

Subnet 36 - Bitcast

To all Bitcast creators — here's everything you need to know about the upcoming Dynamic Zero release.

On **October 21st**, Autoppia will launch **Dynamic Zero**, the most significant upgrade so far for **Subnet 36** and the **Infinite Web Arena Platform (+ Real-Time Leaderboard for the subnet)**.

📖 **Read the full announcement:** [Dynamic Zero: The Overfitting Punisher](#)

Autoppia: Building Autonomous Companies

Autoppia builds the infrastructure for autonomous companies — digital organizations powered by AI Workers that can see, reason, and act just like humans do, but without supervision.

🎯 What Are Autonomous Companies?

Autonomous companies are organizations where **AI Workers perform tasks independently**, just like human employees —but without supervision. Instead of building workflows or automating processes, you deploy intelligent Workers that understand context, adapt to changes, and make decisions to achieve goals.

The shift:

- Traditional automation: "If X happens, do Y" (rigid workflows)
 - Autonomous companies: "Here's what needs to be done" (intelligent execution)
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🌐 Why the Web is the Natural Starting Point

The web is where most business operations happen today—SaaS platforms, CRM systems, email, project management, e-commerce, support tickets, and more.

To build truly autonomous companies, AI must master the web first. This means:

- Understanding any web interface (like humans do)
- Navigating complex multi-step workflows
- Adapting to UI changes and unexpected states
- Executing tasks across any platform without APIs

That's why Autoppia started with Web Agents—the foundation for autonomous operations.

🏗️ Our Three Core Products

1. 🎯 **Autoppia Studio** — Where humans orchestrate AI Workers

- Build, deploy, and orchestrate **any type of AI Worker** (Email Worker, CRM Worker, Web Agent Worker, etc.)
- Compose multiple Workers into autonomous teams
- The marketplace and operating system for autonomous companies

2. 🏗️ **IWA + Subnet 36** — Where AI learns to use the web

- **Infinite Web Arena (IWA):** Synthetic web benchmark that tests Web Agents in ever-changing environments

- **Subnet 36:** IWA integrated into Bittensor, where miners compete and get rewarded for building the best Web Agents
- Goal: Produce the **best Web Agent in the world**

3. ⚡ **Automata** — Where our best Web Agent performs real tasks on behalf of users

- Uses the **top-performing Web Agent from Subnet 36**
- Execute any task on any website in real-time
- Available via web interface and API

How Everything Connects

The complete flow from competition to autonomous operations:

Step 1: **Subnet 36 + IWA**

Where AI learns to master the web

Miners compete to build the best Web Agent. IWA's dynamic benchmark evaluates and ranks them continuously. The top performer emerges from decentralized competition.

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Step 2: ⚡ **Automata**

The best Web Agent becomes a usable service

The #1 miner from Subnet 36 is automatically deployed as the Automata Worker. Now accessible via UI and API, it performs real browser actions on any website.

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Step 3: **Autoppia Studio**

Where humans orchestrate AI Workers

Users deploy and compose multiple Workers into autonomous teams: Automata Worker + CRM Worker + Email Worker + Finance Worker = Complete autonomous company operations.

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Step 4: 💰 **Value Loop**

Revenue flows back to improve the network

Users pay for Worker usage → Revenue generates \$ALPHA buybacks → Funds reinvested into Subnet 36 emissions → Better incentives for miners → Improved Web Agents

 **The cycle repeats, continuously improving the ecosystem**

Bottom line: The best web intelligence from decentralized competition → packaged as a usable Worker → orchestrated alongside other Workers in your autonomous company → revenue reinvested to make it even better.

Dynamic Zero Launch — October 21st

Dynamic Zero includes four major upgrades:

1.  **Dynamic IWA (D1)** — Ever-changing web environments that increase task difficulty and website complexity to prevent overfitting
2.  **Winner Takes It All (WTA)** — The top miner takes all the rewards
3.  **Infinite Web Arena Platform** — New interactive hub with live leaderboard and open benchmark access
4.  **New Base Agent for Miners** — Browser-use template and improved documentation to enable Reinforcement Learning implementation

Together, these changes make the network **harder, fairer, and more competitive** than ever.

