PLUG AND PLAY

SILICON VALLEY SUMMIT

MAY 19-21 2026



PLUG AND PLAY

PHYSICAL INDUSTRIES EXPO

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Physical Industries Expo

Janis Skriveris

Principal & Director, Deeptech
Plug and Play

#PNPTCSiliconValley

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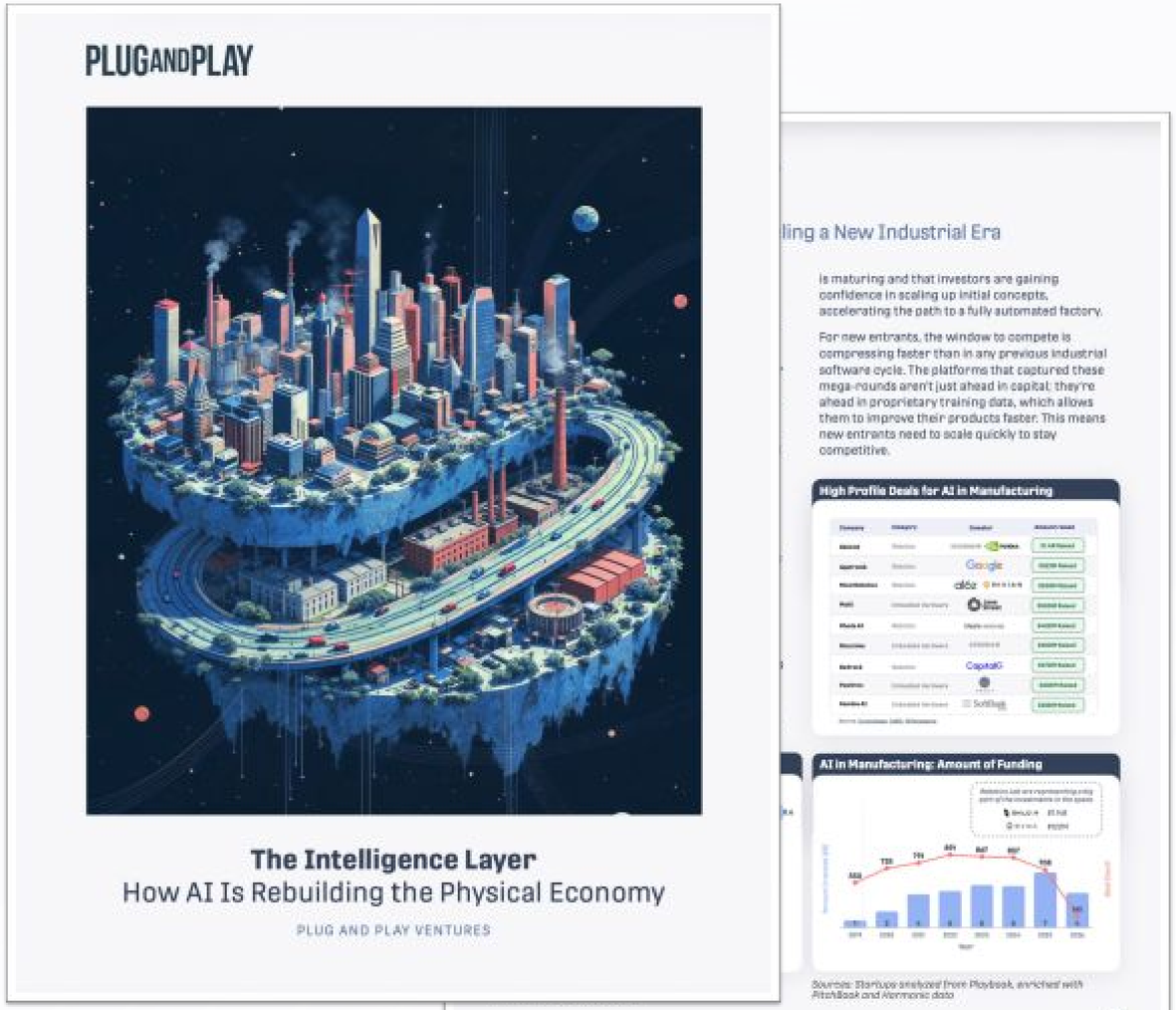
Plug and Play Report

AI IN PHYSICAL ECONOMY



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AGENDA

Physical Industries Expo

1:15 PM – Welcome

1:20 PM – Physical AI Corporate Intro

1:40 PM – Physical AI & Next Gen Vehicles

2:30 PM – AI in Manufacturing

3:00 PM – AI in Construction & Robotics

4:00 PM – Energy and Infrastructure Tech

4:50 PM – Deeptech Taiwan

5:10 PM – Closing Remarks

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KEYNOTE SPEAKER

Prith Banerjee

Senior Vice President
Synopsis

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SYNOPSYS®

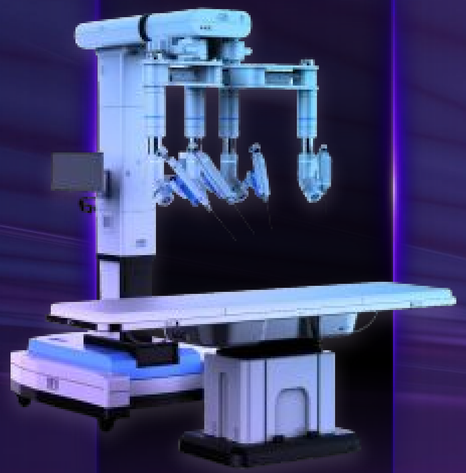
Digital Twins and Physical AI in Various Industries

Prith Banerjee
SVP Innovation, Synopsys

Plug and Play Silicon Valley May Summit 2026

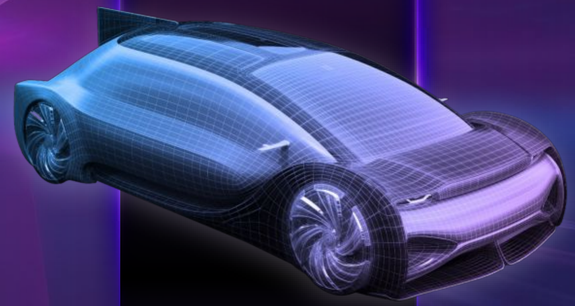


Intelligent Products are All Around Us!









Intelligent Products: Si-Powered, SW-Defined, AI-Enabled



Digital & Mission Engineering
MBSE, Environments, Models, Simulation

Aeronautical Design
Flight characteristics, rotor efficiency

AI Model Development
Object, detection and avoidance

Software Development
Flight planning, motor control, battery management, communication

Mechanical Design
Weight, stress forces, crash survivability

Thermal Design
Heating/cooling

Silicon Development
Providing required performance with lowest power usage

Electrical Design
Batteries, PCB, power supply efficiency

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Digital Twins in Various Industries

Aerospace



Automotive



Manufacturing



Buildings & Infrastructure



Oil & Gas



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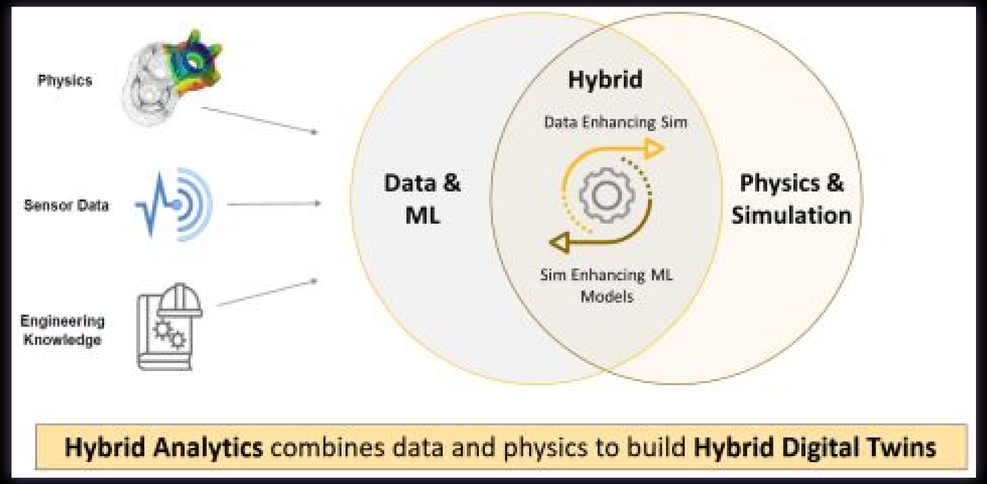
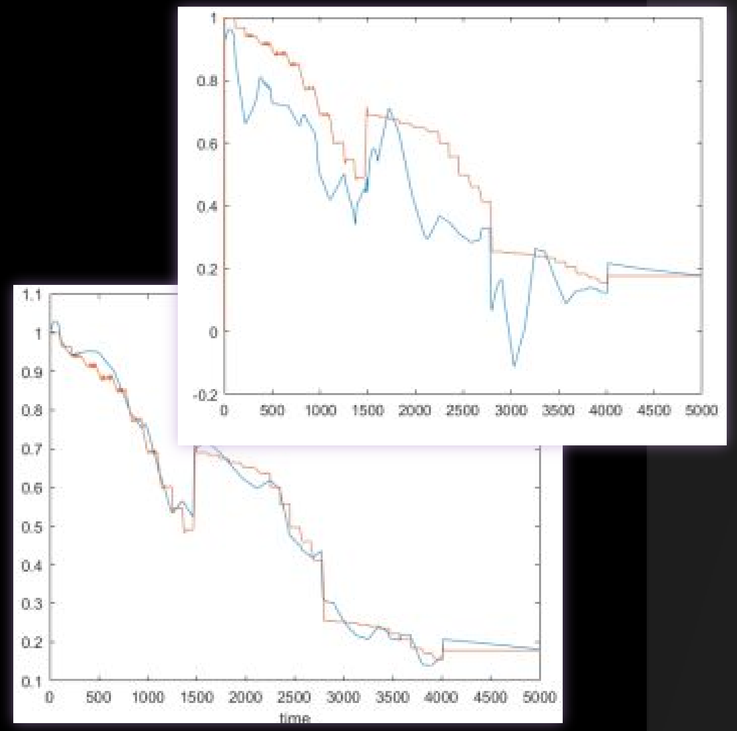
TwinAI: Hybrid Digital Twins Combining Simulation and Data





ACCURACY

Both: **~98%**

Sim: **~90%**

Data: **~80%**

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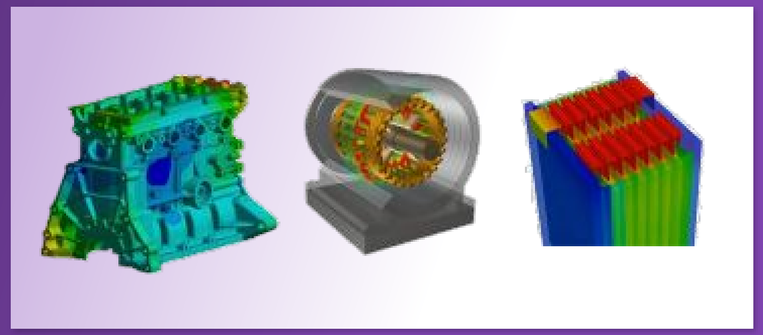
Synopsys Solution for Digital Twins

Validated Physics



Ansys/Synopsys Twin Builder® & Ansys/Synopsys TwinAI™



Hybrid analytics and deployment services

Twin for cloud/edge deployment

1. Best in class **Reduced Order Modeling** capabilities → Reuse
2. **Hybrid Analytics** → Accurate, evolving models
3. Unique **deployment** model and open architecture → Scalability

OPEN ECOSYSTEMS AND KEY ANNOUNCED PARTNERS

Microsoft aws NVIDIA ptc Rockwell Automation

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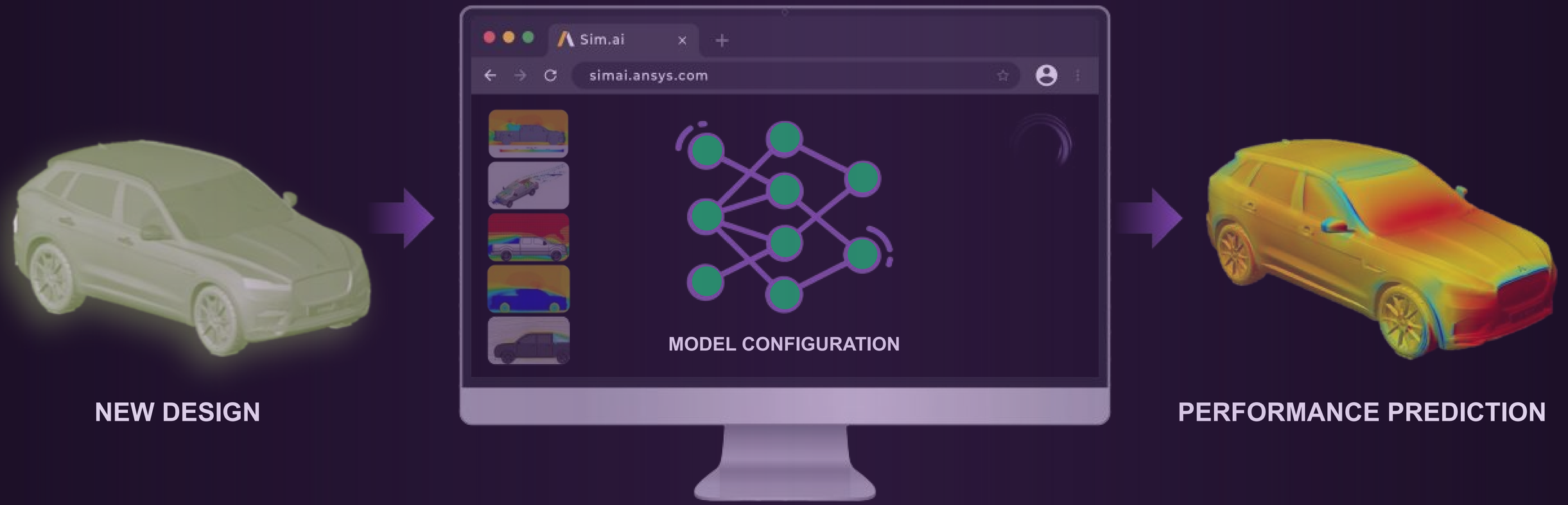
Predict at the Speed of AI

Ansys SIMAI



1 **UPLOAD**
Your Past Data

2 **TRAIN**
Your AI Model

3 **PREDICT**
In Seconds!

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SimAI – Workflow and Applications

Prepare

Data

AM

oSL

SimAI training

Explore

Create Catalogue of trained AI models

Model1

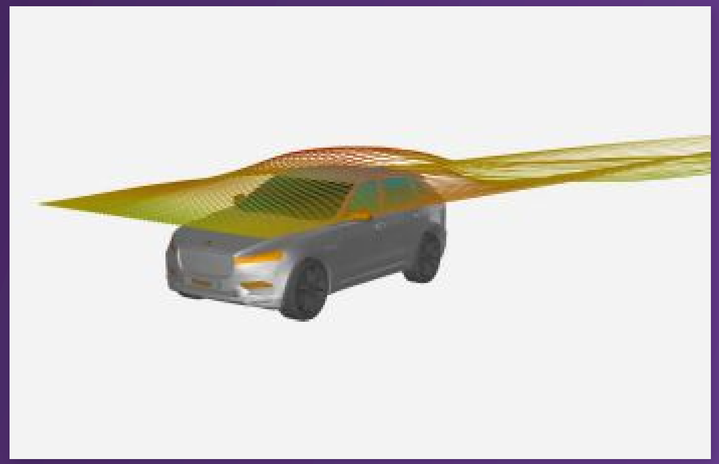
ModelN

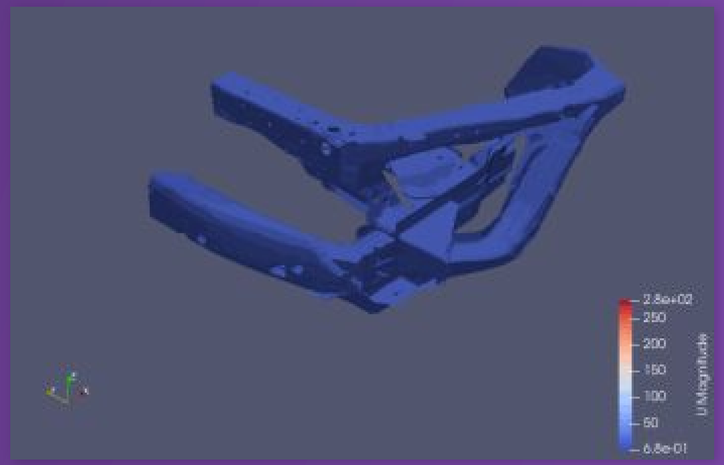
oSL

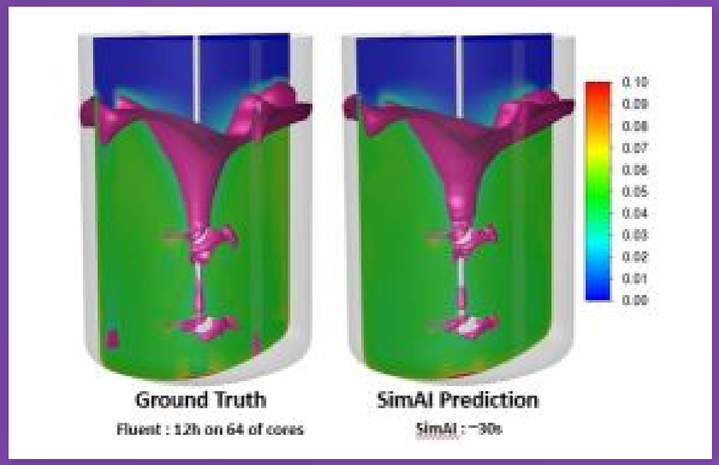
Validate

Validate Selected Best Designs with Full Fidelity Simulation

AM







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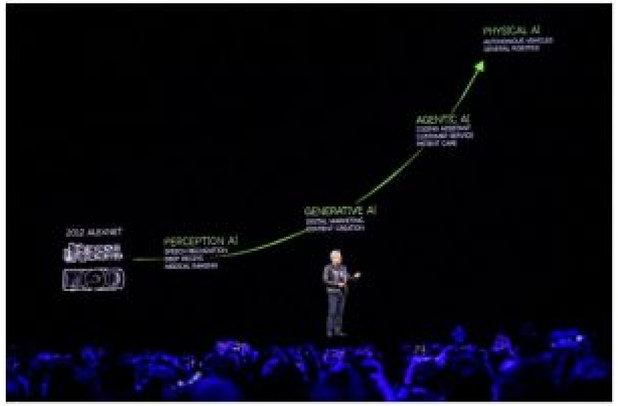
Future is Physical AI

What's next after agentic AI? Physical AI, Nvidia says

Physical AI artificial intelligence that perceives, understands, and acts in the physical world.



