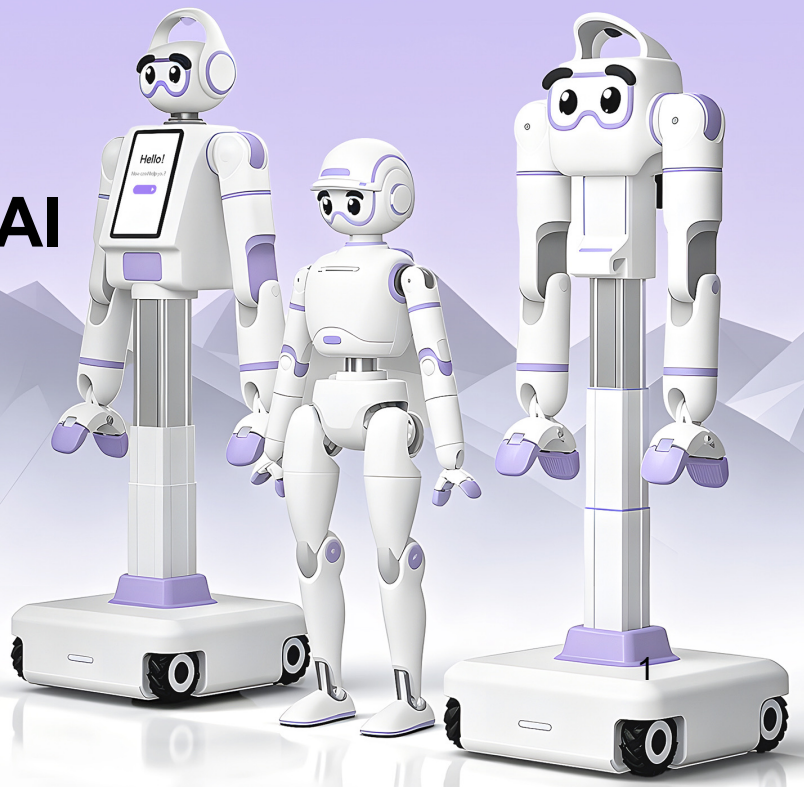
Striding into the era of Embodied AI

How to bring Robot to the Real World

Rock Yang

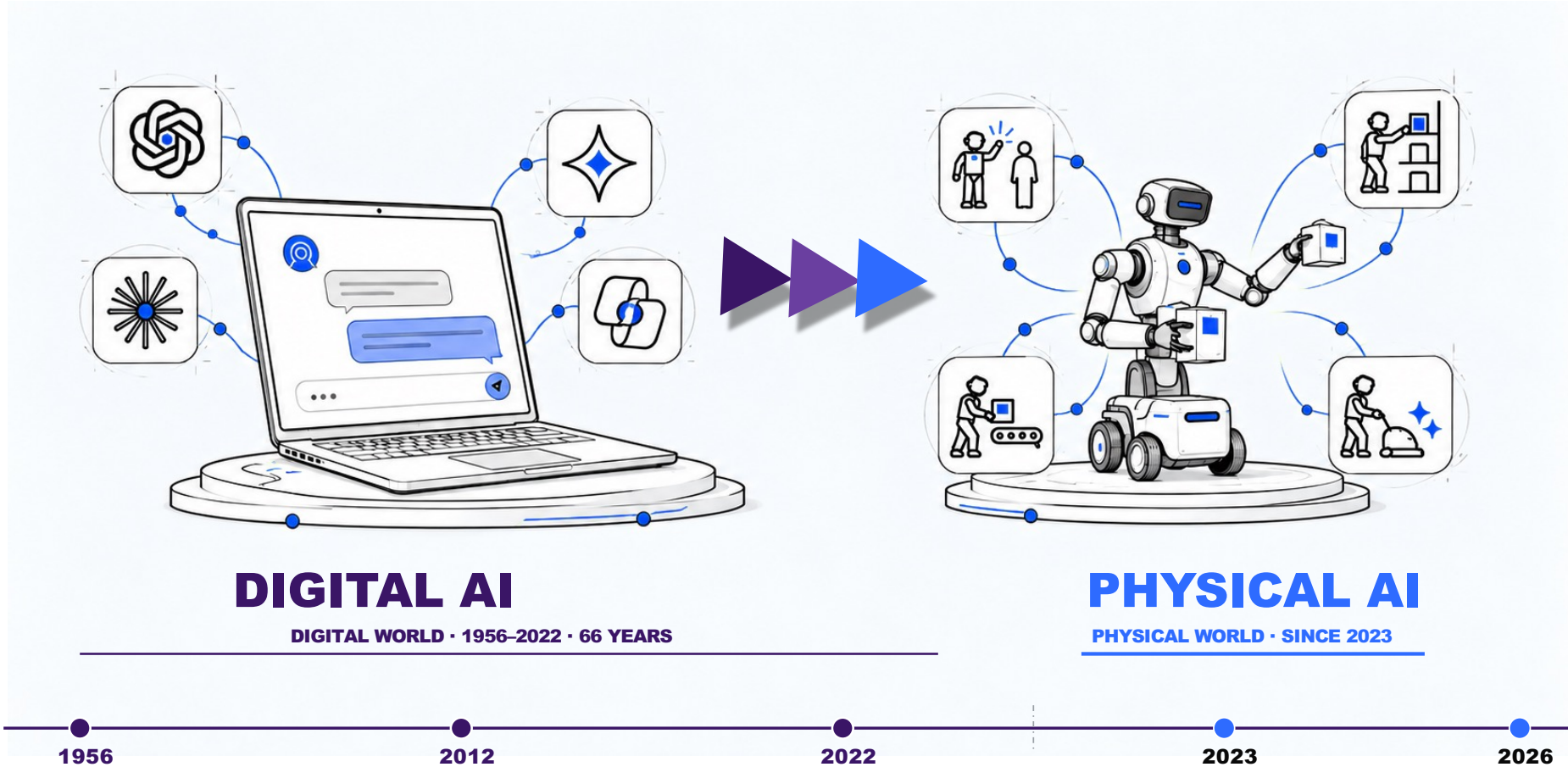
Striding AI



AI from Digital to Physical

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From generating answers to taking action — 66 years in the digital world, now stepping into the physical world.



Why Now: The technology inflection point is here



By 2040, the global installed base of humanoid robots could be worth

USD 200-250 trillion

SUPPLY · TECHNOLOGY

Model Capability Crosses the Commercial Threshold

- **VLA (Vision-Language-Action)** base models matured
- **World Action Model (WAM)** + real-robot reinforcement learning