 **Preview the platform now:** dev-infinitewebarena.autoppia.com

The Current Problem: Simple Webs & Task Complexity

Currently, we have **13 demo websites** in IWA, and miners are providing **good solutions** — but the nature of the tasks and websites wasn't sufficiently complex.

The websites and use cases were relatively **simple and predictable**, which allowed agents to achieve high performance without needing deep reasoning or true adaptability.

Dynamic Zero fixes this by **increasing task difficulty and website complexity** — making web environments more realistic, unpredictable, and challenging.

The Solution: Dynamic IWA

Dynamic IWA is the new version of Infinite Web Arena we've been developing to address these limitations.

Dynamic IWA generates **constantly changing web environments and tasks**, creating more realistic and unpredictable challenges that require true reasoning and adaptability.

There will now be **four types of dynamic website versions**, each increasing in difficulty and variation:

Version	Type of Change	Description
D1	Layout & structure	Randomized HTML layouts, divs, buttons, containers
D2	D1 + New data generation	D1 + New data generated per each website in real time
D3	D2 + Text & label variations	D2 + Changes in HTML tags, aria-labels, IDs, and visible text
D4	Interactive pop-ups	Random modals and pop-ups appearing mid-task

Each version introduces new layouts, logic, and unpredictable UI states — creating **an infinite set of possible web tasks**.

Agents can no longer memorize; they must **understand and adapt**, just like humans.

New Reward Mechanism: Winner Takes It All (WTA)

We're also introducing a new **reward model** to make Subnet 36 more efficient and competitive.

Winner Takes It All (WTA)

- Only the **top-performing miner** per evaluation receives the full reward.
- This reduces redundant miner instances and **focuses competition** on building the best-performing agent.

Reward Formula Updates

- **Time factor removed:** Previously, time accounted for 15% of the score. Now it's fixed at 0.
- **Efficiency reward removed:** We no longer reward fewer actions.

The goal: We want agents to **reliably solve the task**, focusing purely on **completion + precision**, and avoiding issues like server latency or infrastructure variability that could unfairly penalize miners.

Infinite Web Arena Platform — The New real-time dashboard

Together with Dynamic Zero, we're releasing the **new Infinite Web Arena platform:**

👉 infinetwebarena.autoppia.com

It's no longer just a benchmark — it's now a **fully interactive hub** for the Subnet 36 ecosystem, with three main sections.

1. Live Leaderboard (Bittensor)

The heart of the new IWA platform.

For the first time, anyone can **see everything happening inside Subnet 36** in real time:

-  Live miner rankings and performance tracking
-  Agent and validator activity
-  Historical data and comparison with top miners and SOTA agents

The leaderboard makes the decentralized intelligence economy visible — live and transparent.

2. Webs & Use Cases Explorer (No Bittensor)

You can now explore **all deployed demo websites** and their **active use cases**.

- Understand what kinds of tasks miners are solving and how web environments evolve

Full transparency into the training and evaluation environment of Subnet 36.

3. Join the Arena — Open Benchmark Access (No Bittensor Required)

One of the most requested community features — and it's finally live.

Any developer or team can now test and benchmark their Web Agent directly on IWA, without needing to connect to Bittensor or become a miner:

- Choose from available **websites and use cases**
- Upload or link your **agent endpoint**
- Instantly benchmark your agent's performance on synthetic web tasks
- Get detailed evaluation metrics and compare against top performers

Perfect for developers and teams who want to:

- Evaluate their Web Agent's capabilities before joining Subnet 36 as miners
- Benchmark against the current state-of-the-art without any blockchain setup
- Iterate and improve their agents using real IWA tasks
- Understand what it takes to compete at the top level

No Bittensor registration required. No mining setup needed. Just bring your agent and start testing.

What's Next: The Road to Open Competition

Dynamic Zero is only the beginning. The next phase will transform Subnet 36 into a fully open, competitive ecosystem:

Upcoming upgrades:

- **More complex tasks** — Composite multi-step challenges requiring advanced reasoning
- **Top-K rewards** — Multiple top performers receive on-chain rewards (not just #1)
- **Open-source model** — Following Ridges Subnet's approach: all miners publish code, compete transparently, with anti-gaming mechanisms to prevent cloning and UID farming

Development is in progress. Reference: [autoppia/autoppia_web_agents_subnet – opensource branch](#)

Dynamic Zero = Harder websites + Smarter agents + Fairer rewards.
The next step toward building the best Web Agent ecosystem in the world.

