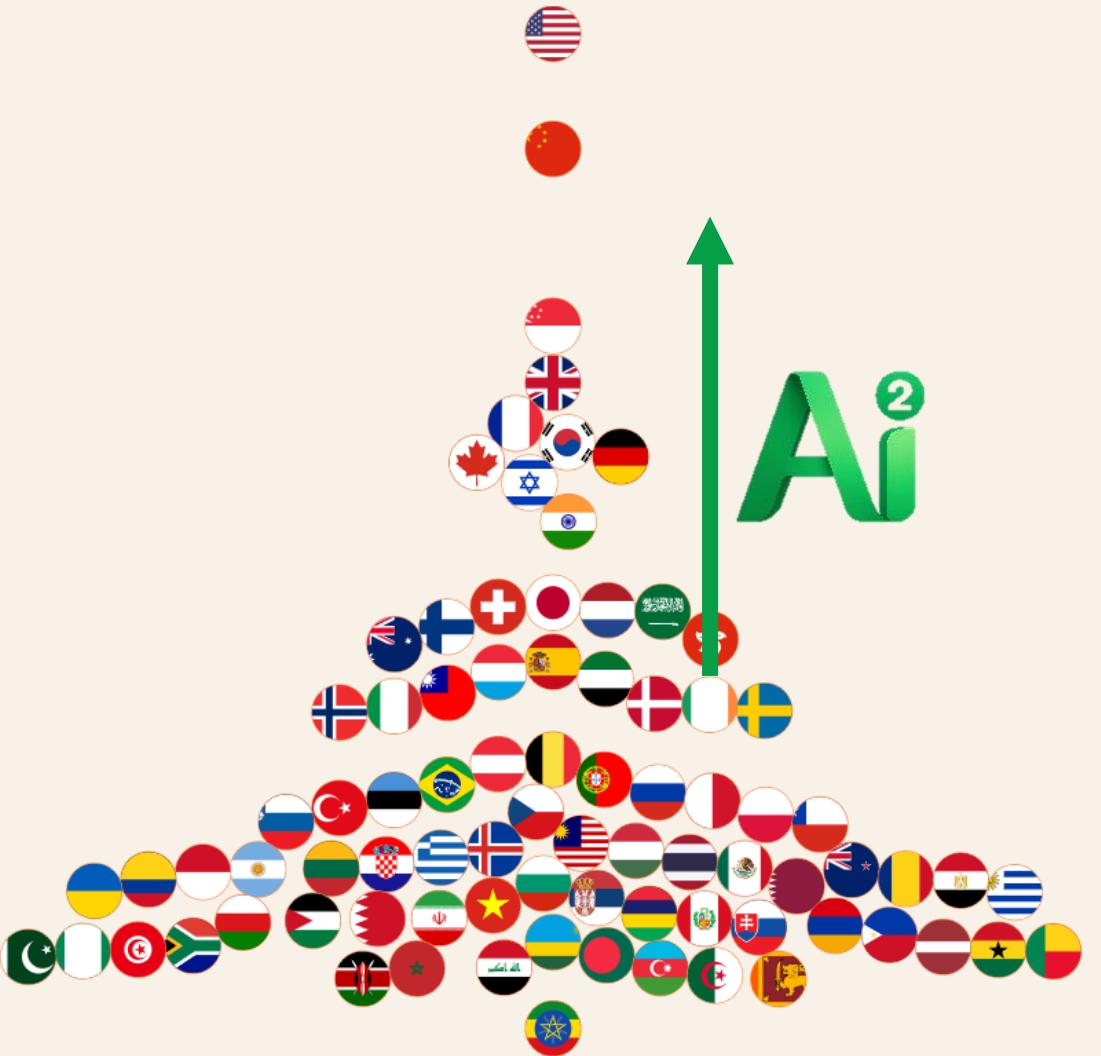


**AI is not the
future – it's here
and now.**

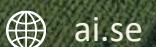




Kim Henriksson
kim@ai.se



Accelerating the use of AI in Sweden



ai.se



my.ai.se



ai.se/newsletter

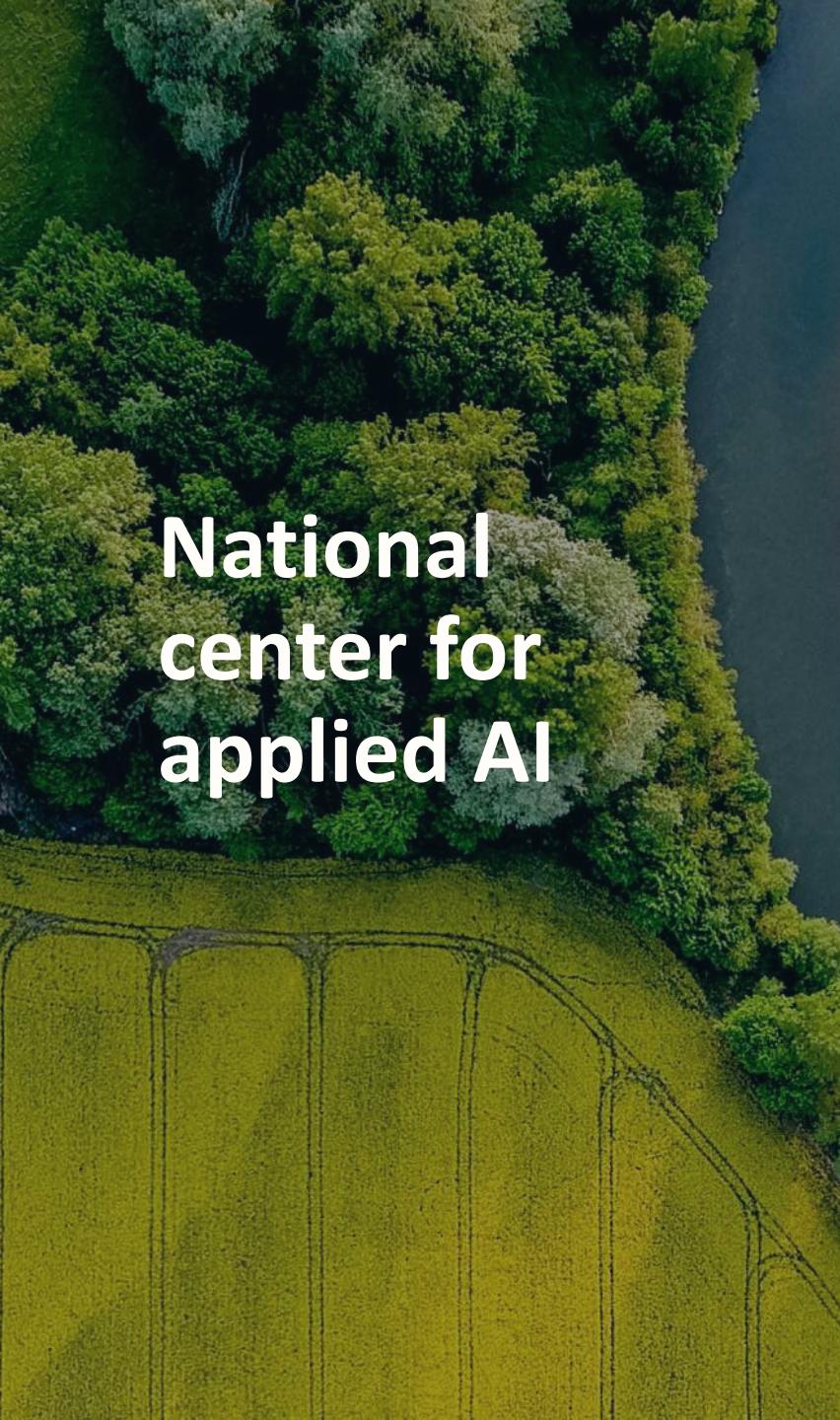


youtube.com/c/aisweden

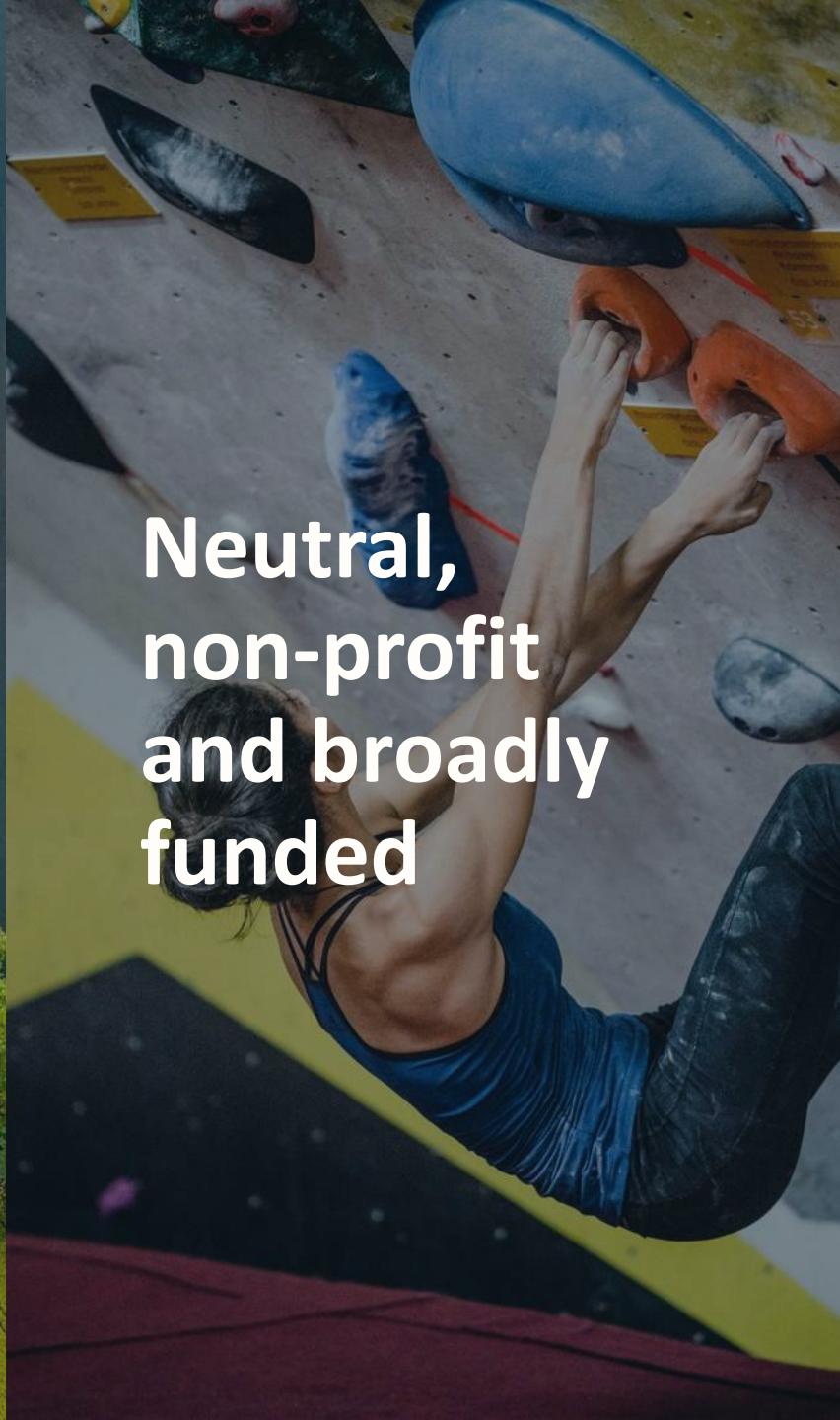


linkedin.com/company/aisweden

Accelerating the use of AI for the benefit of our society, our competitiveness, and for everyone living in Sweden.