- Embodied AI models pass the **commercial viability line** for the first time

DEMAND · SCENARIOS

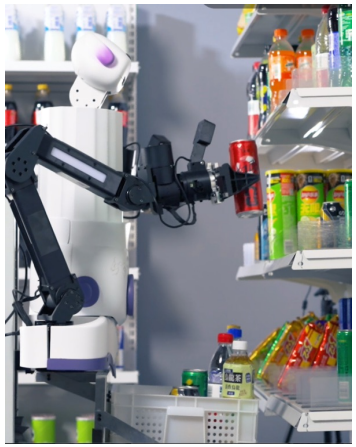
The Real-World Commercial Loop Is Still Unclaimed

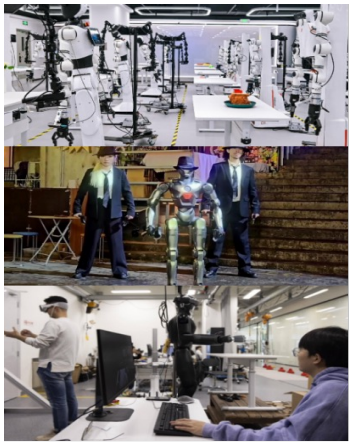
- Current orders dominated by **entertainment, research & education, data-collection factories**
- No one has yet closed a **pay-and-renew** loop in real commercial scenarios
- Whoever first builds a **data flywheel** in real scenarios wins the lead

COMPETITION · LANDSCAPE

Giants Are Accelerating In Hardware

- **Automakers, phone makers & smart-hardware players** enter embodied AI
- Their **hardware supply chain & scale** become a major advantage
- Pre-hardware moats are **already eroding** — software & data decide



