NeuroCompute.cloud

Non-digital AI Compute Infrastructure

Cloud access to memristor-based neuromorphic hardware — a path toward low-energy, adaptive AI and European compute sovereignty.

Neuromorphic cloud

Organic memristors

Future compute

AI needs more than bigger GPUs

Future AI compute is becoming an energy, access and sovereignty question.

⚡ **Digital AI bottleneck**

Rapidly growing model size pushes compute demand, cost, power and infrastructure dependency.

≈ **Not every workload is matrix scale**

Temporal, adaptive and bio-signal workloads need memory, dynamics and learning in hardware.

EU **Europe needs options**

AI sovereignty needs alternative compute layers — not only imported GPU capacity.

Post-silicon compute layers

Memory + processing
In one physical element

Event-driven dynamics
Sparse temporal signals

Adaptive state
Learning without full retraining

Organic memristors: why this substrate matters

A human-like, material-level compute primitive for selected adaptive and temporal AI workloads.

Energy efficiency

Event-driven and in-memory dynamics can reduce data movement and power for selected tasks **up to 10K times**.

Dynamic learning

Device state changes with signal history — a physical analogue of adaptive synapses.

Flexible devices

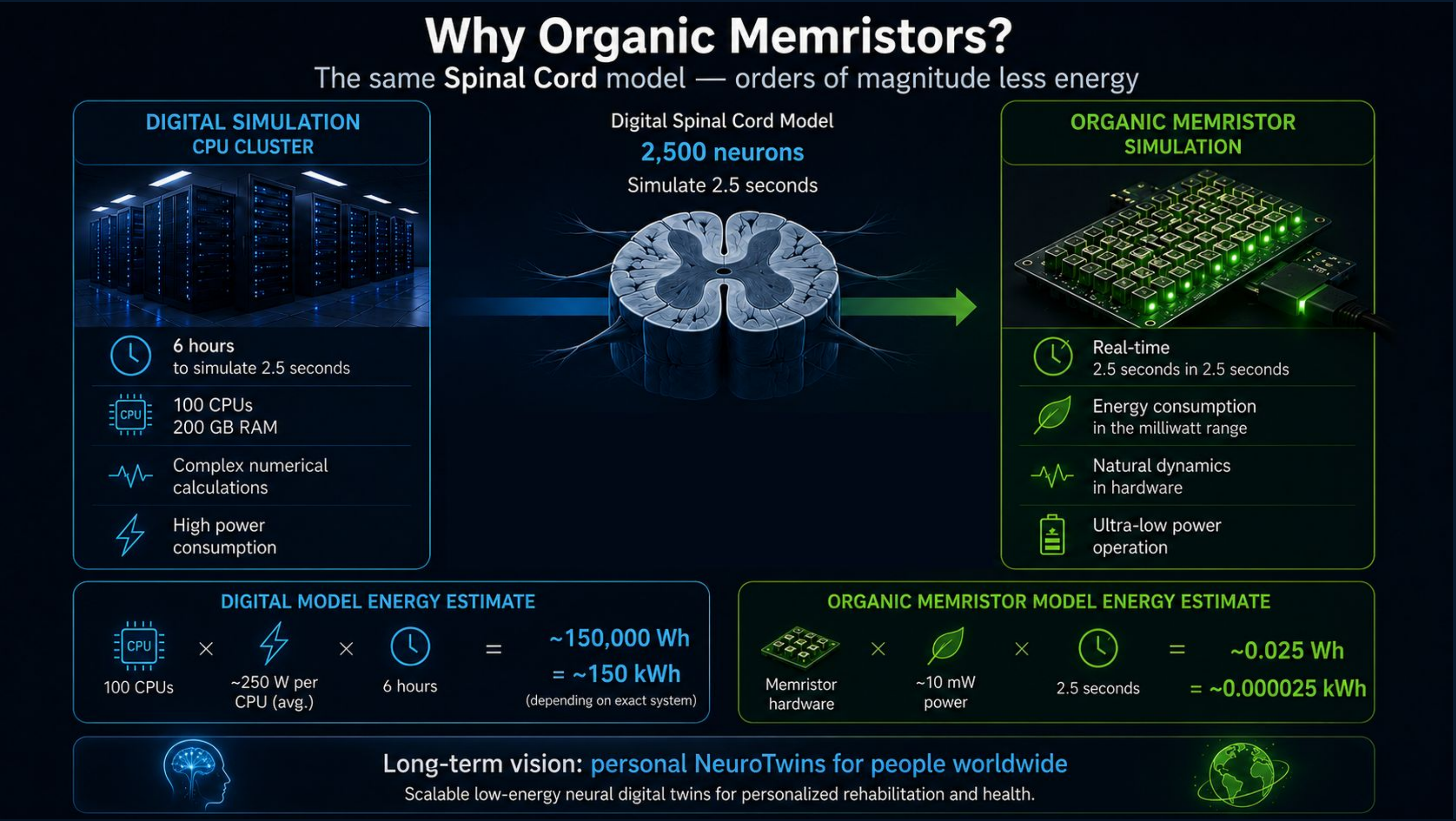
Organic materials support flexible, low-weight, bio-interface and wearable form factors.

