

PHYSICAL AI Community

Before The Next Mission

**ENGINEERING****Inside AIME****MODELS****JEV Explained****COMMUNITY****Join The Pilot**

OCTOBER 2026

READING TIME 2 MIN

Contents

03 STATE16 Update

Mission testing and guardrails

04 New Models

JEV, Praxis-1 and Dyna-2.1

05 Funding

Rounds, M&A and public research

06 AIME Platform Catalogue

Eight platforms in 3D

07 Webinar & Events

Live session and global calendar

08 Physical AI In Numbers

2026 shipments and market share

09 Researchers

Five teams to follow

10 Startups

Ten specialist builders

11 Physical AI Essentials

Learn with simulators

12 Pilot & Community

Work with STATE16

**FOUNDER'S NOTE**

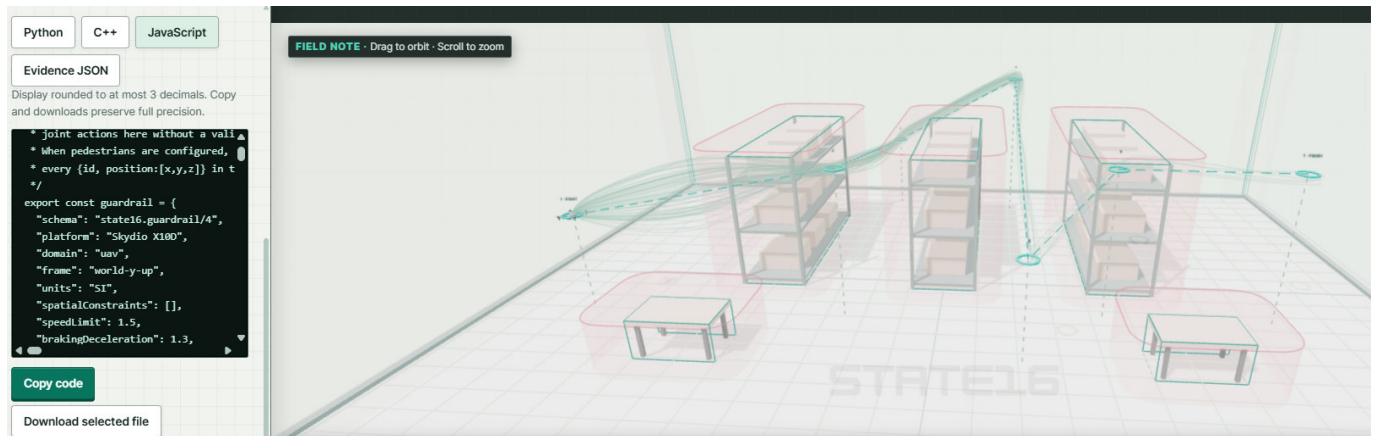
Where Does It Stop Working?

Dr. Barak Or / Founder & CEO

A successful demonstration is a beginning. The harder work starts when a route changes, a sensor becomes unreliable or a recovery takes longer than expected. Knowing the limits of a system is part of the confidence to put it to work.

That is the engineering culture I want STATE16 to help build: teams willing to share difficult cases, compare what happened and challenge their assumptions. This community brings researchers and builders into the same conversation. My hope is that each issue gives you one useful question to take back to your team - and a reason to share what you learn.

Inside AIME



GUARDRAIL GENERATOR

STATE16 product interface

AIME brings mission setup, failure analysis and guardrail testing into one engineering workflow for drones and autonomous mobile robots.

01

Reproduce The Failure

Seeded Monte Carlo trials retain the configuration and motion logs needed to revisit a simulated failure.

02

Compare The Intervention

Test no-go zones and speed limits with guardrails off and on. Compare platforms of the same type under matched conditions.

03

Export The Evidence

Carry guardrail code, configuration, tests and logs into engineering review. Integration still needs validation in your robotics stack.

[Explore AIME >](#)

Simulation results describe modeled behavior, not field certification.

The Decision Layer

JEV

TYPESAFE AI

Decisions, Not Generated Text

Jev is TypeSafe AI's System One model. Given a situation and a question, it returns structured outputs that software can act on:

Choice

Select one of the options.

Score

Rate against a rubric.

Noul

Estimate whether a statement is true.