- **Wave 1 Digital AI**: Learned from the internet to generate text, code, and pixels. It lives on servers.
- **Wave 2 Physical AI**: Learns from physics-based simulations and real-world data to generate motion. It lives in robots, autonomous vehicles, and smart factories

Next Trillion Dollar Market

- **50M** projected global labor shortage by 2030
- **$5T** projected manufacturing construction sped over next 3 years
- **1B** Humanoid projected by 2050, with $5T economic impact

The next era of AI will not just reason about data – it will reason about the physical world.



The Shift

- AI is moving from software intelligence → physical intelligence
- Systems must now perceive, reason, and act in the real world
- Every industry is building intelligent machines



Key Reality

- Training these systems only in the real world is impossible.
- They must be trained first in physically accurate simulation environments.



The Implication

- The companies that control the simulation foundation for Physical AI will shape the next generation of intelligent systems.

The Generational Advantage for Synopsys

We **bridge the Sim-to-Real** Gap

Synopsys becomes the physics-proving ground for Physica AI.



What Makes All Physical AI Systems Similar

Despite different industries, these systems share the same foundational requirements.

1. **Physically Accurate Simulation**
   Modeling real-world dynamics
   - *fluid dynamics … structural mechanics*
   - *electromagnetics*
   - *thermal systems*
2. **Synthetic Data Generation**
   Training AI systems where real-world data is limited or dangerous.
   - autonomous driving
   - robotics manipulation
   - drone navigation
3. **Reinforcement Learning Environments**
   Training agents through millions of simulated interactions before deployment.
4. **Sim-to-Real Transfer**
   Ensuring models trained in simulation work in the real world.



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Future is Physical AI

The Simulation Consumption Flywheel

The Continuous Reality Loop
Physical AI workflows bridging the gap between digital intelligence and real-world physics create a continuous feedback loop **needing massive, labeled, edge-case-rich datasets**.



That forces:

- More **parametric sweeps, design-of-experiments, and scenario runs**
- More **multi-physics, multi-fidelity configurations**
- More **continuous re-simulation** as models drift and systems change
- More **new licenses**

Stage	Supporting Concept
Data	Multiphysics and sensor data from connected systems
Models	Foundation & domain models trained on simulation + real data
Simulation	High-fidelity digital twins validate & predict performance
Control	AI agents optimize and adapt physical systems dynamically
Reinforcement	Feedback loops continuously refine models and simulations

Industry Momentum is Real

Major global companies are already investing billions into Physical AI.

Automotive

- AI-driven factory digital twins
- Autonomous driving validation environments

Defense

- Digital mission engineering for UxVs
- Autonomous defense systems for C2DA

Energy

- Digital twins for energy infrastructure
- AI optimization of complex physical systems

Heavy Industry

- Autonomous mining equipment
- AI-enabled fleet optimization

Healthcare

- Robotic surgery platforms
- Patient-specific modeling and device personalization

Manufacturing

- AI-optimized production lines
- Autonomous industrial systems

Target Physical Intelligence Use Cases


Physical AI for Robotics


Digital test rage for FA&D


Digital Factories

Industry Applications


Visualization & collaboration

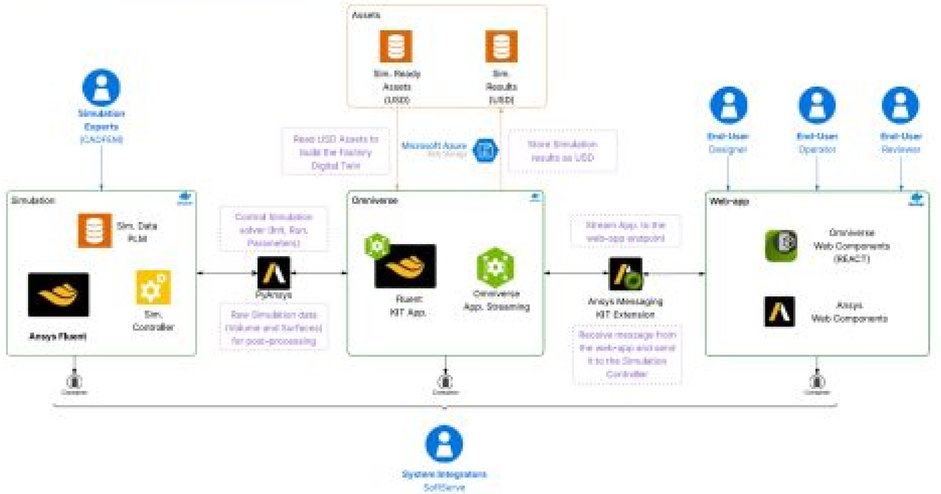

System design & optimization


Training & validation


Digital Factories

Generalized Use Cases

Example of a Blueprint Architecture based on a reference WAF



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AI Applications in Electronic Design Automation (EDA) and Computer Aided Engineering (CAE)

MACHINE LEARNING	REINFORCEMENT LEARNING	GENERATIVE AI / LLMS	AGENTIC AI

Machine Learning
Better, faster tools

- **ML within tools**
  - ML-enhanced PT
  - ML-enhanced FC
  - ML-enhanced ICV
  - Ansys SimAI

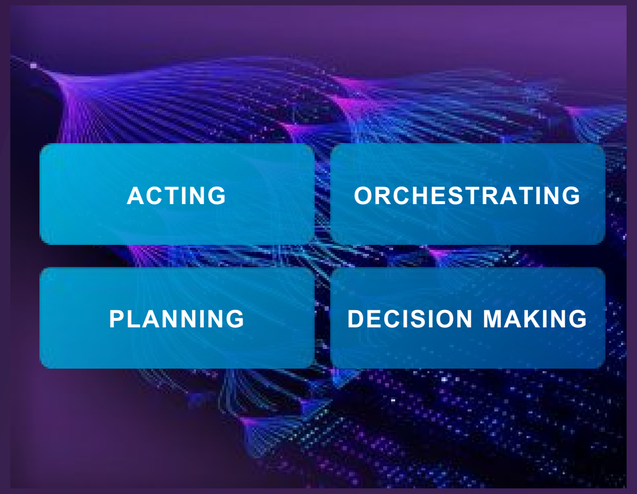
AI as an Optimizer
Optimization of Results

- **DSO.AI**
- **SYNOPSYS.AI**
  - VSO.ai
  - TSO.ai
  - ASO.ai
  - OptiSlang
- **DATA ANALYTICS**
  - Design.da
  - Fab.da
  - Silicon.da

AI as an Assistant
Assistive & Creative Capabilities

- **ASSISTIVE**
  - Run Assistance
  - Workflow Assistance
  - Knowledge Assistance
  - Ansys GPT
- **CREATIVE**
  - RTL Creation
  - Testbench Creation
  - Assertion Creation

AI as a Colleague
Autonomous Tasks



Next Big Thing!

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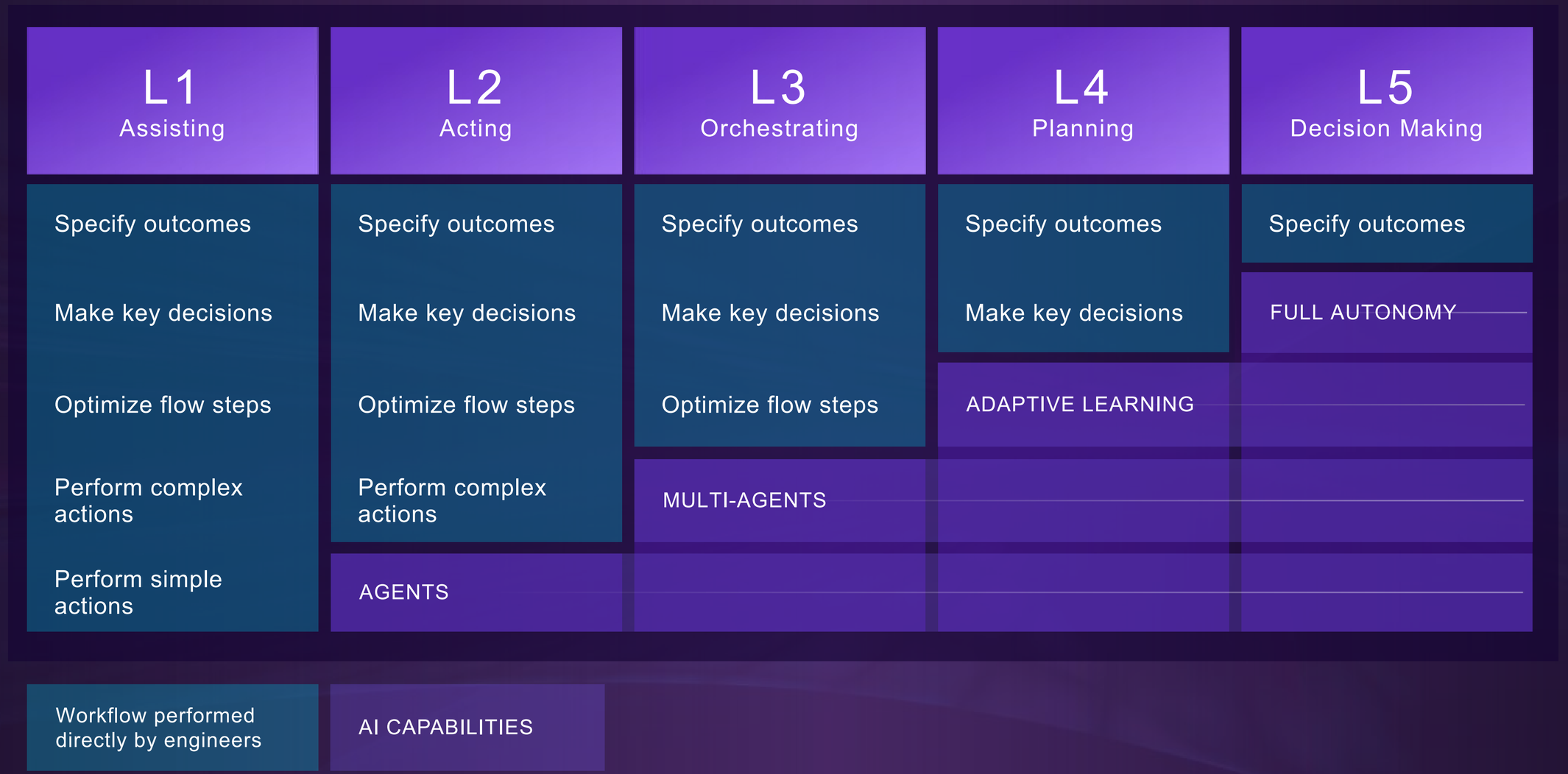
Transformation of Workflows: Re-engineering Engineering



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Digital Twins in Different Industries with Physical AI

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Electronic Design Automation

DESIGN	MANUFACTURING	VERIFICATION
PrimeLib	Proteus	PrimeSim
Redhawk-SC	S-Litho	VCS
Totem SC	S-Device	
	Quantum ATK	

= In Production

Computer Aided Engineering

STRUCTURES	FLUIDS	ELECTRONICS/ ELECTROMAGNETICS	MANUFACTURING
Mechanical	Fluent	HFSS	SPEOS
LS-Dyna	FreeFlow	Icepak	Zemax
Discovery	Rocky	Maxwell	Lumerical FDTD

= In Production

Synopsys AgentEngineer™ Technology

Physical AI


Semiconductor DT


Industrial DT


Medical DT


Aerospace DT


Robotics DT


Automotive DT

NVIDIA Omniverse

Targeting Availability in Every Cloud and OEM

aws CoreWeave DELL Technologies Google Cloud Hewlett Packard Enterprise Lenovo Microsoft Azure ORACLE CLOUD Infrastructure SUPERMICRO

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Empowering innovators like you to drive human advancement



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Thank you

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Subaru



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Global Partnership Announcement

Qisda x PLUG AND PLAY

QUEST

Discover What's Next

- Global Innovation Scouting
- Dual-Hub Exploration-
  Silicon Valley × Taiwan

ACCELERATE

Turn Ideas Into Impact

- Faster Pilots & Dealflows
- Two-Way Innovation-
  Inbound × Outbound

PIONEER

Lead the Next Wave

- Build Next-Gen Ecosystems
- Taiwan as an Innovation
  Bridge to Global Market

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KEYNOTE SPEAKER

Lenny LaRocca

Head of Automotive
KPMG

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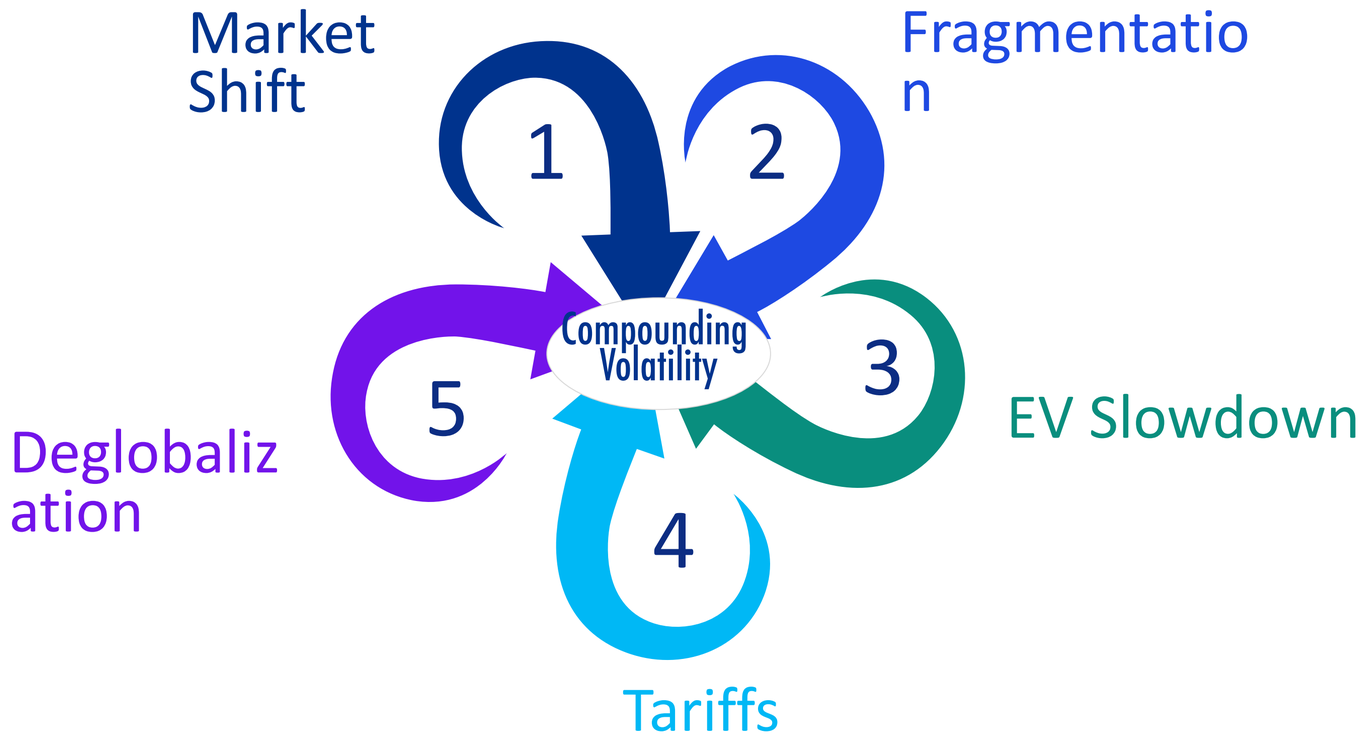
The Great Realignment of Auto

Adapting and diversifying in the new mobility era



May 2026

Volatility is not the storm, it's the climate: the industry must diversify to remain resilient and drive long term growth



…plus, global volumes are not growing

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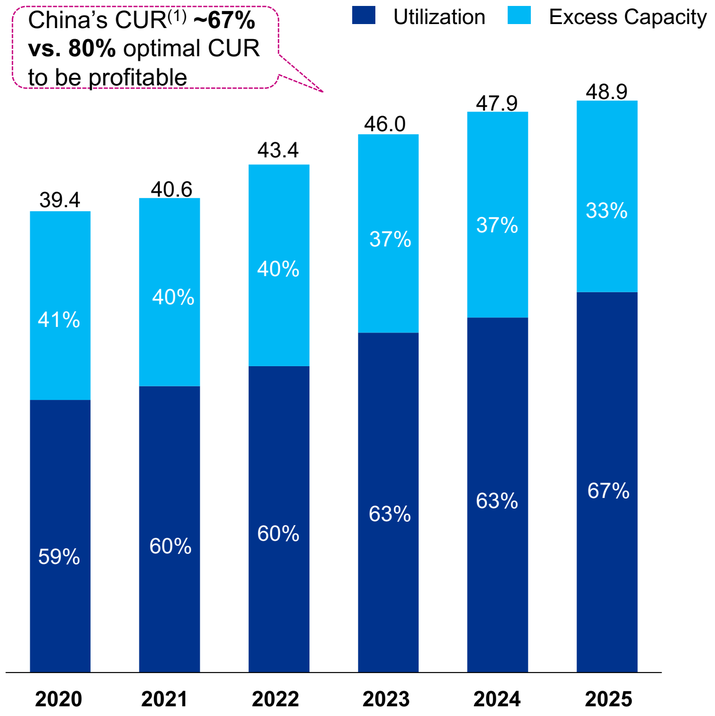
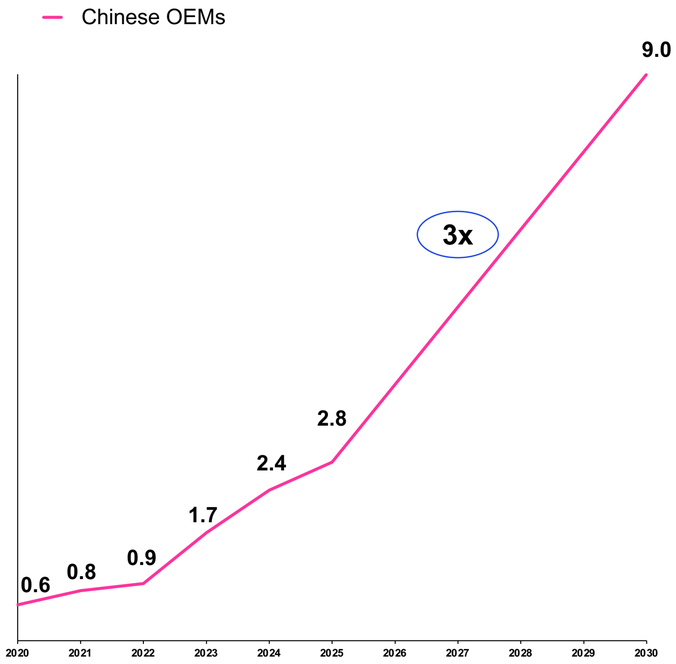
New competitors are redefining the market

