Advanced Machine Intelligence

ENABLING THE **NEXT AI REVOLUTION**

Dec. 2025

CONFIDENTIAL

HUMAN-LEVEL INTELLIGENCE

How **humans and animals** learn?

Humans and animals learn mental models of the world.

Their behavior is driven by objectives.

They can reason and plan complex action sequences by predicting the consequences of their actions.

The foundations of **real intelligence**:

- Self-supervised learning on any data source
- Understand the physical world
- Maintain persistent memory
- Perform long chains of reasoning
- Plan complex actions hierarchically
- Complete new tasks zero-shot and adapt quickly
- Controllable and safe

CURRENT AI IS USEFUL

The world is hypnotized **by LLMs and Generative AI**

What **works well**?

- Generating text, images, and videos by imitating patterns from massive internet data
- Acting as giant memory and retrieval systems
- Serving as natural language interfaces for simple workflow automation
- Reasoning over well defined problems (coding, math, ...) using discrete, low dimensional, and human produced tokens

CURRENT AI IS BOUNDED

LLMs are **fundamentally limited** and will not deliver **human-level intelligence**

i.e - LLMs **will not work in**:

- **Industrial processes** that depend on continuous, high-dimensional sensory modeling
- **Personal assistants** that demand real-time, true multimodal intelligence
- **General-purpose robotics** that require physical understanding and long-horizon planning
- **Agentic Systems** that can solve new tasks "zero shot" without prior training and adapt quickly
- **Any AI Systems** that must be controllable, and safe

Why?

Current generative architectures:

- Do not understand the physical world
- Can't really reason
- Do not have persistent memory
- Can't really plan

In short, lack of world models

Brute-force scaling of data and compute will not achieve human-level intelligence. Real-world AI impact requires a paradigm shift toward building world models powered AI systems that can operate on continuous, high-dimensional, and noisy data.

FUTURE AI CAN BE MUCH BETTER

The future of AI will be powered by **World Models**

WHAT IS A **WORLD MODEL**?

Input:

- an observation of a system
- an action or intervention

Predicts:

- the outcome of the intervention

Note:

- non-generative (does not predict every detail of the outcome)
- predictions in an abstract representation space

A WORLD MODEL POWERED **INTELLIGENT SYSTEM**

1 Models high-dimensional, continous, noisy data with **self-supervised learning**

2 Understands the physical world

3 Can reason, plan, and accomplish new tasks "zero shot"

4 Has persistent memory (factual, working, episodic, procedural,...)

5 Is controllable and safe with explicit safety guardrails

VISION

AMI Labs: enabling the next AI revolution with **world models**

OUR MISSION

Become the main provider of intelligent systems worldwide

EVIDENCE

The world model approach **works**: a fast growing research area with **plenty of results**

V-JEPA 2

Best video representation learning system in the world entirely self-supervised
Emerging intuitive physics understanding

Watch video demo

VL-JEPA

Vision-Language world model for high level procedural planning and state tracking

Watch video demo

NAVIGATION WORLD MODEL

Infers the displacement of a robot from a starting view and a target view

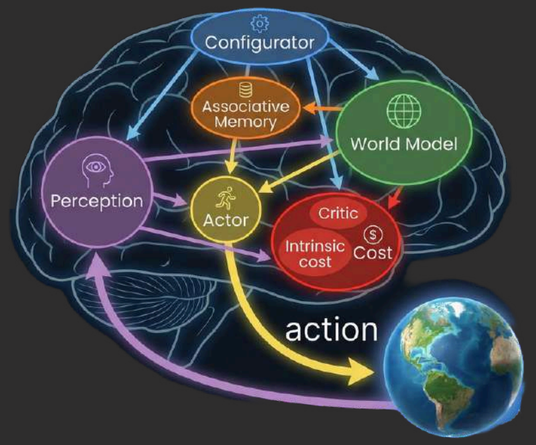
DINO-WORLD MODEL

World model enables zero-shot planning based on self-supervised features

ARCHITECTURE

JEPA + World Models + Memory + Planning

The long-term technical roadmap of AMI Labs is **to build an integrated, modular, cognitive architecture around a world model**