For robotics: a possible supervisory role is selecting the next task or ranking recovery options from a state summary.

Jev is not a world model, VLA policy or safety controller. Outputs can include confidence; a formatted decision can still be wrong.

[Model announcement >](#)[API guide >](#)[Evaluation / preprint >](#)

Praxis-1

VIDEO TO ACTION

Runway adapts video pretraining into a robot world-action policy. Noble Machines, Standard Bots and Ultra are early partners. Access is pre-launch; public open weights remain planned.

[Runway / research >](#)

Dyna-2.1

TASK ORCHESTRATION

DYNA joins an action model, a vision-language orchestrator and a whole-body controller on Taku. Its company-published, one-hour laundry demo shows task sequencing and recovery.

[DYNA / demonstration >](#)

CAPITAL / INVESTMENT

READING TIME 2 MIN

Capital In Motion

Funding, acquisitions and public research programmes.

ANNOUNCED ROUND SIZES

USD / LINEAR SCALE

TEKEVER

SERIES D

\$580M

First close covers most of the announced round. UC Investments and Baillie Gifford lead funding for autonomous systems and industrial expansion.

[Announcement >](#)

SiMa.ai

SERIES C

\$150M

Fidelity and Amplify co-lead investment in edge-AI silicon and software for robots, drones and automotive systems.

[Announcement >](#)

Multiply Labs

SERIES B

\$75M

Dr. Patrick Soon-Shiong with NantWorks leads the round to expand robotic biomanufacturing, product development and hiring.

[Announcement >](#)

Fortem

SERIES B

\$50M

The closed round backs autonomous counter-drone systems and manufacturing. It includes Lockheed Martin's earlier \$25M tranche.

[Announcement >](#)

M&A AGREEMENT

AMD + World Labs

AMD agreed to acquire World Labs in an approximately \$8.2B all-stock deal, subject to closing conditions. Acquisition consideration, not a funding round.

[Primary source >](#)

PUBLIC RESEARCH

NSF X-Labs

AI for Physical Systems is a new X-Labs topic.

[Primary source >](#)

AIME / PLATFORM CATALOGUE

READING TIME 1 MIN

Meet The Platforms

Aerial and ground models from the AIME library.

AIR



DJI Mini 5 Pro



Skydio X10D

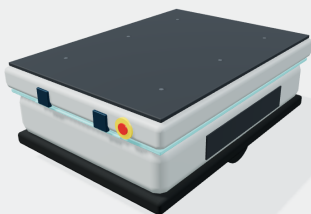


Percepto Air Max



DJI Matrice 350 RTK

GROUND



MiR250



OTTO 1500



Nova Carter P1



TurtleBot 4 Standard

[Explore the AIME platform library >](#)



AIME 3D visualizations. Not manufacturer CAD. Not to scale.

STATE16 / LIVE & EVENTS

READING TIME 2 MIN

Physical AI Webinar 2

13 OCT

2026

20:00-21:30

ISRAEL TIME / LIVE ON ZOOM

**Aditya Sahu**

NVIDIA Jetson Edge AI Platform

Deploying Physical AI On Jetson

**Dr. Barak Or**

Founder & CEO, STATE16

Physical AI Guardrails With AIME

**Itai Mizlish**

ML & Algorithm Engineer, Algolight

Agentic Simulation, 3DGS And World Models

**Itai Perez**

Israel Robotics Hub / INTENT

Taking Robotics Beyond The Demo

**Yaniv Hassidof**

Technion / Amazon

Long-Horizon Planning: Diffusion And Search



Join The Live Session

Register to receive the calendar invitation, Zoom link and community WhatsApp details by email.

[Register At STATE16 >](#)[Join WhatsApp >](#)

Community Calendar

Physical AI Expo

07-09 OCT / OSAKA

>

CoRL 2026

09-12 NOV / AUSTIN

>

NSF X-Labs Briefing

14 OCT / ONLINE / 13:00 EDT

>

Do Robots Need World Models?

12 NOV / AUSTIN

>

DARS 2026

26-29 OCT / TOKYO

>

GLOBAL DATA

READING TIME 2 MIN

Physical AI In Numbers

2026 shipment data / Updated 11 October 2026.

