



Siml.ai

WORKING WITH **160**
PILOT USERS
480% GROWTH SINCE
ALPHA LAUNCH

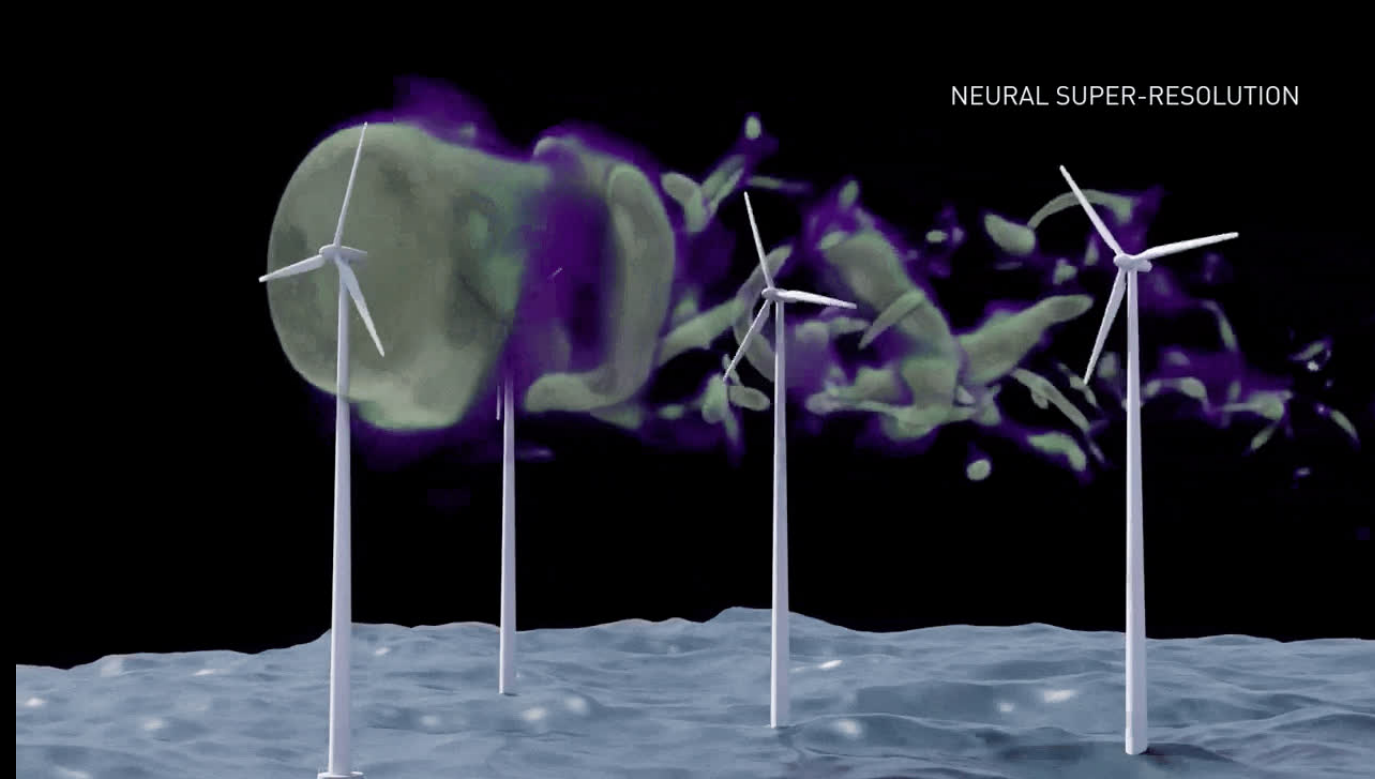
The platform for AI-based physics simulations

Imagine you're designing a hydro power plant. It's critical your solution prevents future mistakes, reduces complexity and cost. Traditionally the process took years and cost millions, requiring expensive compute.