Understanding Better the Autoppia Ecosystem

1) Autoppia Studio — Where humans orchestrate AI Workers

What it is:

The orchestration layer and marketplace where developers publish agent templates ("Workers") and organizations deploy and compose them into autonomous digital teams.

Three modules inside Autoppia Studio

Developers Studio

Build Worker templates (agent blueprints) using any agentic framework; define config in `worker.yml`; publish to the Marketplace.

Marketplace

Discover reusable Workers (e.g., Email Worker, CRM Worker, Web Agent Worker). Think "app store" for agent templates.

User Studio

Configure credentials and integrations (LLMs, email, databases, APIs), deploy Workers, and compose multiple Workers into Teams.

Real Use Case: Marketing Agency - Automated Lead Qualification

THE PROBLEM: Manual Lead Processing Hell

A marketing agency receives **50+ inquiry emails daily** from potential clients.

The painful manual process:

1. **Read the email** - Check if it's a real lead or spam
2. **Google the company** - Find their website and basic info

3. **Visit their website** - Understand what they do, what tech they use
4. **Check LinkedIn** - See company size, location, industry
5. **Copy everything to CRM** - Manually enter all the data into Salesforce/HubSpot
6. **Write personalized response** - Craft an email based on what you learned



Time per lead: 10-15 minutes



Total daily time: 8-12 hours of repetitive work



Result: Exhausted team, slow response times, missed opportunities

🌟 THE SOLUTION: Autoppia AI Workers

The automated flow runs 24/7:

1. 📧 Email Worker

- Detects new email with "quote" or "inquiry" in subject
- Triggers the automated workflow

2. 🤖 Web Agent Worker

- Opens a real browser and visits the lead's website
- Analyzes and discovers:
 - "It's an e-commerce store selling clothing"
 - "Using Shopify platform"
 - "Has an active blog"
- Then navigates to their LinkedIn profile
- Gathers company intel:
 - "15 employees"
 - "Located in Madrid, Spain"

3. 📊 CRM Worker

- Is a Web Agent fine-tuned for specific CRM platforms
- Creates enriched contact in HubSpot
- Includes all gathered intelligence: business type, tech stack, company size, location

4. 📧 Email Worker

- Sends personalized response based on all collected data:

"Hi Juan, I see you run a Shopify store with a 15-person team in Madrid. We specialize in SEO for e-commerce and can help drive more organic traffic to your store..."



Time per lead: 2 minutes, **completely automated**



Total daily time: 0 hours of human work



Result: Instant responses, happy leads, team focused on strategy

Who it's for

Developers: ship agent templates to the Marketplace and monetize usage.

Users: automate personal workflows by deploying and composing Workers that perform tasks on their behalf.

Organizations: build autonomous operations by composing Workers into Teams—no brittle flowcharts.

Autoppia Studio is the operating system for autonomy—bridging single agents and fully autonomous organizations.

2) IWA + Subnet 36 — The Web Agent Training Ground

What it is:

The world's most advanced benchmark for Web Agents, combined with a decentralized incentive layer that rewards the best performers.

Two components working together:

Infinite Web Arena (IWA) — The Ultimate Web Benchmark

- A synthetic web benchmark that **continuously generates ever-changing websites and tasks**
- Modifies DOM structures, element IDs, text content, and logic on every evaluation
- Forces agents to **truly understand and reason** about the web—not just memorize patterns
- Open to anyone who wants to test their Web Agent

Subnet 36 — The Decentralized Competition

- IWA integrated into **Bittensor**, the decentralized AI network
- Miners compete by submitting their best Web Agents
- Agents are evaluated continuously through IWA's dynamic tasks
- Top performers receive **on-chain rewards in TAO**
- Creates transparent, sustainable incentives for continuous improvement

How it works & Why it produces the best Web Agents

The Process:

1. Miners build Web Agents using any framework or approach
2. IWA generates synthetic websites with unpredictable variations (new layouts, popups, dynamic content)
3. Agents are tested on complex tasks that require real reasoning and adaptability
4. Performance is ranked transparently on-chain
5. Top miners earn TAO rewards based on their agent's capabilities

3) Automata — Where our best Web Agent performs real tasks

What it is:

A service layer (UI + API) that deploys the top-performing Web Agent from Subnet 36 to execute real web tasks in live browsers. Anyone can instruct it to perform complex multi-step actions across any website—like updating LinkedIn profiles, scheduling HubSpot campaigns, or processing Zendesk refund requests—with full transparency through progress screenshots.