Humanoid Robots

~25,000

Global shipments / Jan-Jun 2026

Quadruped Robots

>49,000

Global shipments / Jan-Jun 2026

Shipment Growth

Year-on-year change / January-June 2026

Humanoids

**+432.1%**

Quadrupeds

**+92.5%**

0%

250%

500%



China

Share of global humanoid shipments delivered to the Chinese market.**77.9%****China 77.9%****Rest Of World 22.1%**

Chinese vendors supplied more than 95% of worldwide humanoid units.

Quadruped industry applications generated over \$270M in market value during the same six months.

IDC estimates include research and consumer uses. Shipments are not a count of fully autonomous deployments.

[IDC / Humanoids / 29 Sep 2026 >](#)[IDC / Quadrupeds / 21 Sep 2026 >](#)

RESEARCH / PEOPLE

READING TIME 2 MIN

Five Teams Worth Reading

Work on world-action models, simulation and manipulation.

FUTURE CONDITIONING

PREPRINT

Renping Zhou & Zanlin Ni

Tsinghua / Simple-WAM

A controlled study separates the value of future-token conditioning from the cost of producing clean video in world-action policies.

[Read the paper >](#)

PREDICTIVE REPRESENTATIONS

PREPRINT

Bang Du & Yichen Xie

RoboActualizer

The team investigates how a frozen world model can supply predictive representations that a policy can turn into motion.

[Read the paper >](#)

VIDEO TO SIMULATION

PREPRINT

Kerui Ren & Yingxiang Xu

Real2Gym

A video-to-simulation pipeline combines scene reconstruction, physics checks and reusable skills, with a four-task hardware evaluation.

[Read the paper >](#)

AFFORDANCE-GUIDED CONTROL

JOURNAL

Fan Zhang & Michael Gienger

Honda Research Institute Europe

Affordance-guided flow matching combines scene cues and manipulation policies using a frozen vision backbone and prompt tuning. Published in *Frontiers in Robotics and AI*.

[Read the paper >](#)

VISION + TOUCH

JOURNAL

Willow Mandil & Amir Ghalamzan E.

SPOTS / Robotics and Autonomous Systems

SPOTS combines visual and tactile predictions for manipulation, investigating the information touch adds when vision leaves a task ambiguous.

[Read the paper >](#)

STARTUP RADAR

READING TIME 1 MIN

10 STARTUPS TO TRACK

**Multiply Labs**

US

Multiply Labs builds robotic systems that automate biologics manufacturing.

**Feather**

US

Feather builds a programmable mobile manipulator for robotics developers.

**Nearhuman**

UK

Nearhuman develops on-device perception for shared micromobility.

**Skydio**

US

Skydio builds autonomous drones and docking systems.

**Agility Robotics**

US

Agility Robotics builds Digit humanoids for industrial work.

**ANYbotics**

Switzerland

ANYbotics builds robots for autonomous industrial inspection.

**AGIBOT**

China

AGIBOT develops humanoid robots and embodied intelligence systems.

**Unitree**

China

Unitree builds quadruped and humanoid robots.

**NEURA Robotics**

Germany

NEURA Robotics builds cognitive arms, mobile robots and humanoids.

**STATE16**

US

STATE16 develops AIME to test autonomous missions, identify failures and evaluate guardrails.

ARTIFICIALGATE / COMMUNITY LEARNING

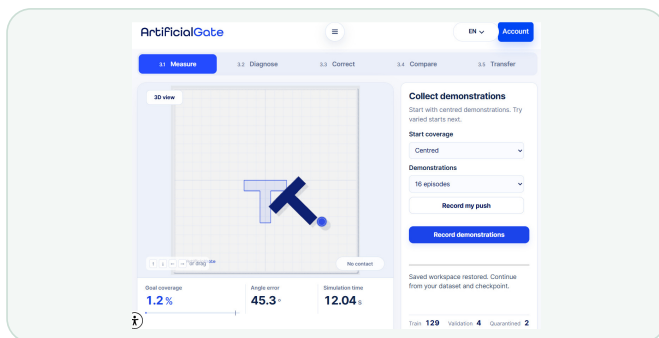
READING TIME 2 MIN

Physical AI Essentials

The first course in ArtificialGate's Physical AI learning path.