Siml.ai does it 10-100x faster



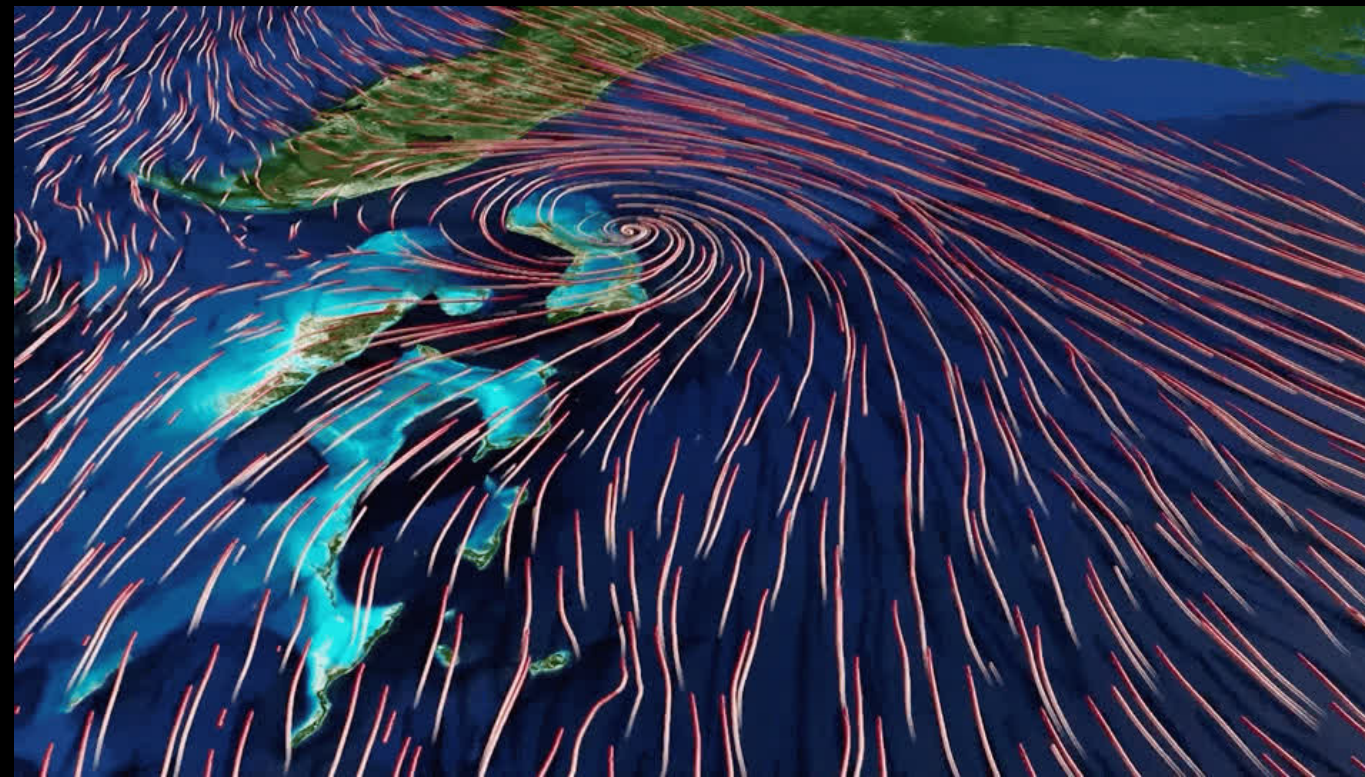
WITH SIML.AI YOU CAN SAVE TIME & COSTS



The time of virtual physics experiments is cut to

HOURS

instead of days or weeks



With AI, simulations are up to

50,000x

faster



Powerful hardware is in the cloud, available in

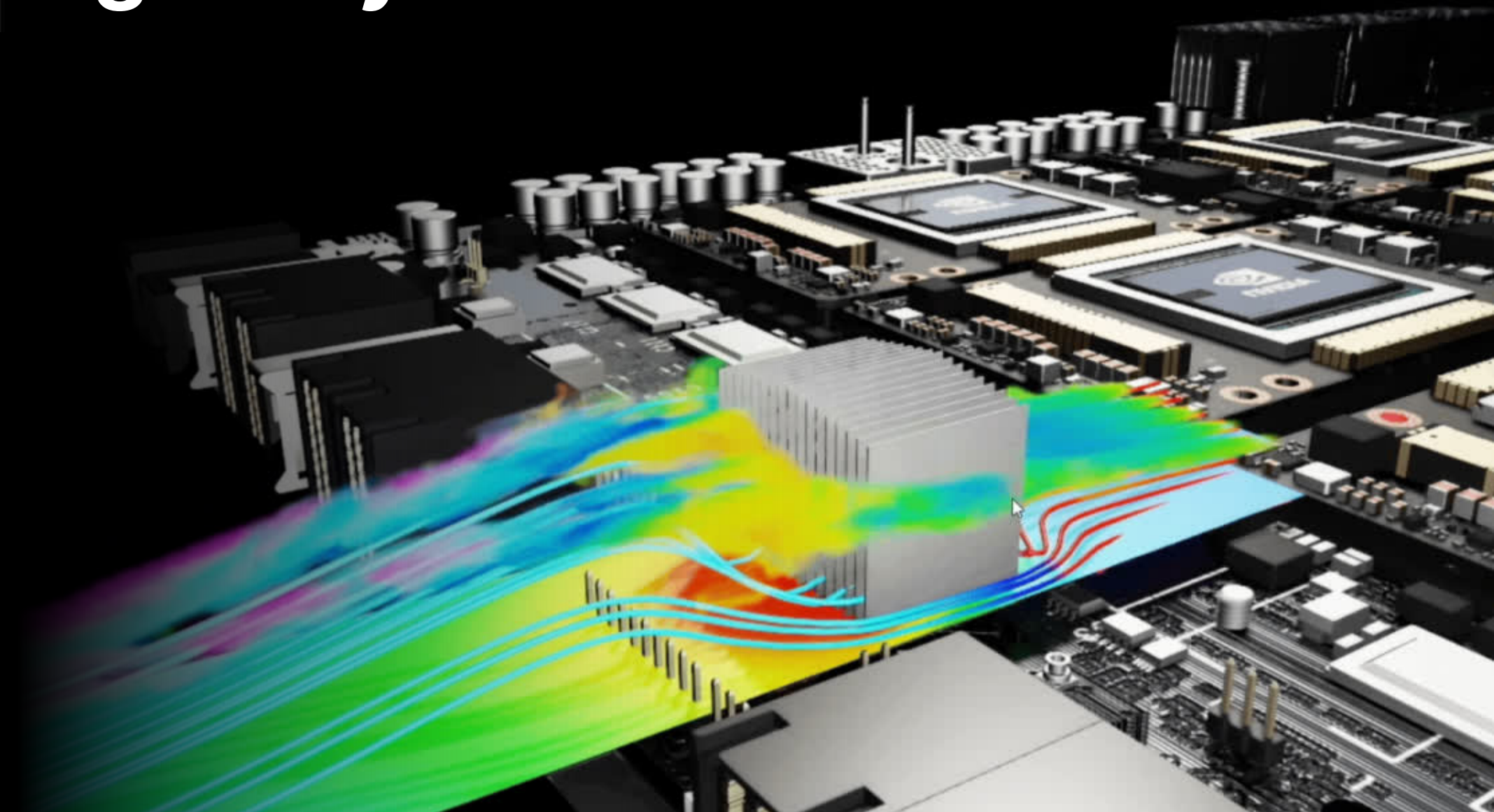
1 CLICK

on the web-based browser



OUR MISSION

To democratise scientific-grade simulation tools by making it easy for **anyone** to develop physics-based simulations and deploy them in their workflows, regardless of their technical skills. By making scientific simulation almost **real-time**, **user-friendly**, and **accessible**, we want to reach all engineers and physics enthusiasts **globally**.



CUSTOMER PROFILE (FOCUS ON INDIVIDUALS)

1.

CFD Engineers. Works at the engineering consultancy company or/and at the Technical University. They need a reliable, no-code, web-based, fast simulation platform. They create technical analysis about the simulated product or technology characteristics and in academic setting, they write research papers and use Siml.ai for research data.

