Centralized infrastructure reporting is broken

$130 Billion
American drivers pay $130B per year due to poor road conditions

21.5 %
of NYC civic reports actually get fixed

$2.59 Trillion
Infrastructure investment gap over the next 10 years

89%
of infrastructure problems in underserved communities are never addressed

33%
Of Americans trust the governments competency to take care of issues

Decentralized communities thrive

16.7x

Faster crisis reponse through mutual aid networks than FEMA to hurricane disasters

$30 Billion

Assets managed by DAOs through transparent democratic governance on-chain

10x

Lower foreclosure rates in Community Land Trusts vs conventional homeownership
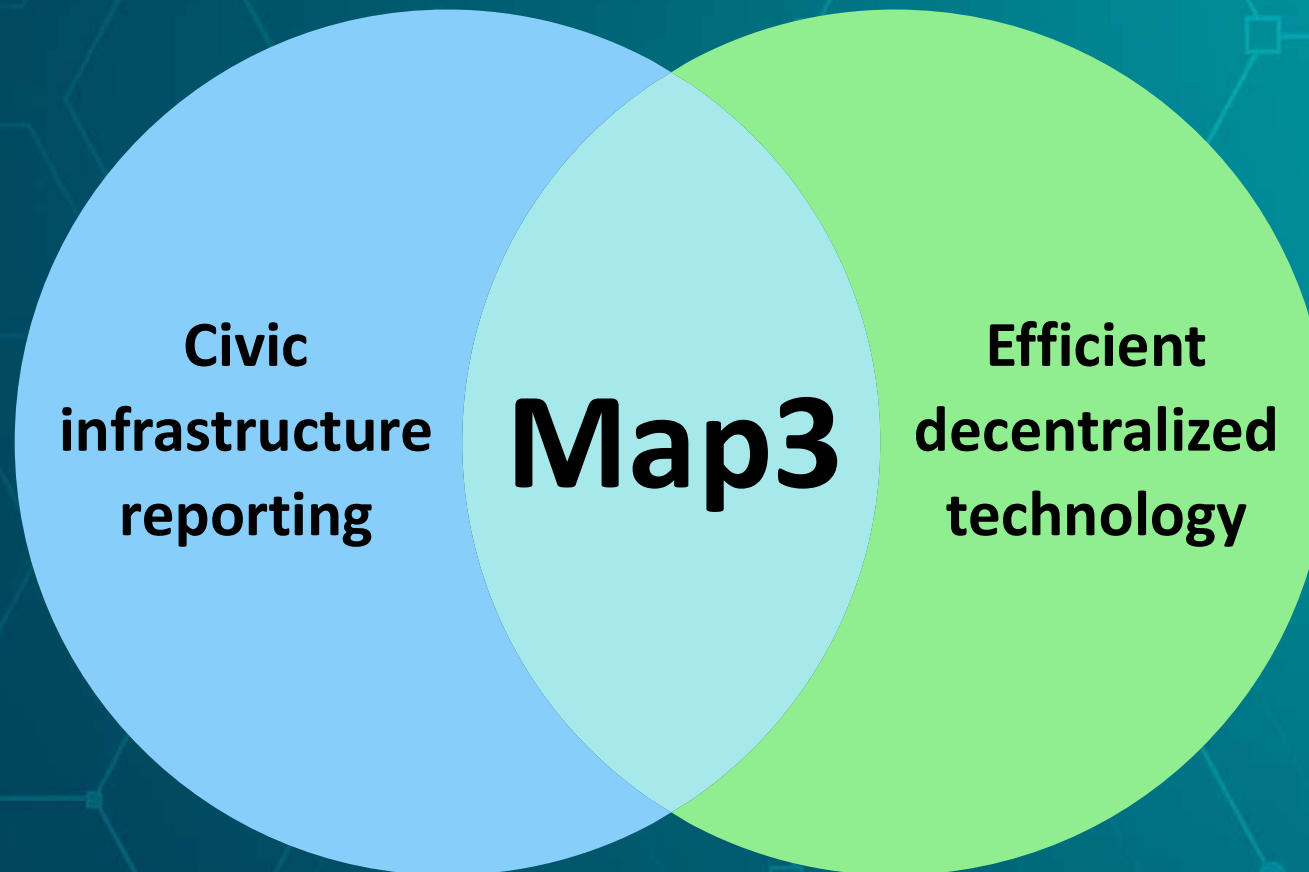
6:1

Pay ratio at Mondragon worker cooperative versus 344:1 in traditional corporations