National
center for
applied AI



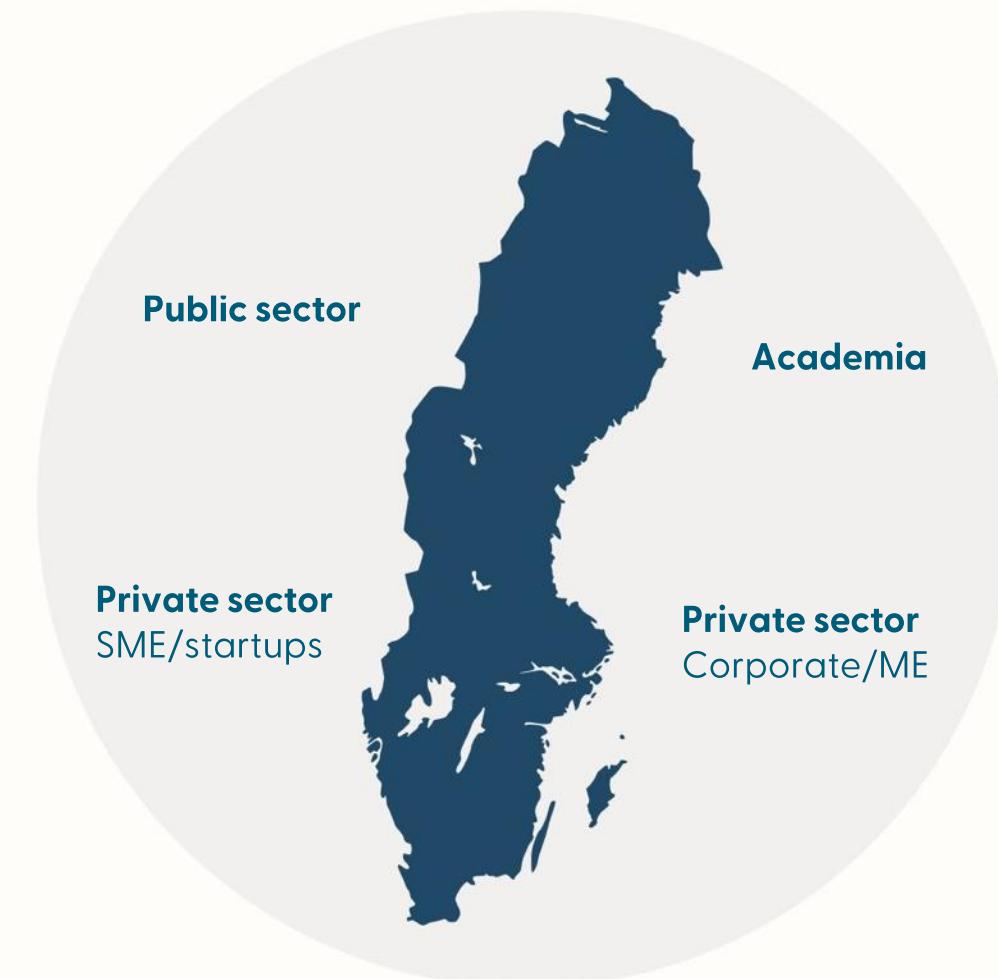
Neutral,
non-profit
and broadly
funded



Private sector,
public sector,
academia



AI
SWEDEN

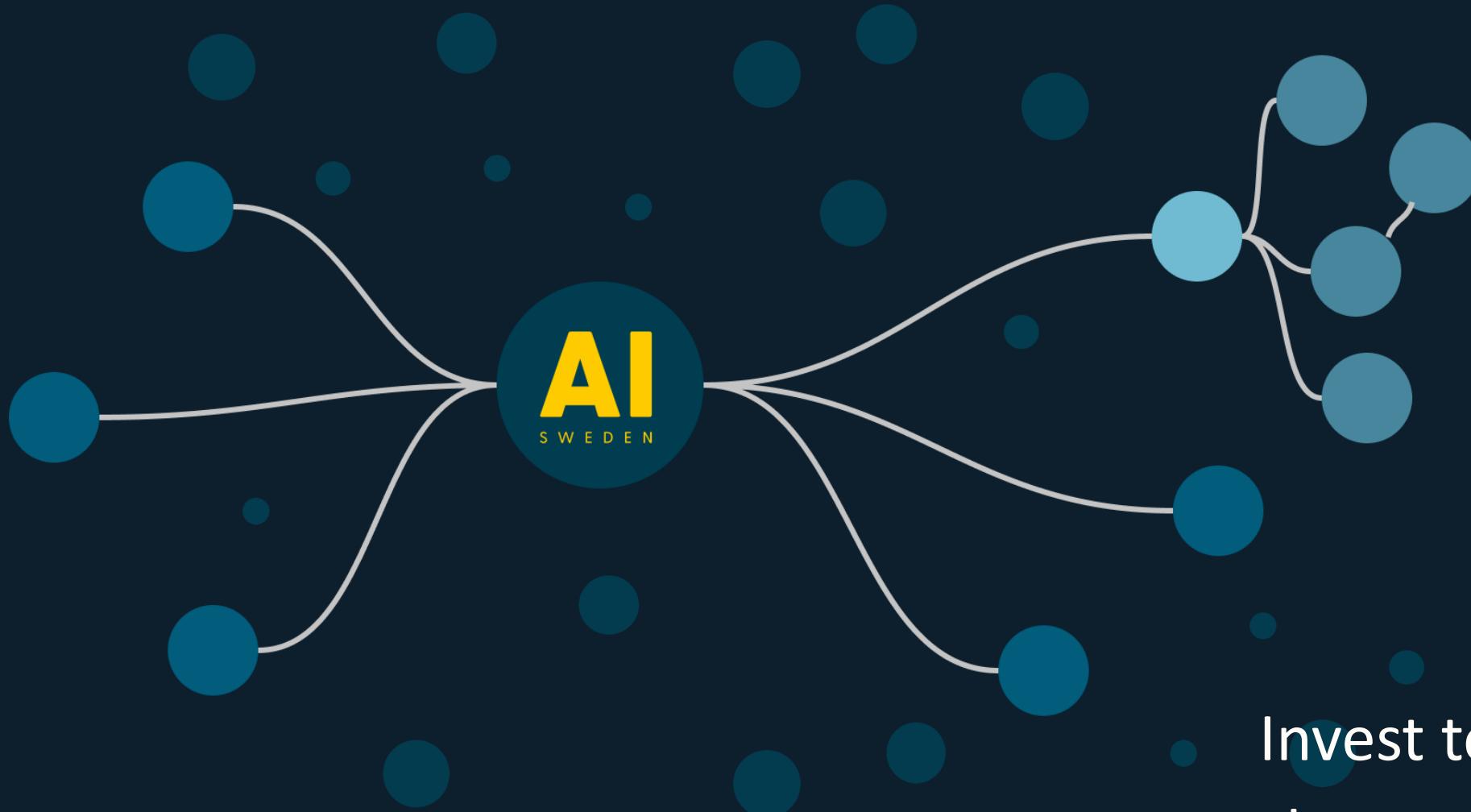




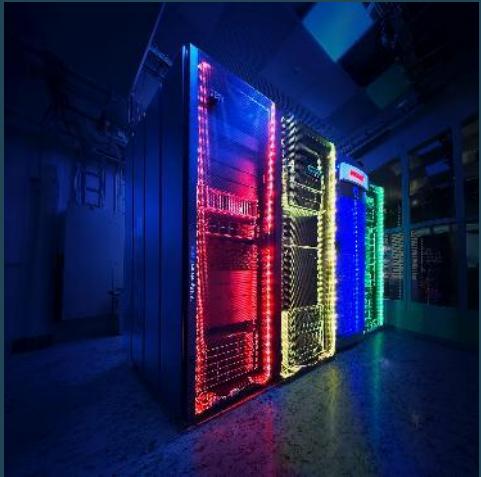
“

It is all about speed – AI Sweden has established projects and world-class labs in almost no time, enabling us to participate in the development at the very forefront of AI technology”