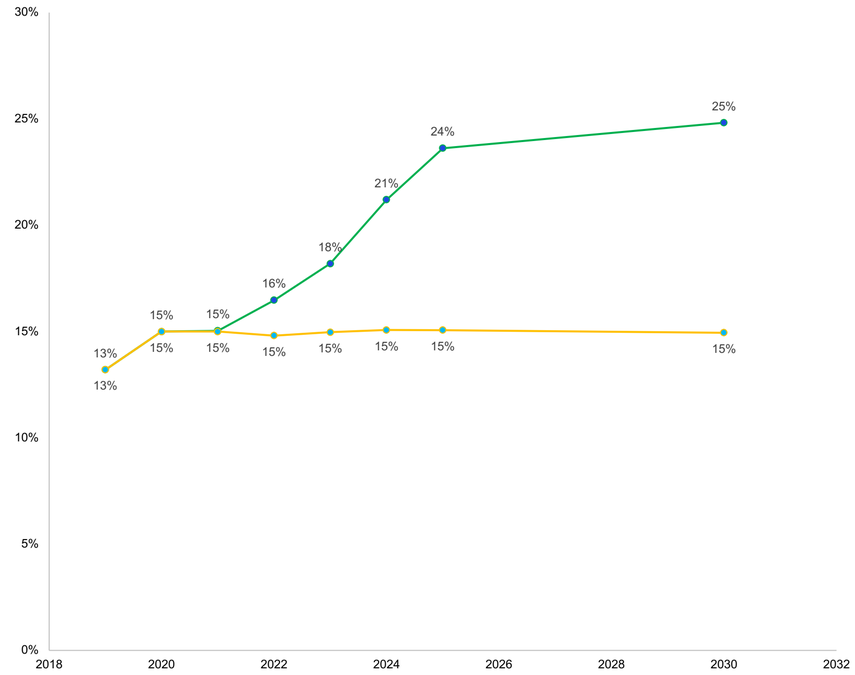
Production capacity in China (in M)



Total Vehicle exports from China (in M)(2)



C-OEM Penetration in New Vehicle Sales Globally



Chinese OEMs now sit on significant excess capacity, enabling rapid expansion into global export markets

Source: KPMG Analysis

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OEMs & suppliers are making structural changes to combat volatility in the automotive industry

Beyond car sales, OEMs are branching into software, connectivity, robotics, and off-highway applications to create new revenue streams



Diversification for Growth



Process Improvement via Automation

Automakers are ramping up robotics, AI-driven quality checks, and automated material handling to boost productivity and enable flexible manufacturing

OEM portfolios are moving from ICE-heavy lineups to a balanced mix of EVs, hybrids, and connected vehicles, while platforms are being redesigned for modularity to simplify variants and speed updates



Changing Mix



Consolidation

Consolidation is broadening, not just traditional M&A, but also supplier roll-ups, technology acquisitions, strategic divestitures, and alliance structures

Source: Company PRs

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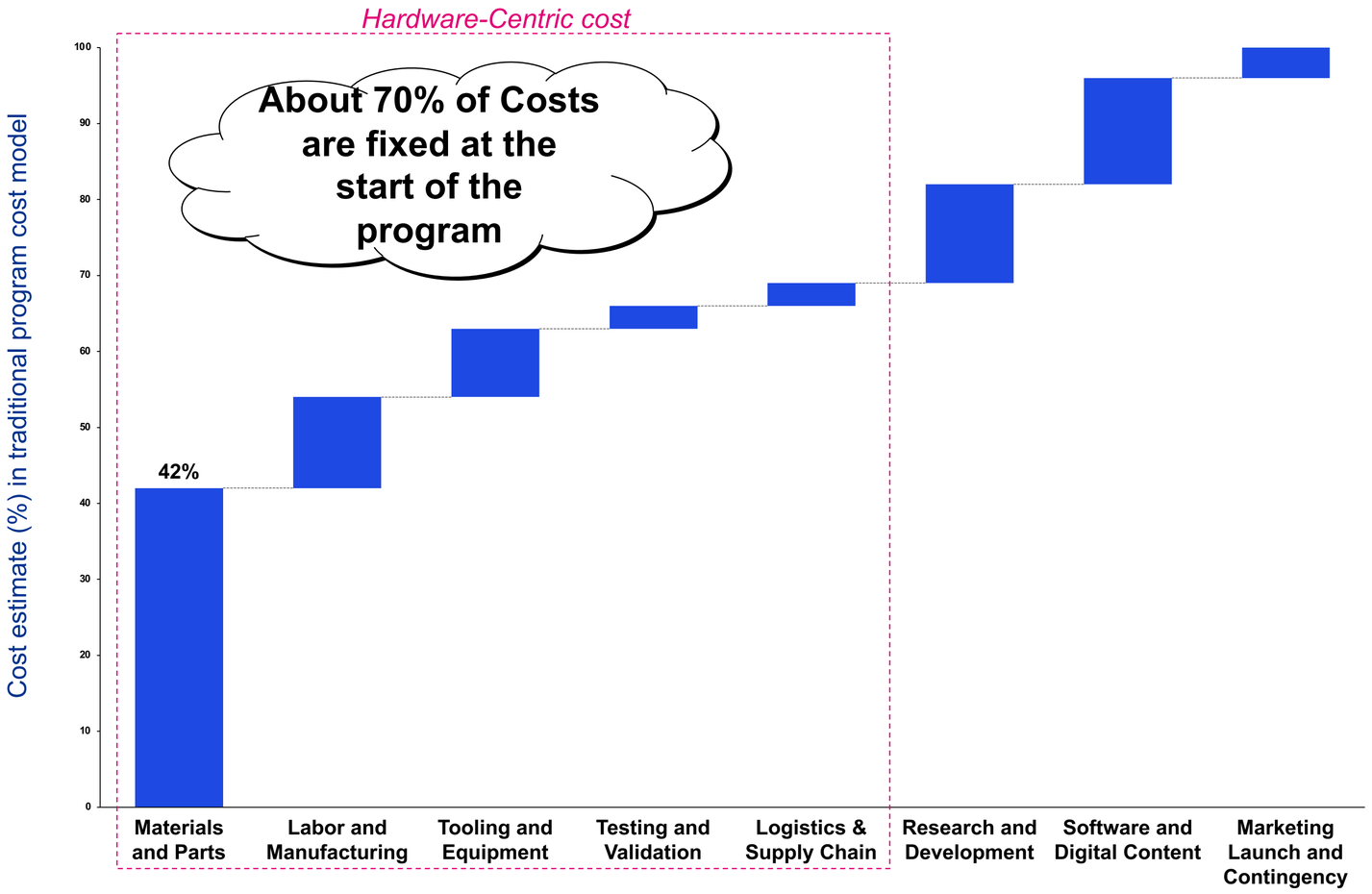
Historically, traditional cost models lock-in ~70% of costs at SOP focusing on achieving modest 5%-7% gains via continuous improvement initiatives

Cost of program model overview



- Hardware-Centric Investment
- CapEx Prioritization
- Lifecycle Costing Approach
- Individual Program Allocation

Source: KPMG Analysis

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Summary of our perspective

SDV transforms vehicles into software-driven robots with faster development cycles, lower cost models & new revenue streams – but demands discipline and organizational change

- **Future cars, trucks, and other vehicles will shift from hardware-centric to software-centric platforms**
- **SDV offers the potential to offer “speed” as a competitive weapon**
- **Potential to “flip the cost curve” – if done right**
- **Organizational structure will turn “tech-like”**

Source: KPMG Analysis

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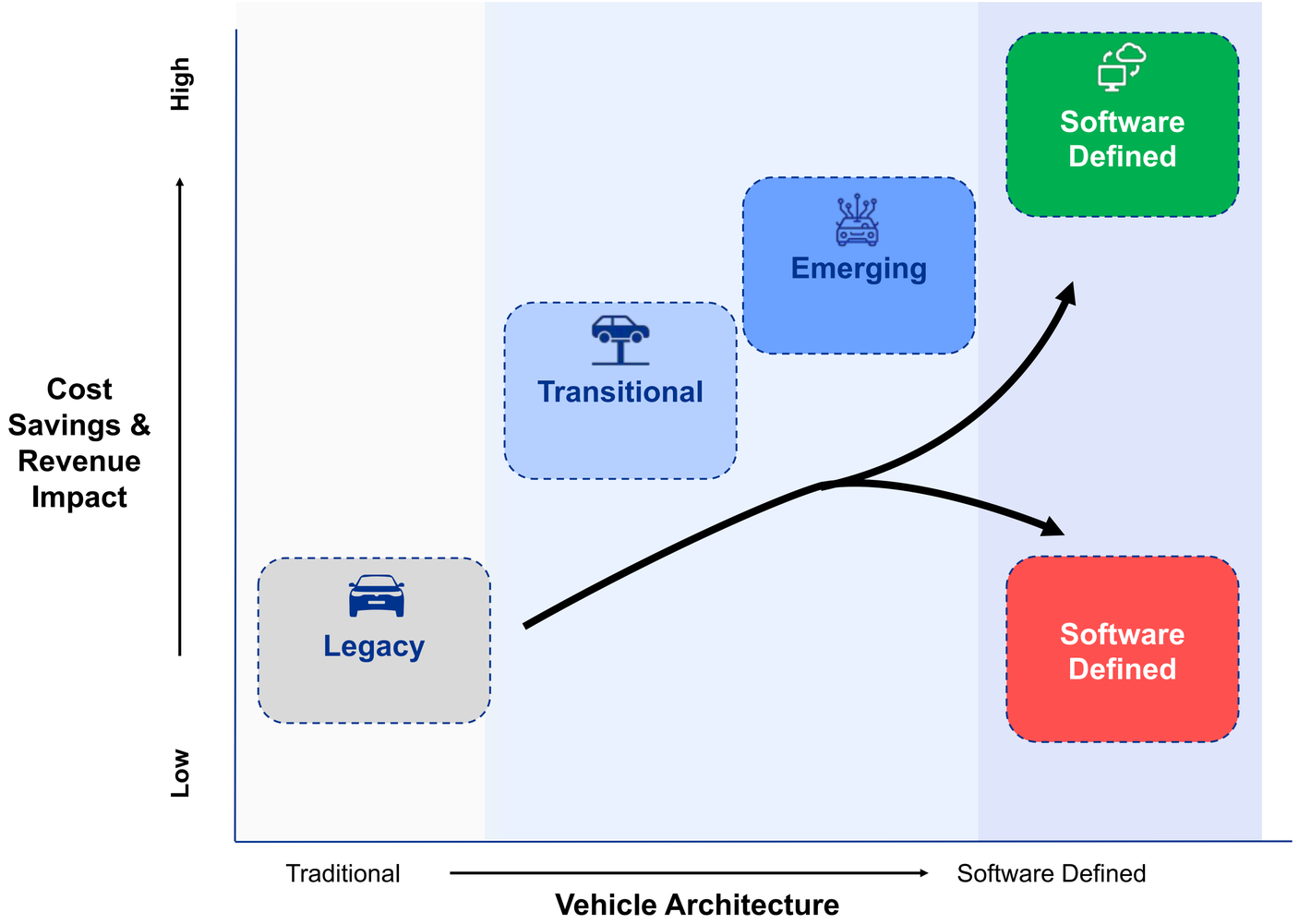
If done right, SDV centric models can be a competitive weapon with significantly faster development lifecycles flipping the cost curve

Transitioning from traditional to software-driven vehicle architecture, SDVs deliver incremental advantages



Source: KPMG Analysis

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Realizing the benefits of SDV creates a set of three primary challenges

Key Challenges faced by OEM's		
Challenges	**Potential Risks**	**Key Considerations**
Platform & Integration Complexity	• **Fragmented supplier stacks** increase complexity and integration difficulties. • Heightened issues of **rework, slipping SOP timelines, and warranty/recall risks**.	*Implement cohesive system integration to prevent delays and additional costs.*
Up-front Investment & ROI Pressure	• Heavy capital and R&D investments risk turning into **sunk costs** if timelines are missed. • Financial pressure from **compressed margins** if execution fails.	*Manage investments in software, cloud, tools, and talent efficiently to achieve ROI targets.*
Organization Structure Realignment	• **Transition from program-centric** "Chief Engineer" roles to cross-functional Chief Software Architect and SDV Operating Models.	*Develop integrated teams with product-centric focus and align governance to ensure successful SDV adoption.*

Source(s): (1) Ford kills project to develop Tesla-like electronic brain; (2) GM stops selling the Chevy Blazer EV to deal with 'software quality issues'; (3) VW Group's Cariad Software Division Had A Bad Year. Again; (4) Ford projects mounting EV losses for 2025; (5) Stellantis Targets ~€20 Billion in Incremental Annual Revenues by 2030 Driven by Software-Enabled Vehicles; (5) Software architects: Mercedes-Benz previews its operating system MB.OS; (6) GM reportedly cuts 1,000 jobs in its software and services division

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AI and robotics are enabling OEMs to expand beyond vehicle manufacturing into scalable new businesses



01 Autonomous Vehicles

- Waymo operates commercial robotaxi services, offering fully driverless, paid autonomous rides across multiple major US cities, including Phoenix, San Francisco, Los Angeles, Austin, Atlanta, and Miami

02 Humanoids and Robotics

- OEMs such as Hyundai (Boston Dynamics) and Tesla (Optimus) are shifting toward robotics as a high-growth business that could surpass traditional vehicle manufacturing
- The global humanoid robot market is projected to reach $5 trillion by 2050 with over 1 billion units in use worldwide





03 Connectivity and ADAS Services

- The global automotive software and electronics market is expected to reach ~$500B by 2035
- GM reported significant growth in its software and services division for 2025, with OnStar and Super Cruise generating $5.4 billion in revenue, driven by a record 12m subscriber's base

04 Semiconductor and Data Centre

- Tesla is developing AI5/AI6 chips and building a dedicated Terafab chip facility, moving into the business of AI compute infrastructure required for autonomous vehicles, robotics, and data-center







05 Diversifying into Off-Highway

- Suppliers are venturing into higher-growth off-highway markets
- Allison Transmission recently acquired Dana's Off-highway transmission business for $2.7B
- Gentherm to acquire Modine's thermal management business for $1B facilitating expansion into power generation and off-highway market

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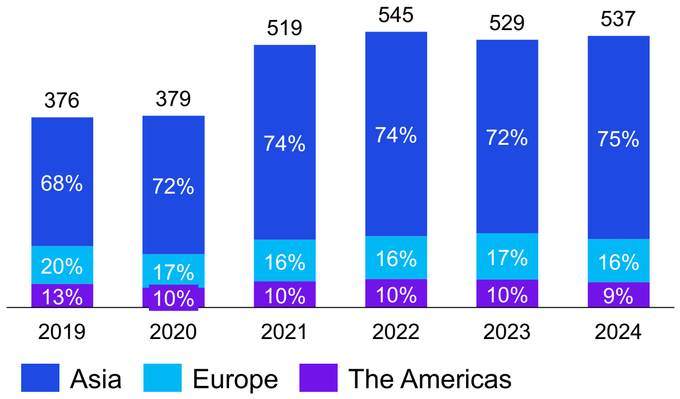
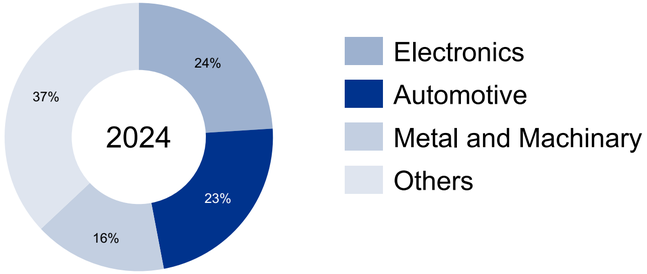
Automotive OEMs and suppliers are rapidly scaling automation across multiple manufacturing processes

Annual installations of industrial robots (units in 000s)



Industry Breakup of Robot Installation



Types of Robots

	Industrial Robots	Collaborative Robots	Autonomous Mobile Robots
Application	Assembly	Assists Humans	Transportation and Logistics
	Painting	Manage Heavy and Repetitive Tasks	
	Welding	Quality Control and Inspections	

90%

Defect-detection accuracy via AI enabled quality control

Intensity of Automation in Automotive Manufacturing

Automotive- ICE	Stamping	Body in White	Painting	Final Assembly
Intensity				

Automotive- EV	Battery Module	Battery Pack	E-motor
Intensity			

High — More than 70% penetration

Medium — 40% - 70% penetration

Source: Secondary Research, KPMG Analysis

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Two paths to victory

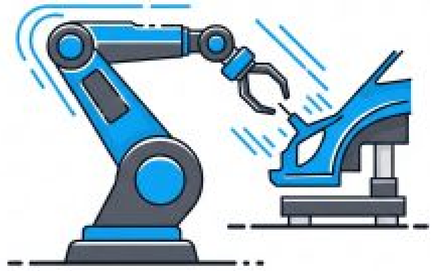
Adapt



Embrace the software-defined vehicle to:

- **Cut costs**
- **Accelerate innovation**
- **Unlock new revenue streams**

Diversify





Expand into new lifelines like…

- **Data centers**
- **Robotics**
- **Services to build resilience**

Source: Secondary Research, Analyst Reports

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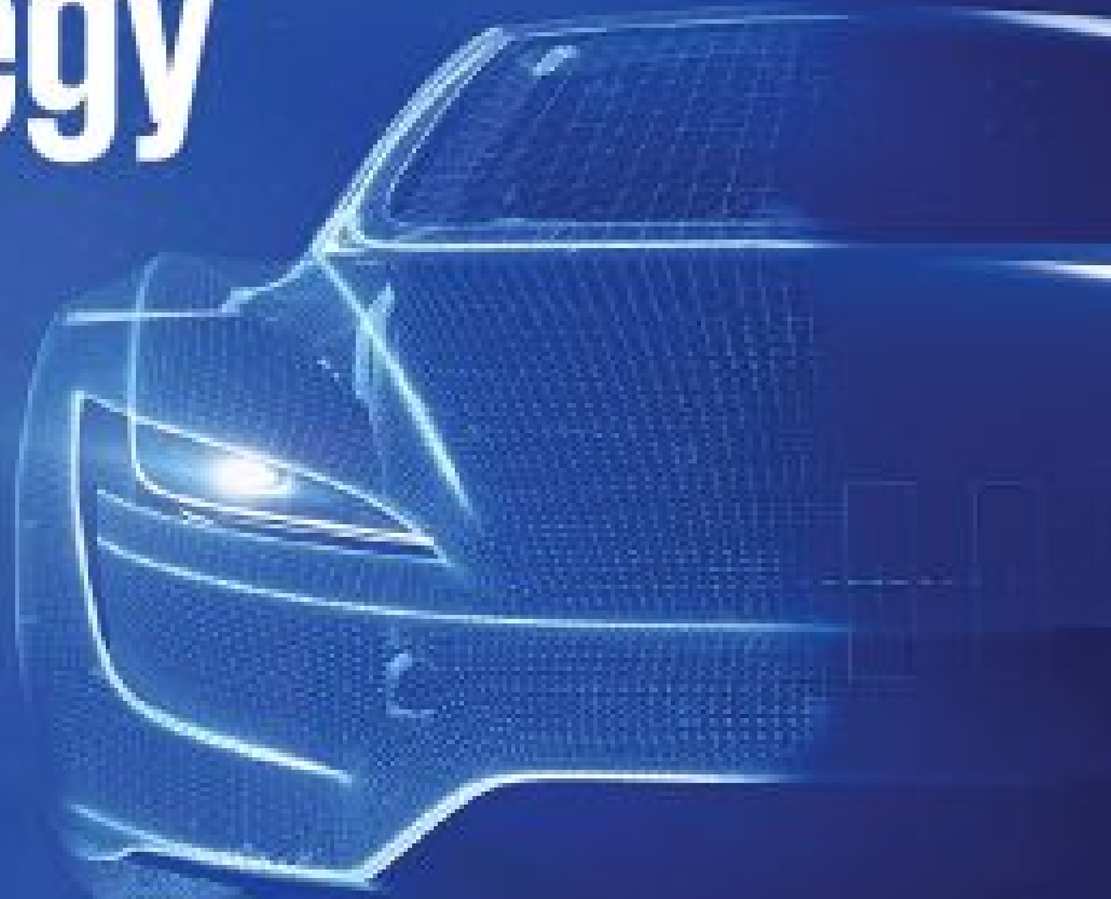
Shift your strategy into high gear



Scan the QR code to connect with our team and unlock the latest KPMG insights.

