OpenGrant Mesh

MVP Profile 0.3 · Stage-1 Conformant

Browser-Native Multi-Agent Grant Hub

An Open Agentic Website that discovers global grants, audits jurisdiction & W-8BEN/KYC eligibility, computes milestone EV/hr budgets, and synthesizes rubric-aligned briefs—with zero server-side agent execution.

Tech (25%)
Pure ESM browser DAG + BYOK router

Design (25%)
Live DAG trace & 8/8 self-tester

Impact (25%)
Cross-border compliance clarity

Idea (25%)
Portable grant_mesh network

LIVE OPEN AGENTIC WEBSITE (GITHUB PAGES)
`https://alphonshhhomenicmtu.github.io/opengrant-mesh-agentic-web/`

AGENT MANIFEST (HTTP/2 200 · CORS *)
`.../opengrant-mesh-agentic-web/agent-manifest.json`

OPEN-SOURCE REPOSITORY (APACHE-2.0)
`https://github.com/alphonshhhomenicmtu/opengrant-mesh-agentic-web`

63S 1080P DEMO VIDEO (YOUTUBE)
`https://www.youtube.com/watch?v=IcZta5OiItA`

POTENTIAL IMPACT & QUALITY OF IDEA

Problem & Why the Open Agentic Web Matters

Global Builder Compliance

The Status Quo: Fragmented & Closed-Walled

- **Hidden Eligibility Traps:** Builders spend days building before discovering country exclusions (e.g., BR, RU, CA-QC), age-of-majority rules, or unsupported payout rails.
- **Opaque Rubric & Budget Math:** Judging criteria, milestone splits, and expected value per hour (EV/hr) are buried across PDFs and Devpost tabs.
- **Walled-Garden AI Wrappers:** Proprietary SaaS bots lock data behind API keys and server proxies, preventing personal agents from inspecting or composing grant workflows.

OpenGrant Mesh: Interoperable & Transparent

- **Machine-Readable First:** Exposes `agent-manifest.json` and `grant_mesh.network.json` over public CORS so any compliant agent can discover and run tools.
- **Deterministic Compliance Guardrails:** Verifies jurisdiction, W-8BEN / W-9 tax forms, and payout rails (Bank Wire, PayPal, Hyperwallet) before a single line of code is written.
- **Zero-Custody Visitor Privacy:** All reasoning runs in the visitor's browser tab; BYOK keys stay in memory and are never sent to the host or peer origins.

100%

Browser-native execution (`self_contained_runtime: true`) with zero server-side agent state.

4 Grants

Indexed programs ($5,000 to $25,000 pools) with live jurisdiction & EV/hr rubric modeling.

0 Keys

Required to test via Offline Deterministic Demo Mode—instant evaluation for judges and visitors.

STAGE-1 AUTOMATED CONFORMANCE GATE

Worldwide Agentic Web MVP Profile 0.3 Proof

8 / 8 Browser Checks PASS

1. `agent-manifest.json` declares `worldwide-agentic-web-mvp-0.3`	PASS
2. Manifest indexes `grant_mesh` with `front_man: grant_concierge`	PASS
3. `grant_mesh.network.json` (`neuro-san-network-json`) 6 agents	PASS
4. BYOK LLM Router (`demo, otari, openai, gemini, anthropic, ollama`)	PASS
5. `deployment.mode: "static"` & `self_contained_runtime: true`	PASS
6. `peer_policy` allowlist + `require_user_consent: true`	PASS
7. 4-agent DAG executes deterministically with zero API key	PASS
8. Live HTTP/2 200 & `Access-Control-Allow-Origin: *`	PASS

Discovery & Federation Artifacts

- **Dual Manifest Paths:** Root `./agent-manifest.json` + `./.well-known/agent-manifest.json` + HTML `<link rel="agent-manifest">`.
- **Portable Linking (`nsdeploy-link/v1`):** `links.json` exports `grant_mesh` and `grant_concierge` aliases for peer composition.
- **Site Actions Contract:** `site-actions.js` exposes 7 pure browser tools (`list_programs`, `check_eligibility`, `audit_milestone_budget`, `score_rubric`, `synthesize_proposal`, `shortlist_program`, `get_workspace_state`).

```
curl -sI .../agent-manifest.json | grep -i access-control
access-control-allow-origin: *
```

TECHNOLOGICAL IMPLEMENTATION

4-Agent Browser DAG & BYOK LLM Router Architecture

Zero Build Step · Vanilla ESM

1

Grant Discovery

`grant_discovery_agent`

Filters & ranks programs by cash pool, credits, tags, and deadlines via `list_programs`.