Partner testimonial



Invest together,
share with many



AI Labs



WELFARE



ENERGY



HEALTHCARE



MUNICIPALITIES
& CIVIL SOCIETY

Adoption



Networks



International



Startup program



Co-working



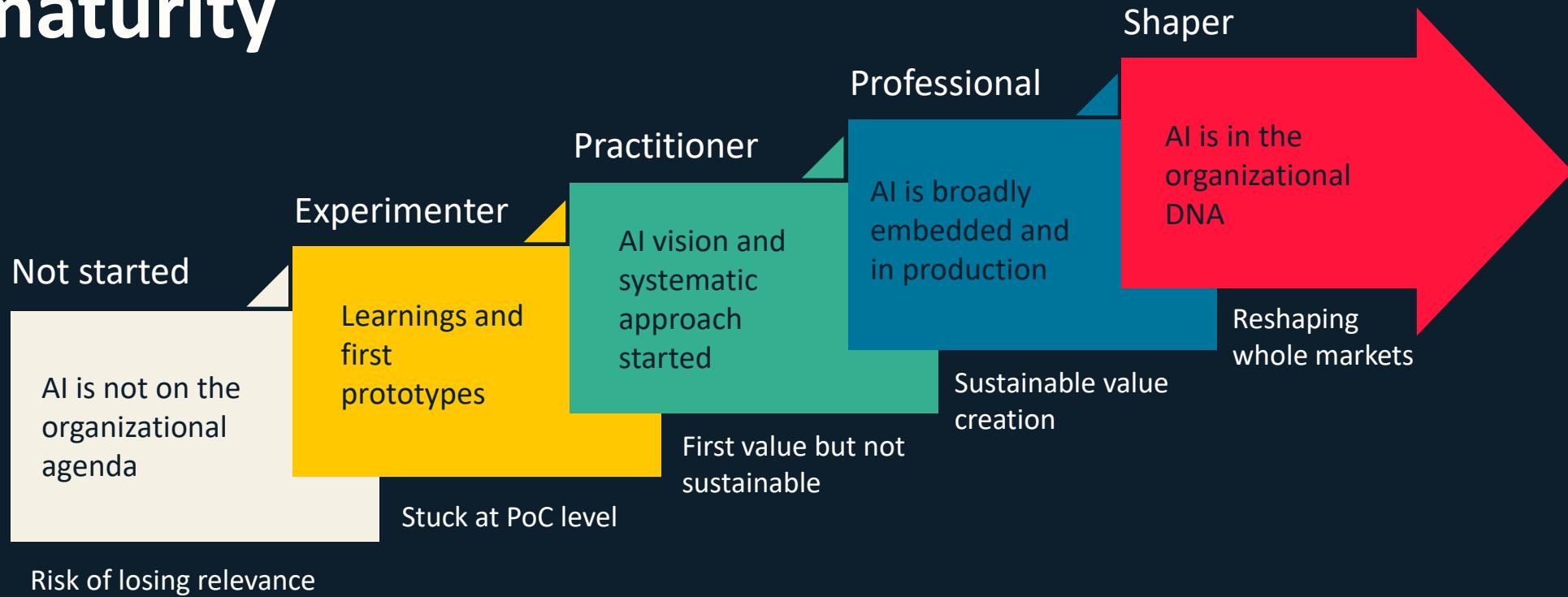
Events

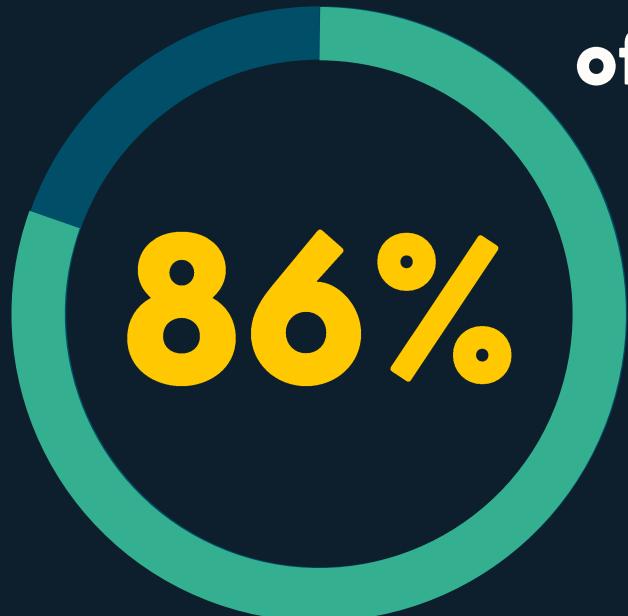


My AI

Ecosystem

Leveling up AI maturity





of AI Sweden partners

Source: AI Sweden's annual
partner survey, 2024



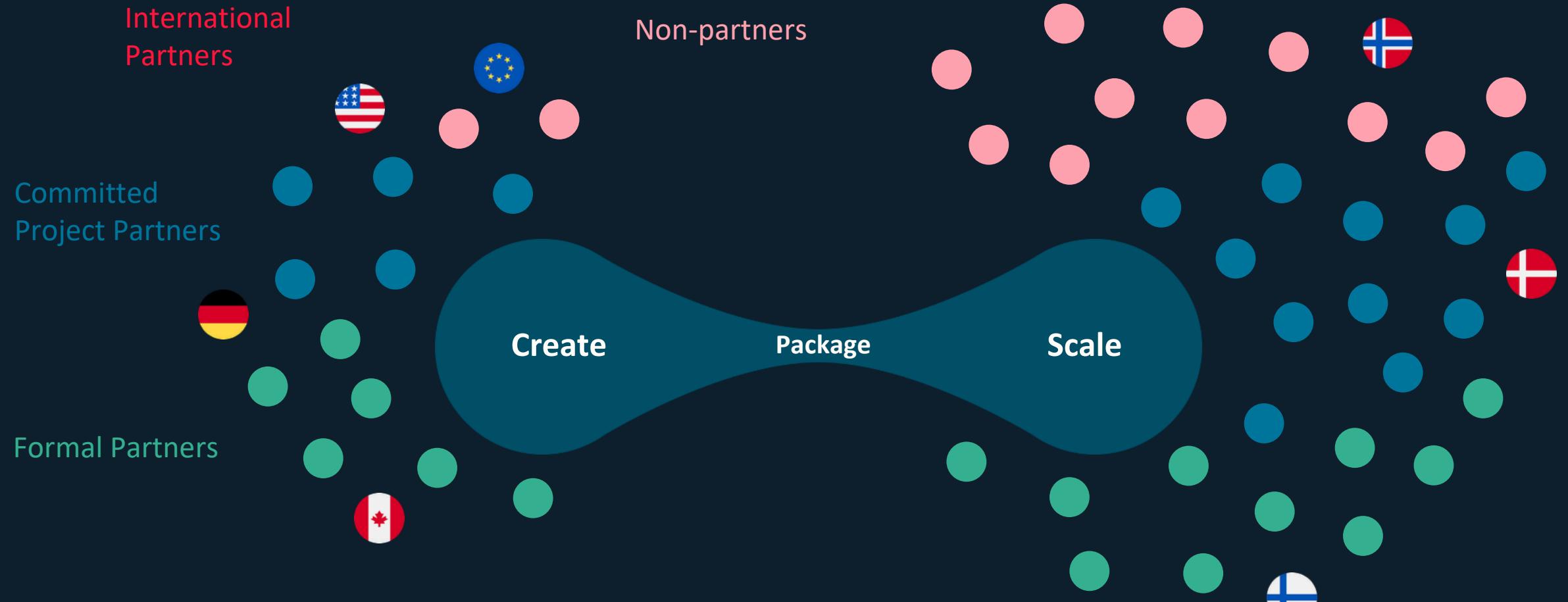
Report an increase in AI readiness last year

Collaborates with another partner

160+
partners

30+
MEUR total investment in 2024 alone

Including non-cash contributions by partners



Create, package and scale assets from deep expertise and knowledge

What's top of or mind?