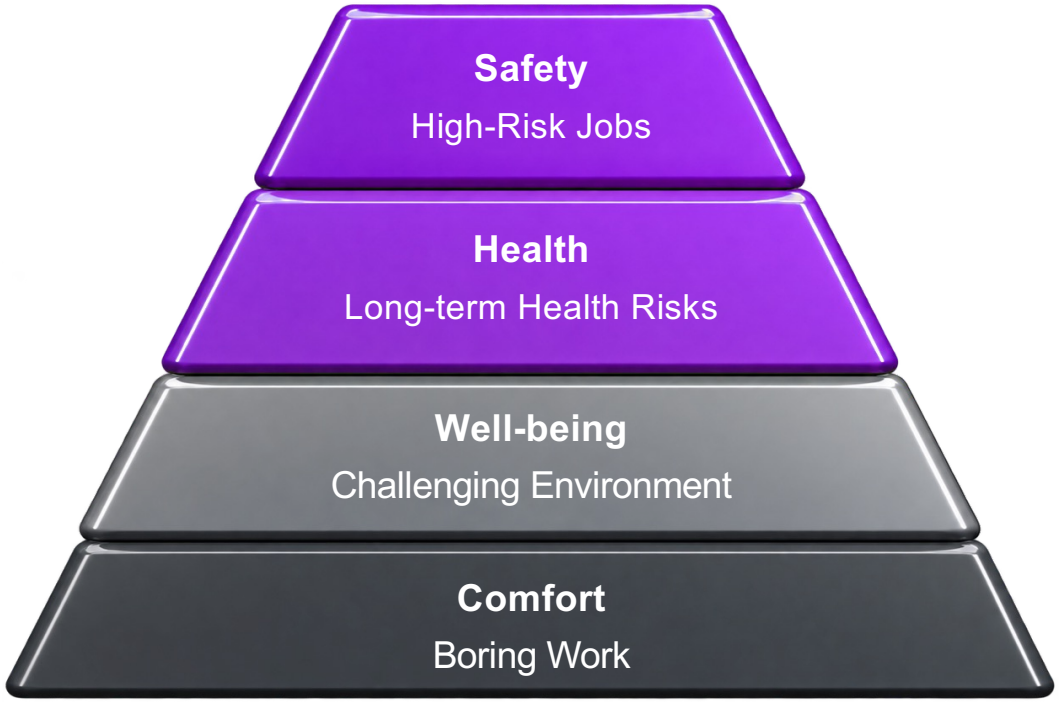




Embodied AI is Built for Better Living



Robots take on the work that is dull, dirty, difficult, and dangerous.



Market Entry: High labor-cost markets first, going global is imperative

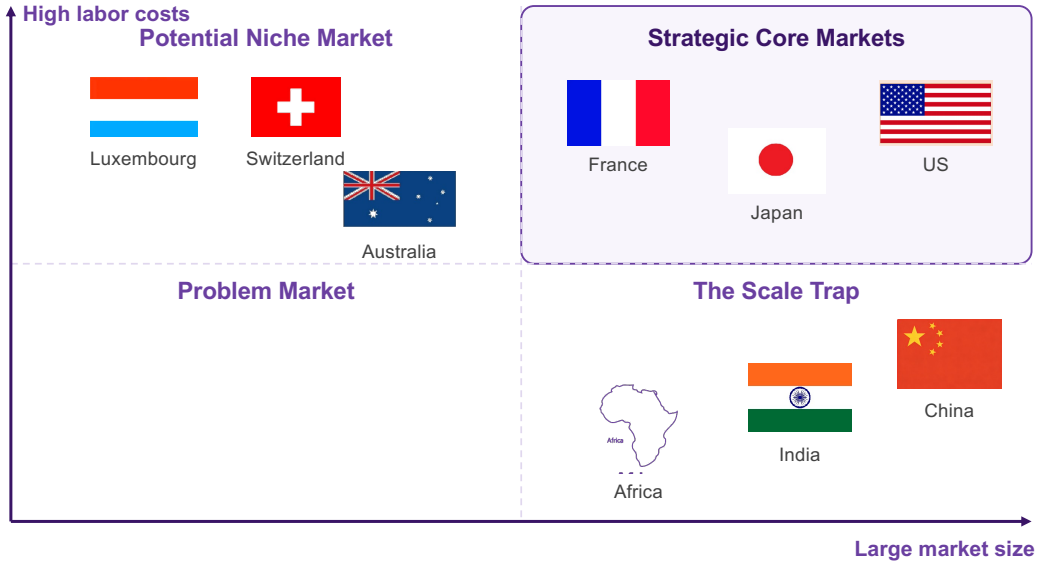
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Robot fee < labor cost

The first-principles logic of robot substitution: the monthly robot fee undercuts the monthly labor cost it replaces.

Global Market is huge

Besides market size, Going global will unlock the huge potential of margins for business.



For example — Japan, where robot is a necessity, not a choice

4M

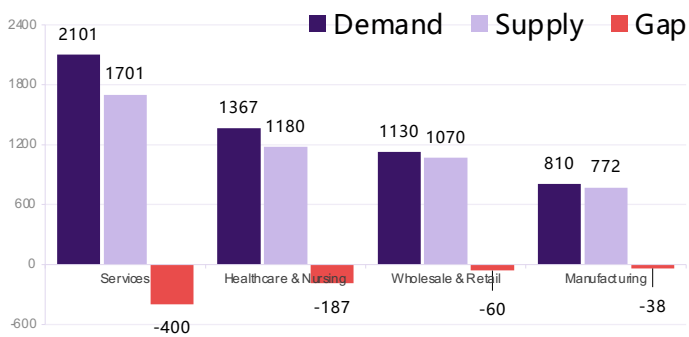
Service-sector labor gap — JICA: ~6.7M foreign workers needed by 2040.