3D / printed customization

Printing routes can reduce material waste and enable faster device iteration.

What makes it different The device does not only store a bit. It behaves as a small dynamic system: memory, switching, timing and adaptation are part of the physical material.

Benchmarks for a spinal cord



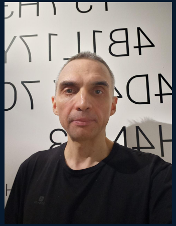
Team and moat: the core investment case

World-class organic memristor expertise + a platform to translate it into infrastructure.

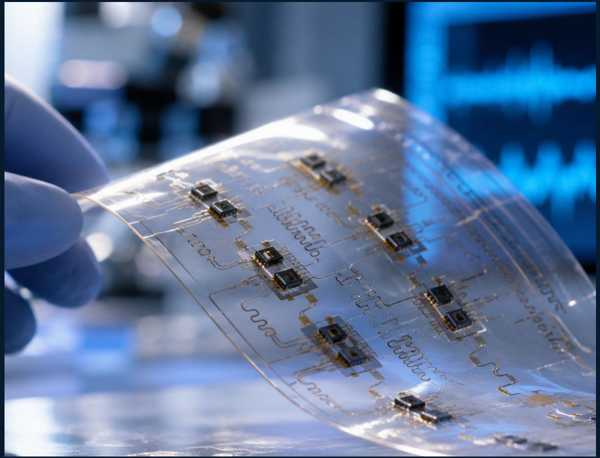
Victor Erokhin

Maxim Talanov

Konstantin Zhigunov



Oleg Pravdin



200+
research works in the field

10+
patents and IP assets

15+ yrs
organic memristor research

S **Scientific moat**

Deep device know-how: materials, printing, characterization, dynamics, failure modes and repeatability.

P **Platform moat**

Software layer, calibration logs, device health data, experiment templates, APIs and user workflows.