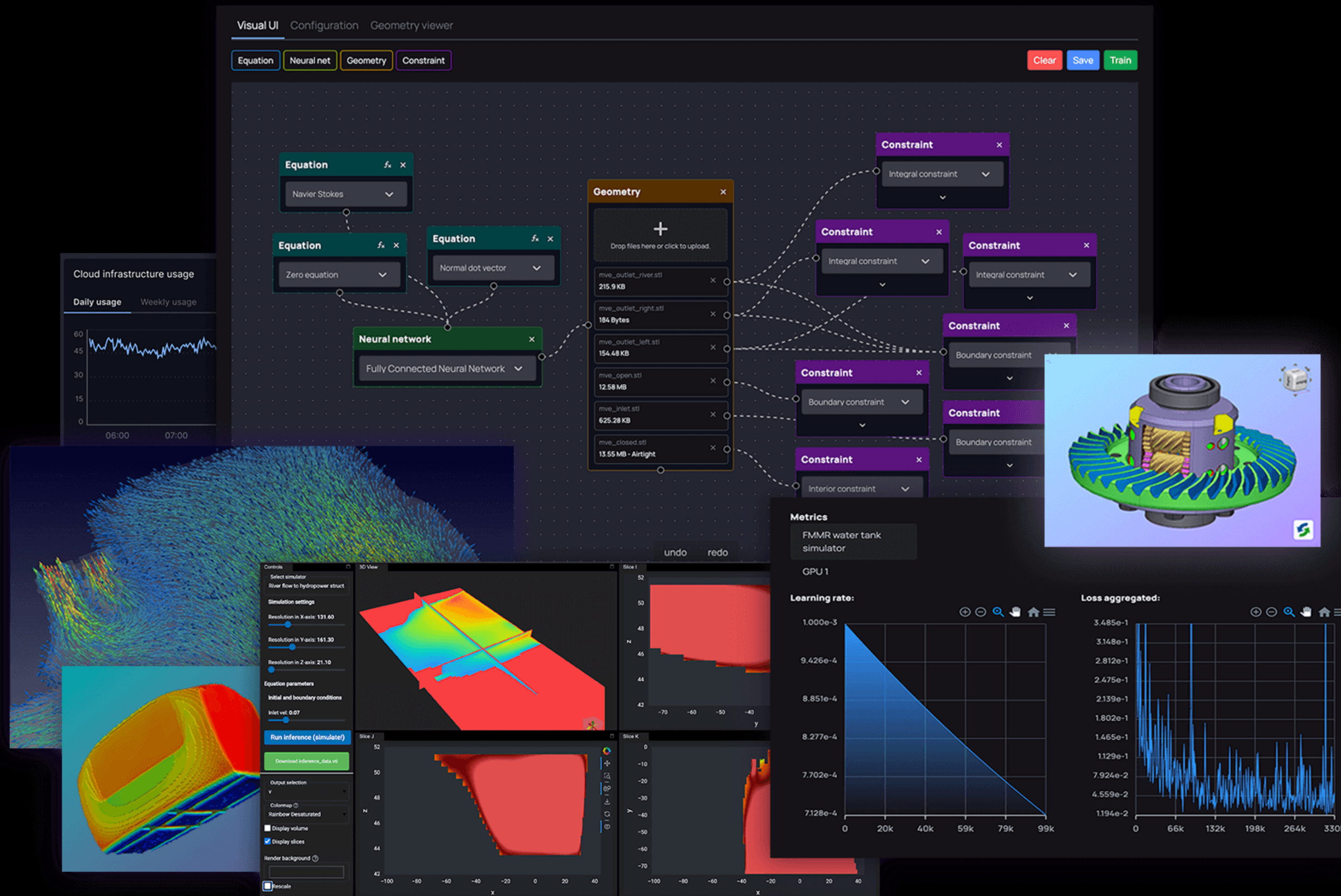


2.

Engineering/Physics students. They need reliable scientific simulation software for their research papers and other practical projects. Perhaps they have access to another software through their universities, but the interface is slow and complicated, with an outdated design. They want something modern, fast, and affordable.