~$22000/Y

Convenience store Employee salary ~1,100–1,400JPY/h and keep rising.

~$10B

Retail robotics market size — 55,000 stores, highly standardized, chain-operated and replicable.



Source: PERSOL Research Institute × Chuo University joint forecast

Embodied AI Algorithms is moving to WAM

Each wave of intelligence removed one bottleneck — **and exposed the next**



Cumulative, not replacement: each stage absorbs the previous one, trades hand-engineering for data, and moves the frontier to the next bottleneck.

Latest Model -> Latent WAM

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Should a world model predict what the future looks like — or how its state changes?

WAM vs Latent WAM

PIXEL WAM

Keep the scene's visual details

Focuses on: color, texture, lighting, reflections, background detail



Pixel WAM predicts future frames



t+1 t+2 t+3

Directly visualizable | Needs to decode more visual detail



LATENT WAM

Keep stable visual structure

Focuses on: objects, parts, regions, spatial structure



less sensitive to photometric details



Emphasizes object & spatial structure

Latent WAM predicts future representations



t+1 t+2 t+3

More compact & efficient | No full-pixel generation

Pixel WAM predicts future frames; Latent WAM predicts future representations

Pixel space emphasises appearance detail; DINO space emphasises stable objects & spatial structure.

How：Post-Training Is Where Embodied AI Actually Lands

Pre-training gives general capability. Post-training on real-robot data turns it into something that works in the scene — and only with the body does the loop close.



SCENE DATA

Real-Robot Data Collection

Multi-modal episodes from the real scene: states, actions, edge cases and failures.



POST-TRAINING

RL on a Pre-Trained Base

Reward models plus real-robot RL fine-tune the base policy, sim-to-real in the loop.



MODEL

Models That Can Act

Recovery behaviors, safety limits, long-horizon stability at task level.



BODY + SCENE

Embodiment Executes

Models run on the real body: task delivered, KPI measured, exceptions logged.

DEPLOYMENT REFEEDS THE MODEL · THE FLYWHEEL RESTARTS



General ≠ Reliable

A foundation model knows the world in general. Post-training makes it dependable in one scene, one task, one tolerance.

→ **Post-training bakes the scene into the model.**



Real Data Is the Scarce Asset

Episodes from the real scene capture lighting, clutter and failure modes that simulation never shows.