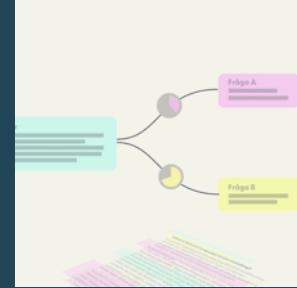
Strategy alignment



Leadership



Change Agents



Digital assistants



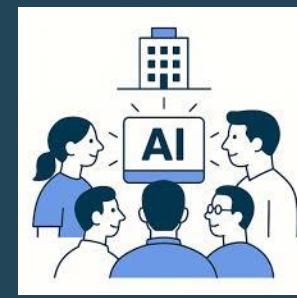
Competence strategy



Emerging initiatives



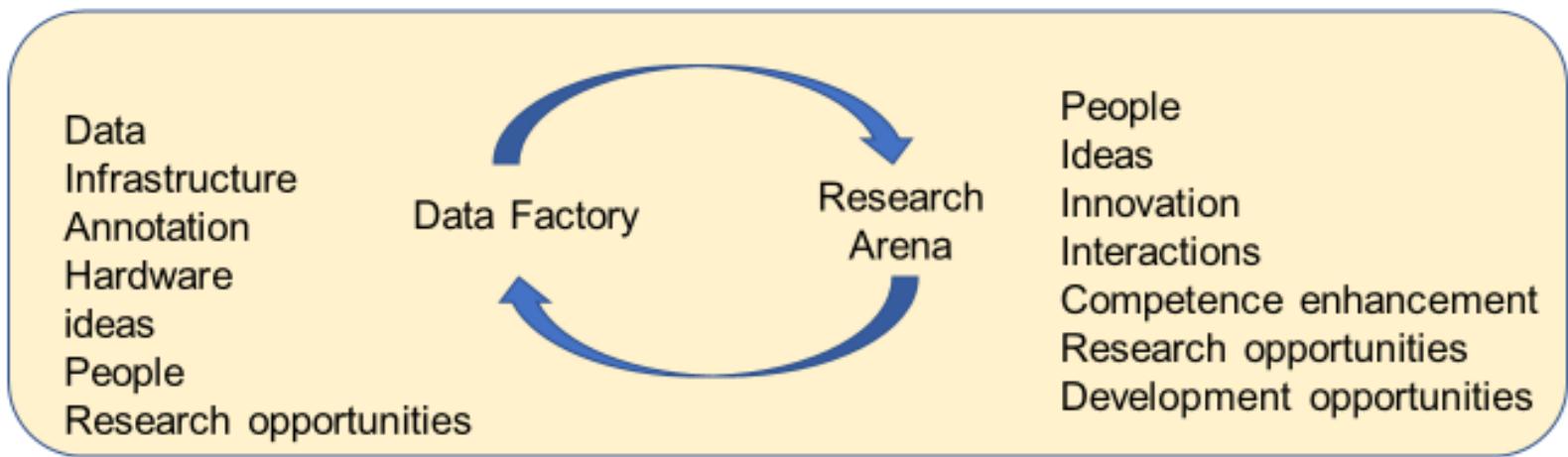
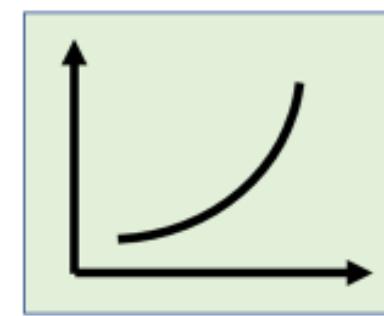
Large scale AI infrastructures



AI-first

Original Idea

2017



Data Factory and Arena – Key to "Running Faster"



6 years ago

Inaugurated February 6, 2019



FedBird Project

Getting Started with Edge Lab and FL

Data-driven organizations - Best practices for operationalization of AI in Sweden



AIXIO



STORMGRID

PROACT



AI Sweden

“Our Secret Sauce”



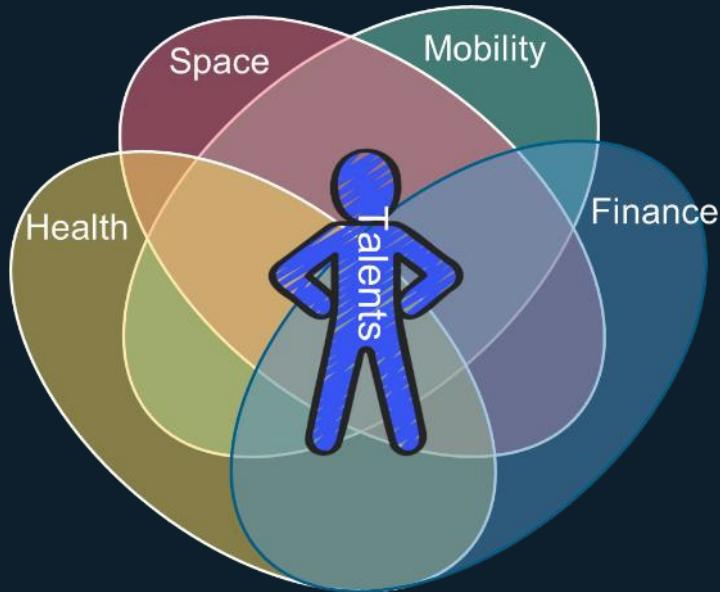
Our Recipe for Capacity-Building



**Speed & Boldness,
Talent & Timing**



**Co-Location &
Sector Synergies**



Dynamic Environment



Our Recipe for Capacity-Building



No NDA's &
“One size fits all”
legal agreements

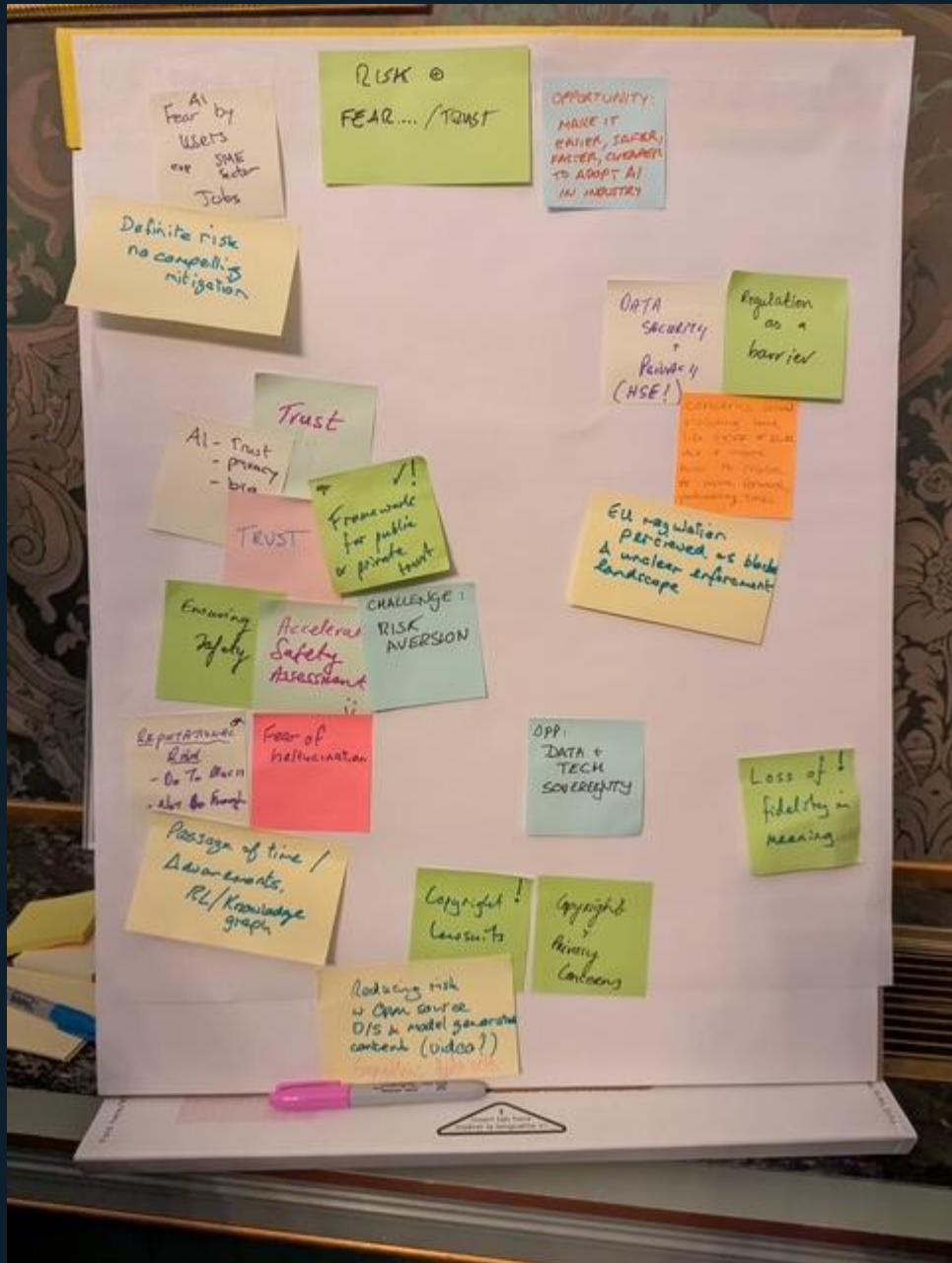
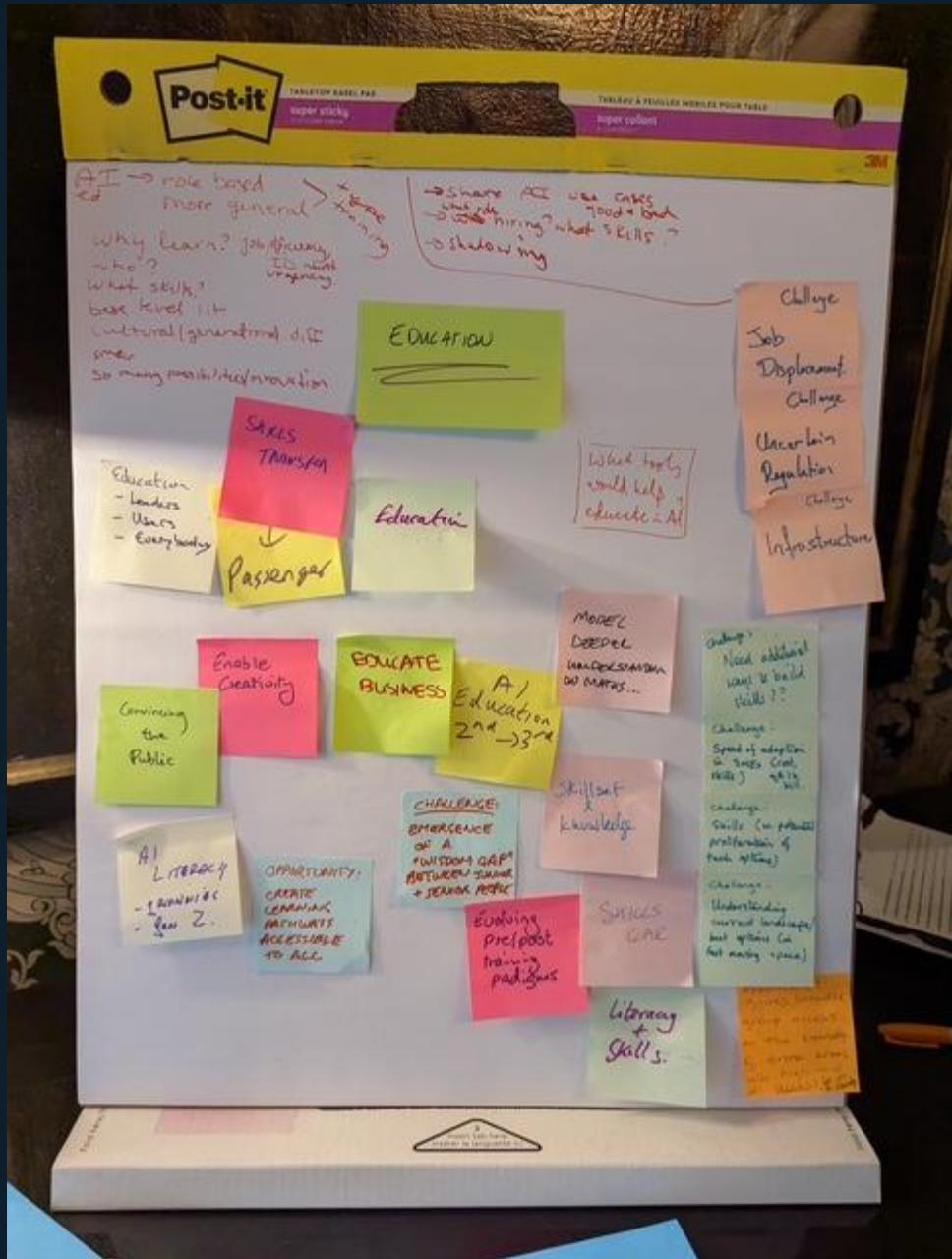
Neutral facilitator

