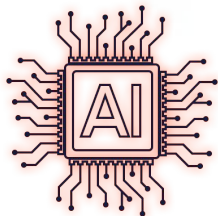




Compute to Impact: Finland as a World-Leading AI Hub

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



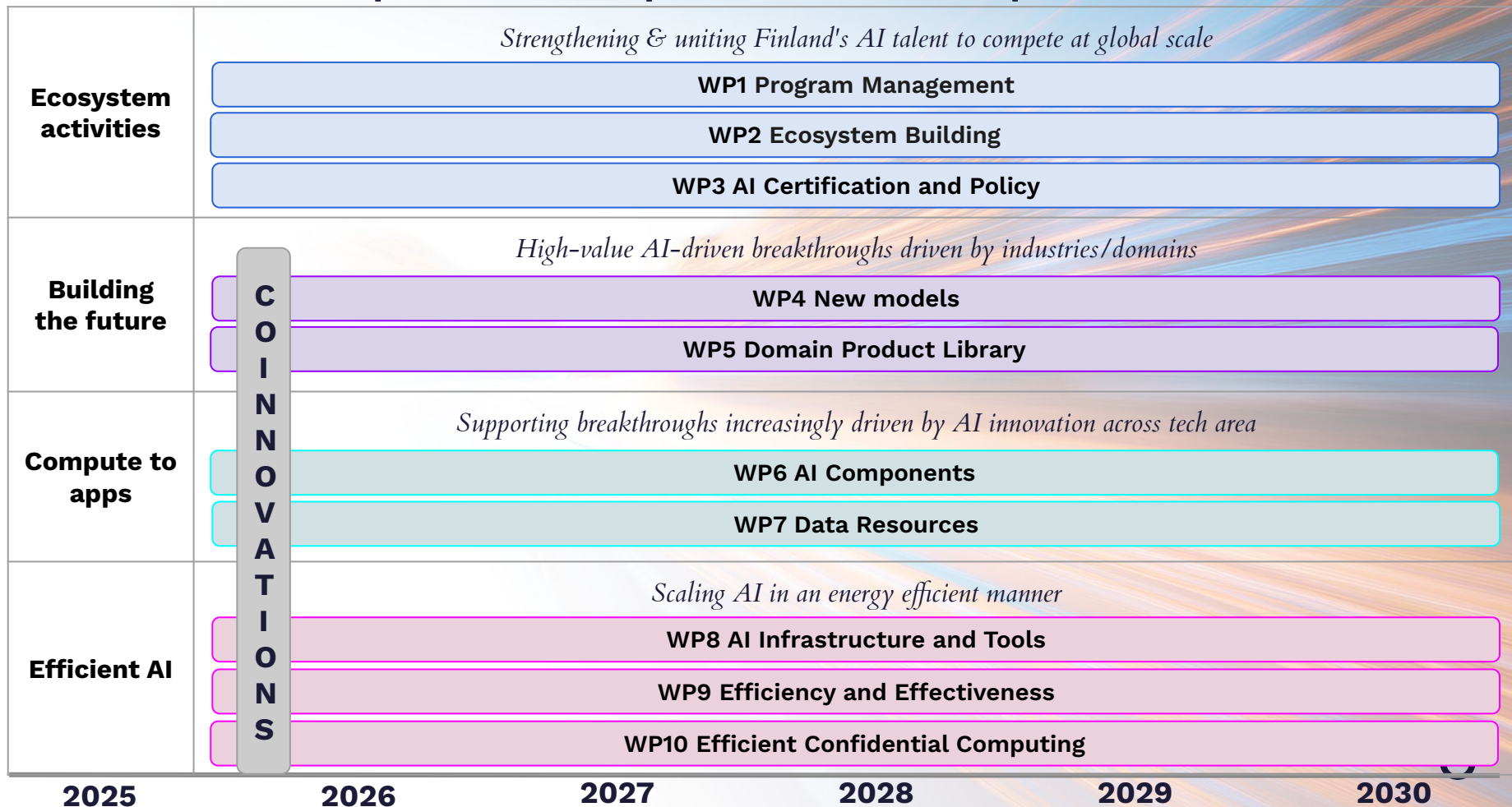
Transform Finland into a world-leading AI hub where companies develop next-generation AI by connecting computing infrastructure, industry expertise, and research excellence, driving breakthroughs in AI technology and commercialization through open collaboration.

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

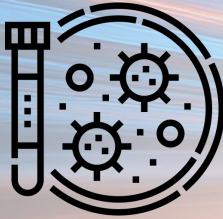
Scaling AI has become an energy topic and a technical constraint

- **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

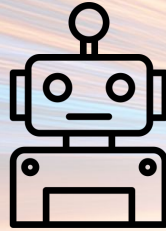


Main industry focus areas

Life sciences



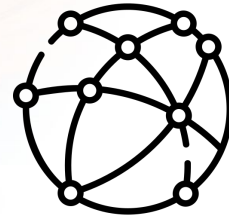
Robotics



**Scientific AI
& Space**



Networks



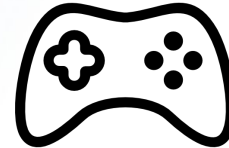
Defense



HPC / Quantum



**Visual media
& Gaming**



Examples of potential co-innovation & co-research projects

Building the future

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

- Speech and text cross-modal model training
- Online learning using noncompiling representations
- Anomaly detection and opportunistic learning
- Self adjusting and learning in robotics
- Autonomous vehicle state-of-the-art
- Precision medicine: molecule science, medical imaging, treatment targeting
- Highly personalised news, entertainment, generated media
- Data source fusion in cybersecurity
- AI-assisted simulation in physical environments

From compute to apps

Breakthroughs are increasingly driven by integrated innovation across technical areas

- Memory institutions, archives, data curation, and AI Training
- New model type exploration for e.g. use case specific control
- Typologically relevant tokenisation schemes
- System architecture specific operational and optimization guidelines
- Distillation of LoRA libraries
- Localisation of instruction training and quality metrics

Efficient AI

Scaling AI has become an energy topic and a technical constraint

- Optimized integration of model development tooling stacks
- Computing Infrastructure kiosk
- Distillation and unrolling neural models for FPGA
- Distillation from live neural model to dynamic data dependent lookup
- Confidentiality assessment criteria for systematic data integrity assessment
- Efficiency playbooks



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:** siloai-veturi@amd.com
 - Interim program manager: Sonja Rajala
 - 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