→ **Whoever owns the data owns the deployment.**



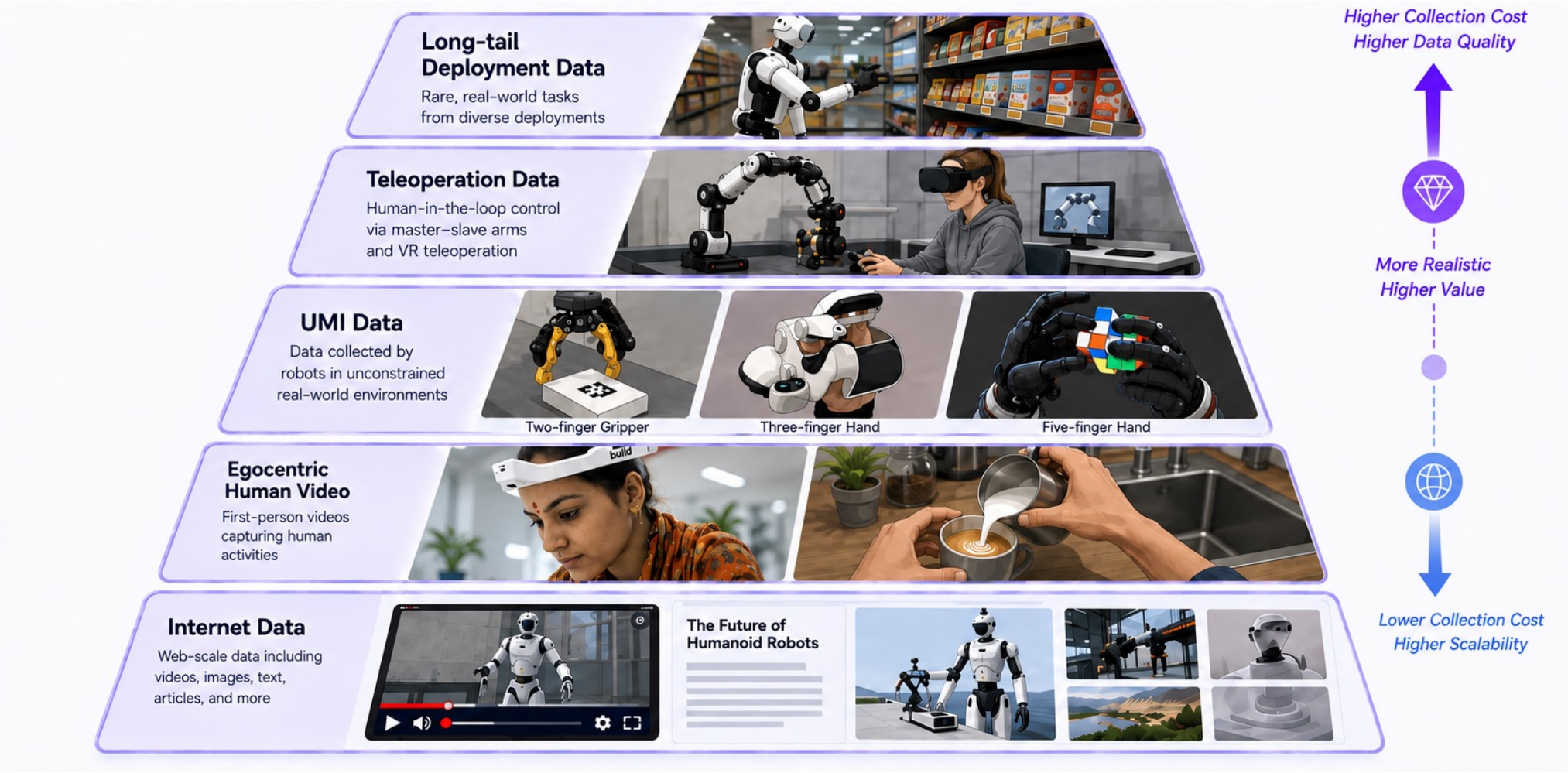
Body + Models = Closed Loop

Only when the trained Models runs on the real body is the task delivered and the value measurable.

→ **The loop closes only on the real body.**

Pre-train to start. Post-train to ship.

Data is still the bottleneck of Embodied AI



Who we are : Striding AI

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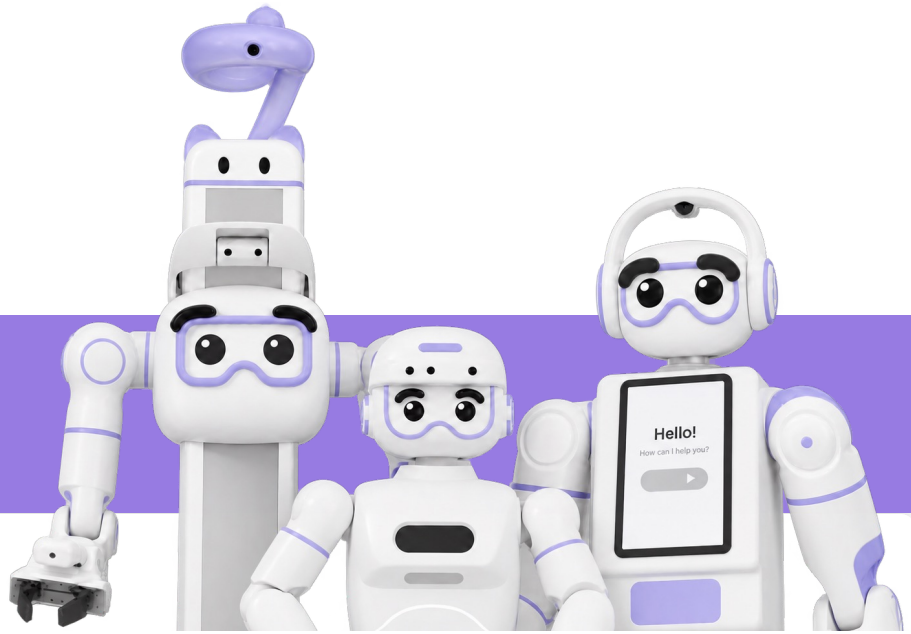
Brain + Scenarios + Full Stack + Global:

World-class Trustworthy Robot Service Provider

~150
Team Size

80%
R&D Staff Ratio

4 Locations
Singapore, Tokyo,
Beijing, Shanghai,



Top-Tier Algorithms

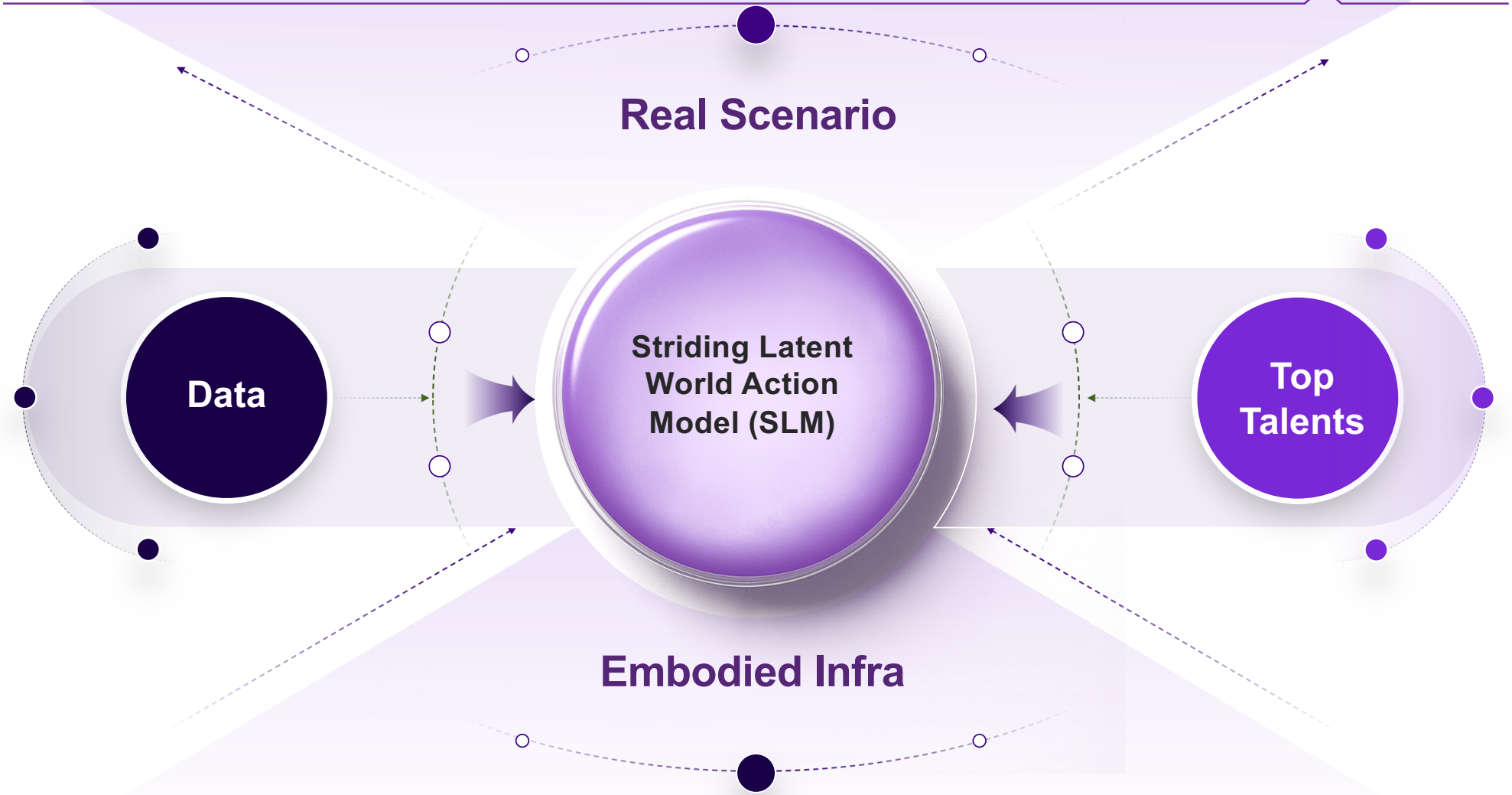
Strongest Scenarios

Full-Stack R&D

Born Global

Sustained Embodied AI model competitiveness through data, Infra, and the scientist team

Striding.AI



SLM 0.5: Smaller, Faster, Stronger

Released SLM 0.5, beating π0.5, GR00T N1.6 and LingBot-VA in both simulation and real-world tests.

SMALLER

2.3B

Efficient latent prediction keeps the model compact — deployable on the robot.

FASTER

184 ms

Single-pass inference, a 24× speedup over pixel-level WAM.