No “sales”



Our Recipe for Capacity-Building





Insert Draw Design Transitions Animations Slide Show Record Review View

Record Comments Share

Results from a healthcare client in Sweden... *Predict length of stay after a medical surgery*

R-modell - RMSE: 4.848 MAE: 2.296 R2: 0.523

Manually developed machine learning model

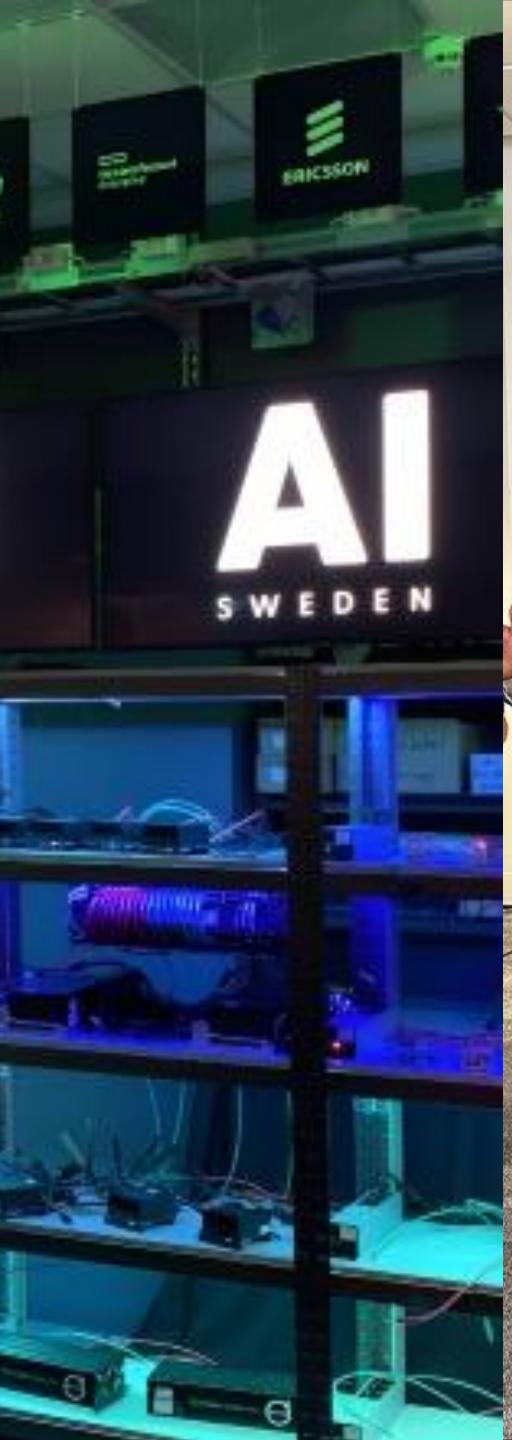
6 man months

Auto-AI - RMSE: 5.28 MAE: 2.306 R2: 0.435

AutoAI generated machine learning model

14 minutes

Henrik Sjöstrand wasonX



AI Sweden Foundation

*for reference



VISION: What is the desired future state?

Sweden is a worldwide role model for how AI is embedded nationally to solve key societal and business challenges for the benefit of a prosperous society characterized by democratic values and a high quality of life

MINDSET: What is our mindset?

We collaborate in everything we do and lead the way with speed and boldness

MISSION: What is our mission?

Accelerate the use of AI for the benefit of our society, our competitiveness, and for everyone living in Sweden

PRINCIPLES: How do we do it?

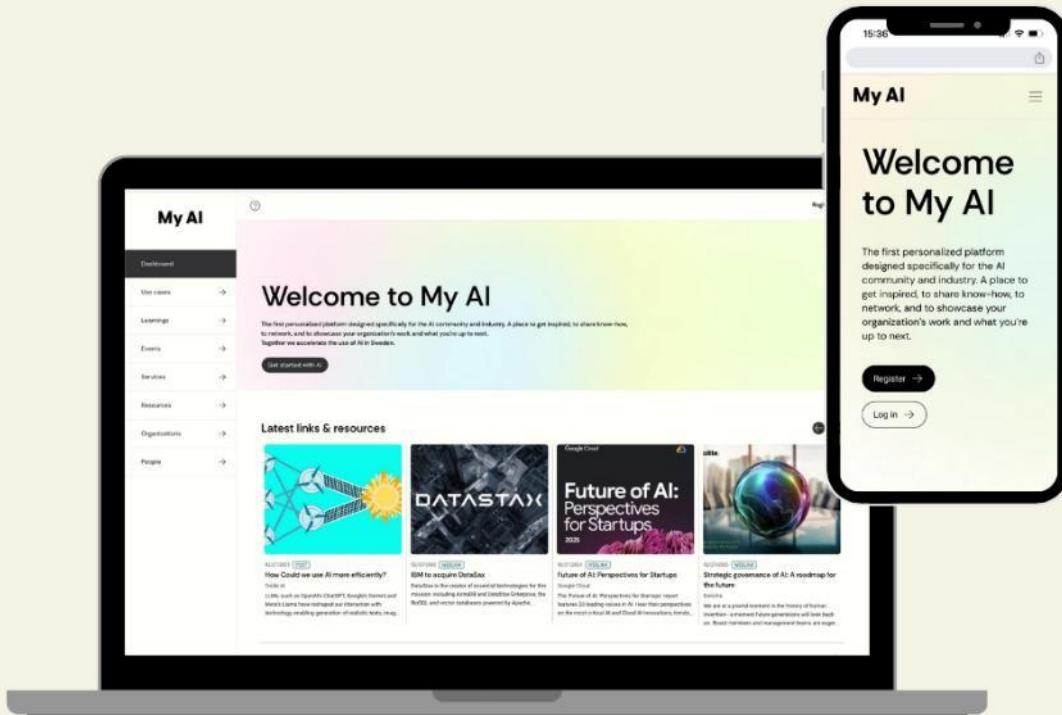
- Engage with partners first
- Invest together to benefit many for maximum impact
- Create, package and scale assets from deep expertise and knowledge
- Connect nationally and across sectors
- Learn from and engage with the best and evolve beyond
- Boost bold leaders to drive change

POSITION: What is our desired position?

The go-to catalyst for organizations that have the ambition to generate sustainable value using AI and a recognized thought leader for leaders shaping our future society

TARGET GROUPS: Our primary target groups?