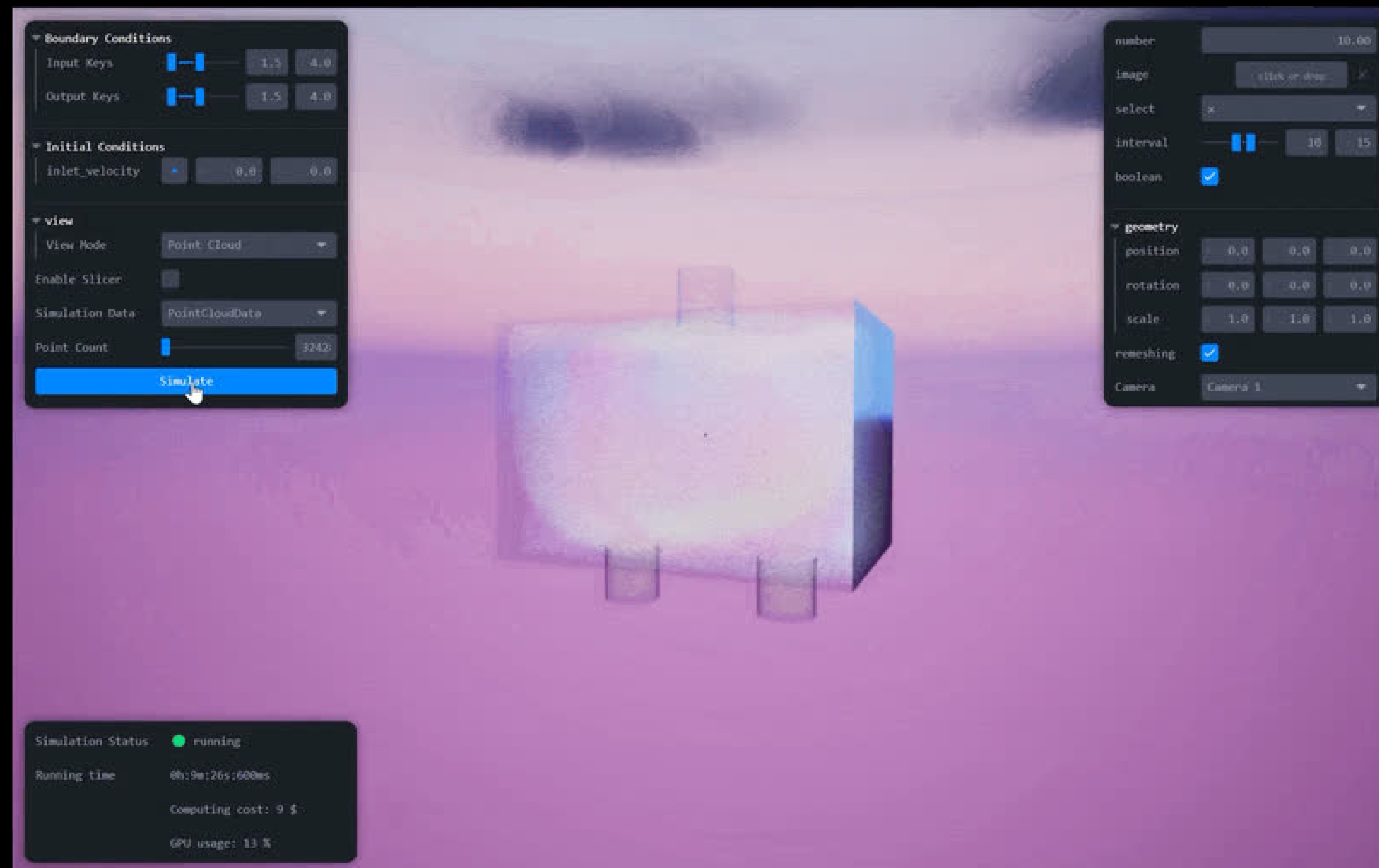
PRODUCT / MODEL ENGINEER



- **Pre-built models** and examples
- **Bundled equations** for multiphysics, CFD, heat transfer, acoustics, seismics, electromagnetics; or **you can implement custom physics solvers yourself**
- **Easy-to-use** visual interface
- **No-code** / Low-code
- **One-click** access to robust cloud infrastructure for training AI models
- Build **interactive web apps** on top of our **Simulator Inference & Training Environment (SITE)**
- **Monitoring** dashboards
- **Dataset preparation**



PRODUCT / SIMULATION STUDIO



- **Interactive visualization tool** for numerical simulation and virtual physics experiments
- **Explore hundreds of variations** by running **simulations in seconds**
- **Automated optimization** of complex geometries
- Fastest way to build digital twins that need **real-time physics** simulation
- Support for **virtual and augmented reality** in Q4 2023



OUR CURRENT PRICES

FREE	STARTER14-DAYS TRIAL	STANDARD14-DAYS TRIAL	PRO14-DAYS TRIAL	ENTERPRISE
<p>ALWAYS FREE</p> <ul style="list-style-type: none">• Up to 3 public simulators in Model Engineer• Access limited to one Tier 1 computing resource <p>CHOOSE PLAN</p>	<p>€199/ month</p> <ul style="list-style-type: none">• 50GB SSD storage included• Store datasets of up to 25GB• Access up to Tier 2 computing resources• Up to 10 simulators in Model Engineer <p>CHOOSE PLAN</p>	<p>€499/ month</p> <ul style="list-style-type: none">• 250GB SSD storage included• Store datasets of up to 100GB• Access up to Tier 4 computing resources• Up to 20 simulators in Model Engineer• Up to 20 simulators in Simulation Studio <p>CHOOSE PLAN</p>	<p>€999/ month</p> <ul style="list-style-type: none">• 1TB SSD storage included• Store datasets of up to 250GB• Access of up to Tier 6 computing resources• Unlimited simulators in Model Engineer• Unlimited simulators in Simulation Studio <p>CHOOSE PLAN</p>	<p>Have a bigger challenge to solve?</p> <ul style="list-style-type: none">• All features from Pro• Custom computing resources with tens of GPUs• 24/7 support• Custom simulator development <p>CHOOSE PLAN</p>

What means “Access to Tier X computing resources”?