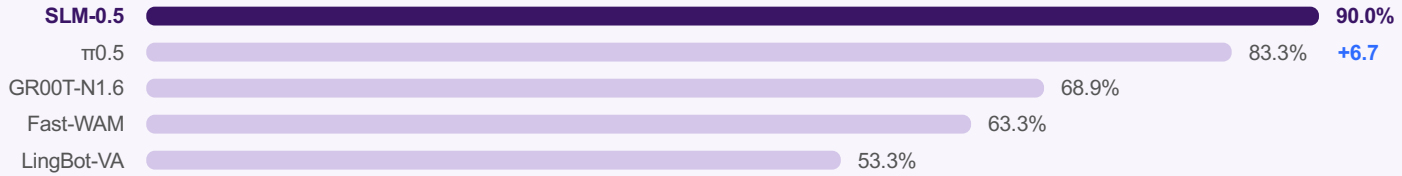
STRONGER

98.6%

LIBERO 98.6 · RoboTwin 91.2 · real-world 90.0.

BENCHMARK · AVG SUCCESS RATE ON REAL ROBOTS

2.3B · 187 ms vs LingBot-VA 5.9B · 4,482 ms



SLM FAMILY

SLM-0.5 · 2.3B (LaWAM) → SLM-0.7 · 5B → SLM-1.0 · 10B

Hour-scale learning: 80% success on new tasks · human-in-the-loop RL → 95%+ · 1M hours total, heterogeneous data unified in latent space

Smaller to deploy. Faster to run. Stronger on every benchmark.

Based on RLinf: The Best Embodied Post-Training Framework

Three layers — a training framework, a real-robot RL platform and the algorithms on top — turn post-training into a repeatable production pipeline.

LAYER 01 · FRAMEWORK

High-performance RL post-training infra

Parallel rollout, train-infer-env orchestration, pipeline optimization, elastic scaling, multi-backend support.

2.3×
peak training throughput gain

LAYER 02 · REAL-ROBOT RL

RLinf-USER, a real-robot RL scaling platform

Runs RL on physical fleets: multi-robot scheduling, heterogeneous hardware, long-horizon episodes.

5.7×
VLA training

1.2×
data generation

3×
cross-episode

LAYER 03 · ALGORITHMS

STEAM, real-robot post-training enhancement

Reward design and optimization that lifts real-world success, not just simulation scores.

+59.0%
max real-worl gain

33.3→92.3%
Representative task

GLOBAL TRACTION

5,400+
GitHub stars
700+ forks · most influential globally

First
NVIDIA Isaac-featured
training engine

Top 10
EAI-100 Breakthroughs
Annual award

6 days
continuous robot-factory
runs at 100% task success

RLinf is Wildly ADOPTED BY

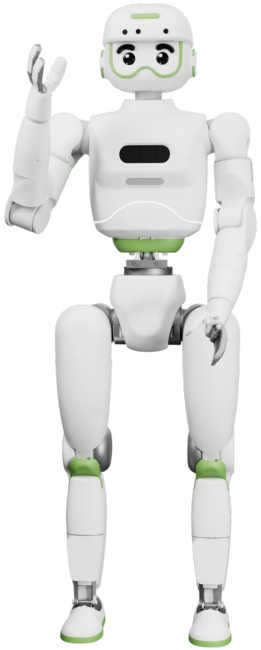
X SQUARE ROBOT 自变量机器人 · DEXMAL · AGIBOT · NVIDIA · 地瓜机器人 · PsiBot · AMD · 摩尔线程 MOORE THREADS

Proprietary Hardware： Humanoid Robot × Carrier Robot

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HUMANOID

Humanoid Robot



1.4 m
Height · ≈40 kg weight

26 DOF
Highly dynamic whole body

2 m/s
Travel speed · all-terrain

- All-Terrain Capability
- Multimodal Interaction
- Compact Size
- Open & Easy-to-Use

JETSON ORIN NX
157 TOPS AI computing module

MULTIMODAL
20+ languages · open API

ENDURANCE
Runtime ≈3 h · fast swap

CARRIER

Carrier Robot



21 DOF
7-DoF per arm · 3 kg payload

≥1750 mm
Effective loading height

≤600 mm
Narrow-passage capability

- Safety
- Selectable Actuator
- Highly Integrated
- Wide Reach Range

AGX THOR T5000
2070 TFLOPS AI compute (FP4)