JEPA - Joint Embedding Predictive Architecture

Action-conditioned **predictive world models**

Large-scale **persistent memories**

Objective-driven inference through **optimization and search**

PATH

Our execution **Roadmap**

01 ADVANCED AI RESEARCH LAB

- Work on Infra + JEPA + WM foundations
- Refine methodology on WM training
- Building AMI Video Foundation Model

02 INDUSTRIAL PARTNERSHIPS

- Translational research & Industrial partners
- Develop global partners across key industries and set industrial multi-year partnerships to collect data.
- Work with partner companies to deploy AMI technology in their products and refine industrial use case

03 PRODUCTIZATION

- Become the leading provider of universal intelligent systems.

ORIENTATION & USE CASES

Developing the first Foundational **World Model for business**

Our world models provide

understanding, memory, prediction, and actions grounded in real world dynamics.

Smart manufacturing

WM interpret, compress, predict, and manipulate high dimensional sensory stream from engines and machines

AI Wearables

Operate streaming video personal assistant with persistent memory, broad contextual understanding, and visual grounding

General-Purpose Robotics

Enable personnal and industrial robots to fully apprehend to world they operate on

Enterprise automation

WM can pilot complex workflows in a business environment

BUSINESS MODEL

From Research to **Product**

Two revenue **engines**:

- Technology transfer with **partner companies**
- Product **Licensing** (APIs, B2B, later B2C)

TEAM

The world’s best minds in AI are **leading the next revolution**

Saining Xie

Chief Science Officer
GDM, NYU

Mike Rabbat

VP World Models
Meta

Yann LeCun

Chairman
NYU, Meta

Alex LeBrun

CEO
Nabla, Meta, Wit.ai

Pascale Fung

CRIO
Meta, HKUST

Min Lin

MoTS / SG head
Sea AI Lab, xAI

+ initial technical staff of 25 engineers and researchers
from OpenAI, Google DeepMind, Meta Superintelligence Lab, xAI, and ByteDance Seed, etc.

A GLOBAL FOOTPRINT FROM DAY ONE

Each location is responsible for a key pillar

PARIS

Research-to-Product

NEW YORK

Scaling

MONTREAL

Architectures

SINGAPORE

Infrastructure and Systems

COMPETITIVE LANDSCAPE

As world models become a buzzword, **our focus** sets us apart

WORLD MODELS AS **GENERATIVE SIMULATOR** 01

DEEPMIND GENIE **RUNWAY GWM-1**

- Trained primarily on video game data
- Simple action spaces (camera control, navigation, simple interactions)
- Extremely expensive (context brute-forcing)

WAYVE GAIA **TESLA**

- Limited domain: videos from driving cars
- Focus on producing synthetic data for policy training
- Not using WM for planning/control at inference time

WORLD MODELS AS **GENERATIVE INTERFACE** 02

World Labs

- Marble, their first product, is built primarily for generation of synthetic environments (3D gaussian splats)
- Generating front-end asset for games, content creators, architects and designers

WORLD MODELS AS **THE "PREDICTIVE BRAIN"** 03

AMI LABS

- Learn abstract representations of high-dimensional continuous observations, within which it makes predictions
- Ignore irrelevant and unpredictable details in the data (e.g. noise)
- Supports physical understanding, reasoning, planning and persistent memory
- Goes beyond what LLMs & other generative architectures are capable of

FUNDRAISING

We’re raising a **500m€ round**

MILETONES

1

INFRASTRUCTURE & DATA

Engineering foundation focused on system architecture co-design and streaming inference;
Data foundation covering data curation, filtering, and fast data loading;
Enables **scalable training** on 100 million+ videos and billion-scale models.

2

SCIENTIFIC MILESTONES

Solidify our methodology for world model architectures;
define relevant benchmarks for **scalable** world models;
build **AMI Video** as our first flagship model capable of understanding the physical world from continous video streams.

3

INDUSTRIAL PARTNERSHIPS

Integrate world models into **real world** scenarios such as industrial processes, wearables, and robotics, and validate initial industrial partnerships while identifying the most impactful use cases, and initiate a data flywheel.

THANKS

LET’S BUILD **HUMAN-LEVEL INTELLIGENCE**
TO ELEVATE HUMANITY

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