1. Relevant decision makers within partners and throughout society
2. Changemakers within partners and potential key partners
3. Practitioners within partners
4. Talent, international and national



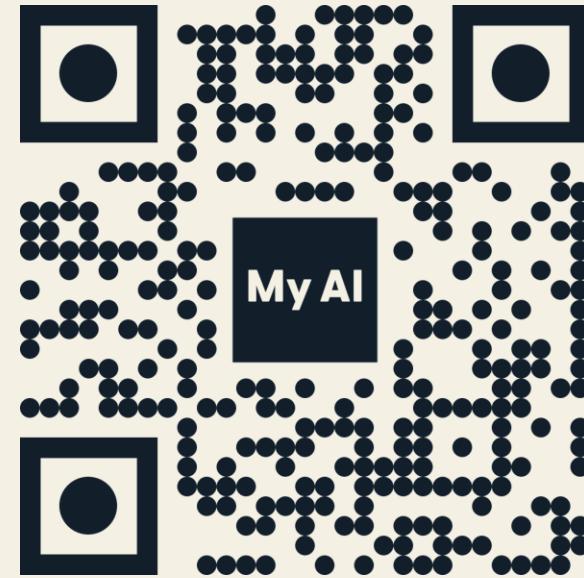
My AI

- + Free & open to all
- + Network
- + Share & get know-how
- + Get inspired from over 480+ use cases
- + Showcase your organizations work

My AI

Your personal gateway to the
world of AI

Sign up today

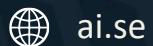


my.ai.se

Or make it my.aiai.ie?

Thank you!

And don't forget: my.ai.se and ai.se/newsletter.



ai.se



my.ai.se



ai.se/newsletter



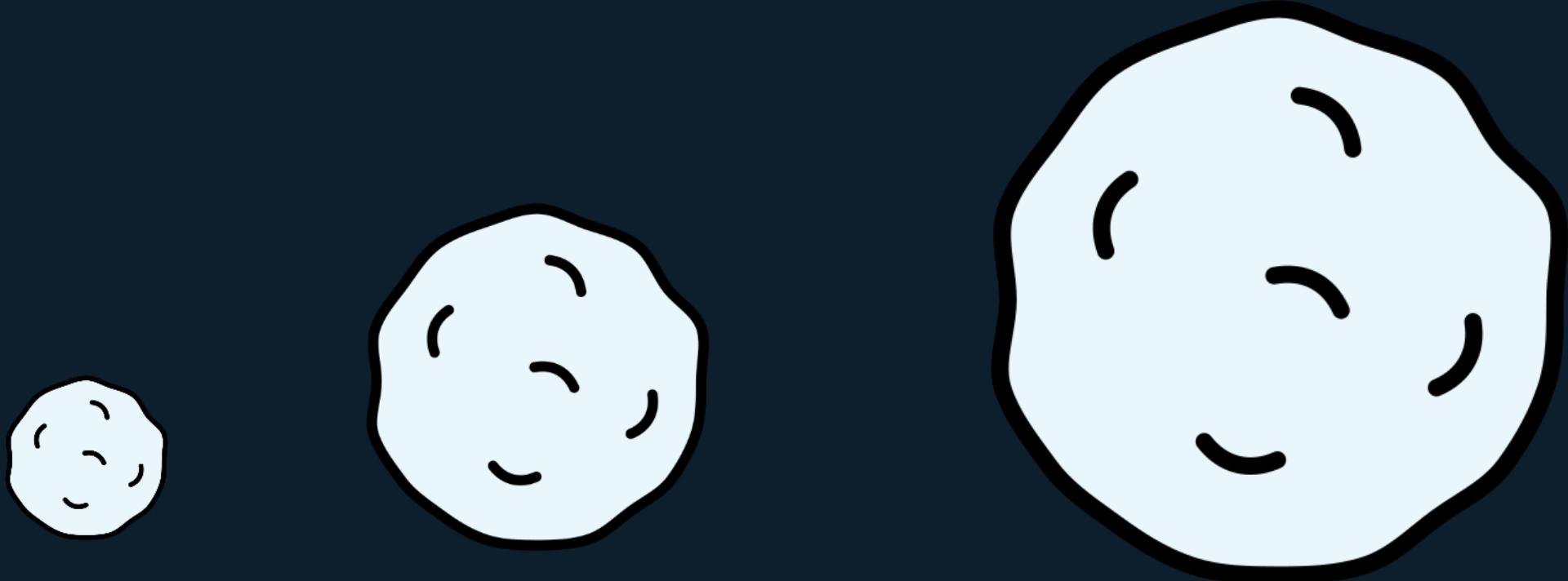
youtube.com/c/aisweden



linkedin.com/company/aisweden

Snowballing Innovation: How our Projects Scale and Evolve

AI
S W E D E N



Government invests 500 million in AI and is backed by large Swedish businesses

Digitisation Minister Peter Eriksson (MP) opens up about the new tech investment. The government is investing half a billion to develop Swedish AI, and the initiative is supported by a number of heavyweights in Swedish business.

Published: 16 May 2018, 16:25





The purpose of AI Sweden is to accelerate the use of AI for the benefit of our society, our competitiveness, and for everyone living in Sweden.

How to climb the mountain?



How to start?

AI
S W E D E N



How to start?



GPU Sandbox



Decentralized Learning



GPT SWE + Nordic Pile



Information-Driven Healthcare



Talent Programs



How to start?

