

Global World-Action Model?WAM? Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global World-Action Model?WAM? market size was valued at US\$ 309 million in 2025 and is forecast to a readjusted size of US\$ 4207 million by 2032 with a CAGR of 41.0% during review period.

A World-Action Model is a next-generation embodied foundation model for robots, autonomous vehicles, and other physical agents. Its core purpose is to understand the current state of a dynamic real-world environment, predict how that environment will evolve, and generate executable actions, thereby reducing the limitations of conventional robotics systems that depend on manually engineered rules, single-task datasets, and closed deployment settings. These models typically take video, images, language, robot states, tactile signals, force signals, and trajectory data as inputs, and use world foundation models, vision-language-action models, diffusion transformers, action tokens, latent-space prediction, and closed-loop post-training to unify physical causality, scene semantics, task instructions, and control policies within a single reasoning chain. Typical applications include humanoid household execution, industrial picking and handling, dexterous-hand manipulation, mobile service robotics, autonomous-driving simulation, policy evaluation, and synthetic data generation. Major customers include robot manufacturers, embodied intelligence platform providers, manufacturers, logistics companies, cloud computing vendors, and research institutions. Common delivery formats include open-source models, cloud APIs, enterprise licenses, private deployments, developer platforms, robot preinstallation, and post-training services. Its commercial value lies in improving generalization, reducing real-robot trial-and-error costs, shortening new-task deployment cycles, and enabling robots to evolve from scripted automation into continuously learning physical intelligence systems.

The industrial value of World-Action Models comes from a shift in the center of gravity of robot intelligence architectures. Traditional robotic systems typically rely on explicit rules, expert demonstrations, preset trajectories, and closed-environment debugging, which makes them prone to poor generalization when facing new objects, new tasks, and unstructured scenarios. World-Action Models place environment prediction and action generation within a unified framework, enabling robots to internally simulate future states before execution and convert those simulations into action policies. This change moves robots from passive response machines toward physical agents that can understand tasks, predict consequences, and correct themselves. As video generation models, vision-language-action models, multimodal perception, action tokens, and simulation platforms mature, model training no longer needs to depend entirely on costly real-robot trial and error. Instead, open videos, synthetic data, robot trajectories, and real deployment feedback can jointly form a data flywheel. This trend will continue to raise the share of software value in robotic systems and push embodied intelligence companies to compete on model generalization, action success rates, and scenario delivery capability rather than hardware specifications alone.

From the perspective of application deployment, the first areas where World-Action Models can create value are not fully open-ended general-purpose home robots, but production and service scenarios with clearer task boundaries, controllable failure costs, and accessible data loops. Industrial handling, warehouse picking, retail replenishment, education and research, robotics developer platforms, and autonomous-driving simulation all have measurable task metrics, making them suitable for continuous success-rate improvement through model post-training and closed-loop deployment. Home service is the most complex environment, but once stable capabilities emerge, its potential demand elasticity is extremely high, making it a long-term strategic direction. Compared with traditional automation, the advantage of World-Action Models lies in reducing the cost of new-task deployment through future-state prediction, expanding long-tail scenario coverage through synthetic data, and improving experience reuse across different robots through cross-embodiment representations. Future business models will include model licensing, cloud inference, private deployment, developer-platform subscriptions, robot preinstallation, and data services, while customers will increasingly purchase continuously evolving robotic intelligence systems rather than isolated algorithm functions.