93%

Of sessions of the pop-up village Esmeralda were organized by attendees

Merging

Civic infrastructure reporting

Map3
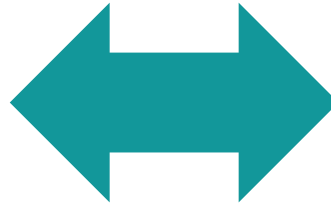
Efficient decentralized technology

Map3

The traditional civic systems and decentralized technology fusion for efficient network societies

Precision of Infrastructure Systems

- Location-based issue tracking
- Evidence documentation standards
- Standardized categorization systems
- Performance analytics and metrics
- Data-driven resource allocation

Power of Decentralized Communities

- Decentralized identity management
- Community verification systems
- Decentralized event management
- Democratic governance mechanisms
- Reputation-based trust networks
- Peer-to-peer coordination

Map3 – A foundational overview

Decentralizing civic infrastructure and social interactions

Identities
Facilitating Universal Profiles

- Portable identity across all communities without re-registration
- On-chain reputation unlocks governance rights everywhere
- Multi-factor authorization secures every vote
- Full data ownership—no platform can delete your history

Chats
hup.social realizes community feed

- Permanent on-chain conversations no platform can delete
- Multi-chain portability across all dApps
- Communities transport naturally between protocols
- Thoughtful discourse over engagement metrics

Governance
Enables decentralized decision making

- Transparent on-chain voting with permanent audit trails
- Democratic resource allocation based on verified needs
- Every decision immutably recorded and publicly auditable
- Power flows from consensus, not bureaucratic discretion

Map3 – A foundational overview

Decentralizing civic infrastructure and social interactions

Issues

GPS-Accurate Reporting with Photo Evidence

- Drop pins on OpenStreetMap for precise issue location
- Photo and video upload with automatic metadata preservation
- Community verification through proximity-based confirmation
- Transparent discussion threads without bureaucratic gatekeepers

Events

Collective Action Linked to Digital Decisions

- Create events at exact issue coordinates with RSVP systems
- Reputation-based access control (whitelist, token-gating, badge-gating)
- On-chain attendance verification through check-ins
- Closes the loop from problem to coordinated physical action

Proposals

Democratic Resource Allocation On-Chain

- Funding proposals linked directly to reported issues
- Transparent on-chain voting with permanent audit trails
- Post-MVP: Automatic treasury distribution via smart contracts
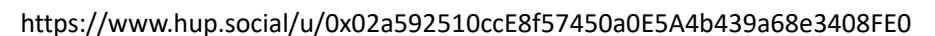- Resources flow to verified needs, not bureaucratic assumptions

EdgeOS integration

Decentralizing EdgeOS's identity management, event management, and communication method, while implementing transparent governance.

Map3 – An EdgeOS alignment

Identity Transformation

- Map3 replaces EdgeOS email portals with Universal Profiles.

- Residents authenticate through decentralized identity with multi-factor authorization for every vote.

- Civic participation lives on-chain permanently and when pop-up cities dissolve and reform, residents carry verifiable history without re-registering.