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PLUG AND PLAY

STARTUP PRESENTATION



Aerovoy

The AI Operating Layer for Hardware OEMs.

#PNPTCSiliconValley

Join us at pnptc.com

AEROVY

Transforming OEMs into category leaders

The AI Operating layer for hardware companies

Backed by:

M25 PURDUE INNOVATES PLUGANDPLAY MUDITA VENTURE PARTNERS Quorum KNOLL

www.aerovy.com

Teams often struggle to effectively leverage enterprise data

Same data. Different struggles. Same root cause.

THE TEAM	WHERE IT HURTS	WHAT IT COSTS THE BUSINESS
01 **Engineering**	Limited real-world feedback. Slow iteration cycles.	→ **Aftermarket revenue lost to third-party servicers.**
02 **Service**	Reactive maintenance. Unscheduled downtime.	→ **High downtime and avoidable service costs.**
03 **Product**	Slow to launch fleet-facing apps.	→ **Slow product innovation cycles.**
04 **Strategy**	Data exists, but lack monetization or visibility.	→ **Software not contributing to enterprise valuation.**

ROOT CAUSE **Same data. Different struggles. No coordination layer.**

THE IOT PROMISE, TEN YEARS IN

More data has not created more value

Connectivity got commoditized. Outcomes didn't follow.

What happened?

(2015-2020)

- OEMs embedded sensors across machines
- Telematics became standard
- Cloud dashboards were launched
- Massive volumes of operational data were collected

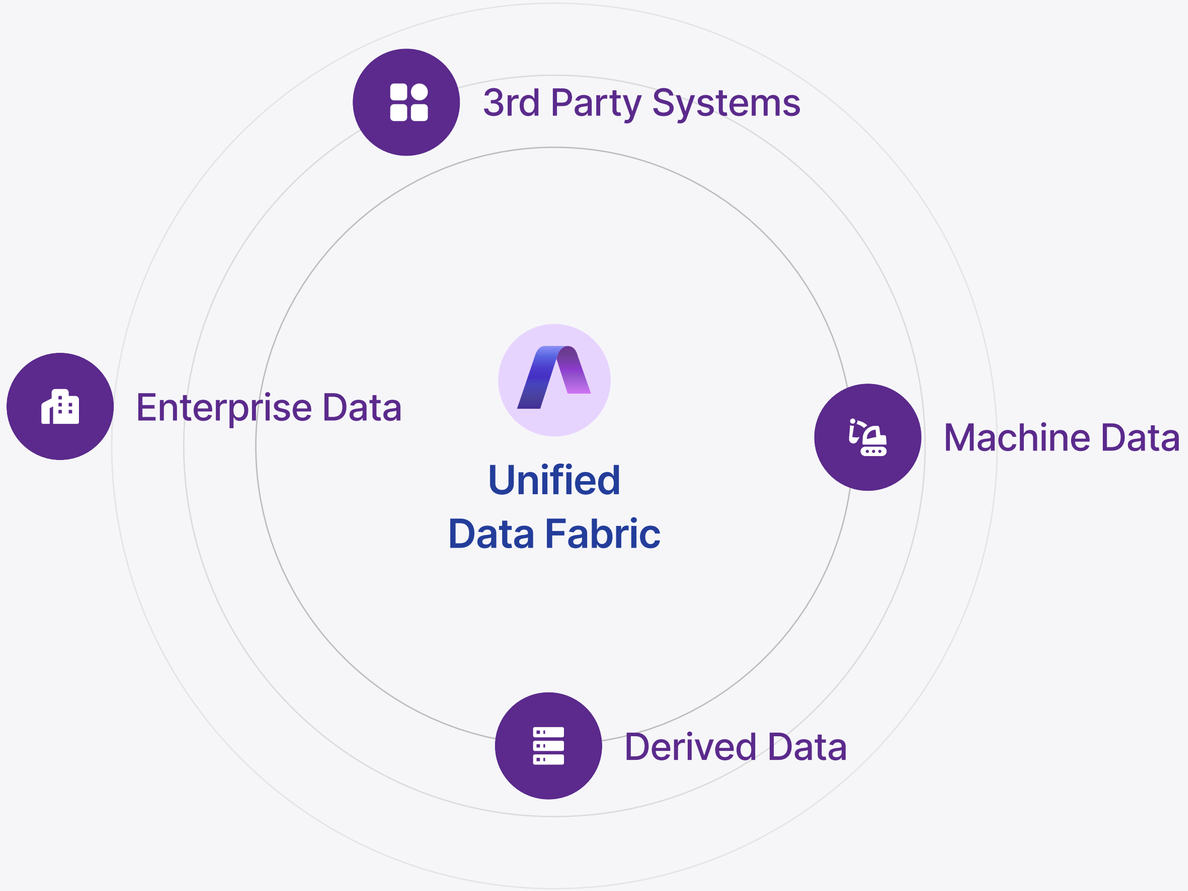
The Reality

- Data was reviewed reactively, often after failures
- No automated response layer
- Datasets remained fragmented
- Connectivity did not translate into performance improvement

Visibility increased. Downtime did not.

OEMs don't lack data. They lack a system of coordination.

Without a coordination layer, every team builds its own.



Telematics shows what's happening — but no one acts on it.

ERP knows what was sold — but not what's running.

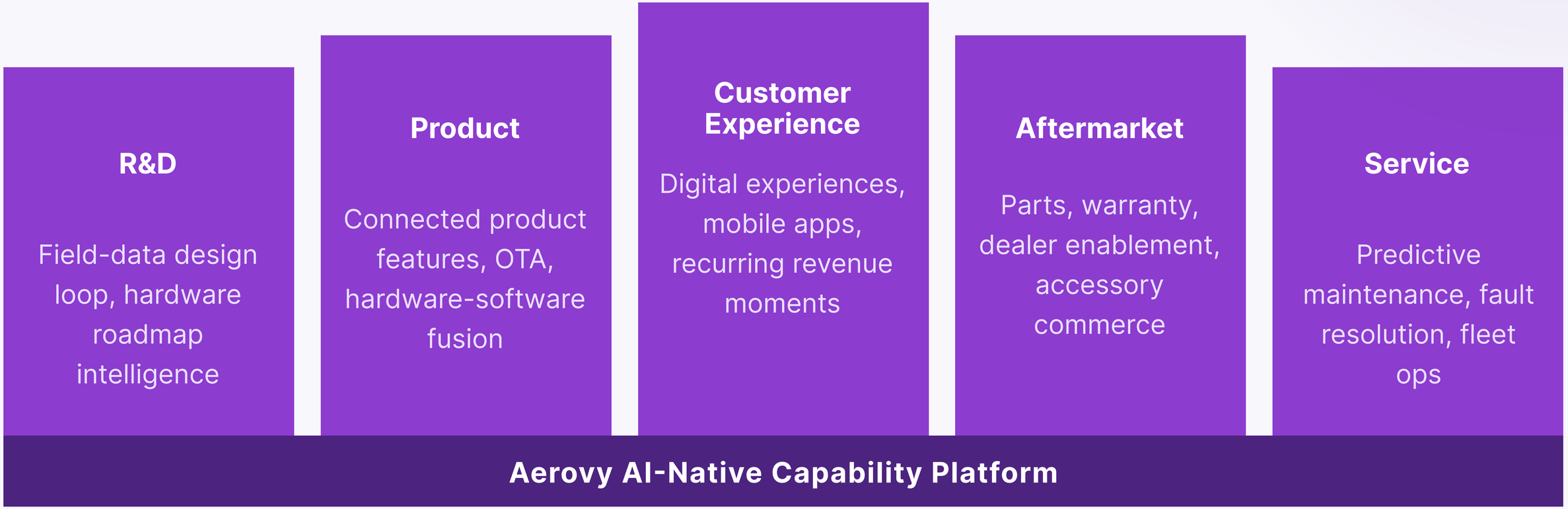
Service tools track tickets — but miss fleet-level patterns.

Data exists. Intelligent automation and action do not.

THE PLATFORM

Aerovy, the AI capability platform for hardware OEMs

Aerovy transforms legacy hardware OEMs into AI-native businesses.



The Aerovy platform

One system of context. One system of action.

Unified Intelligence

Custom Models · Model Operations · Agents · Training · Evaluation

Context Fabric

Machine data unified on Aerovy’s proprietary ontology with ERP, CRM, dealer, service



Capability Layer

Universal Context · Diagnostics · Coordination · Analytics · Controls · Events · Transactions · Datasets

ROLE MIRROR

Integrating data flow and agentic AI across business units

Different language. Same root cause: data exists, coordination doesn’t.

01

Sales

Predict fleet readiness · Live status during customer conversations · Channel inventory visibility · Renewal triggers.

02

Service / Tech Reps

Proactive vs reactive dispatch · Remote diagnostics · Service history per asset · Faster first-time fix.

03

Warranty

Reduce false claims · Care-and-abuse monitoring · Self-serve claim intake · Proactive renewal offers.

04

Engineering

Real-time machine data for testing · Cohort performance · Early failure ID · Customer-mapped prioritization.

05

Quality & Transport

Real-time performance monitoring · Major component locating · On-time shipment lift · Cross-fleet defect detection.

06

Accounting & Safety

Loss prevention · Asset reconciliation · Crash and incident notification · Pre-operation checklists and operator clearance.

07

Aftermarket

Post-sale parts and services · Factory-approved service contracts · Predictive parts inventory · Recurring revenue.

08

Marketing

End-customer connectivity · Customer feedback routing · Capital-aware market research · Lease and renewal opportunities.

THE PLATFORM

Aerovy platform impacts

Aerovy transforms legacy hardware OEMs into AI-native businesses.

200k+

Connected devices onboarding onto Aerovy Platform

$50M

Unlocked customer revenue

↘72%

Time saved in diagnosing and deploying aftermarket services.

Data as moat - OEMs have the best data

We help our customers mine the data they keep proprietary

Club Car

76M

rounds of golf

+ 20 years of vehicle data on 15-second intervals across 200,000 vehicles

WHY IT'S A MOAT

The largest gold-standard golf dataset in the world. Training an AI product on Aerovy infrastructure

INVENTUS POWER

Every cell.

Every chemistry.

World's most comprehensive cell-level dataset — prismatic, cylindrical, pouch — tested. Millions invested.

WHY IT'S A MOAT

OEMs sit on data they don't trust AI vendors to mine. Aerovy is the infrastructure they train on themselves.

Our Core Principles

Aerovy transforms legacy hardware OEMs into AI-native businesses.

01

OEMs always own their data.

Our platform unlocks its value. The data, the models, and the IP stay yours.

02

Coherence beats collection.

Breaking down silos is the only path to digital acceleration; more data isn't more value without it.

03

Leaders move from data to action.

Intelligence is what acts on the data, not what reports on it.

Rapid growth, platform launched January 2025

$4.2M

ARR from existing customer

$18M

Significant Pipeline growth in 1Q 2026

Material Handling, Mobility, Construction, Agriculture

$2.3M

Capital raised

Institutional VC (pre-seed)

AEROVY

Design and Scale Your Intelligent Hardware Ecosystem

Unify hardware, data, and intelligence into an enterprise-ready platform tailored to your use case.

SCHEDULE A DEMO



Nick Gunady
Founder & CEO
nick@aerovy.com



Thomas Chen
CoFounder & CTO
thomas@aerovy.com

PLUGANDPLAY

STARTUP PRESENTATION

CHIRALIGHT

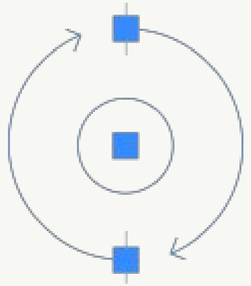
Chiralight

Universal Sensorless Motor Control.

Chiralight

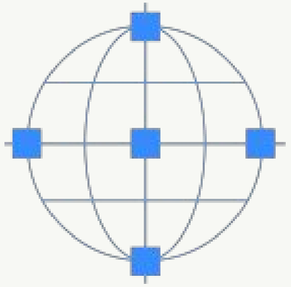
Making Things Move — Faster, Cheaper, and Smarter

The Universal Motor Control Platform



01

Patented sensorless control software for any motor

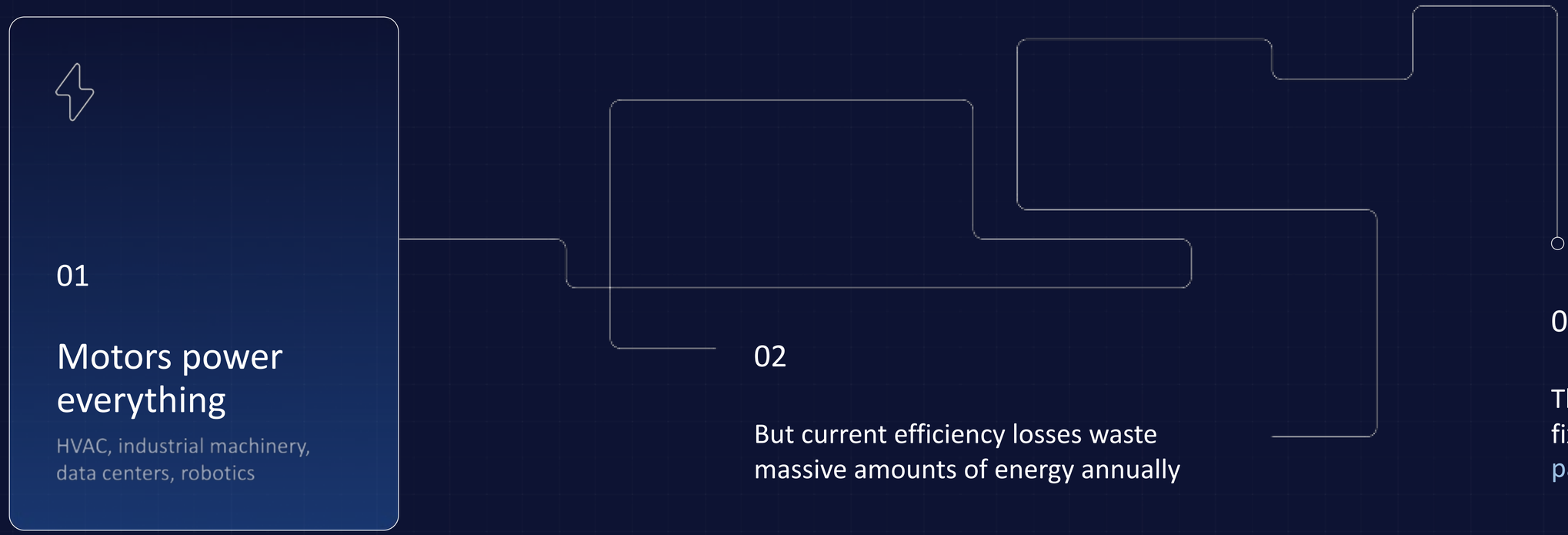


02

Rare earth free motor designs for supply chain independence

Motors consume 45% of global electricity, but most are inefficient legacy drives.

Our technology makes high efficiency affordable to usher in the new era of electrification



01

Motors power everything

HVAC, industrial machinery, data centers, robotics

02

But current efficiency losses waste massive amounts of energy annually

03

The technology exists to fix this, it's just doesn’t pay for itself

Current motors need external sensors that cost 20-25% extra while creating new problems

*This is especially brutal for AI robots.

$100s+ per motor

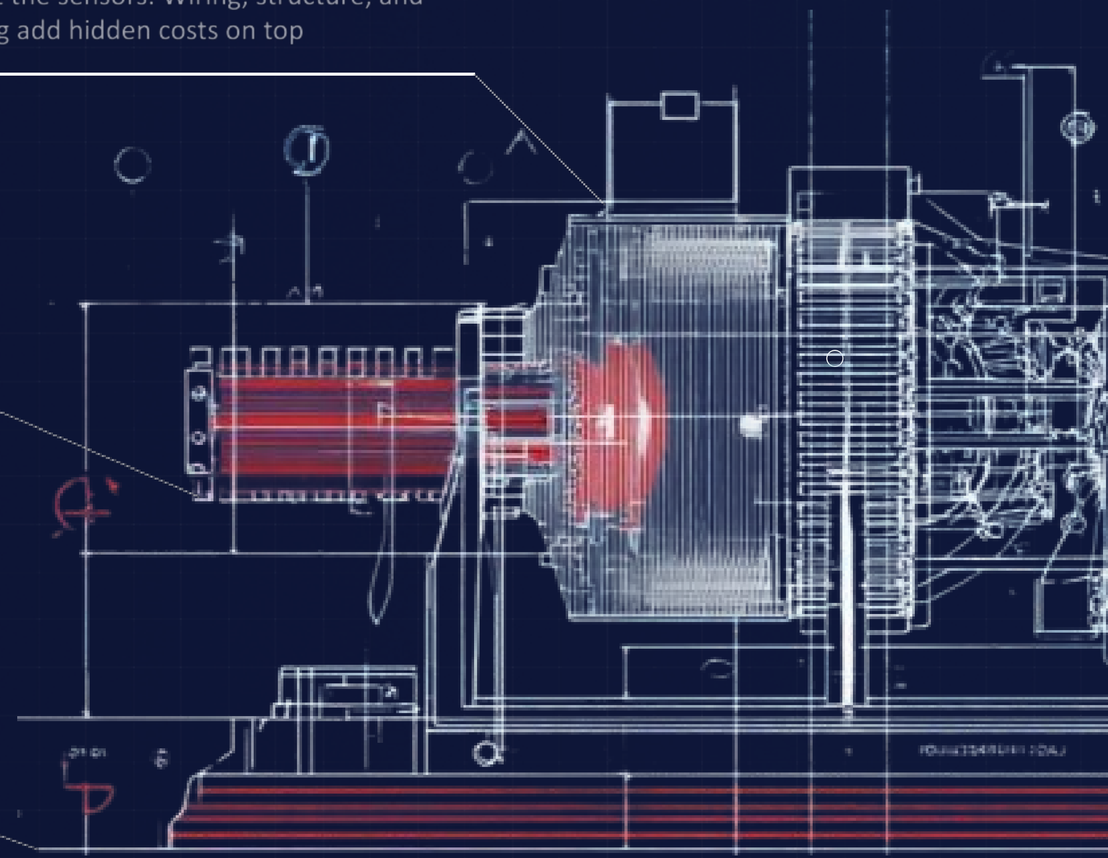
and that's just the sensors. Wiring, structure, and manufacturing add hidden costs on top

Reliability

Complex wiring harnesses create single points of failure

Time

Months of PhD-level engineering for each application



Our software plays Poker with the motor

High-frequency electrical pulses locate magnets without any external hardware, letting us x-ray the cards

- Patented saliency tracking, granted and issued
- Works with most synchronous motors, any application
- Signals bounce differently off magnets versus empty space



Others have tried the same method before, but like a game of Chess, we achieve perfect play.