Tokenomics and Market

Market Context & Opportunity

The best Web Agents today come from **OpenAI (Operator)**, **Anthropic (Computer Use API)**, and **Browser-use**, which recently raised \$17M to expand its open-source browser automation project.

We're competing at the vanguard of technology. While OpenAI and Anthropic focus broadly on reasoning and chat, **Autoppia specializes in full Web Operation** — AI agents that can perform real actions across SaaS, ERP, CRM, and other business platforms.

Our goal is to **redefine automation itself** — moving beyond tools like Zapier or low-code blocks, toward a future where work is executed directly by AI Workers acting in the browser.

🌟 **No more workflows — just instructions.**

🤖 **The future is Agentic.**

How Big Is the Market?

Automation and productivity enhancement touch every business function — IT, operations, finance, HR, marketing, and beyond. The combined markets for **RPA, workflow automation, and integration platforms** already exceed **\$60B annually** and are projected to surpass **\$150–200B by 2030**.

But that's only the starting point. If agentic AI captures even a small share of the **\$2.6–\$4.4 trillion in annual productivity gains** estimated from Gen-AI, the total addressable market (TAM) for web operation and business automation could easily reach **hundreds of billions of dollars within the decade**.

💳 Autoppia Monetization & Payment System

Autoppia operates under a **subscription and credit-based model**, offering three main plans:

Plan	Description
Free Plan	Basic access to Studio tools and limited usage quotas
Pro Plan	Expanded deployment limits, premium templates, and enhanced management features
Ultra Plan	Enterprise-grade capacity, priority execution, and dedicated support

All payments and credits are managed through the **Autoppia Studio Payment Module**.

💎 **Users can add balance in TAO**, which is then converted into credits. These credits and active subscriptions can be used seamlessly across the entire Autoppia ecosystem.

Where Credits Can Be Used

1. 🎯 Autoppia Studio Workers

- Users can deploy AI Workers from templates and pay per call or per usage
- Payments flow to the developer who created the template, while Autoppia takes a small platform fee for orchestration and infrastructure

2. ⚡ Automata

- Accessible both via web interface and API, Automata lets users operate top-performing Web Agents
- Monetization follows a usage-based model, similar to OpenAI or Claude APIs, where users pay per interaction or execution time

3. 🧪 Evaluation Studio

- Users can evaluate, test, and benchmark AI Workers using network-powered evaluation tools
 - Evaluation consumes credits based on test complexity, compute usage, and validation depth
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How Does Value Accrue Back to the \$ALPHA Token?

All revenue generated by Automata will be recycled back into Subnet 36 through buybacks and reinvestment mechanisms.

 Ultimately, it's the miners of Subnet 36 who power the Web Agents that operate within Automata.

To continuously improve agent quality and performance, part of the ecosystem's revenue will be used to:

- Increase emissions
- Support miner incentives
- Close the economic loop between usage and contribution

Expanding the Loop to Autoppia Studio

We also plan to deploy a **new Incentivized Mechanism (IM)** targeting Autoppia Studio, designed to encourage the creation of Worker Templates by developers.

When this is live, the same reinforcement cycle will apply:

 Revenue from Worker Template usage and a percentage of platform fees will be directed back to the subnet through \$ALPHA buybacks and emission boosts.

This ensures that value flows back to the contributors and the subnet economy, **aligning incentives across users, developers, miners, and the platform.**

Official Links

Category	Link
 Website	autoppia.com
 Documentation	documentation.autoppia.com
 Infinite Web Arena	infinitemwebarena.autoppia.com
 Dynamic Zero	dynamiczero.autoppia.com
 Automata	automata.autoppia.com
 App (Studio)	app.autoppia.com
 GitHub - Subnet	autoppia/autoppia_web_agents_subnet
 GitHub - IWA	autoppia/autoppia_iwa
 X (Twitter)	x.com/AutoppiaAI
 Discord	Join Server
 Telegram	t.me/Autoppia