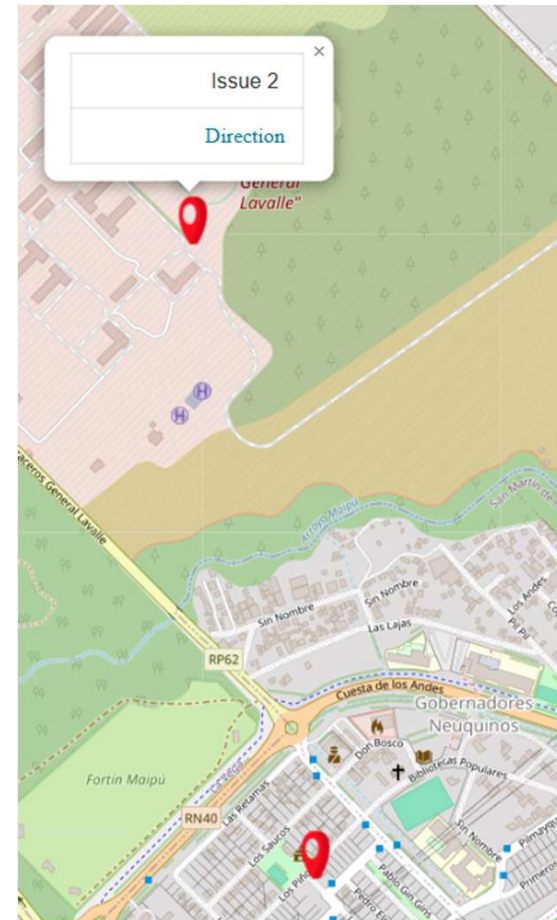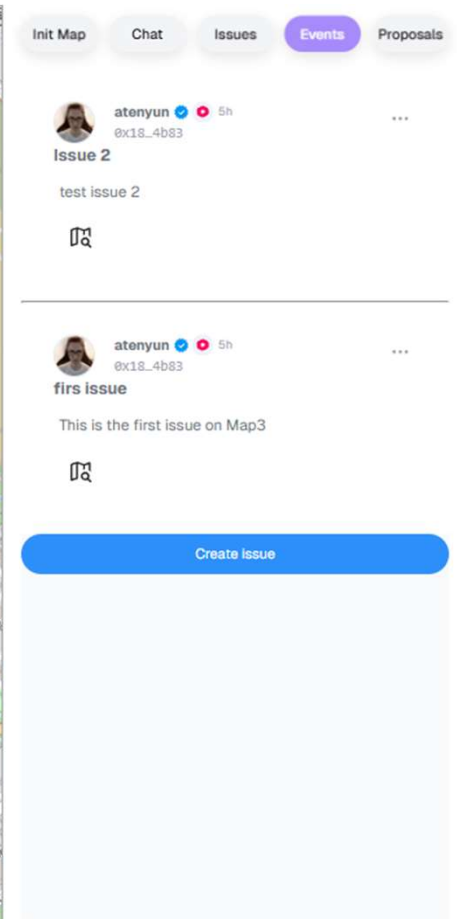https://www.hup.social/u/0x02a592510ccE8f57450a0E5A4b439a68e3408FE0

Map3 – An EdgeOS alignment

Location Coordination & Events

- Residents drop GPS-accurate pins on OpenStreetMap documenting infrastructure problems with photo evidence.

- Follow systems enables real-time notifications when issues emerge.

- On-chain events anchor to exact coordinates with reputation-based access control, creating permissionless coordination infrastructure.
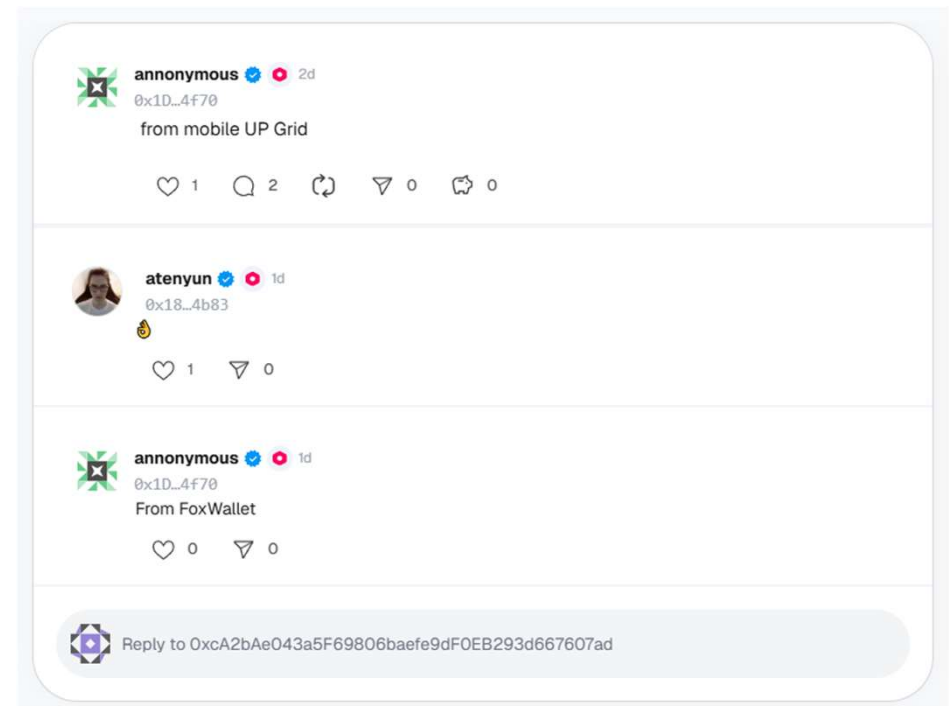
https://map3.aratta.dev/

Map3 – An EdgeOS alignment

Democratic Governance

- Any community member creates funding proposals that residents vote on-chain with permanently recorded results.

- Post-MVP treasury management enables automatic fund distribution via smart contracts.

- Pop-up cities democratically decide budget priorities based on transparent, auditable community needs rather than opaque administrative decisions..

https://www.hup.social/p/33

Thank You