



Si-mAind

CREATING INTELLIGENCE
WITH EMOTIONS

MEMBER OF



Si-mAind vs Mila AI

In this short brochure we will explain the difference between Si-mAind as a company and our product Mila AI.

Si-mAind is a company that was established to come up with a solution to several technical and resource challenges that envelope the field of Artificial Intelligence. In that essence we have identified five fields of technical challenges that need resolution in order for humanity to become part of the age of industrial revolution 4.0 – aka the age of automation.

In that regard we are also aware that everyone of these challenges has its own market approach, market positioning and users all together.

Mila AI

Mila AI as a product houses many technological challenges that in our modeling infrastructure must be tackled at once. In the phase of idea we came to realization that a true and universal AI solution can't be developed if it doesn't include the following criteria:

- Efficiency
- Context
- Universal implementation
- Emotions
- Ease of use

Mila NET (from 2023)

For Mila AI to become distributed solution (most likely using blockchain technology), we have to address additional challenges that are different from the challenges that are part of Mila AI. Mila NET should be secure, enable users to both give and use distributed resources, enable incentivised economy and be redundant to changes. Mila NET is our approach to enable the creation of an ecosystem that will evolve in regards to the supply and the demand of the platform. The technical challenges we aim to solve are:

- Scalability
- Redundancy
- Security
- Ecosystem
- Easy implementation

Mila EDGE (from 2025)

A special kind of AI implementation will be a solution that is able to connect many partial edge pieces of AI neural network to a large central AI platform. Today we have no problem of connecting edge devices but their number is rapidly growing thus the bandwidth usage increases, context between sensors starts to make sense (like combining vision of cameras that are next to each

other), optimization and personalization in regards to the type of the sensor and more importantly the kind of data it is sending. The technical challenges we aim to solve are:

- Bandwidth optimization
- Edge resource intelligent optimization
- Hot Plug-and-Play of devices
- Hack proof and future proof
- Awareness

NEUROMORPHIC COMPUTING (from 2025)

Neuromorphic computing is a different way of saying that AI can be implemented in as a hardware, making the hardware able to process data 10-20 times faster than a software implementation. This is will be very likely a licensed solution for embedded systems that need small and fast decision making processes. Some of the challenges this process needs to resolve are:

- Physical limitations of the chips
- Electrical design challenges
- Memory bandwidth
- Processing power
- Heat disipation and energy consumption

ROBOTICS (from 2025)

Motion is a very different process in regards to intelligence. In that context it is a completely new approach that differs and also interlaces with the technological solutions above. Some of the challenges we have to solve are:

- Proprioception
- Self awareness in order to assess functionality
- Modeling of the environment
- Predicting the functions of the environment

Note: This white paper is intended to bring the reader's attention to the differences between Si-mAind and the product Mila AI, as well as the consecutive products Si-mAind plans to work on.

We thought it is important to emphasise the difference of the market positioning of Si-mAind and Mila AI have.



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