Our software doesn't just run motors — it prints them

Sensorless control is the critical driver of factory AI — so smart factories mass manufacture motors

01

Process control

Sensorless control deployed on the production line provides rich process control feedback for AI to push tolerances and yield

02

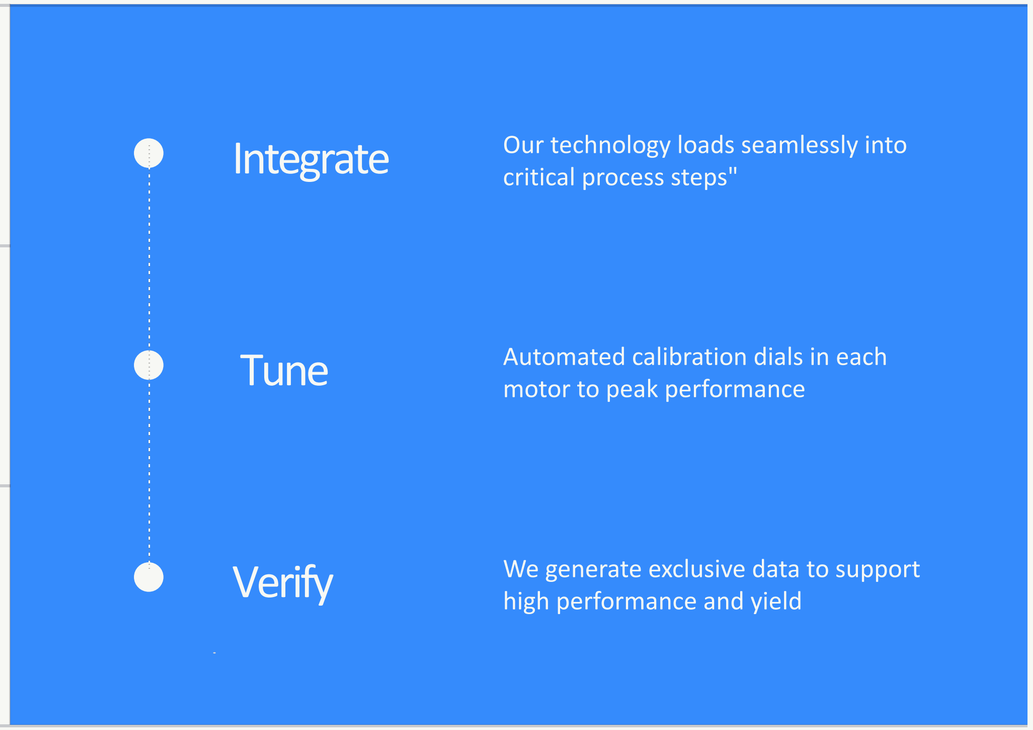
Early defect catch

Digital fingerprinting reveals manufacturing defects in real time — AI flags tooling before a batch is scrapped

03

Plug-in economics

Pure software — no new hardware on the production line. Closes the loop on every critical process step



The result

Current manufacturers trade performance for yield, compensating with expensive rare-earths

Our software-defined manufacturing lets our factories print high-performance, rare-earth free motors at scale

Thank you

PLUG AND PLAY

STARTUP PRESENTATION

DIRAC

Dirac

AI-Driven, Model-Based Manufacturing.

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Join us at pnptc.com

Anduril Selects Dirac as Manufacturing AI Partner

DIRAC × ANDURIL

"

[Link] Dirac x Anduril Announcement

[Link] Anduril COO Matt Grimm:
"Dirac accelerates Anduril's sales"

[Link] Anduril COO Matt Grimm:
"Since implementing BuildOS, we've seen wild, wild improvements" & 87.5% reduction in time to generate factory-ready work instructions from CAD



"

contact@diracinc.com

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PLUG AND PLAY

STARTUP PRESENTATION

context/fab

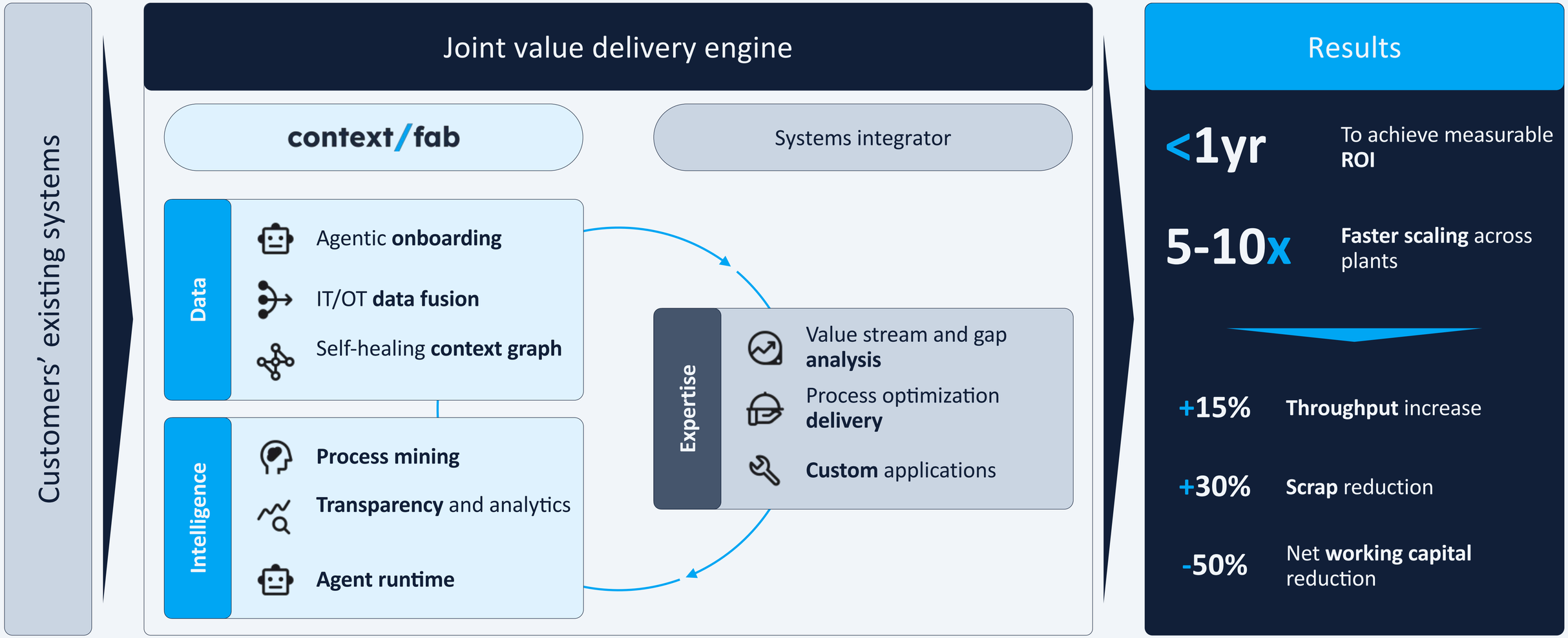
ContexFab

Decision intelligence for brownfield manufacturing.

#PNPTCSiliconValley

Join us at pnptc.com

We joined forces with a leading systems integrator to deliver an unrivalled combination of speed and consulting expertise



PLUG AND PLAY

STARTUP PRESENTATION

PLASIV

Plasiv

AI-powered optimization software for global manufacturers.

#PNPTCSiliconValley

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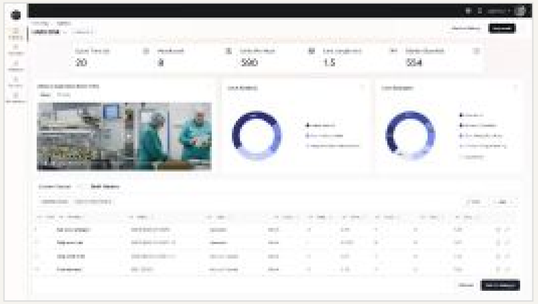
PLASIV

INDUSTRIAL ENGINEERING AGENTS FOR PHYSICAL AI

We're building the agent stack that makes Physical AI deployable in any factory.



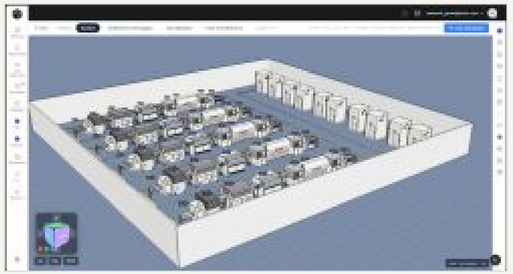
Process Design



Video Analytics



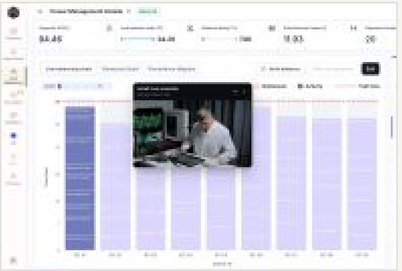
Discrete Event Simulation



3D Factory



Real-Time Data Analytics



Line Balancing

Physical AI needs **space + video + time-series logic** together - **text-based LLMs alone can't solve it.**

RESULTS IN PRODUCTION

99.5%+ simulation accuracy

1–3% CapEx + OpEx reduction

22% less manual workload

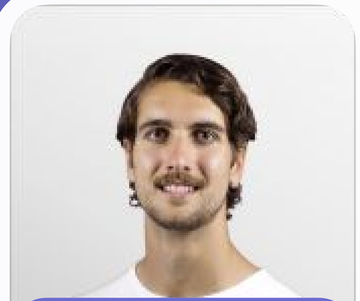
ACTIVE PROJECTS 4 COUNTRIES

● India | ● China | ● USA | ● Japan

PLUGANDPLAY

SV SUMMIT

PHYSICAL INDUSTRIES PORTFOLIO PANEL



MODERATOR

Stefan Faistenauer

Principal
Plug and Play



Ben Brakenwagen

Director
Dirac



Marc Krüger-Sprengel

Co-Founder & CEO
ContexFab



Kishan Chalumuri

Founder & CEO
Plasiv

PLUG AND PLAY

SV SUMMIT



KEYNOTE SPEAKER

Malcolm Jack

CTO

Granite Construction

#PNPTCSiliconValley

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PLUG & PLAY · PHYSICAL INDUSTRIES EXPO · MAY 2026

AI in heavy civil construction.

Malcolm Jack · SVP, Chief Technology Officer

Granite Construction · NYSE: GVA


GRADITE®

THE TRANSFORMATION

$8.90 → $145

March 2020

May 2026 · All-Time High

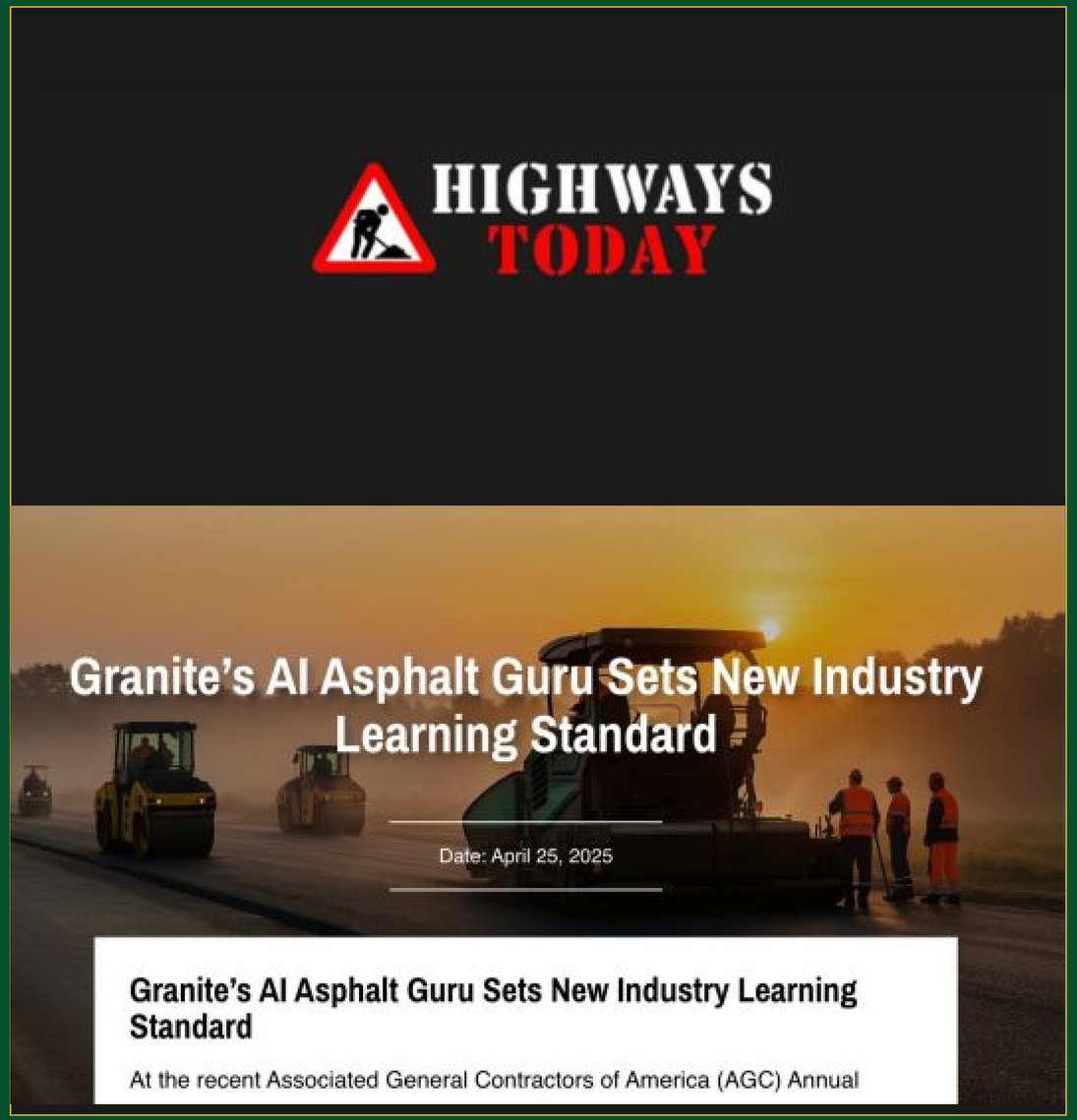
Granite Construction · NYSE: GVA

THE HUMAN COST · U.S. CONSTRUCTION

3 deaths.
400+ serious injuries.
Every day.

FIELD-FIRST · GOVERNED · DISCIPLINED

Just Getting Started.



GRANITE VENTURE CAPITAL

We don't write checks and disappear.

01

Link arms.

Co-build with founders solving real problems.

02

Sweat equity.

Operator partnership, not just capital.

03

Ruthless Selection.

Groundbreaking + Value Creating

Where will you land. .

Are you leading, or catching up?

Malcolm Jack

SVP, CTO & CISO · Granite Construction

Scan to connect

Thank You.

PLUG AND PLAY

SV SUMMIT

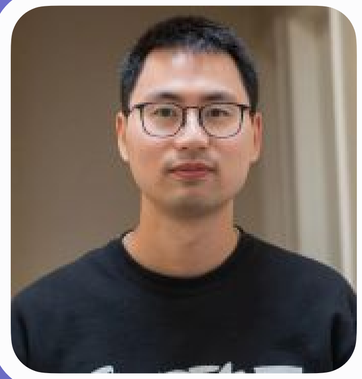
KAJIMA & NOBLE MACHINES FIRESIDE CHAT



Aki Manda

Technology Development Manager

Kajima



Wei Ding

Co-Founder & CEO

Noble Machines

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Noble Machines

Supporting humans in the toughest jobs.

Adaptive to diverse environments



Tight Spaces



Stairs

Adaptive to different tasks



Warehouse Operations



Construction Material

PLUG AND PLAY

SV SUMMIT

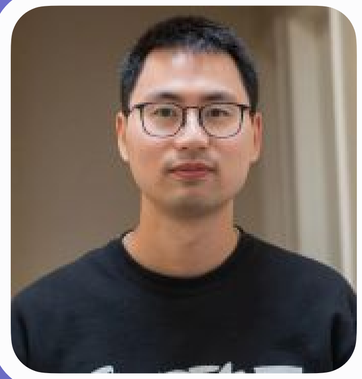
KAJIMA & NOBLE MACHINES FIRESIDE CHAT



Aki Manda

Technology Development Manager

Kajima



Wei Ding

Co-Founder & CEO

Noble Machines

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PLUG AND PLAY

STARTUP PRESENTATION

Crewline AI

Crewline

Crewline upgrades your existing heavy equipment to make it self-driving.

#PNPTCSiliconValley

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Crewline



Self-driving rollers for earthworks contractors.
Install in an hour.