C **Commercial moat**

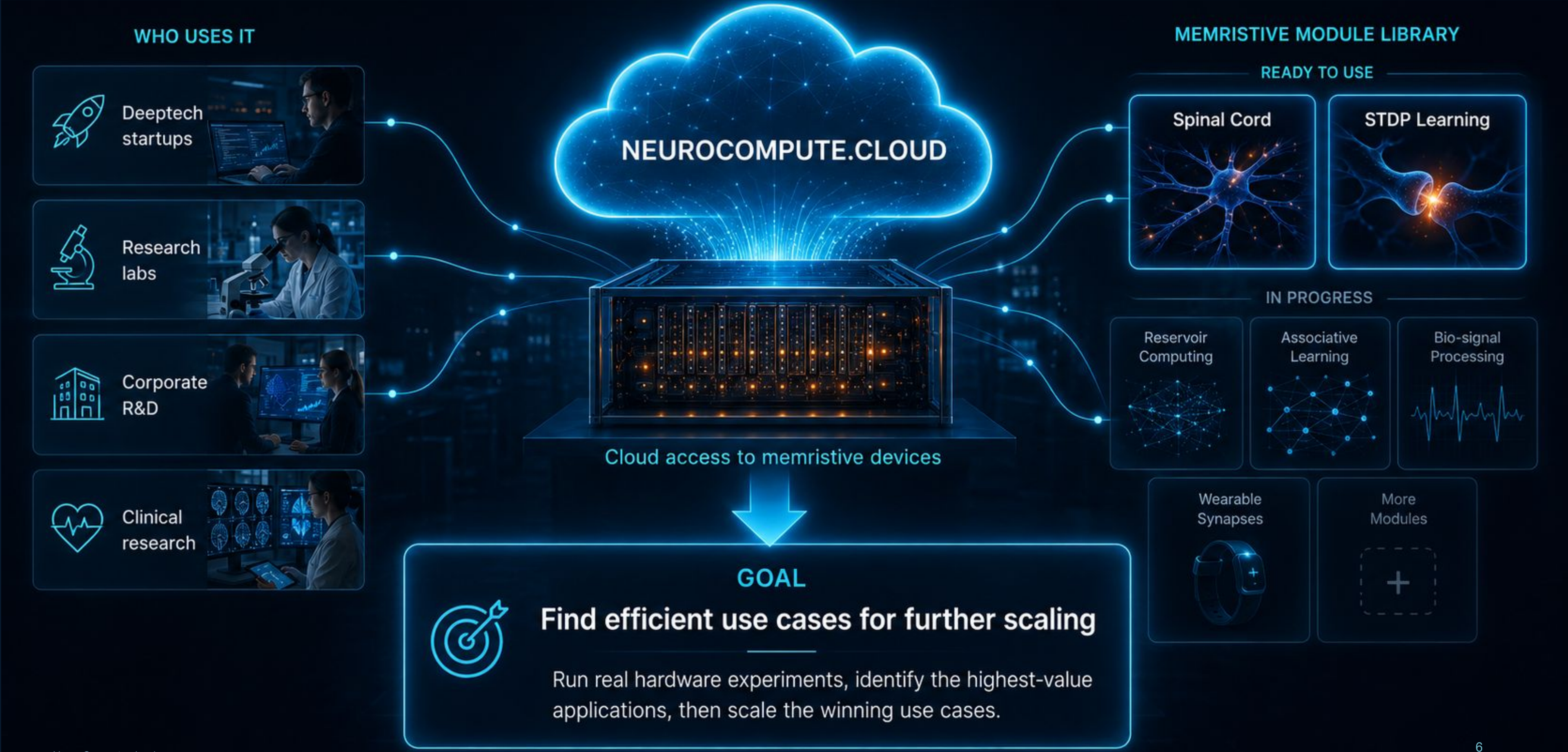
Research network, clinic relationships, grant routes and early access to real-world demand.