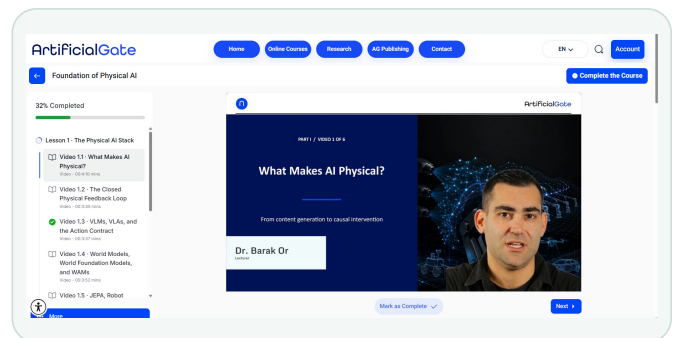


Foundation Of Physical AI / Based on the book by Dr. Barak Or.



Practice In The Simulator

Three interactive labs. Collect demonstrations and compare outcomes.



Learn With Guided Videos

16 short videos connect the Physical AI stack, interfaces and learning.

STATE16 MEMBERS ONLY / LIMITED-TIME ACCESS

Free Access

[Open The Course >](#)

Complete all course tasks and pass every quiz to purchase the certificate.

\$38

Optional Certificate

Introductory Price

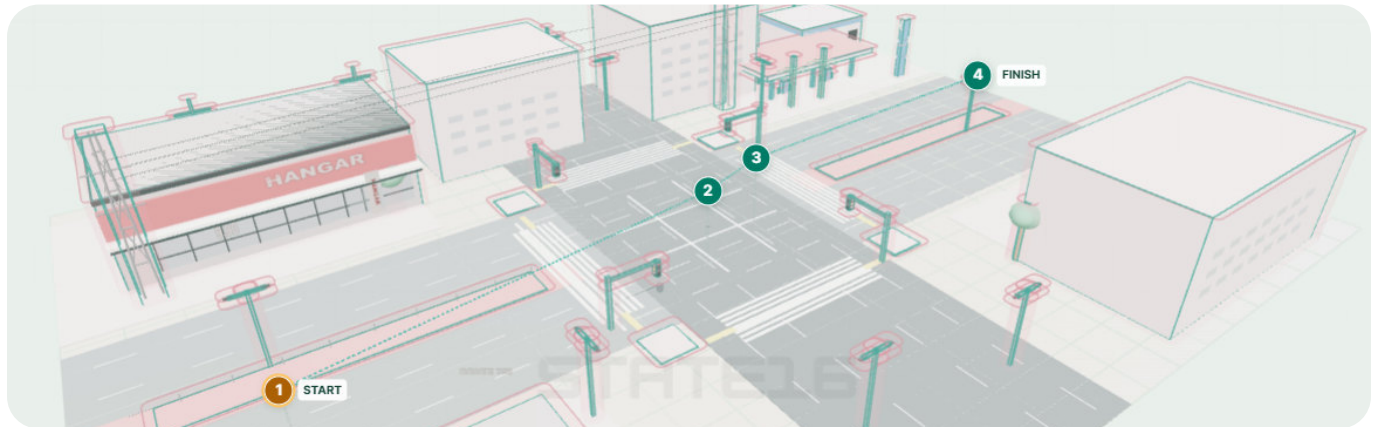


STATE16 / WORK WITH US

READING TIME 2 MIN

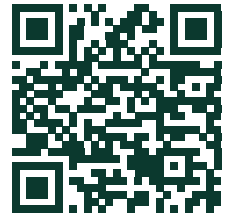
Bring Your Hardest Mission

Pilot conversations for drone and AMR engineering teams.

**AIME / ROUTE AND GEO GUARDRAIL**

Propose An AIME Pilot

Start with one mission and a failure condition to investigate. Together, we can define the test scope, required evidence and success criteria.

[Contact STATE16 >](#)

PLATFORM	Drone or AMR, and the operating environment.
MISSION	The route, task and constraints you need to satisfy.
FAILURE	What breaks, and what a useful test should show.

Include "AIME Pilot" in the contact form.



Join Us On WhatsApp

Our mission: make failure conditions visible before deployment. Our vision: Physical AI backed by evidence engineers can inspect.

[WhatsApp >](#)[GitHub >](#)[Hugging Face >](#)[LinkedIn >](#)