In terms of competition, World-Action Models will likely form three groups of players: platform models, scenario models, and embodiment models. Platform model providers have advantages in general world modeling, computing ecosystems, and developer

tools, making them suitable suppliers of base models and post-training frameworks for robotics companies. Scenario model providers control real business data and task feedback, allowing them to build deliverable solutions in logistics, manufacturing, retail, household services, and medical assistance. Embodiment model providers control robot structures, sensors, actuators, and safety constraints, enabling them to translate model capabilities directly into stable actions. In the short term, the industry will continue to face insufficient data quality, complex long-tail real-world conditions, high low-latency inference costs, and inconsistent safety evaluation standards. These challenges will also accelerate the development of model compression, simulation-based evaluation, synthetic data, world-model post-training, and cross-embodiment control. Over the long term, World-Action Models are likely to become software infrastructure for physical AI, supporting the transition of robots from single-task automation to scalable deployment across multiple tasks, scenarios, and continuously learning systems.

This report is a detailed and comprehensive analysis for global World-Action Model?WAM? market. Both quantitative and qualitative analyses are presented by company, by region & country, by Model Architecture and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global World-Action Model?WAM? market size and forecasts, in consumption value (\$ Million), 2021-2032

Global World-Action Model?WAM? market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global World-Action Model?WAM? market size and forecasts, by Model Architecture and by Application, in consumption value (\$ Million), 2021-2032

Global World-Action Model?WAM? market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for World-Action Model?WAM?

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global World-Action Model?WAM? market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA Corporation, Alphabet Inc., Physical Intelligence, Inc., Figure AI, Inc., Skild AI, Inc., Sanctuary AI Inc., Toyota Motor Corporation, Preferred Networks, Inc., RLWRLD Inc., X Square Robot Technology (Shenzhen) Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

World-Action Model?WAM? market is split by Model Architecture and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Model Architecture and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Model Architecture

Cascaded World-Action Model

Joint World-Action Model

Implicit World-Action Model

Mixture-of-Experts World-Action Model

Asynchronous World-Action Model

End-to-End Vision-Language-Action-Enhanced World-Action Model

Market segment by Training Paradigm

- Video-Pretrained World-Action Model
- Robot-Trajectory Post-Trained World-Action Model
- Simulation Reinforcement Learning World-Action Model
- Synthetic-Data Curriculum-Trained World-Action Model
- Human-Video Co-Trained World-Action Model
- Online Closed-Loop Self-Evolving World-Action Model
- Other

Market segment by Deployment Location

- Cloud World-Action Model
- Edge World-Action Model
- On-Device World-Action Model
- Simulation-Environment World-Action Model
- Cloud-Edge-Device Collaborative World-Action Model
- Developer-Platform-Hosted World-Action Model

Market segment by Control Object

- Humanoid Robot World-Action Model
- Dual-Arm Robot World-Action Model
- Single-Arm Robot World-Action Model

Dexterous Hand World-Action Model

Mobile Manipulation Robot World-Action Model

Autonomous Vehicle World-Action Model

Other

Market segment by Application

Robot Policy Learning

Embodied Task Planning

Physical Interaction Simulation

Synthetic Data Generation

Closed-Loop Policy Evaluation

Dexterous Manipulation Control

Home Service Execution

Industrial Logistics Operations

Other

Market segment by players, this report covers

NVIDIA Corporation

Alphabet Inc.

Physical Intelligence, Inc.

Figure AI, Inc.

Skild AI, Inc.

Sanctuary AI Inc.

Toyota Motor Corporation

Preferred Networks, Inc.

RLWRLD Inc.

X Square Robot Technology (Shenzhen) Co., Ltd.

AGIBOT Innovation (Shanghai) Technology Co., Ltd.

Galbot Co., Ltd.

Tencent Technology (Shenzhen) Company Limited

Huawei Cloud Computing Technologies Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe World-Action Model?WAM? product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top players of World-Action Model?WAM?, with revenue, gross margin, and global market share of World-Action Model?WAM? from 2021 to 2026.

Chapter 3, the World-Action Model?WAM? competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Model Architecture and by Application, with consumption value and growth rate by Model Architecture, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and World-Action Model?WAM? market forecast, by regions, by Model Architecture and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of World-Action Model?WAM?.

Chapter 13, to describe World-Action Model?WAM? research findings and conclusion.

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