

*We build AI-driven products  
for your competitive edge*

# SILO AI

*Europe's largest private AI lab*

2023





# Co-founders from AI & business

SILO AI SCIENCE



**Peter Sarlin**

Chief Executive Officer  
PhD

Professor at Aalto, PhD in ML/AI, ML advisor for ECB & IMF among others.



**Kaj-Mikael Björk**

Head of Research  
PhD

Adj. Professor at Åbo Akademi, 2 PhDs, Principal Lecturer at Arcada, ranked 6th Finnish ML researcher.



**Juha Hulkko**

Board Advisor  
Dr. (h.c.)

Founder of Elektrobot, now part of Continental AG.

SILO AI BUSINESS



**Tero Ojanperä**

Executive Chairman  
PhD

Ex-Nokia CTO, CSO & Head of Research, Fast Company's 7th most creative person in business.



**Ville Hulkko**

Business Development

Entrepreneur and co-founder of AI company Valossa & Blackbear Incubator in Palo Alto.



**Johan Kronberg**

Board Member  
Dr. (h.c.)

Former CEO & Chairman of PwC Finland.





# Silo AI Universe

**Silo AI is building a world with safe human-centric AI. We build AI for people.**

Silo AI was founded in 2017 to connect leading AI scientists with real-world problems and help companies succeed in building cutting-edge AI.


We set out to be the trusted AI partner, to assure companies stay competitive at a time when AI is globally being widely adopted. We set out to make sure Europe has a flagship AI company.

## 2017 Forming & storming

Silo AI was founded by Prof. Peter Sarlin, Tero Ojanperä, Johan Kronberg, Ville Hulkko, Kaj-Mikael Björk and Juha Hulkko.

Building the basis for company operations. Co-creating the shared value base: Build Bonds, Keep Learning, Be Good and Ask Why.

First partnerships with the goal of implementing production-grade AI. Started to collaborate international clients like Ramboll and Rolls-Royce.

 **Turku, Helsinki, Finland**  
**London, UK**

 **20**

## 2022 Execution & acceleration

Developing operations and focusing on execution. Doubling our revenue and team 3 years in a row.

Expansion of client base in automotive, maritime and devices. Onboarded global industry leaders as clients and partners, including Philips, Allianz, Meyer Shipyards, Sandvik, Körber, RCCL, Intel.

Entering a strategic partnership with Altor Equity Partners.

 **Palo Alto, US**  
**Stockholm, Sweden**  
**Copenhagen, Denmark**  
**Oulu, JKL, TRE, Finland**

 **200+**

## 2023- International scaling

Scaling Silo AI business internationally to help industry-leaders build production-grade AI in Europe and North America.

Strategic partnership with Wallenberg - founded Combient and acquisition of its AI subsidiary Combient Mix, and Dutch AI company Machine2Learn. Founded product arm SiloGen.

 **Amsterdam, The Netherlands**  
**Vancouver, Canada**  
**Washington, D.C., US**  
**Oslo, Norway**

 **300+ and counting**



# Who we are

*Europe's largest private AI lab*

# SILO<sub>AI</sub>

## What we do

Trusted AI partner. We build AI-driven solutions and products by providing world-class services and tooling.

## Our vision

AI for people. A world with safe human-centric AI that frees the human mind for meaningful work.

300+ experts

150+ PhDs

200+ production-grade AI

ML | CV | NLP | LLM

Cloud | IoT | Embedded

### Nordics

Finland, Sweden,  
Netherlands  
Denmark

### North America

United States  
Canada

### Europe

The  
Germany





# Our Values

TRUST IS OUR BOND

## Build bonds



We encourage a culture where successes are celebrated, learnings shared and support provided for our team members to succeed.

We connect with customers and always seek to understand how we can best help them, and make sure that we keep what we promise.

POSITIVE IMPACT

## Be good



We always strive to be transparent and open in our communications, take ownership and aim for positive impact and results in all we do.

We take pride in creating an equal and supportive workplace for talented and ambitious professionals from all nationalities, genders, orientations and backgrounds.

GROW TO EXCEL

## Keep learning



We aim for excellence by learning from the market, sharing our competence, and attracting talent with a growth mindset.

We believe that expertise is not an achievement - it's a lifestyle of curiosity, learning, sharing and working with people who share the same hunger.

KNOW YOUR WHY

## Ask why



Trust is our bond. We encourage a culture where successes are celebrated, learnings shared and support provided for our team members to succeed.

We connect with customers and always seek to understand how we can best help them, and make sure that we keep what we promise.



# Silo AI x Combient Mix

Combient Mix is the AI subsidiary of Combient Group, a leading cross-industry collaboration network, that brings together 35 of the largest companies in the Nordics.