→

2

Eligibility Verifier

`eligibility_verifier_agent`

Audits country exclusions, age rules, W-8BEN/W-9 tax forms, and payout rails.

→

3

Budget Auditor

`milestone_budget_auditor`

Computes 25%×4 rubric scores, 3-phase milestone splits, and EV/hr.

→

4

Proposal Synthesizer

`proposal_synthesizer_agent`

Generates submission brief, readiness checklist, and updates shortlist state.

Multi-Provider Visitor BYOK LLM Router (`runtime.js`)

- **6 Supported Modes:** Offline Deterministic Demo, Mozilla Otari, OpenAI, Google Gemini, Anthropic Claude, and Local Ollama.
- **Graceful Fallback:** On HTTP error, rate limit, or network failure, automatically falls back to deterministic local synthesis without losing trace telemetry.

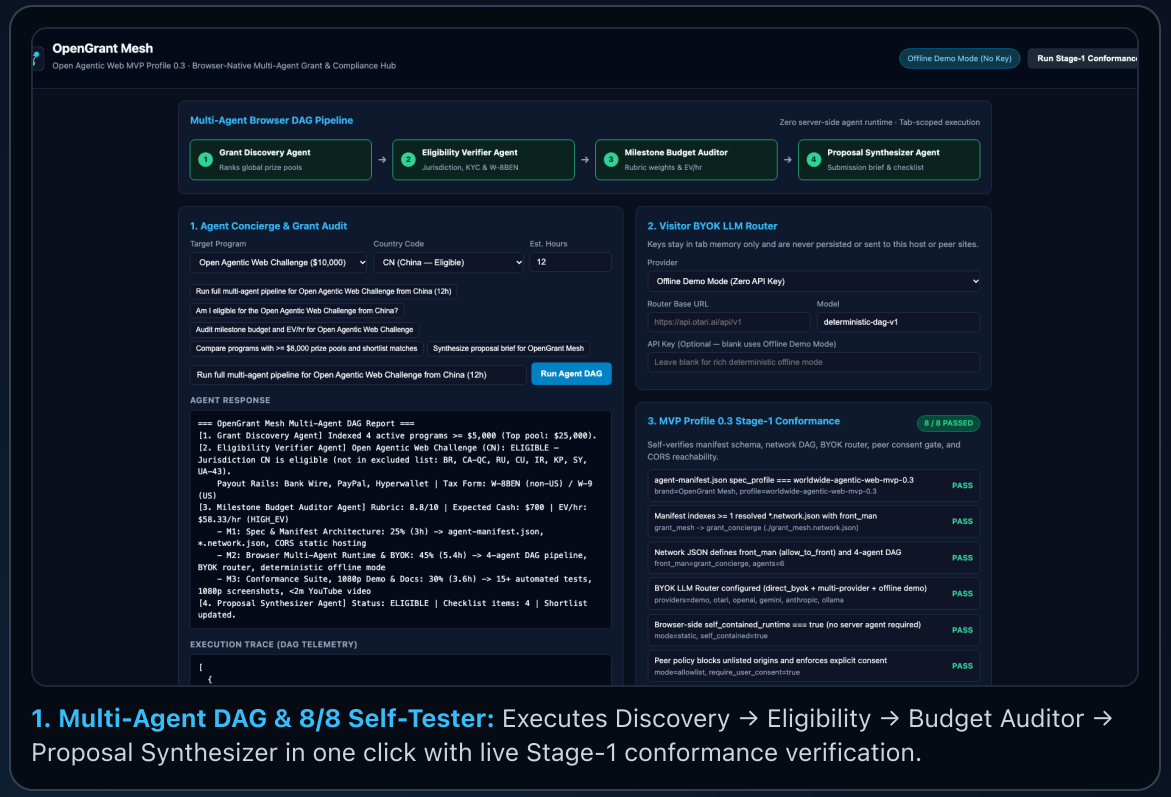
Peer Federation Boundary (`peer_federation_broker`)

- **Strict Allowlist:** Only origins in `allowed_peers` can be queried after explicit visitor consent (`approvePeer(origin)`).
- **Zero Key Leakage:** Visitor BYOK headers are strictly scoped to the chosen LLM endpoint and never forwarded to peer manifests.