MOHAMED SADEK
Co-founder & CTO

ZACH WATTS - OWNER, WATTS SERVICES (PHILADELPHIA, PA)

2 OF 3

JOBS HE CANCELS - FOR LACK OF OPERATORS

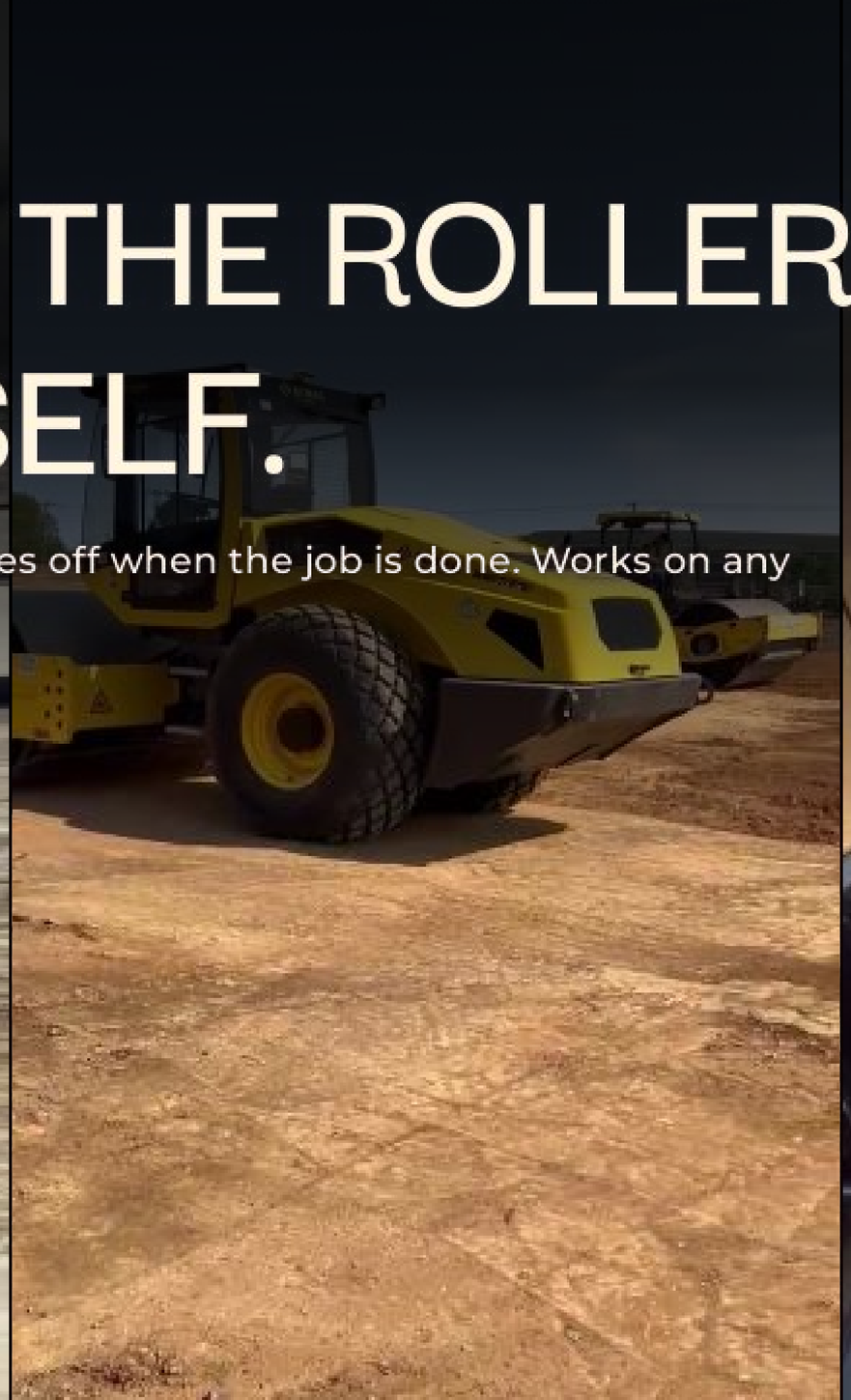
Zach isn't unusual. He's typical. Across US earthworks, the labor shortage is the single biggest constraint on growth. Contractors aren't running out of dirt to move - they're running out of people to move it.



WE MADE THE ROLLER DRIVE ITSELF.

Retrofit kit. One hour to install. Comes off when the job is done. Works on any brand.







WE START WITH THE ROLLER.

THREE REASONS

01

NOBODY WANTS THE JOB.

→ Crews welcome it. Faster adoption.

The most repetitive seat on the site.

02

PREDICTABLE BEHAVIOR.

→ Far fewer safety objections.

Slow. Straight lines. Defined zones.

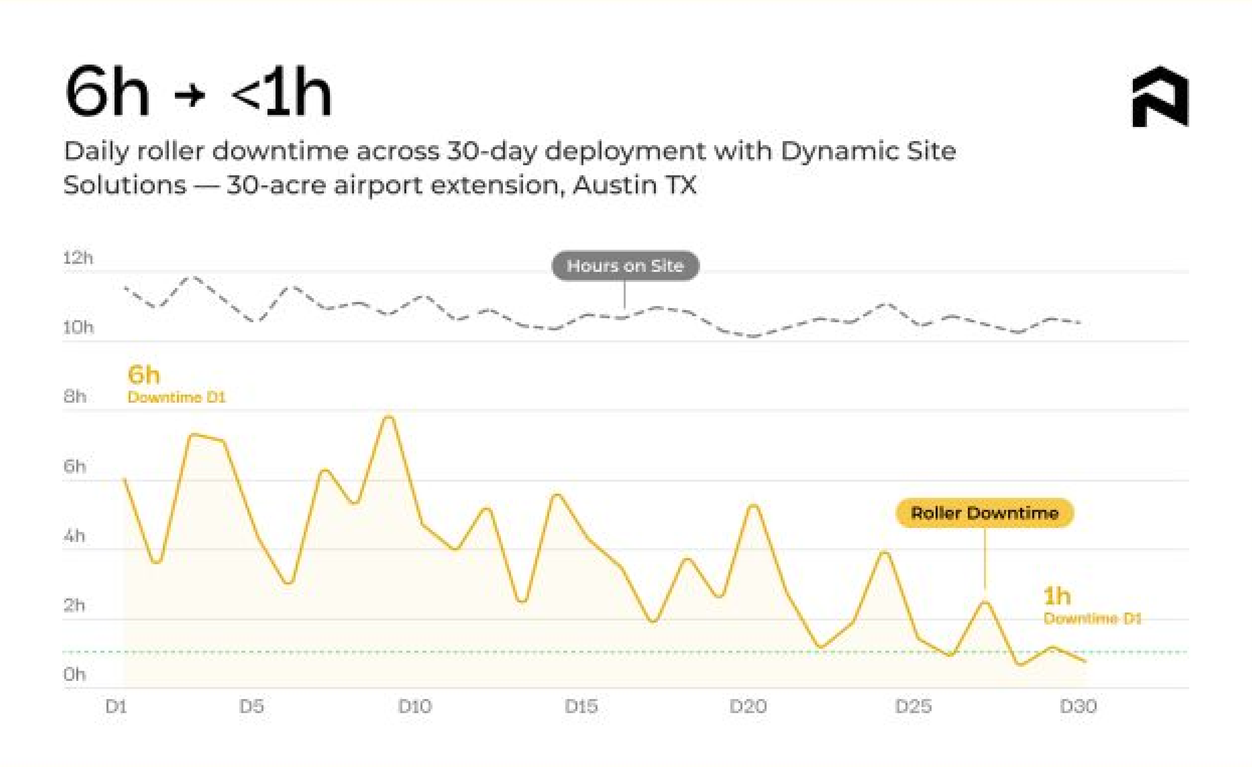
03

PURE EXECUTION.

→ Real labor savings, day one.

The roller takes a zone and compacts it. The operator doesn't manage anyone.

Downtime reduced 6h to <1h in 30 days on Texas site deployment.



> "I didn't believe it would work until I saw it run for eight hours straight.



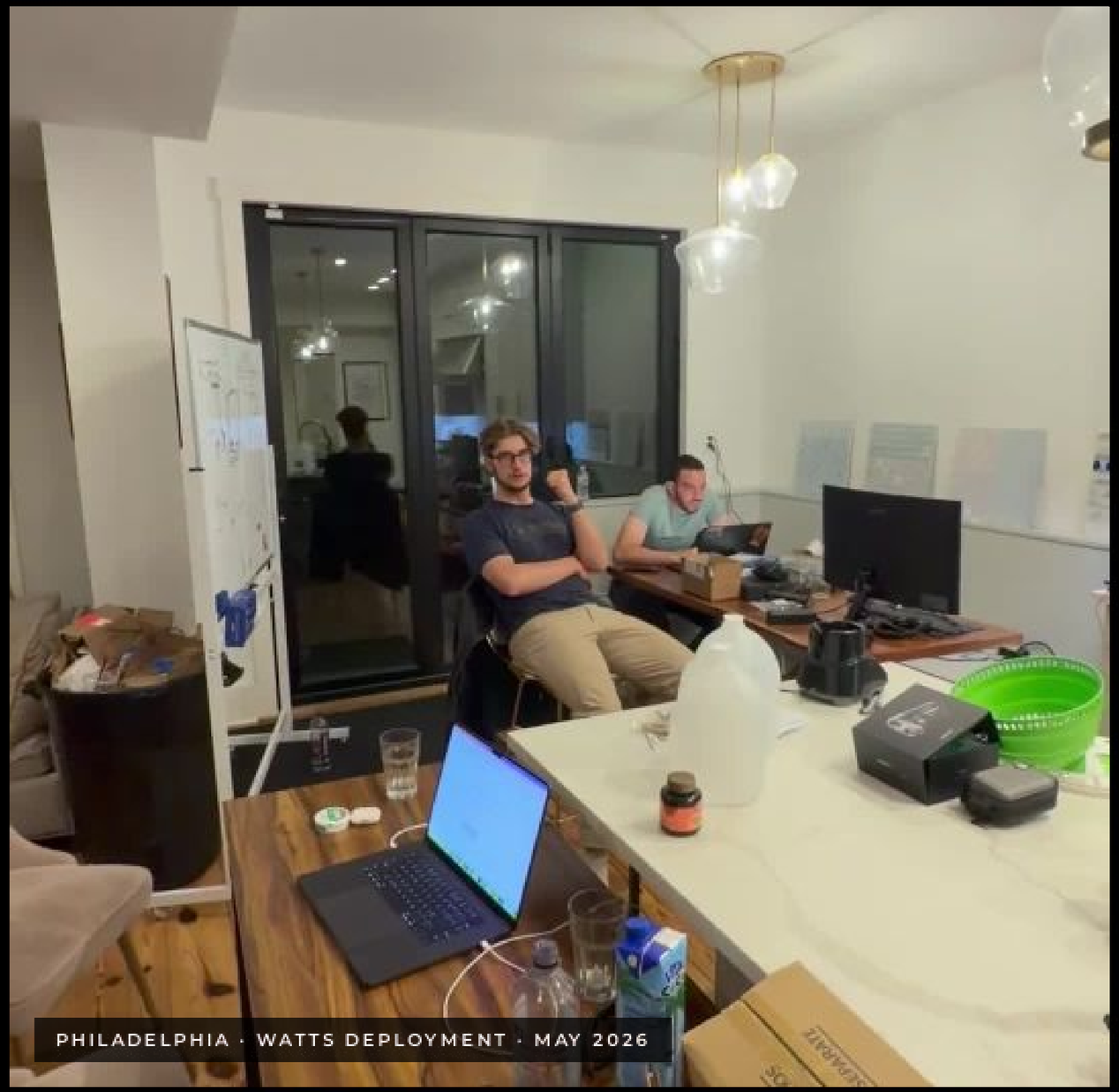
ZACH WATTS
OWNER, WATTS SERVICES

ACTIVE
WATTS - PHILADELPHIA · SCALING 1→3

PIPELINE
BECHTEL · HAYDON · MORTENSON

WAITLIST
241 CONTRACTORS SINCE CONEXPO

COMPANY **8 MONTHS IN · TEAM OF 4 · $7.1M FROM INITIALIZED + NEBULAR**



PHILADELPHIA · WATTS DEPLOYMENT · MAY 2026

FORWARD-DEPLOYED

WE LIVE WHERE THE DIRT IS.

No central office. Our team rents a house near every active deployment - and stays for the duration.

- **Austin, TX** - Dynamic Site Solutions
- **Philadelphia, PA** - Watts Services NOW
- **Wherever's next**

THE ROLLER IS THE WEDGE.

End-to-end automated earthworks. Same retrofit playbook. One machine at a time.

TODAY



ROLLER
SHIPPING

NEXT



DOZER

→



MOTOR GRADER

→



DUMP TRUCK

→



WHEEL LOADER

→



EXCAVATOR

COME FIND ME.

Earthworks contractor? Your first roller will be driving itself - in under an hour.

Investor? Catch me - I'll connect you with Freddie.

FIND MO

EMAIL

mohamed@crewline.ai

PHONE

(940) 560-2203

BRELLA

Mohamed Sadek

WEB

crewline.ai

SCAN - MO ON LINKEDIN

PLUG AND PLAY

STARTUP PRESENTATION

SiC Systems

SiC Systems

Multi-Agent AI for Industrial Systems.

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SiC Systems

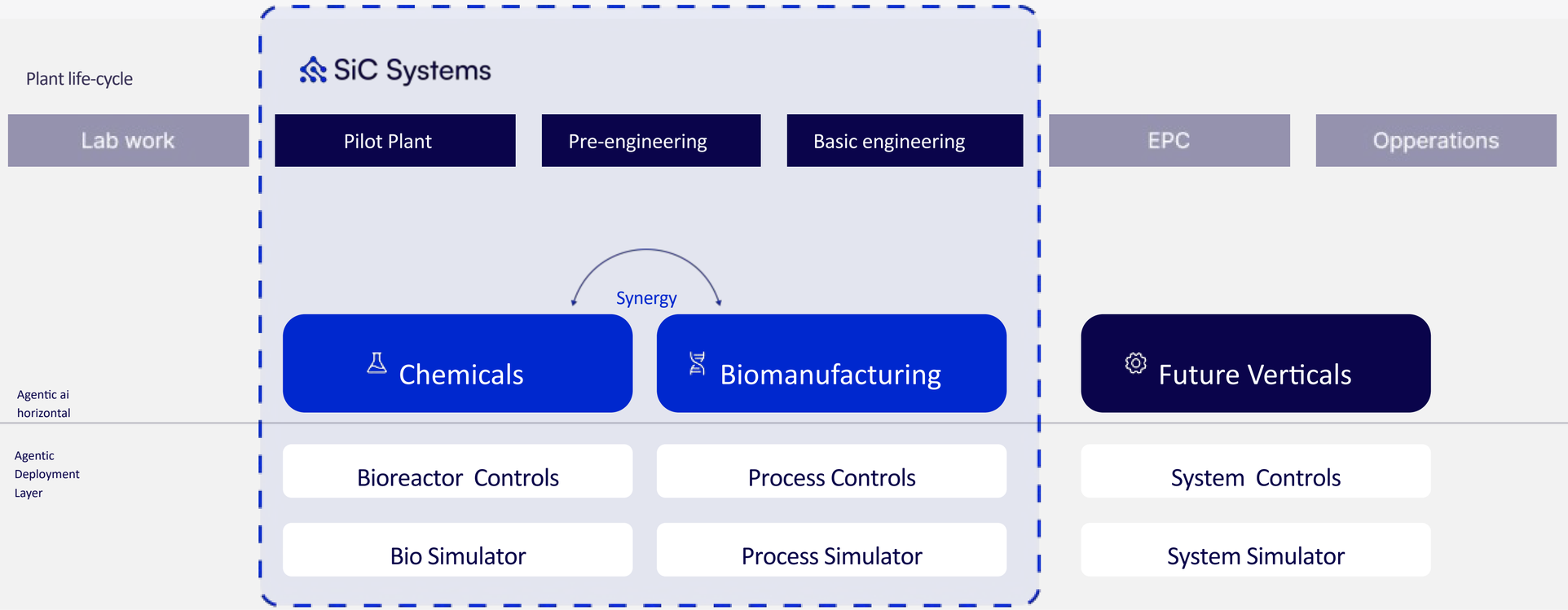
Adaptive Agent-Oriented Systems Control (AAOSC)

Physics-Informed Agentic AI for Enterprise

SiC Systems | 2026

Confidential & Proprietary

Pursuing full life-cycle plant projects with global players



Forward Deployed Engineering Services

- High-value engineering support
- Sensor support
- System integration support
- Platform support

Integrates with SCADA systems, supporting MQTT and MCP protocols, multiple agent hierarchies, and mesh configurations.

Confidential & Proprietary

Supporting World's Most Complex Industrial Operations with AI & Quantum Tech



- Reducing batch variation & energy use across global plants



- Stabilizing complex chemical & biopharma processes



- Real-time sensor fusion for power grids & utilities



- Automated soft-sensor modeling for healthcare & pharma



- Control orchestration for aerospace & automotive manufacturing



- Secure decision support for defense & mission-critical ops



- Predictive control for industrial IoT & robotics networks



- Intelligent optimization for food & agri-tech operations

Confidential & Proprietary

SiC Systems

SiC Systems Demonstration



Confidential & Proprietary

Led by Pioneers in AI, Automation, and Intelligent Systems



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CEO, Chairman & Co-Founder
cjs@si-c.io



Seyed Soheil Mansouri,PhD
CSO & Co-Founder
ssm@si-c.io



Eric Reuthe
CTO & Co-Founder
eric@si-c.io

106 +
Years of Combined Professional Experience

236
Scientific Publications in Our Team

214
Patents Held Worldwide & in the US

Confidential & Proprietary

SiC Systems

The Next Industrial Revolution Isn’t Coming.
It’s Already Here.
Let’s Shape it Together.



Christopher Savoie | CEO
cjs@si-c.io

Backed by: PLUG AND PLAY P|V Wavepeak Ventures

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PLUG AND PLAY

STARTUP PRESENTATION

EVOLOH

EVOLOH

EVOLOH builds electrolyzers stack for behind the meter use.

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EVOLOH

Low-Cost Monetization of Behind-the-Meter Power

Electrolyzer stacks that lower total system cost and unlock superior project profitability

CONFIDENTIAL

Electricity Is Becoming Intermittent, Volatile, and Harder to Monetize.

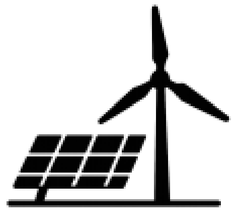
Distributed Energy Hubs

- Warehouses, data centers
- Untapped on-site power



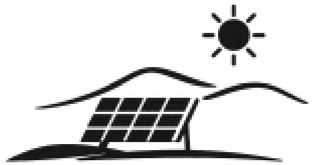
Renewable Energy Assets

- Developers, utilities
- Price volatility, negative pricing, and curtailment



Solar-Rich Regions

- Australia, Chile, MENA, Spain
- Limited grid capacity



Electricity must be converted into transportable chemicals to capture its full value.

A Lower-Cost Electrolyzer Architecture

- DIRECT-TO-DC TECHNOLOGY

  Behind the meter, grid independent

  Low CapEx, fast deployment

  Intelligent, real-time optimization

- HIGH-THROUGHPUT MANUFACTURING

  100% domestic supply chains

  100% Made in USA

  5x lower factory CapEx *vs* state-of-the-art



Hardware Revenue With Recurring Software Services.