Silo AI and Combient Group have embarked on a joint mission to increase European competitiveness by accelerating the adoption of industrial AI. Combient Mix has served the Combient network of associated companies since 2019 by advancing the use of AI and data in industry through long-term partnerships in co-developing AI-driven products and solutions.



H&M Group



ERICSSON 



 Epiroc



ASSA ABLOY

 fortum

 NCC

 LKAB





# Silo AI x Machine2Learn

Silo AI Netherlands, former Machine2Learn is a Dutch, Radboud University spin-off, that provides customized industrial solutions for quality control and vision inspection by combining the state-of-the-art machine learning algorithms with computational geometry and hardware engineering heuristics.

Their machine vision solutions provide critical quality control improvements in the semiconductor, logistics, machinery and manufacturing industry, serving international companies such as ASMPT ALSI, AkzoNobel, T-Mobile, and Unilever, among others.





# AI-driven products



Industry-leading digital products will be elevated by AI

*The focus should be on AI as a part of products*

- Creating value with AI requires the existence of an underlying digital product
- AI further accelerates value creation by improving products through each interaction
- AI solutions are bound not to create enduring value, unless they are built on an existing digital platform
- Succeeding in AI requires a commitment to long-term product development





# R&D for AI-driven products

## Design, planning & management

Technology planning  
Architecture design  
Service Design  
Personnel training  
Rapid prototyping  
Project management

## Machine Learning

Supervised learning  
Unsupervised learning  
Transfer & active learning  
Multi-objective optimization  
Reinforcement learning  
Recommender systems

## Computer Vision

3D, video, point clouds  
Object detection  
Generative AI  
Image segmentation  
Sensor fusion  
Image & object annotation

## Natural Language Processing

Large language models  
Generative AI  
Document classification  
Language generation  
Machine translation  
Speech recognition  
Conversational AI

## Software & Data Engineering

MLOps & DevOps  
Data engineering  
Software development  
Lifecycle support  
Project management  
Architecture planning

## Cloud AI



## Embedded AI



## IoT & Edge AI





# Partner with Silo AI

**Learn**  
together with our  
expert community



**Plan**  
together with  
Silo AI advisors

**Explore**  
together in Silo AI  
innovation projects

We help you build AI-driven products

As a partner, you'll have access to:

- **Build:** Long-term teaming & fast track to new talent
- **Plan:** Regular AI & business reviews to plan the future
- **Learn:** Silo AI content & trainings to upskill & develop
- **Explore:** Innovation projects to explore new areas





# Building AI-driven products

## Services & consultation

We provide experts as extensions of in-house teams or as complete teams for turn-key deliveries.

Expert profiles and team setups are tailored and adapted to fit changing R&D needs during product development lifecycles and support internal competence development.

## Customizable solutions

We provide AI components and infrastructure with maintenance and support.

Experts to customize existing components to customer-specific needs. Leverage Silo AI working environment and infrastructure.

6

COUNTRIES

10

OFFICES

300+

AI EXPERTS

150+

PHDS

200+

PRODUCTION-LEVEL  
AI PROJECTS



# Silo Operating Software

As a complementary offering to our services, Silo OS provides a proven toolbox to develop AI solutions and reliably maintain them.

## Silo OS Solutions

Productized solutions ready to be customized for your need.

## Silo OS Tooling

Infrastructure for robust and scalable AI development.





# SiloGen for trustworthy generative AI & LLMs

*SiloGen is a platform for trustworthy generative AI, covering data-centric development tooling, base models and specialized LLMs.*

*With SiloGen, Silo AI's large, experienced AI team helps companies build custom LLMs, covering many tasks:*