360° VISION
Zero blind spots · human-safe

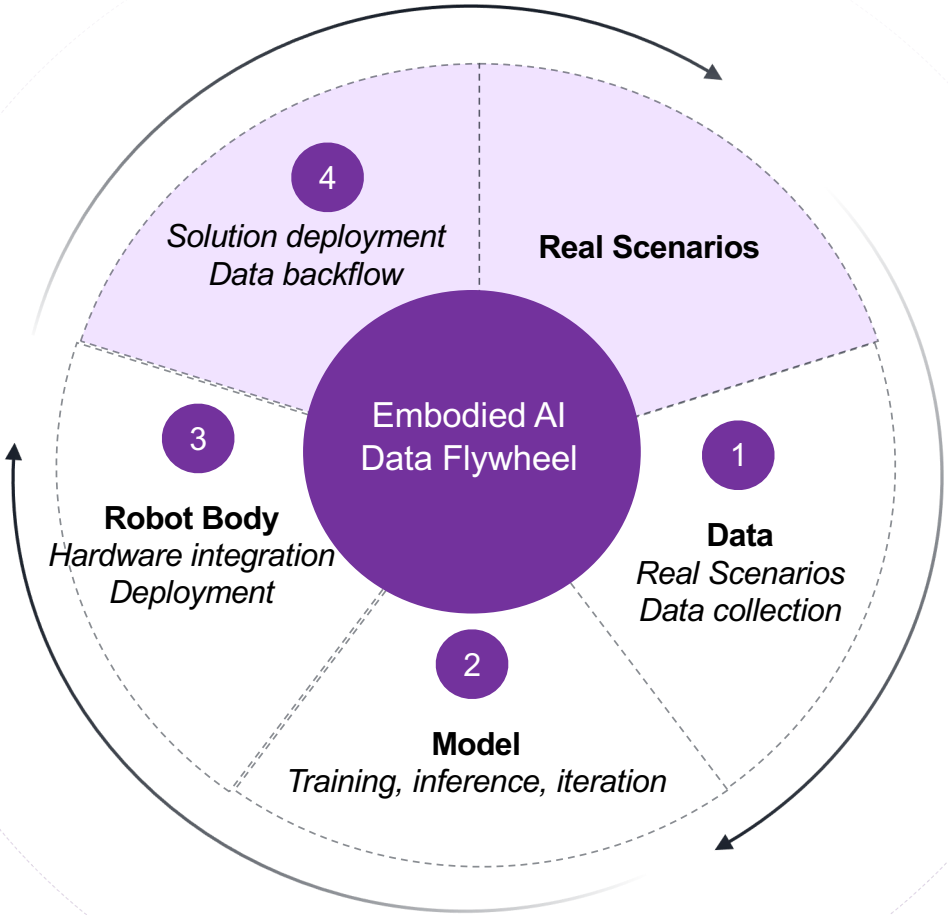
ENDURANCE
Battery ≈6 h · charge ≤2 h

Data flywheel in scenarios drives continuous algorithm evolution

Retail

Manufacturing

Medical



Services

Modules

Industrial

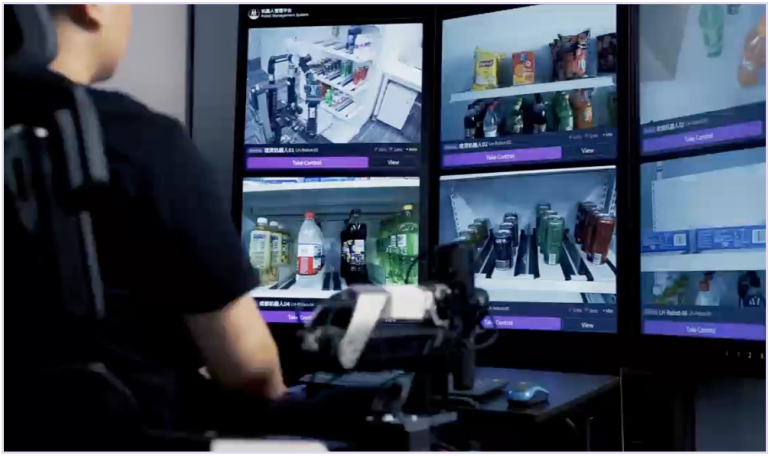
First deployment: Automated Shelf Replenishment Solution

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From backroom receiving and transport, to shelf detection and restocking — hardware · software · operations · upgrades.



- Multiple robots, one platform — receiving, transport & restocking in one fleet



- Remote takeover the moment a robot needs help

FLEET COMMAND

Fleet Command Platform

- Teleoperation Intervention
- Task Orchestration
- Multi-Robot Scheduling
- Centralized Operations Dashboard

Autonomous Restocking

Robots pick, carry and place goods back to the shelf

Shelf Management

Detect misplaced items and keep every shelf tidy

Inventory Check

Vision scans every SKU; stock syncs to the cloud

Remote Takeover

One-click human intervention — safe and immediate

Striding.AI
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Thank You