AI
S W E D E N



GPU Sandbox



Decentralized Learning



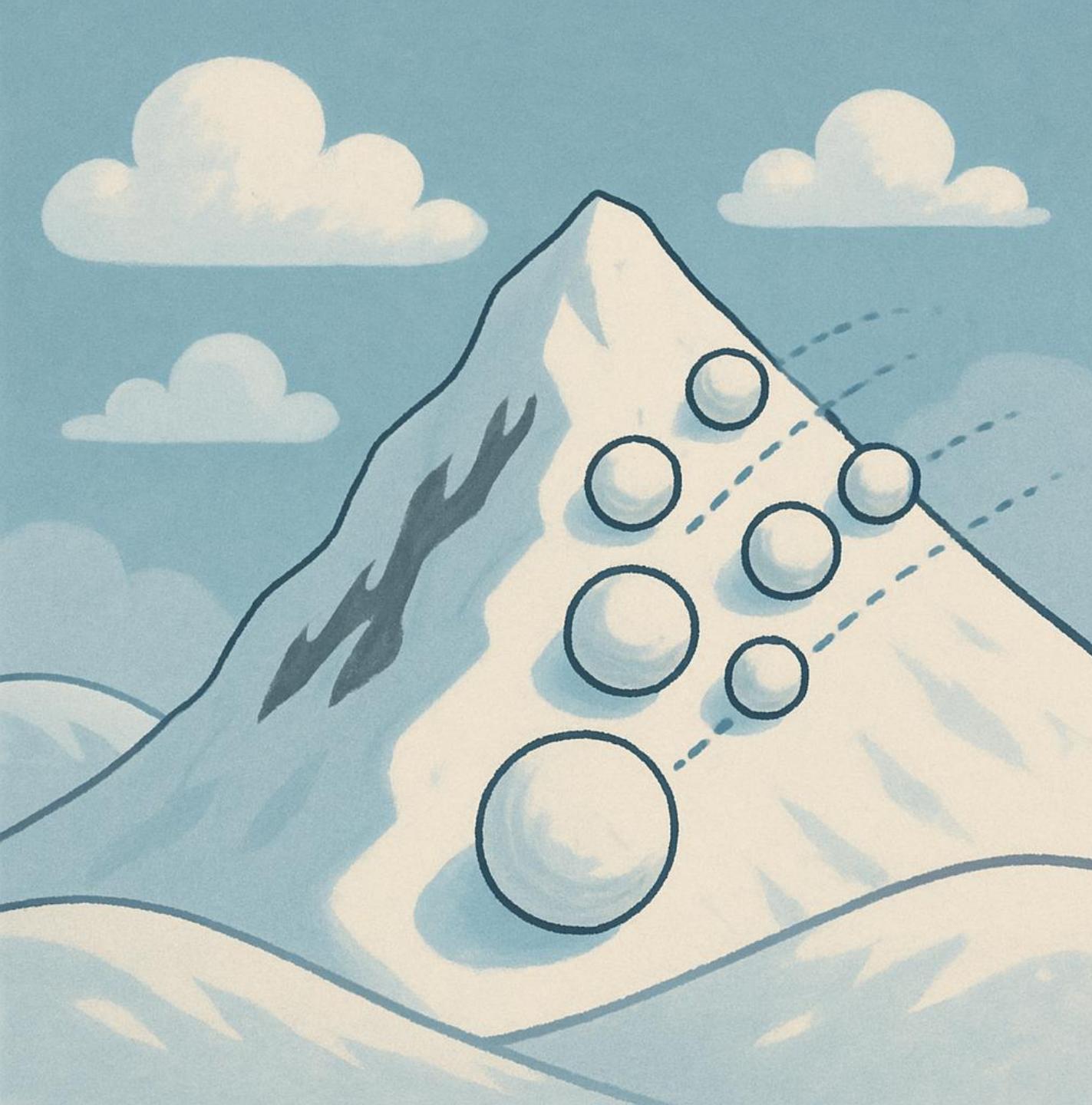
GPT SWE + Nordic Pile



Information-Driven Healthcare



Talent Programs



Snowballing Effect

AI
SWEDEN



Region Halland



Federated learning between Hospitals



Snowballing Example





Region Halland

VÄSTRA
GÖTALANDSREGIONEN
SAHLGRENSKA UNIVERSITETSSJUKHUSET

Federated learning between Hospitals

Eye4AI



IMY sandbox



Snowballing Example

AI
SWEDEN



ESA

NextGen



Region Halland

VÄSTRA
GÖTALANDSREGIONEN
SAHLGRENSKA UNIVERSITETSSJUKHUSET

Federated learning between Hospitals



Snowballing Example

AI
SWEDEN

Eye4AI



IMY sandbox

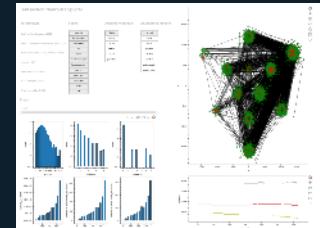
FL for AML

Fleet learning



ESA

NextGen





Region Halland

VÄSTRA
GÖTALANDSREGIONEN
SAHLGRENSKA UNIVERSITETSSJUKHUSET

Federated learning between Hospitals



Snowballing Example

AI
SWEDEN

Eye4AI

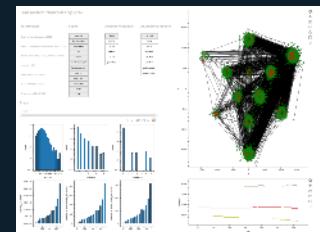


IMY sandbox



ESA

NextGen



FL for AML

Fleet learning

Energy



LeakPro

Trusted Research Environment

Health Data Innovation



Region Halland

VÄSTRA
GÖTALANDSREGIONEN
SAHLGRENSKA UNIVERSITETSSJUKHUSET

Federated learning between Hospitals



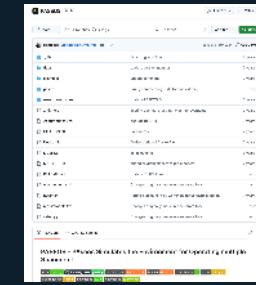
Snowballing Example

AI
SWEDEN

Eye4AI



IMY sandbox



ESA

NextGen

FL for AML

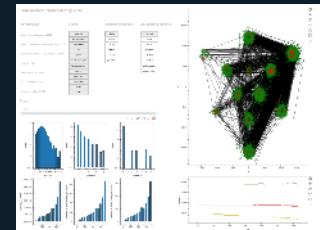
Fleet learning

LeakPro

Trusted Research Environment

Research

Health Data Innovation

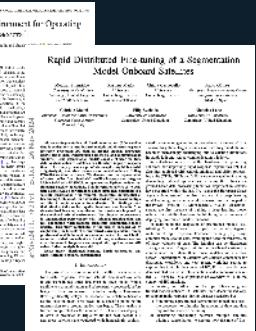


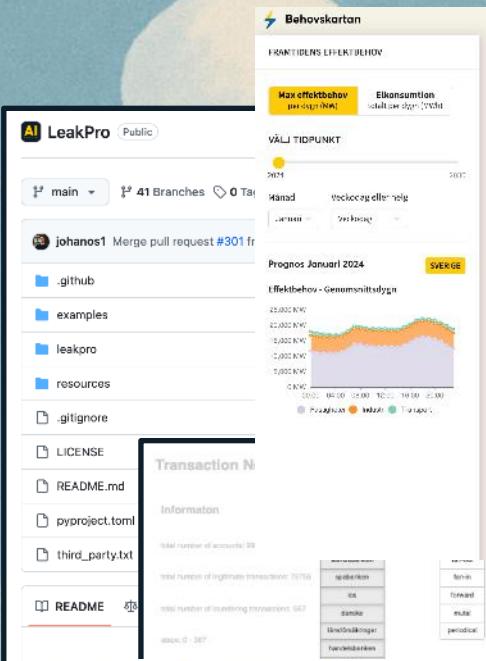
Research

Energy

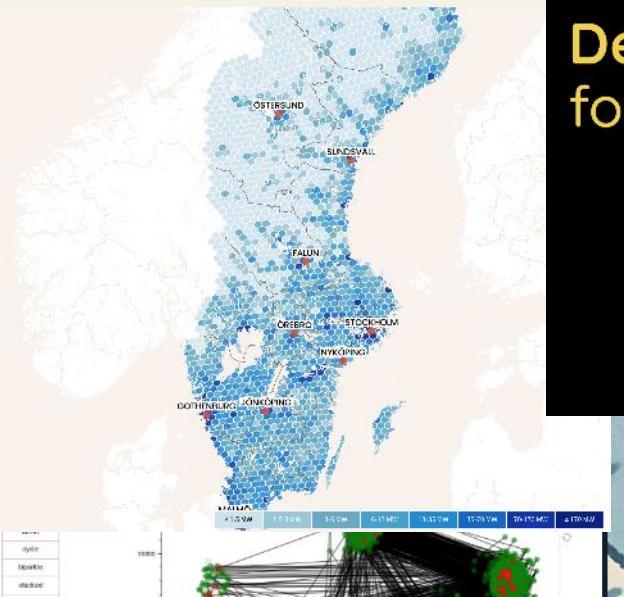


Research

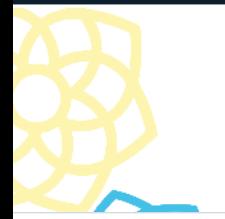




Som ett resultat av att regler och lagar kring datadelning, säkerhet förändras, förväntas nuvarande metoder för modellträning att stöd utmaningar. Målet med detta projekt är att lösa dessa genom att vidareutveckla metoden kring decentraliserad träning av modeller autonoma fordonsflekttor.



Deploying AI for business



Datadrivna organisationer – Bästa praxis för AI-implementering i Sverige

Hur kan en organisation bli datadriven på riktigt? Det ska AI Swedens nya MLOps-projekt, med det formella namnet *Data-driven organizations – Best practices for operationalization of AI in Sweden*, ge svar på. Projektet, som löper fram till December 2025, är AI Swedens största hittills, sett till antalet partner som deltar.

Earth DEN LAB + Digital Earth SWEDEN

Deploy and test AI models on board of Unibap's satellite

Deploy and train AI models in the Edge Learning Lab on Unibap's edge devices with SpaceCloud OS

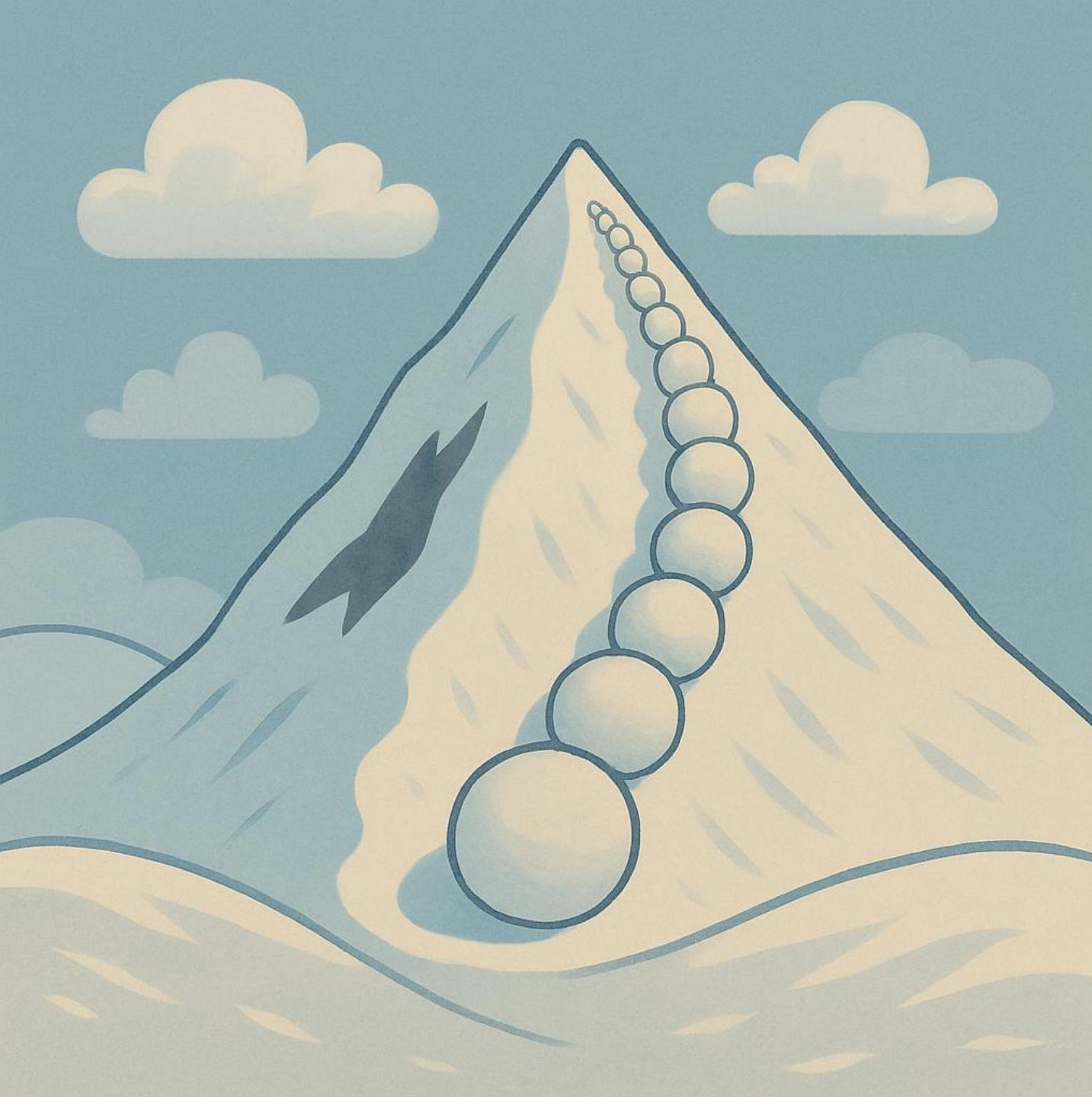
Report tests results, capabilities and requirements for edge learning in space



antera utmaningar och begränsningar i
m som inkluderar globala och svenska
ch Zenseact, vilket ger betydande expertis och

GPT-Sw3

PyTorch TensorFlow Flax



AI
S W E D E N

Invest Together Share With Many



Invest Together Share With Many



Get involved!

