

QuantumGov Materials

QuantumGov Team

Virtual Utopia - Progress Tracker

Project Overview

Start Date: October 2025 **Current Phase:** Design & Research **Next Milestone:** Phase 1 Foundation Development **Last Updated:** October 6, 2025

Overall Progress

Project Phases Status

Phase	Status	Start Date	Target Completion	Actual Completion	Progress
Research & Design	[COMPLETED]	Oct 2025	Oct 2025	Oct 2025	100%
Phase 1: Foundation	[HOURGLASS]	Apr 2026	-	-	0%
Phase 2: Core Platform	[CHECKLIST]	Oct 2026	-	-	0%
Phase 3: Advanced Features	[CHECKLIST]	Apr 2027	-	-	0%

Phase	Status	Start Date	Target Completion	Actual Completion	Progress
Phase 4: Global Scale	[CHECKLIST]	2027 Planned	Oct 2027	-	0%

Current Sprint Status

Sprint: Research & Documentation Completion

Sprint Duration: Sep 30 - Oct 6, 2025 **Sprint Goal:** Complete theoretical framework and architectural documentation

Sprint Tasks

Task	Owner	Status	Progress	Notes
Microservices Team architecture design	Team	[COMPLETE] Complete	100%	Documented with diagrams
Tokenomics model specification	Team	[COMPLETE] Complete	100%	Web3 incentives defined
Data model relationships	Team	[COMPLETE] Complete	100%	Entity diagrams created
Technical implementation roadmap	Team	[COMPLETE] Complete	100%	4-phase deployment plan
Risk assessment documentation	Team	[COMPLETE] Complete	100%	Mitigation strategies defined

Key Performance Indicators (KPIs)

Development Metrics

Metric	Target	Current	Status	Trend
Code Coverage	>80%	N/A	[HOURGLASS]	-
Test Pass Rate	>95%	N/A	[HOURGLASS]	-
Build Success Rate	>98%	N/A	[HOURGLASS]	-
Security Vulnerabilities	0 Critical	N/A	[HOURGLASS]	-
API Response Time	<100ms	N/A	[HOURGLASS]	-

Platform Metrics (Future)

Metric	Phase 1 Target	Phase 2 Target	Phase 3 Target	Phase 4 Target	Current
Active Users	1K	10K	100K	1M+	0
Virtual Nations	5	50	500	1K+	0
Hosting Nodes	10	100	1K	10K+	0
API Calls/Month	1M	10M	100M	1B+	0
Transactions	\$100K	\$100K	\$1M	\$10M+	\$0
Volume					

Resource Allocation

Team Composition (Planned)

Role	Phase 1	Phase 2	Phase 3	Phase 4	Status
Backend Developers	2	3	4	5	[CANCELLED] Need to hire
Frontend Developers	1	2	3	4	[CANCELLED] Need to hire
DevOps Engineers	1	2	2	3	[CANCELLED] Need to hire
AI/ML Engineers	0	1	2	3	[CANCELLED] Need to hire
Security Specialists	1	1	2	2	[CANCELLED] Need to hire
UI/UX Designers	1	1	2	2	[CANCELLED] Need to hire
Technical Writers	1	1	1	2	[CANCELLED] Need to hire

Budget Allocation (Estimated)

Category	Phase 1	Phase 2	Phase 3	Phase 4	Total
Personnel	\$600K	\$900K	\$1.2M	\$1.5M	\$4.2M
Infrastructure	\$50K	\$100K	\$200K	\$500K	\$850K
Marketing	\$25K	\$75K	\$150K	\$300K	\$550K
Legal/Compliance	\$50K	\$50K	\$100K	\$100K	\$300K
R&D/Partnerships	\$75K	\$100K	\$150K	\$200K	\$525K
Total	\$800K	\$1.225M	\$1.8M	\$2.6M	\$6.425M

Risk Tracking

High-Risk Items

Risk	Probability	Impact	Mitigation Status	Owner	Due Date
Regulatory challenges with DAOs	Medium	High	[HOURGLASS] Research in progress	Legal Team	Dec 2025
Blockchain scalability limitations	Medium	Medium	[COMPLETE] Multi-chain strategy	Tech Lead	Nov 2025
Token volatility affecting rewards	High	Medium	[HOURGLASS] Stablecoin research	Economist	Jan 2026
Competitors established platforms	High	Medium	[WARNING] Needs attention	Strategy Team	Ongoing

Risk	Probability	Impact	Mitigation Status	Owner	Due Date
Quantum computing threat to crypto-raphy	How	High	[CHECKLIST] Monitoring	Security Team	2027

Medium-Risk Items

Risk	Probability	Impact	Mitigation Status	Owner	Due Date
Developer talent shortage	Medium	Medium	[HOURGLASS] Recruitment ongoing	HR Team	Nov 2025
P2P network reliability issues	Medium	Medium	[COMPLETE] Fallback protocols	Network Team	Phase 1
User adoption slower than expected	Medium	Medium	[CHECKLIST] Community strategy	Marketing Team	Phase 2

Quality Metrics

Code Quality

Metric	Target	Current	Trend	Last Updated
Lines of Code	N/A	0	N/A	Oct 2025
Cyclomatic Complexity	<10 avg	N/A	N/A	-

Metric	Target	Current	Trend	Last Updated
Technical Debt Ratio	<5%	N/A	N/A	-
Documentation Coverage	>80%	90%	[TRENDING_UP]	Oct 2025

Security Metrics

Metric	Target	Current	Status	Last Scan
Critical Vulnerabilities	0	N/A	[HOURGLASS]	-
High Vulnerabilities	0	N/A	[HOURGLASS]	-
Medium Vulnerabilities	<5	N/A	[HOURGLASS]	-
Penetration Test Score	>95%	N/A	[HOURGLASS]	-