- **STACKS, NOT SYSTEMS**

  Standardized stacks

  Lower capital intensity & higher margins

- **SOFTWARE & DATA SERVICES**

  Insurance-backed subscription services starting in 2027

  Predictive model of stack performance & optimization



3MW module



12MW module

Scaling Now: Capital & Strategic Partnerships

FUNDRAISING

$12M in SAFEs *[May 2026 – Aug 2026]*

- Deliver customer units.
- Increase production rate.

$60M Series B *[Q4 2026]*

- Grow sales pipeline.
- Secure stack underwriter.
- Develop AI models.
- Build full assembly line.

STRATEGIC PARTNERSHIPS

Behind the Meter partners *(EPC, Power Electronics..)*

- Reference designs
- Power electronics strategic partnerships

Corporates across our key markets to expand beyond first commercial projects

- Distributed Energy Optimization (1-10 MW)
- Renewable Asset Monetization (10-75MW)
- Industrial Process Integration (75 MW+)

Key people & Company key data

Executive Team



Dr. Jimmy Rojas
CEO & Director

- Forbes 30U30
- VC experience
- Invented commercialized IP
- Stanford U. & MIT



Scott Blanchet
Chief Operating Officer

- >25yrs fuel cell industry
- CTO at Nuvera Fuel Cells
- >300 patents.
- Stanford U.



Dr. Art Shirley
Chief Strategy Officer

- >30yrs H_2 industry
- VP of H_2 at Air Liquide
- Head of Energy at Linde.
- Princeton U.



Mike Hill
Chief Commercial Officer

- >30yrs in biz. dev. & sales.
- President Global Sales & CCO at Danfoss Power Soln.
- Gen. Mgr. Global Sales Operations at GE Power

- **Founded** in 2020
- **HQ**: Santa Clara, CA
- **Factory**: Lowell, MA
- **Raised**: > $42M
- **Commercial status:** Delivering 10MW in orders in 2026

Investors/Supporters

Thank you!

Nadia El Andaloussi – Head of Commercial Development : nadia.elandaloussi@evoloh.com

CONFIDENTIAL

PLUG AND PLAY

STARTUP PRESENTATION

Glow

Glow

A community working together to build a more sustainable energy grid.

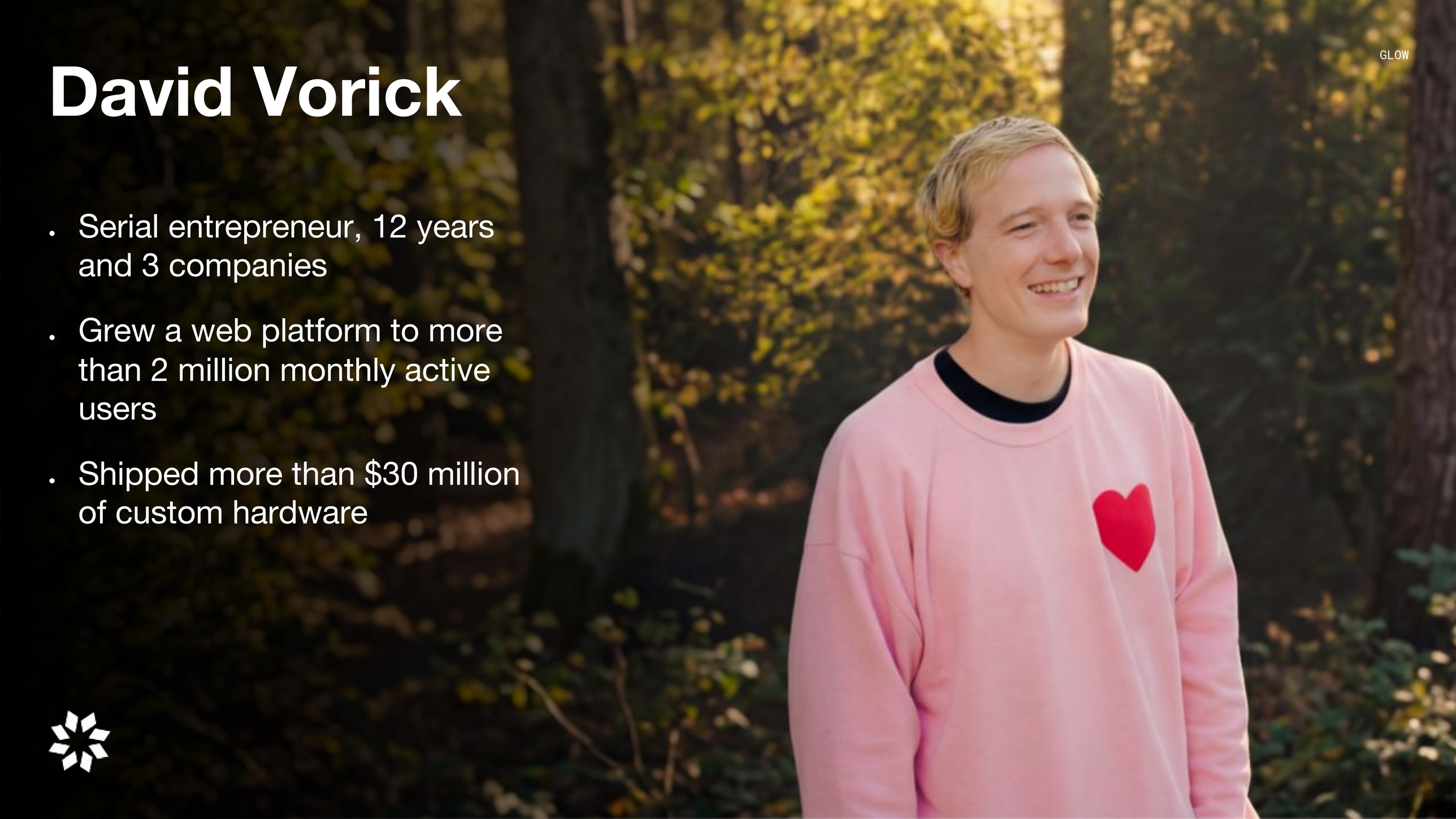
#PNPTCSiliconValley

Join us at pnptc.com


Glow

David Vorick

- Serial entrepreneur, 12 years and 3 companies
- Grew a web platform to more than 2 million monthly active users
- Shipped more than $30 million of custom hardware



Bitcoin

- Exceptional at producing mining machines
- 10+ million miners all over the world
- Uses more electricity than the country of Argentina



That’s Really Neat!



Copying Bitcoin

- Glow uses the same incentives, but focuses on solar
- In the V1 pilot, Glow created 20+ MW of solar in under 12 months
- Glow is a machine that produces net-new solar



Useful Power

- Glow can control where and how solar is built
- Glow can be a non-wire-alternative to manage congestion
- Glow can even add batteries and value stack



Examples

- Glow can incentivize solar that targets specific feeder-circuits
- Glow can manage grid congestion for 10c per watt



glow.org
david@glow.org

Let’s talk

PLUG AND PLAY

SV SUMMIT

STARTUP PRESENTATION

KIWI NEW ENERGY

KIWI Energy

AI-Energy DataCenter (AI-EDC) - turning every kilowatt-hour into smarter power

#PNPTCSiliconValley

Join us at pnptc.com

KIWI
NEW ENERGY

*making every kWh **intelligent***

AI ENERGY DATACENTER

(AI-EDC)

| The operating system for global renewable energy |





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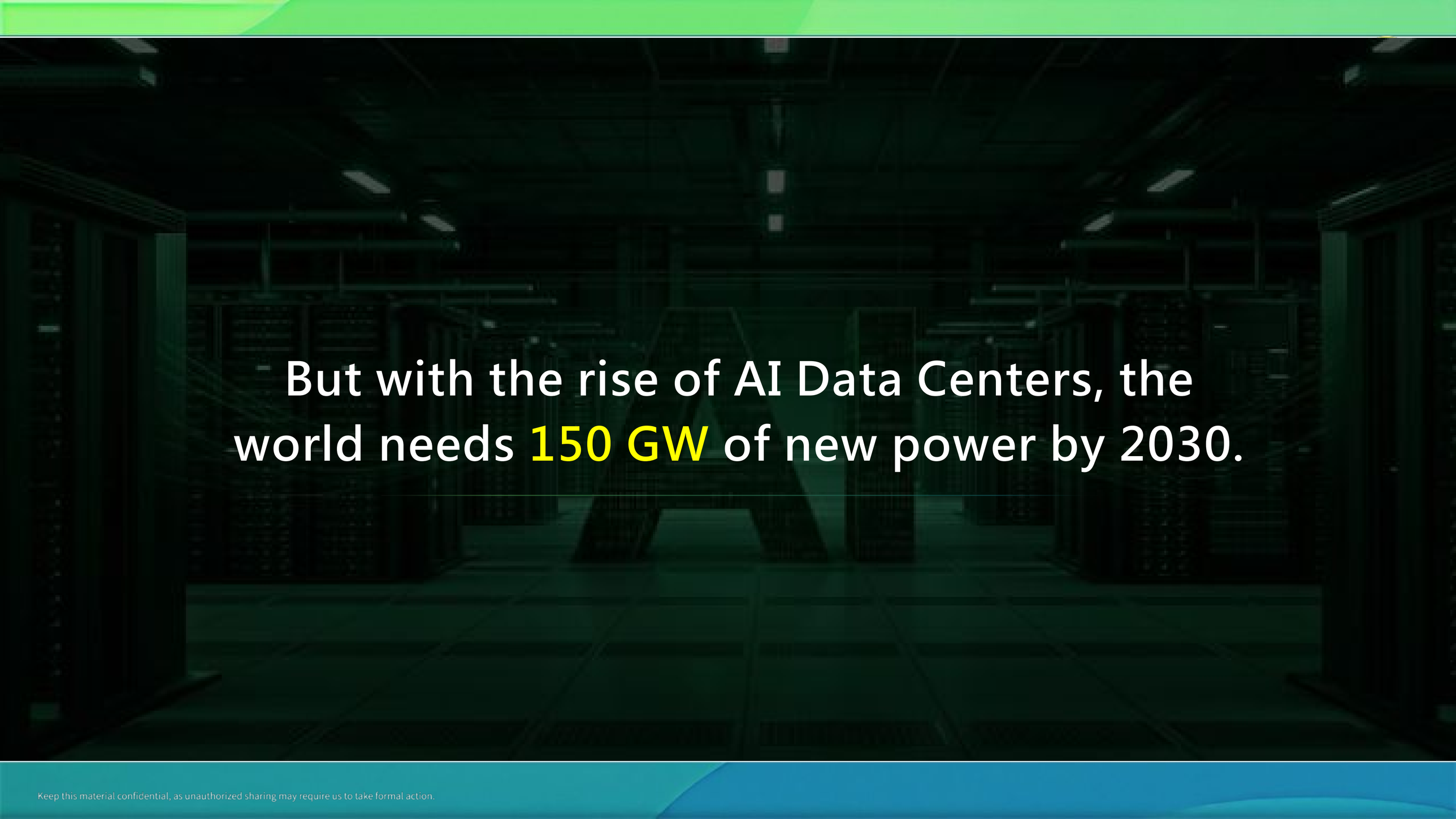

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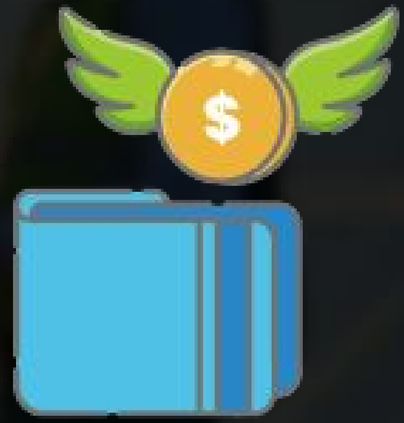
Renewable energy is everywhere
But also wasted everywhere.



Curtailed Clean Energy



Inaccessible Green Power

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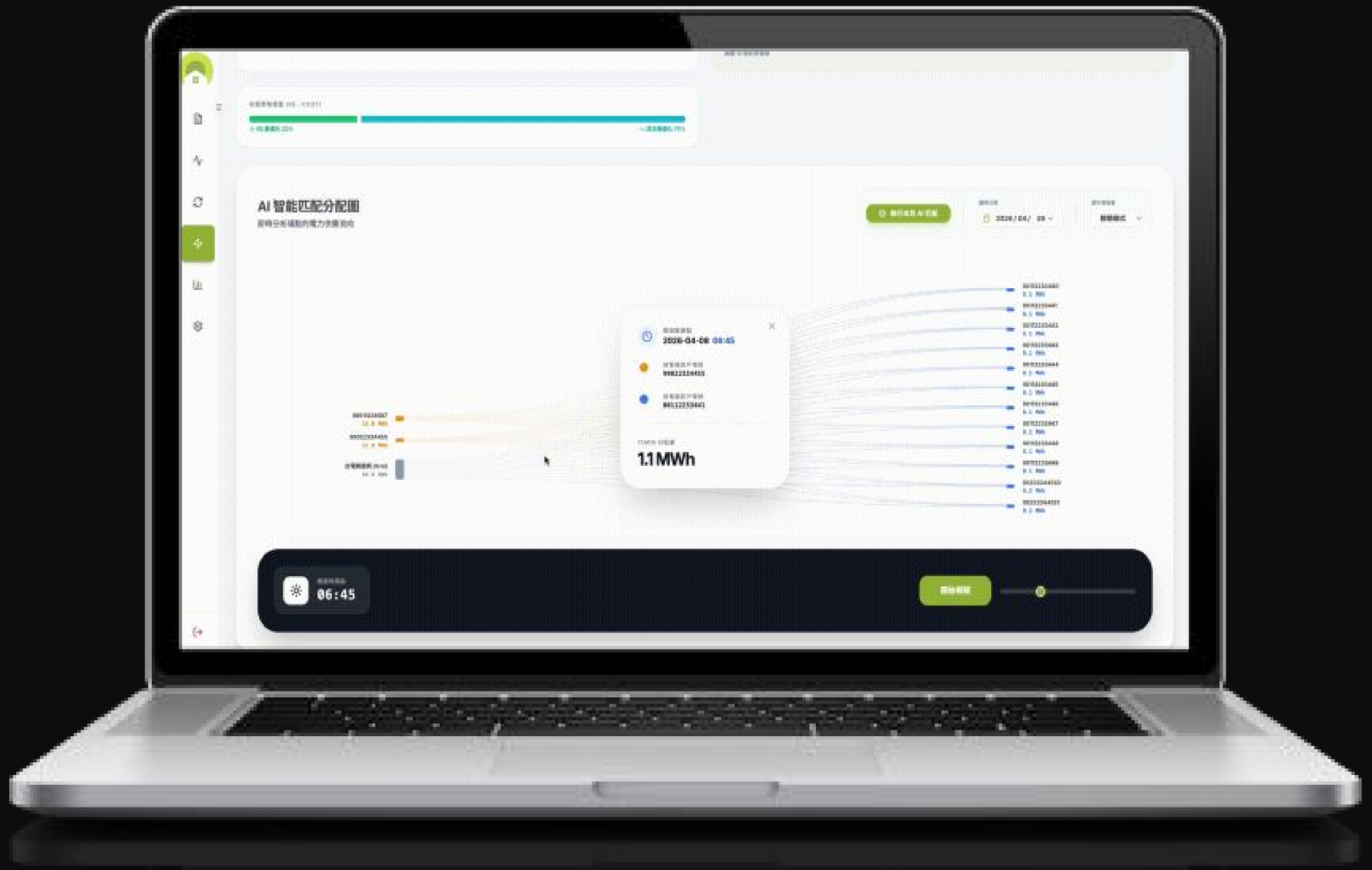
Energy needs a brain.

KIWI

NEW ENERGY

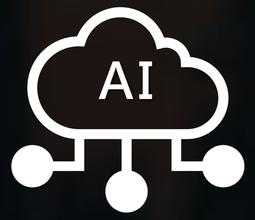



AI 智能匹配分配图
1.1 MWh
06:45

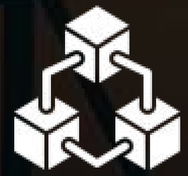
SEAMLESS INTEGRATION OF ADVANCED TECHNOLOGIES



Virtual Power Plant (VPP) Technology



AI ENERGY MAPPING



Blockchain-Backed Renewable Energy Certificates (RECs)

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KIWI SMART ENERGY AI MATCHING ENGINE

Real-Time AI-Based Energy Mapping System





2 Dynamic Green Power Matching





1 Live Consumption Data & Prediction



3 Automated Battery Charge/Dispatch







4 **Blockchain / RECs**

Auditable green energy origin tracking

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KIWI SERVES BEST TO...