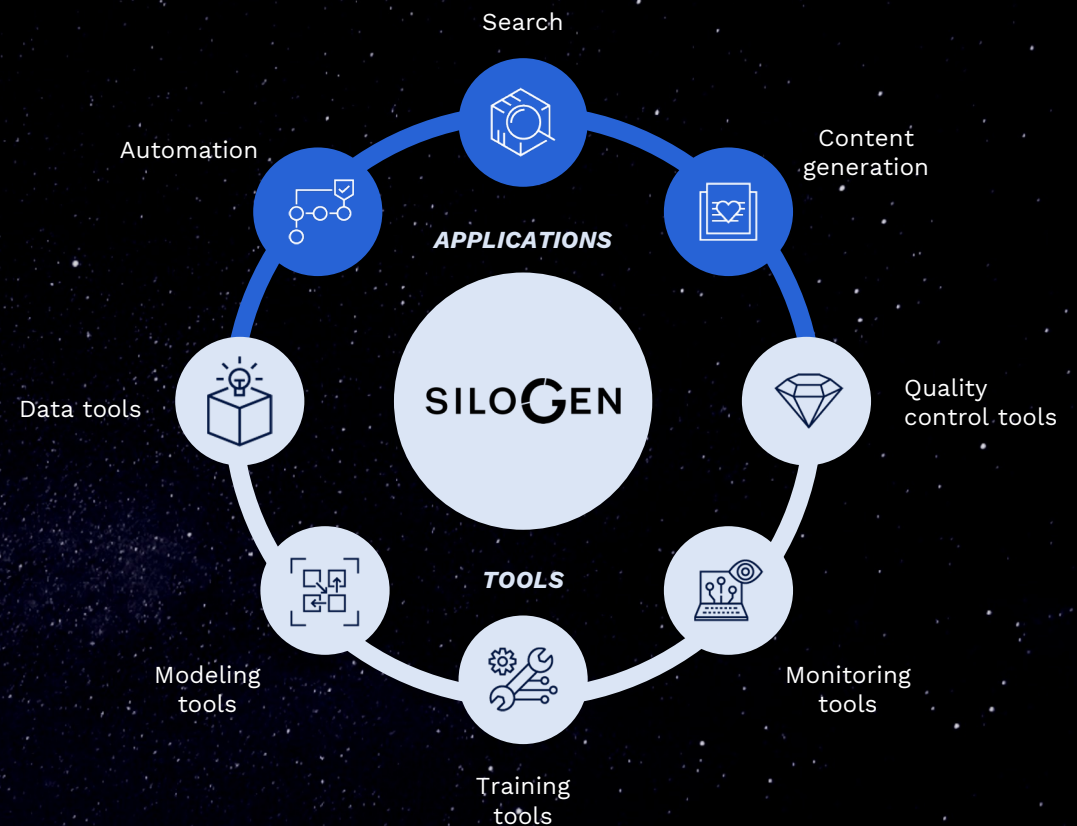
- *Training massive LLMs*
- *Fine-tuning LLMs for use cases*
- *Developing LLM based applications*

## Applications

Common use cases and applications of LLMs and generative AI.

## Models & Tools

Models and platform for robust and scalable LLM development.



# Focus segments & industries



## Smart machines

Automotive | Maritime | Heavy Duty Vehicles | Machinery | Mining | Forestry | Aerospace



## Smart devices

Consumer devices | Network equipment | Medical Devices | Semiconductors | Security



## Smart industry

Manufacturing | Process industry | Industrial IoT | Energy | Pharma | Chemicals | Cleantech



## Smart society

Logistics | Infrastructure | Retail | Construction | Finance





# Use cases & references

## Smart machines

Automotive | Maritime | Forestry  
Heavy Machinery | Aerospace



Advanced Driver-Assistance Systems



Intelligent Vessel Awareness System



Autonomous Heavy Duty Vehicles



Predictive Maintenance



Situational Awareness & Object Tracking

## Smart devices

Wearables | Smart Homes |  
Consumer Electronics | Industrial Devices



AI-based imaging for cameras and mobile devices



Web-scale search engine



On-device Point Of Interest Prediction



AI-based biosignal analysis



Cybersecurity & Intrusion Detection

## Smart industry

Manufacturing | Energy |  
Process Industry | Pharma



Visual Quality Control



Visual Anomaly Detection



Process Quality Prediction



Tool & Equipment Recommendation



Energy & Distributed Heating Optimization

## Smart society

Infrastructure | Logistics | Retail |  
Finance | Construction



Port Automation



Parcel Arrival Prediction



Real-time content personalization for e-commerce



Markdown optimization for e-commerce



Healthcare professional GenAI co-pilot

GROKE



PHILIPS

Kemira

RAMBOLL

Allianz

HIRI  
Honda Research Institute EU

intel



Danske Bank

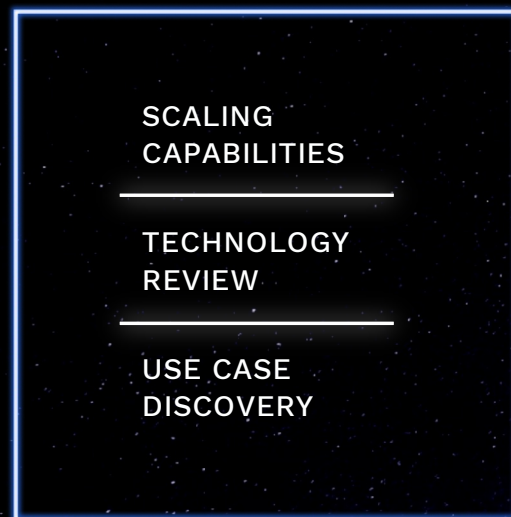
# We build AI as your competitive advantage