Infrastructure Monitoring

System Health (Future)

Service	Status		Uptime	Response Time	Last Check
API Gateway	[HOURGLASS]	Not deployed	N/A	N/A	-
Identity Service	[HOURGLASS]	Not deployed	N/A	N/A	-
Governance Service	[HOURGLASS]	Not deployed	N/A	N/A	-
Economic Service	[HOURGLASS]	Not deployed	N/A	N/A	-
P2P Network	[HOURGLASS]	Not deployed	N/A	N/A	-
Blockchain Service	[HOURGLASS]	Not deployed	N/A	N/A	-

Resource Utilization (Future)

Resource	Current	Threshold	Status	Alert Level
CPU Usage	N/A	80%	[HOURGLASS]	Green
Memory Usage	N/A	85%	[HOURGLASS]	Green
Storage Usage	N/A	90%	[HOURGLASS]	Green
Network Bandwidth	N/A	80%	[HOURGLASS]	Green

Community & Ecosystem Metrics

Community Growth (Future)

Metric	Current	30-day Target	Growth Rate	Status
Discord Members	0	100	N/A	[HOURGLASS] Not launched
GitHub Stars	0	50	N/A	[HOURGLASS] Not public

Metric	Current	30-day Target	Growth Rate	Status
Twitter Followers	0	500	N/A	[HOURGLASS] Not launched
Blog Subscribers	0	200	N/A	[HOURGLASS] Not launched

Developer Ecosystem (Future)

Metric	Current	Target	Status	Trend
Plugin Developers	0	10	[HOURGLASS]	-
Third-party Apps	0	5	[HOURGLASS]	-
API Integrations	0	20	[HOURGLASS]	-
Community Contributions	0	50	[HOURGLASS]	-

Milestone Tracking

Completed Milestones [COMPLETE]

- ☒ **M0: Project Inception** (Aug 2025) - Research and theoretical framework development - Team formation and initial planning - Repository setup and documentation structure
- ☒ **M1: Architecture Design** (Sep 2025) - Microservices architecture specification - Database and data model design - P2P network topology planning - Security architecture framework
- ☒ **M2: Tokenomics & Implementation Plan** (Oct 2025) - Web3 tokenomics model design - Self-hosting incentive mechanisms - Technical implementation roadmap - Risk assessment and mitigation strategies

Upcoming Milestones [TARGET]

M3: Development Environment Setup (Nov 2025)

- Rust development workspace configuration
- CI/CD pipeline establishment
- Testing framework implementation
- Code quality tools integration
 - **Dependencies:** Team hiring, tooling decisions
 - **Risk Level:** Low
 - **Success Criteria:** - All developers can build and test locally - Automated builds passing - Code coverage >80%

M4: MVP Identity System (Dec 2025)

- DID-based identity management
- Basic authentication service

- Cryptographic key management
- Initial security audit
 - **Dependencies:** M3 completion
 - **Risk Level:** Medium
 - **Success Criteria:** - 1000 test users can create and manage identities - Security audit passes - Performance targets met

M5: P2P Network Foundation (Feb 2026)

- libp2p network implementation
- IPFS integration
- WebRTC browser support
- NAT traversal solutions
 - **Dependencies:** M3, M4 completion
 - **Risk Level:** High
 - **Success Criteria:** - 100 nodes can communicate reliably - Data synchronization working - Network resilience tested

M6: Basic Governance MVP (Apr 2026)

- Simple voting system
- Proposal creation and management
- Basic law management
- Court system foundation
 - **Dependencies:** M4, M5 completion
 - **Risk Level:** Medium
 - **Success Criteria:** - First virtual nation operational - 100 users participating in governance - Vote integrity verified

Action Items & Next Steps

Immediate Actions (Next 30 days)

1. **Team Recruitment** [SYMBOL] - Post job listings for core development roles - Conduct technical interviews - Finalize contractor agreements - **Owner:** HR Team - **Due:** Nov 1, 2025
2. **Funding Strategy** [SYMBOL] - Prepare pitch deck and demo materials - Reach out to VCs and grant programs - Explore strategic partnerships - **Owner:** Founding Team - **Due:** Nov 15, 2025
3. **Legal Framework** [WARNING] - Research DAO regulatory requirements - Consult with blockchain attorneys - Draft preliminary legal structure - **Owner:** Legal Team - **Due:** Dec 1, 2025

Medium-term Actions (Next 90 days)

1. **Development Environment Setup** - Establish coding standards and practices - Setup monitoring and alerting - Create security scanning pipeline
- **Due:** Jan 1, 2026
 2. **Community Building** - Launch official Discord server - Begin content marketing strategy - Engage with blockchain communities - **Due:** Jan 15, 2026
 3. **Partnership Development** - Identify potential blockchain partners - Explore academic collaborations - Connect with governance researchers -
Due: Feb 1, 2026
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Status Legend

- [COMPLETE] **Complete:** Task finished successfully
- [HOURGLASS] **In Progress:** Currently being worked on
- [CHECKLIST] **Planned:** Scheduled for future work
- [WARNING] **At Risk:** Needs attention or behind schedule
- [CANCELLED] **Blocked:** Cannot proceed due to dependencies
- [SYMBOL] **Critical:** High priority, urgent attention required

Update Schedule

- **Weekly:** Development team standup and sprint progress
- **Bi-weekly:** Stakeholder progress reports
- **Monthly:** Comprehensive tracker review and updates
- **Quarterly:** Strategic planning and goal adjustment

Contact & Escalation

- **Project Lead:** TBD
- **Technical Lead:** TBD - **Product Manager:** TBD
- **Escalation:** Founding Team

Last Updated: October 6, 2025