Running AI model training & inference workflows inside Siml.ai is billed on “**per-minute**” basis **while the server instance is running** in the cloud, **additionally** to the monthly/yearly subscription the user is paying.



PILOT CLIENTS



DimensionLab is working with **Kovohuty Krompachy** to integrate Siml.ai into their workflow to achieve **10% cost reductions of metallurgical processes** (~€100k/week) and **process time reduction under 24 hour/cycle**.

RFB
S.r.O.

Siml.ai helps **RFB's** engineers **increase hydroplant's energy generation efficiency, optimize water structure endurance against strong floods**.



Siml.ai is being integrated into **TUKE's** software library used by their researchers for **commercial and research simulations across metallurgy, aerospace, automotive, manufacturing, material science structural mechanics, and civil engineering**.



DimensionLab team developed a **PoC AI model for near-real-time predictive maintenance** of automatic gearbox, which is **5,000x faster** than **AUFEEER Design's** proprietary **MATLAB-based model**.

ECOCAPSULE

Siml.ai was used to create AI simulator that can **analyze 10's of insulator materials** in for **multiple temperatures within seconds, reducing the time-to-market** of **Ecocapsule's** new model v2.



Takeda Pharmaceuticals reached out to DimensionLab to develop **high-fidelity digital twin with integrated AI simulators** for **modularizing and speeding up their R&D process**.



PRODUCT VALUE AND GROWTH



Data-driven AI model for predictive maintenance in the automotive industry:

- 99.77% prediction time reduction
- 430x faster (from ~6h to 50 secs)
- 99.88% reduction in compute costs
- 98.52% energy saved, (significant reduction of CO2 trace), unlocking near-real-time iteration times for hardware analysis
- Working on a joint collaboration with Škoda

The logo for ECOCAPSULE consists of the word 'ECOCAPSULE' in white, uppercase, sans-serif font, centered within a solid blue oval.

ECOCAPSULE

Pioneering sustainable living spaces, adaptable to diverse environmental conditions:

- Optimized Heat Transfer in Ecocapsule v2
- Pre-trained simulator for fast experimentations with multiple material properties and outside temperatures between -25°C and +50°C
- 70% enhanced thermal efficiency
- 60% reduced energy consumption

158+ users of Siml.ai

480% growth since the alpha launch on July 3rd

127% growth

in newsletter subscribers since September



MEET THE TEAM



Co-founder & CEO

Michal Takac

13+ years SW engineering experience across various SaaS / crypto / metaverse / AI startups, co-founded 4 startups. PhD in Cybernetics. Slovak Student Personality of the Year 2021 in the category of metallurgy, engineering and energy.

 [/in/michaltakac/](#)



Co-founder & CFO

Peter Macinsky

Strategic manager. Peter is a serial entrepreneur in fintech with a strong IT background. Helped to start Solar Turbines (USA) collaboration with R&D team at Ness Košice.

 [/in/macinsky](#)



Co-founder & BizDev

Branislav Krsak

Academic consultant in 100+ international projects, PI in 27 projects, R&D commercialization facilitator.

 [/in/branislav-krsak](#)



Co-founder & VP Eng.

Martin Muzelak

Previously SW engineer at IBM. Finalist at IBM Hack 2019. 2nd place at Falling Walls Lab 2022, PhD. candidate in Cybernetics.



 [/in/martin-muzelak](#)



Head of R&D

Fouzia Adjaliala

Pioneer researcher in the field of AI & robotics, ambassador for women in STEM with a particular focus on AI. Keynote speaker at major conferences.

 [fouziaadjailia.com](#)
 [LinkedIn profile](#)



Senior SW Engineer

Maros Pekarik

8+ years of experience in SW engineering and interaction design, specialist in virtual spaces and interactive design. Creative technologist active in robotics and immersive media art.

 [/in/marospekarik](#)





Reach us at

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Thank you!

Made by
DimensionLab

Partners



INCEPTION
PROGRAM



challenger
ACCELERATOR

ClimAccelerator
Baltics & Slovakia