*From scattered AI projects, to AI at the core of your business*

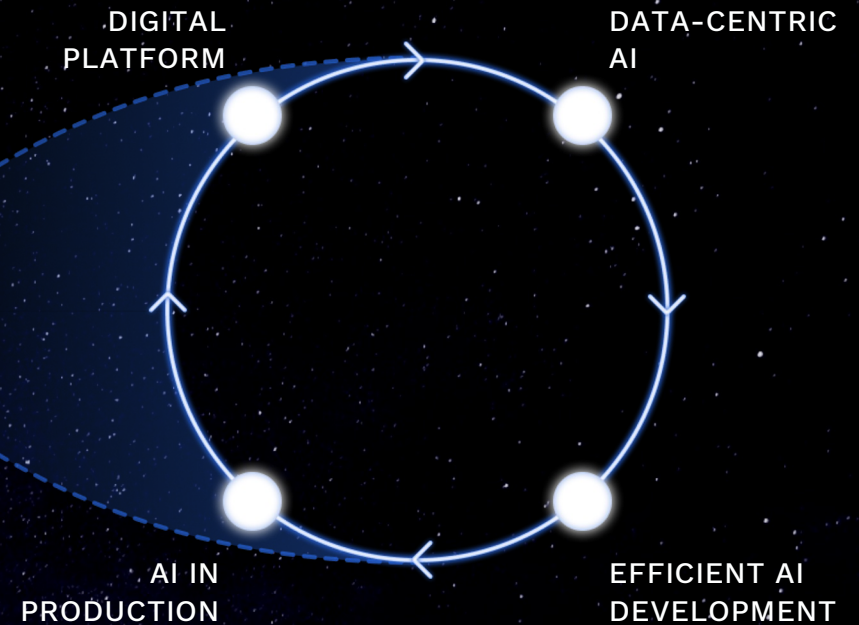
AI Enablement

AI READINESS

AI Deployment



SOLUTION CO-CREATION





# Get in touch with us

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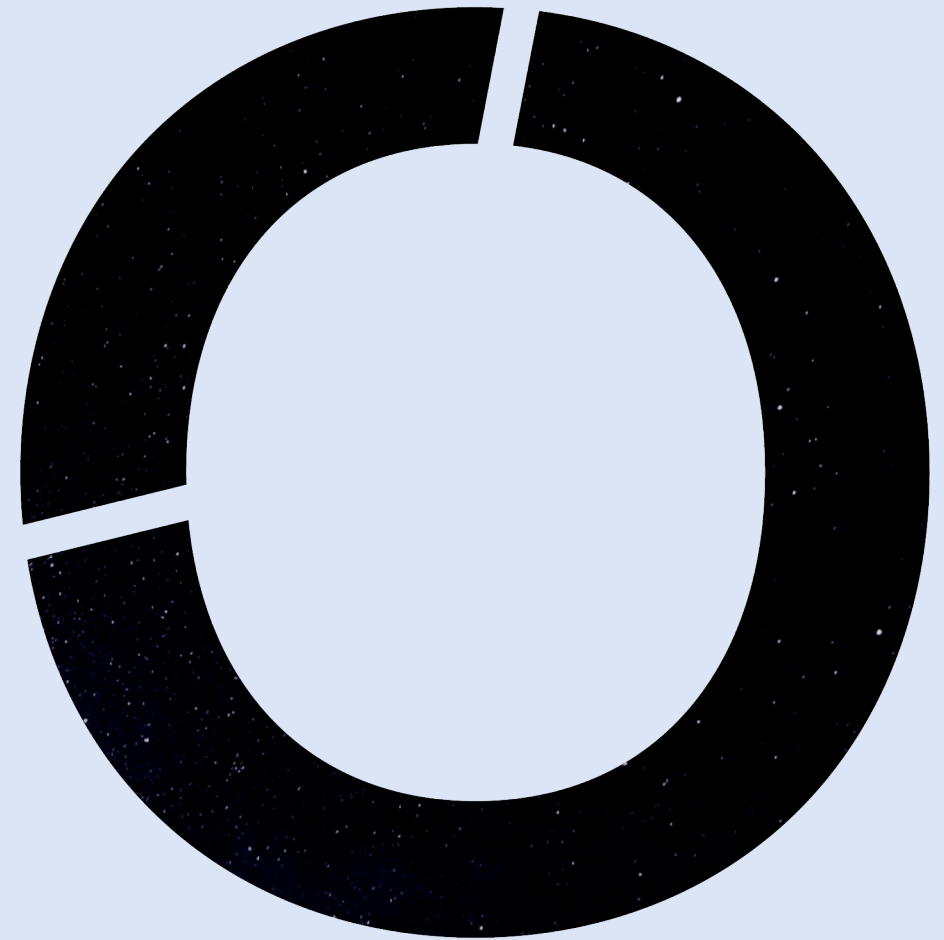
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