Join our
events

Assess your AI maturity

Use tools & resources

AI critical for European competitiveness

Mario Draghi presents a need for a “new industrial strategy”, and increased investment by €800bn (or 4.7 per cent of GDP) a year to boost its growth.

“We must integrate AI into our existing industries so that they can stay at the front”

“Fiscal incentives to unlock private investment therefore appear necessary to finance the investment plan, in addition to direct government investment”

— of European competitiveness



“Whatever it takes”

140+ partners

We see a great growth in the partner network increasing with 41 during 2024. Going in to 2025 we've already reached 150+

MSEK 300

estimated total investment through AI Sweden 2024, including cash funding, partner contributions, and ecosystem engagement

43 000 h

Participants spent approximately 43 000 hours in events and seminars

31 000 h

A surge in listening hours placed the AI Sweden Podcast as one of the top tech podcasts in Sweden

16 000+ community users

My AI is the community dedicated to AI and in 2024 had over 16 000 users engaging with 250+ use cases and over 2500 other resources

86%

of partners increased their AI readiness

Based on the annual partner survey

37 AI models

were released open source with 716 000 downloads

90%

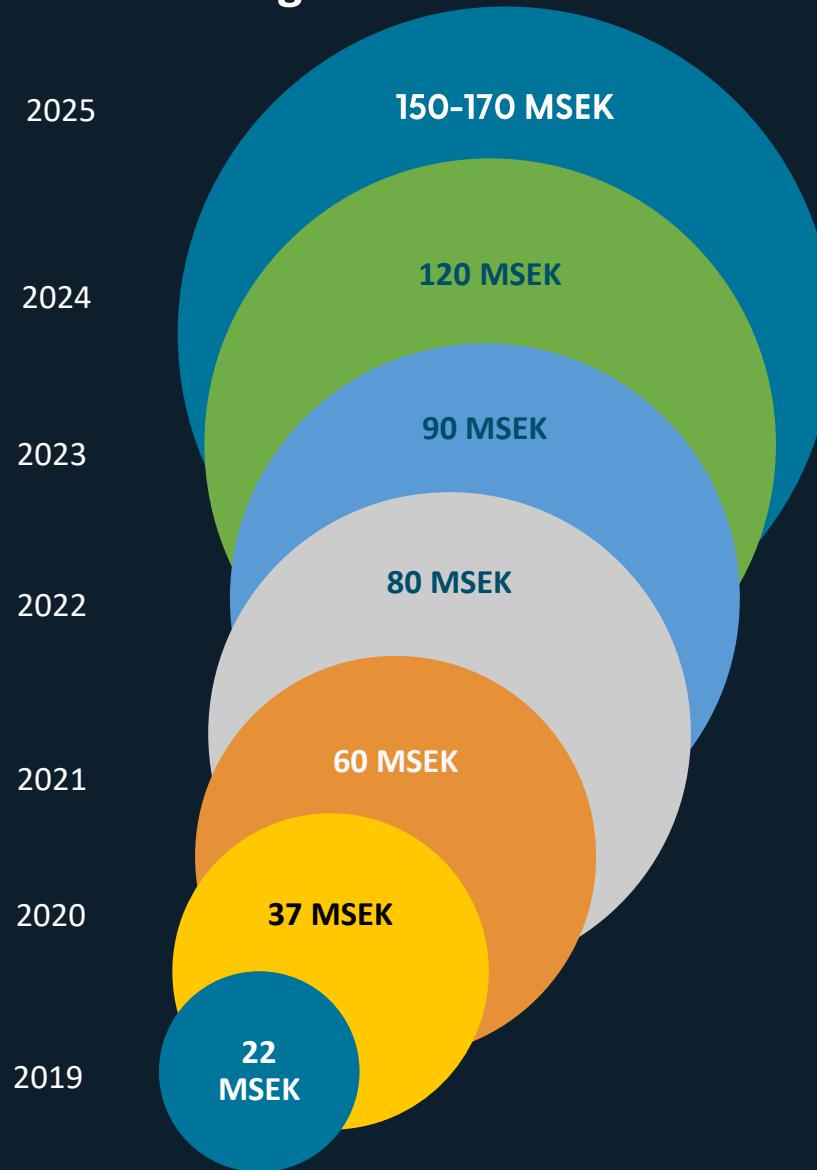
of AI Sweden partners collaborates with other partners in at least one project or initiative

Based on the annual partner survey

400+ executives

participated in tailored education sessions on driving value from AI adoption

Cash funding



New funding sources 2024

New Partners

Specific Partner funding (e.g. Dig Assistant)

Google.org

Tillväxtverket

Rymdstyrelsen

Energimyndigheten

European Social Fund

European Union

Nordic Innovation

Svenska Kraftnät

Almi

Vetenskapsrådet - acceptance process

Stift. för Strategisk Forskning – discussion ongoing,
acceptance as research institute

Trello Workspaces Recent Starred Templates Create

A AI Sweden Standard

Data Factory Partner Projects ⚡ Workspace visible Board

Confluence Power-Ups Automation Filter Share

BC CM +25

Boards Members Workspace settings Workspace views Table Calendar Your boards Data Factory [general items for... Data Factory Partner Projects Edge Learning Lab Kommunikation Johan NCL Open Nebula Operation Restack Partner journey process Space team todo Wizard Apprentice Opportunity Show less

Up to Premium

Agreement (before signing) RISE Rise - Whisper+GPTSWE experimentation Helsingborg City - Evaluate GPT-SW3 UNIVERSITY OF CAMBRIDGE Zenseact & Cambridge - On-device Training for Federated Learning using Sparsity DELL Technologies Testbed environment template - DELL - Gateway demo

Change requested (after signing) SYNDATA Syndata - Synthetic Data Sandbox + Add a card

Running in Training Environment eesa eesa@sweden.nu Natural Language Understanding KTH VETENSKAP OCH KONST KTH (Student Anim Modal) - Evaluating GPT-SW3 on its capabilities in supporting healthcare + Add a card

Running in the Training Environment (In) neodev Neodev - Experimenting for Equalizer NLU + Add a card

Running in Edge Learning Lab VOLVO Zenseact/VCC - Federated Fleet Learning NEW BOLIDEN Boliden Mineral AB - Ore Refinement Simulation + Photogrammetry benchmarking test (2 Use cases using the same resources) qamcom Qamcom - Electric Storage System Sizing and Control (Gotland Energy) PROACT VÄSTRA GÖTALANDSREGIONEN Proact/Stormgrid/VGR - miniVGR CHALMERS Chalmers (Student) - Decentralized AI

Running in Edge Learning Lab VOLVO Zenseact/VCC - Federated Fleet Learning NEW BOLIDEN Boliden Mineral AB - Ore Refinement Simulation + Photogrammetry benchmarking test (2 Use cases using the same resources) qamcom Qamcom - Electric Storage System Sizing and Control (Gotland Energy) PROACT VÄSTRA GÖTALANDSREGIONEN Proact/Stormgrid/VGR - miniVGR CHALMERS Chalmers (Student) - Decentralized AI

Perhaps a bit of simplification & taxonomy can help us



Semi-simplified:

- Machine Learning (ML)
 - Supervised Learning
 - Unsupervised Learning
 - Reinforcement Learning (RL)
- Natural Language Processing (NLP)/Natural Language Understanding (NLU)
 - Large Language Model (LMM)
- Neural Networks
 - Deep Learning
- Robotics
 - Spatial relations
 - Computer vision
 - Grasping objects
 - Motion control
- Expert Systems
 - Rule-based
 - Frame-based
 - Neural
 - Fuzzy
 - Neuro-fuzzy
- Fuzzy Logic
 - Singleton fuzzifier
 - Gaussian fuzzifier
 - Trapezoidal or triangular fuzzifier

Simplified

- Machine Learning (ML)
 - Numbers & Images
 - Predicts
- Generative AI
 - Text
 - Generates

Practical

- *Production AI*
- *Office AI*



Visitors



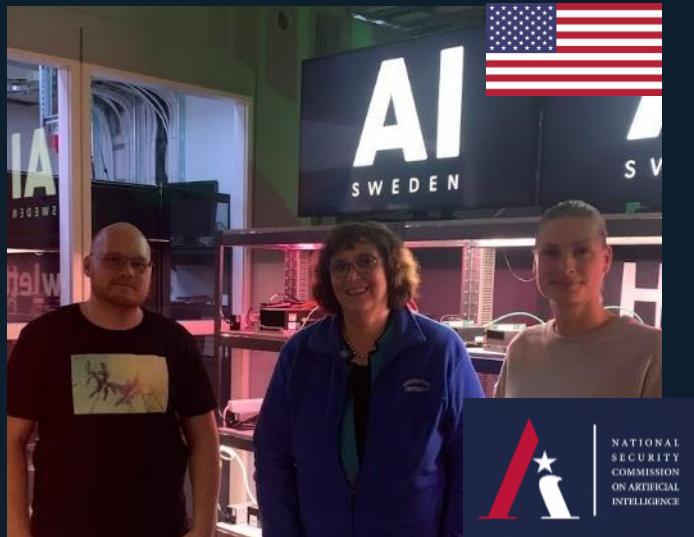
Erna Solberg



Kaja Kallas



Queen and King



José-Marie Griffiths DAKOTA STATE
UNIVERSITY



Bryan Reimer



Queen and King