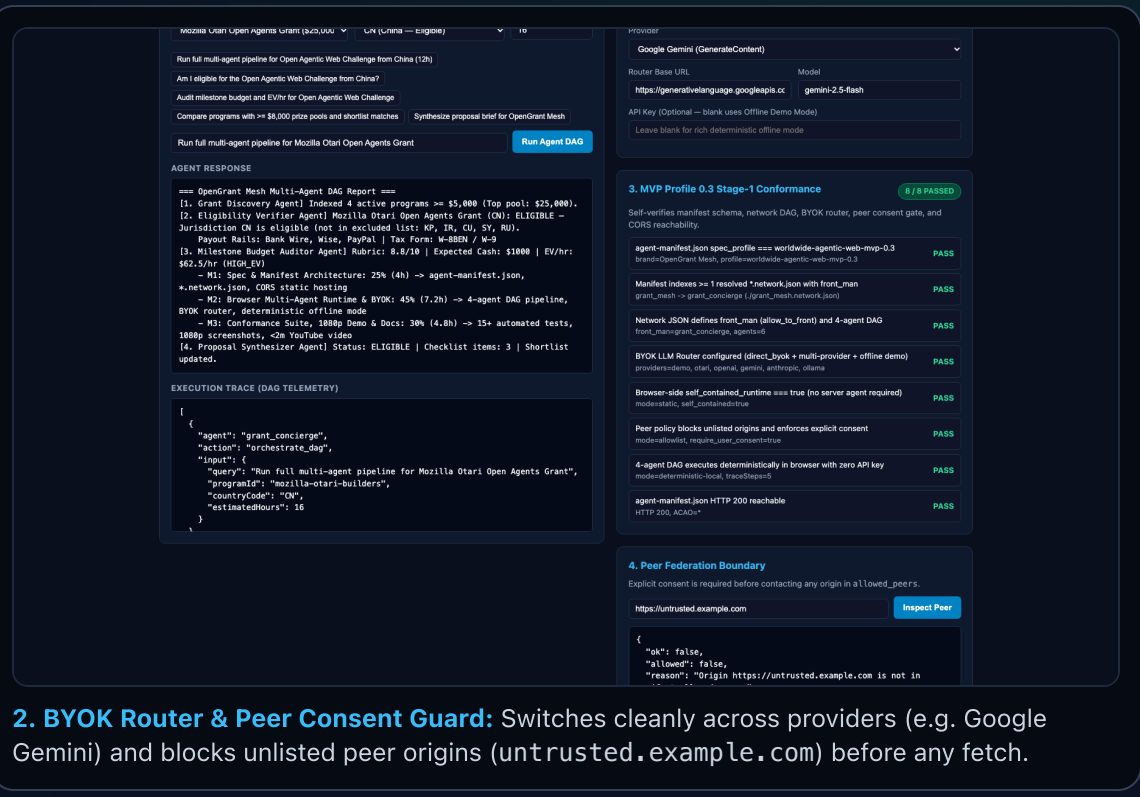
DESIGN & DEVELOPER EXPERIENCE

Live Interactive Console Walkthrough

Verified 1080p Captures



1. Multi-Agent DAG & 8/8 Self-Tester: Executes Discovery → Eligibility → Budget Auditor → Proposal Synthesizer in one click with live Stage-1 conformance verification.



2. BYOK Router & Peer Consent Guard: Switches cleanly across providers (e.g. Google Gemini) and blocks unlisted peer origins (`untrusted.example.com`) before any fetch.

ENGINEERING RIGOR & OPEN SOURCE

Verification Evidence & Apache-2.0 Roadmap

18 / 18 Tests PASS

18 / 18

Automated Unit & Spec Tests

`node --test tests/*.test.mjs`

Manifest, DAG, BYOK fallback, peer guard, zero CJK & zero secrets.

0 Errors

Headless Chrome Audit

0 console errors, 0 HTTP ≥ 400 responses on live GitHub Pages at 1920×1080.

63s

1080p/30fps YouTube Demo

Narrated walkthrough (`IcZta50iItA`) + public Google Drive mirror.

Post-Challenge Open-Source Roadmap (Apache-2.0)

Phase 1: Federated Grant Index

Enable peer-to-peer `nsdeploy-link/v1` discovery across community-hosted hackathon manifests.

Phase 2: Live Rubric Adapters

Add pluggable static adapters for Superteam, Gitcoin, and Mozilla Otari milestone schemas.

Phase 3: Signed Attestations

Export verifiable JSON conformance & eligibility receipts for team grant applications.