Retailers &
Chain Corporations



Small & Middle
Businesses



Households

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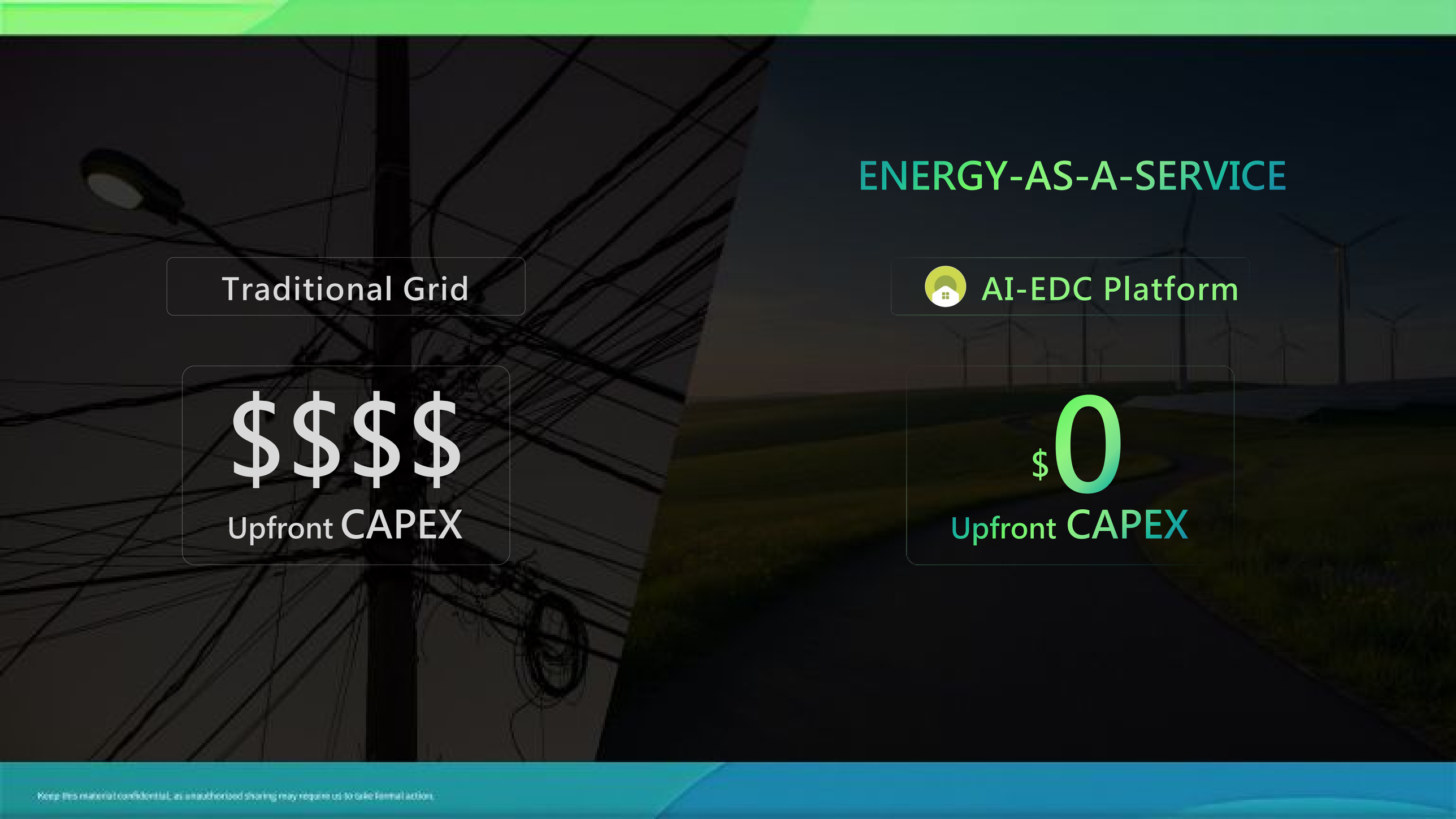

ENERGY-AS-A-SERVICE

Traditional Grid

$$$$

Upfront CAPEX

AI-EDC Platform

$0

Upfront CAPEX

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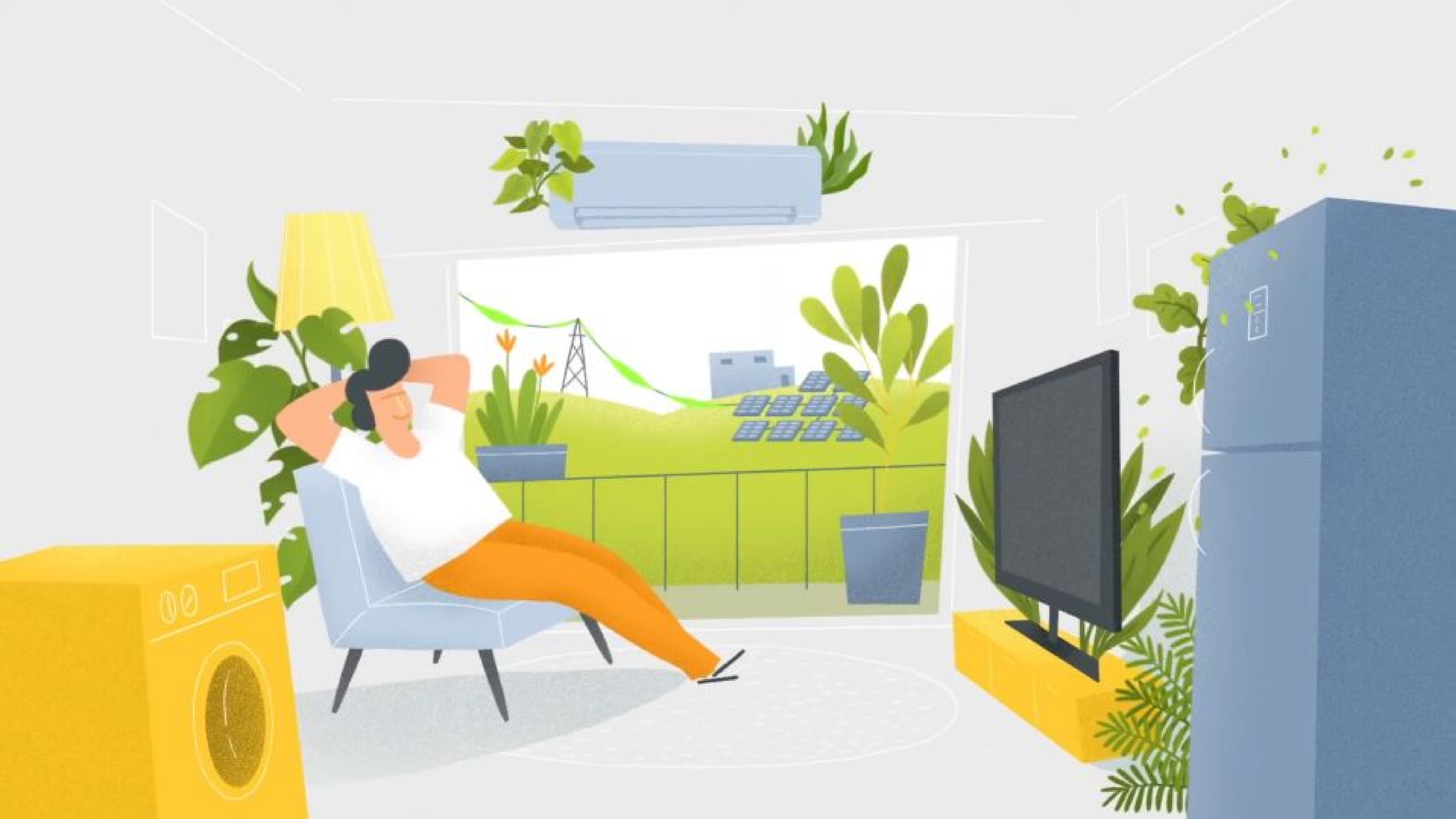
KIWI
NEW ENERGY



CFE-24/7 NGO

semi
Semiconductor Climate Consortium
CLIMATE GROUP RE100
EC Energy Collaborative
THE INTERNATIONAL REC STANDARD

RE100 RETAILERS

IKEA
DECATHLON

GE Wheeling & REC

T-REC National Renewable Energy Certification Center

Green Finance

Tokyo Century
SINANEN HOLDINGS

Green Retail, Restaurants & Shops

FamilyMart
王品集團 wowprime
一風堂 IPPUDO SG
王德傳 Wang De Chuan Fine Chinese Tea Since 1962

AI & VPP Technology

TESLA ENERGY

Green Mobility

eTreego

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EXCLUSIVE PARTNERSHIP WITH TESLA ENERGY IN ASIA

KIWI NEW ENERGY

AI-Energy Datacenter



TESLA ENERGY

Smart Energy
Storage Solutions

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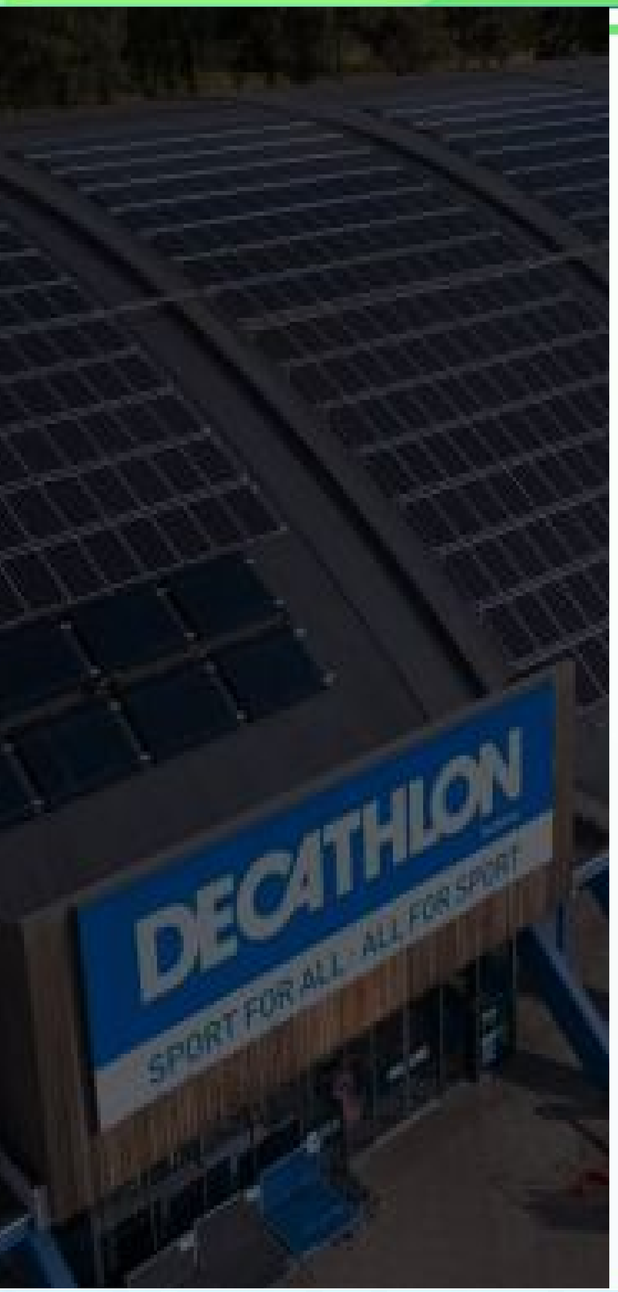
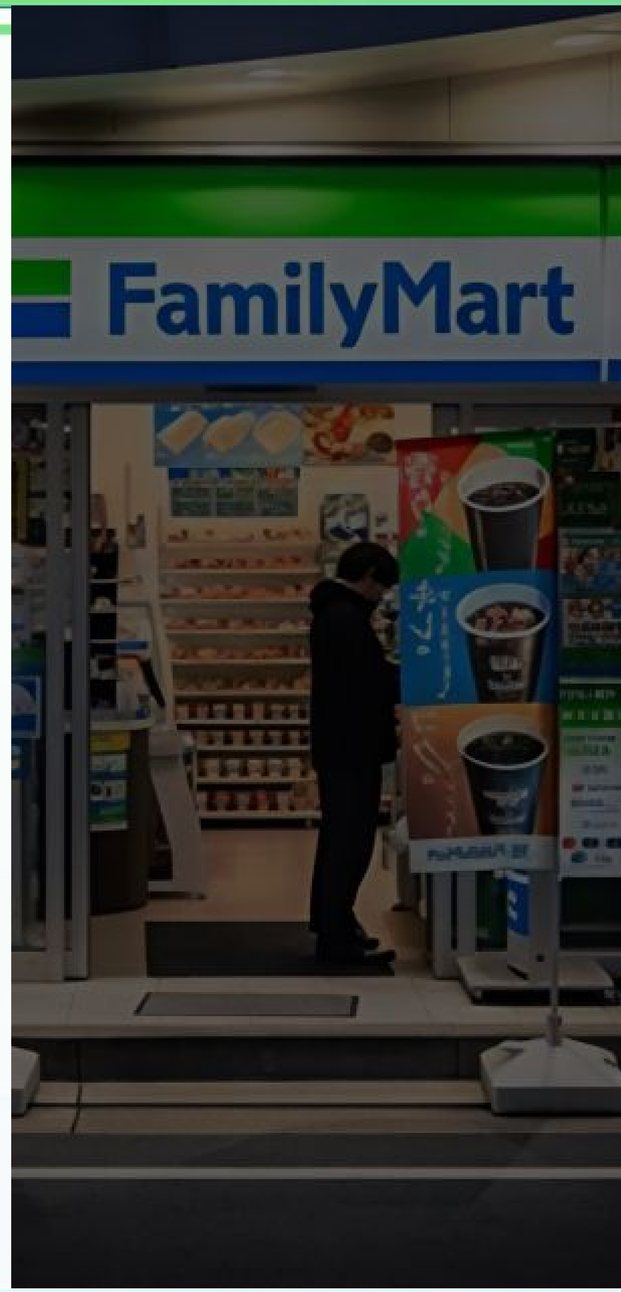


THE NEW GREEN RETAIL MODEL





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HOW WE BRING KIWI NEW ENERGY TO OVERSEAS

NEXT STEP: KIWI JAPAN

Software-layer

KIWI NEW ENERGY

AI ENERGY EFFICIENCY

Hardware & Financial

Powerwall

Tokyo Century

GREENPHARD ENERGY

SINANEN HOLDINGS

NIPPON SOLAR

LOCAL PARTNERS



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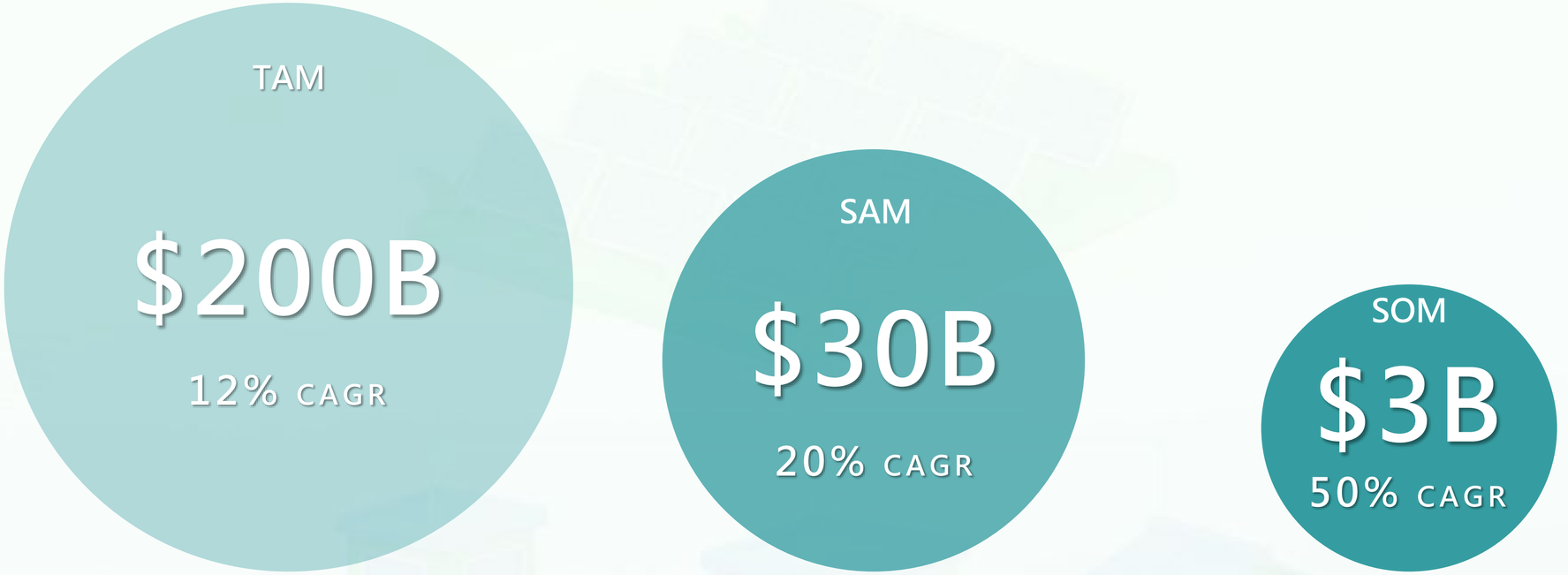
2030 GLOBAL GREEN POWER TRADING MARKET SIZE



Global GE Exchange Market

Online GE Exchange Market

KiWi AI GE Exchange Market

10% Share of Market

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COMPETITION LANDSCAPE



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Dr. Steve Huang

Former NVIDIA Executive: Served as Director of Marketing, APAC at NVIDIA Corporation (2004–2006).

Bachelor of Science in Medical Science and a DBA (Doctor of Business Administration) from the University of Toronto.

LEADERSHIP DRIVING TOWARDS GREEN ENERGY INNOVATION

Powered by a team of diverse experts with decades of experience in *AI, blockchain, smart energy management, renewable energy development* and more.



Ryo Lee
Co-founder & COO



Joy Zhao
Board/Supply Consultant



Lider Wang
Board/BD Consultant



Angus Zuo
Tech Director



Reese Lee
Marketing Director



Dr. Paul Garrity
Tech Director



Uchida Takeaki
KiWi Japan Leader



Carlos Corbin
Global Sales VP



Leel Vinord
Chief AI Engineer

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THE ASK



US$ 7 M

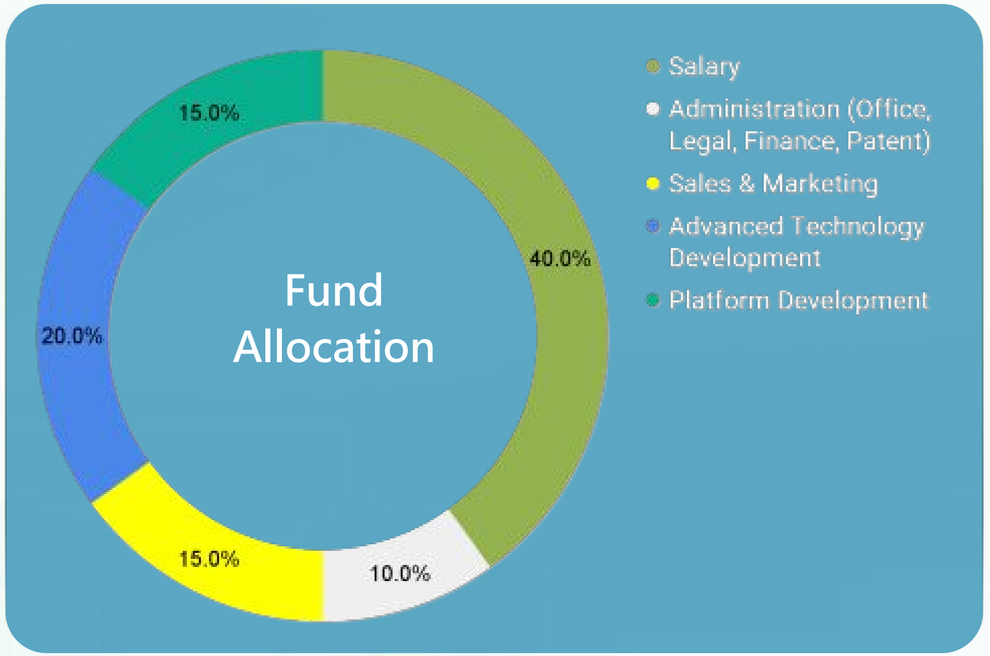
pre-A Round

Co-Invest Opportunity with
Strategic Investor &
National Development Fund of Taiwan



0.75 TWh

Renewable PPA Deals
1% of available market



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LET'S MAKE

EVERY KWH INTELLIGENT TOGETHER!

Dr. Steve Huang - CEO & Co-Founder

steve@kiwinewenergy.com

Ryo Lee - COO & Co-Founder

ryo@kiwinewenergy.com



PLUG AND PLAY

SV SUMMIT

FUTURE OF ENERGY PANEL



MODERATOR

Reza Khaj

Director, Energy
Plug and Play



Sindhu Kotha

Investment Manager
Sabanci Climate Ventures



John Mern

Co-Founder & CEO
Terra AI



Payam Yeganeh

Senior Managing Director
Black & Veatch