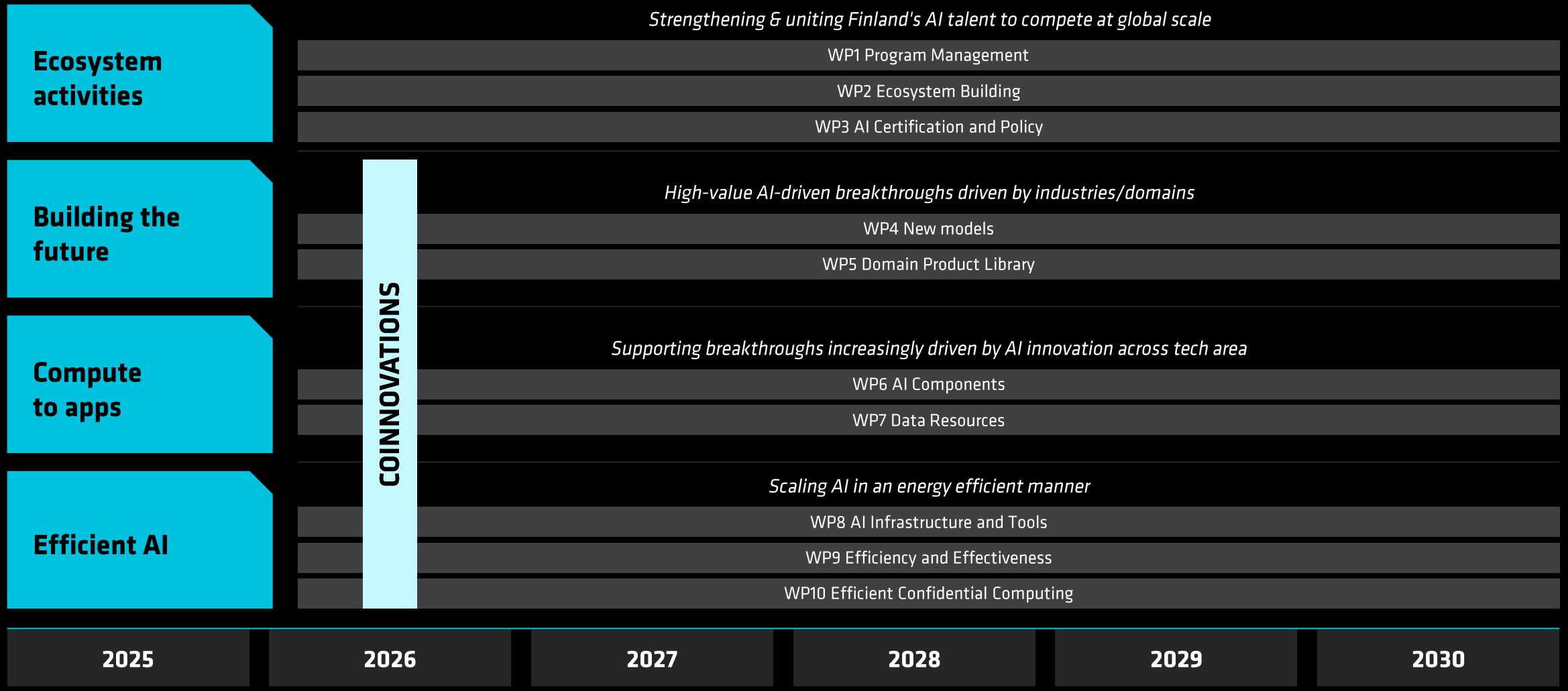
Mission

Transform Finland into a world-leading AI hub where companies develop next-generation AI by connecting computing infrastructure, industry expertise, and research excellence, driving breakthroughs in AI technology and commercialization through open collaboration.

Vision

Finland is a leader in the development of efficient and sovereign AI solutions that combine world-class computing infrastructure with sustainable practices, enabling European companies to build competitive AI products.