E **Execution moat**

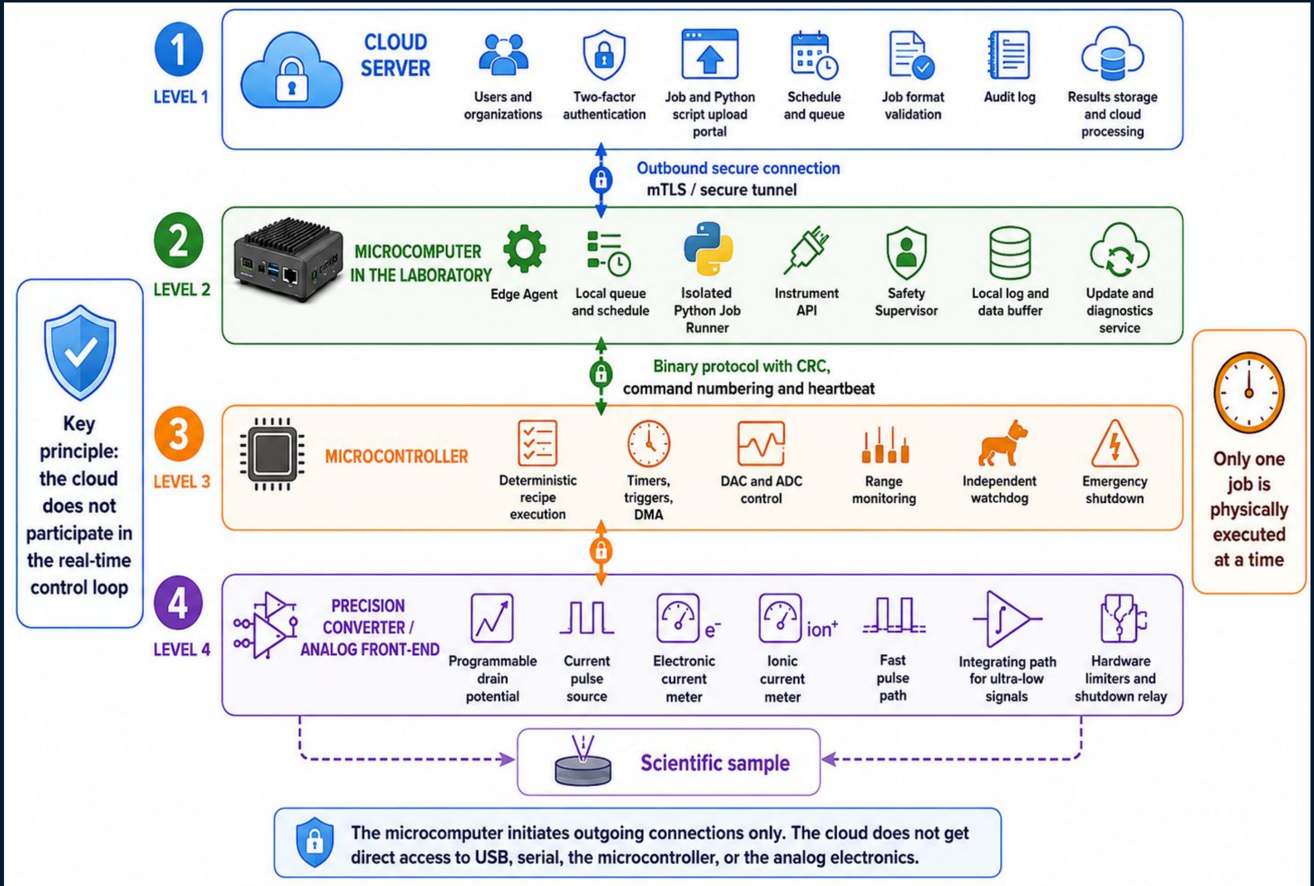
Founders combine world-leading science with product, cloud, engineering and business development.

Investor message The biggest de-risking asset is the team: rare hands-on expertise in a field that few companies can execute.

First step: find and prove the best applications for scaling



NeuroCompute basic architecture



Next steps: scale best applications

1 BEST APPLICATIONS IDENTIFIED

Validated Use Cases

Most promising applications discovered through experiments

- Neurorehabilitation
- Neurostimulation
- Wearables
- AI at the Edge

2 RAISE NEXT VENTURE ROUNDS

Next Venture Rounds

Capital to scale what works

- De-risked by experiments
- Clear product-market fit
- Scalable unit economics
- Attractive growth potential

3 BUILD PRODUCTION INFRASTRUCTURE

Production Memristive Data Centers

Deploy large-scale hardware infrastructure for proven applications

Scale from one experimental hub to multiple production centers

4 SERVE GLOBAL MARKET

Global Deployment

Deliver compute to customers worldwide

- Clinics & Hospitals
- Enterprises
- Research Labs
- Device Companies
- Application Providers
- System Integrators

5 EARN VIA USAGE

REVENUE MODEL

Per-hour compute rate

Customers pay for access to production memristive computing capacity

- Usage Measured
- Pay-as-You-Go Billing
- Predictable Costs
- Scalable Revenue

Value for labs, researchers, startups, students & grant holders

The proposal is strongest when each party keeps its natural role and benefits from the shared network

Remote Lab Access Network

Memristive labs

More utilisation, visibility, co-authorship opportunities. Potential reimbursement/support for eligible activities, subject to COST rules.

European Grants

Concrete resource-pooling mechanism for training, benchmarking and WG collaboration.

Researchers, students, startups

Access to real experimental devices without buying hardware or travelling to each lab.

NeuroCompute

Application-discovery engine: experiments, logs, benchmarks and reusable workflows.