Compute to Impact - Roadmap 2025-2030



Compute to Impact - Workstreams Overview

Ecosystem activities

Strengthening the AI ecosystem in Finland

Events & engagements:

Connecting stakeholders across the field

Ambition & direction:

Luminary guests, fact-finding missions

Amplify voice:

Represent Finnish AI tech & research globally

Tech assessments:

Shared maturity models, certifications

Policy Radar & influence:

Track EU/national policies, provide guidance, enable participation in roundtables, dialogue with decision makers

Building the future

Open path for high-value AI-driven breakthroughs across industries

Experimentation:

Test new models & AI research innovations, including beyond LLMs

Showcase:

Highlight success stories, cutting edge findings

Tech transfer:

Share lab results for industrial validation, packaging usable components

Technology Observatory:

Prototypes & playbooks on latest models

Breakthrough tracking:

Monitor internal/external research labs

Future readiness:

Anticipate and adopt new innovations

Compute to Impact - Workstreams Overview

From compute to apps

Breakthroughs are increasingly driven by integrated innovation across technical areas

AI component creation & sharing:
Validate and distribute models & resources in runnable environments in easy-to-use form

Open library:
Shared, accessible and compatible inventory of stable base models & components

Open tooling:
Low-friction tools for development, deployment & operations

Data resources:
Access to high-quality original data, work with memory institutions, enable data cleaning & broad synthetic data use

Generative AI alignment:
Methods for domain-specific output and evaluations

Efficient AI

Scaling AI has become an energy topic and a technical constraint

Infrastructure & tooling:
Assess and provide methods in well-designed efficient compute operations

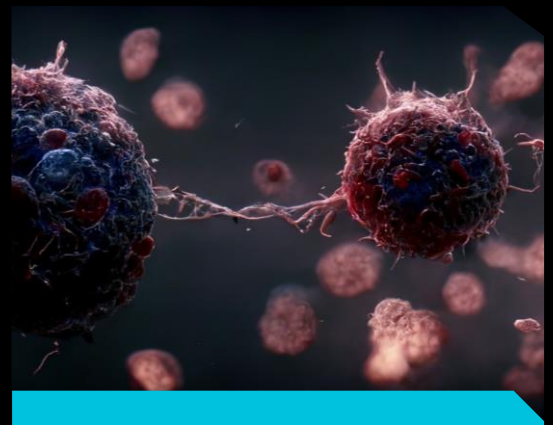
Efficiency focus:
Optimized key AI models, open access to computational and development resources

Ecosystem education:
Methods, tools, and skills to improve AI solution performance and cost efficiency

Orchestration & monitoring:
Methods & tooling to operationally monitor & improve performance

Data center collaboration:
Explore, implement, disseminate methods in balancing system efficiency and compute confidentiality, hardware virtualization

Main Industry Focus Areas



Life sciences

Robotics

Scientific AI & Space

Networks

Defense

HPC / Quantum

Visual media & Gaming

Examples of Potential Co-innovation Projects

Building the future

Open path for high-value AI-driven breakthroughs across industries

- Multi-modal and ontology-following AI models
- Creation and controlled editing of video and virtual worlds
- Foundation models in e.g. material sciences and world simulation
- Autonomous systems state-of-the-art
- Precision medicine: molecule science, medical imaging, treatment targeting
- Agentic workflows, reinforcement learning, and reasoning models
- Multi-source AI sensor fusion

From compute to apps

Breakthroughs are increasingly driven by integrated innovation across technical areas

- Robotics agentic systems, co-bot coordination
- Memory institutions, archives, data curation, and AI Training
- Synthetic data, GenAI-based data editing, model evaluation, automated training systems
- Secure virtualized AI compute
- AI-assisted simulation in physical environments
- Confidentiality assessment criteria for systematic data integrity assessment
- Localization of instruction training and quality metrics

Efficient AI

Scaling AI has become an energy topic and a technical constraint

- Multi-node model training & inference
- Simulation pipelines, integration with model training
- Model distillation, continued pre-training
- Federated and decentralized model training
- System architecture specific operational and optimization guidelines
- Hardware-agnostic AI compute workloads
- Model optimization and efficiency playbooks

** Workstream Ecosystem activities is non-technical*

Call to Action for Partners

Veturi offers significant funding for the partner ecosystem

Call for interest:

Parties interested in the ecosystem participation

- Academic parties, large companies, SMEs
- Objective to pursue novel and ambitious AI use cases

Next:

Review received interest and invite to kick-off event

- First identification of project scopes and consortia

Timeline for the initiative

August 2025-July 2030

- Preparation and planning starting already in May 2025

Contact:

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- When contacting us, please let us know which topic areas are of most interest to you, so that we can connect the right people to the discussions