Map3

An autonomous community management tool for network societies of all sizes

Inhaltsverzeichnis

1 Prolog

Civic Infrastructure Decay Drives Economic and Social Costs

Urban infrastructure condition directly impacts resident wellbeing, property values, and economic productivity. Metropolitan areas struggle to prioritize maintenance across thousands of assets, while remote communities face communication gaps between residents observing problems and agencies making decisions. Inefficient deployment leaves some areas neglected while others receive disproportionate attention.

Current civic reporting systems worsen this problem. Government agencies lack real-time visibility, citizens lack effective reporting channels, and resource allocation relies on incomplete data, widening gaps between well-served and underserved communities.

Map3 enables transparent, community-driven infrastructure management through decentralized coordination, where resources flow to actual needs based on verifiable citizen data rather than bureaucratic assumptions.

2 Civic problems

2.1 Low Resolution Rates Expose System Inefficiency

Traditional civic reporting systems demonstrate catastrophically low success rates. NYC's civic reporting system successfully resolves only 21.5% of citizen reports. The remaining 78.5% remain perpetually "ongoing" without resolution. Some reports close within five minutes with no investigation, suggesting systematic dismissal rather than actual problem-solving. Average response times stretch to 89 days for routine issues. This pattern repeats across cities nationwide, revealing that centralized reporting infrastructure fundamentally fails to convert citizen observations into actionable maintenance.

2.2 Infrastructure Costs Extract Economic Toll on Citizens

American drivers collectively pay $130 billion yearly in vehicle damage, extra fuel, and faster depreciation—ranging from $533 to over $2,600 per driver depending on location. Low-income communities bear the worst of these unexpected costs. Add in reduced property values and

congestion (43 hours lost annually per driver), and the picture gets bleaker. Essentially, costs shift from government maintenance budgets straight to citizens' pockets without fixing anything.

2.3 Investment Gaps Compound Into Crisis

The U.S. faces a $2.59 trillion infrastructure gap over the next decade. This deficit compounds over time: deferred maintenance costs rise about 7% annually, turning affordable preventive fixes into catastrophic rebuilds. Federal building backlogs doubled from $171 billion to $370 billion between 2017 and 2024. Transit backlogs jumped 38% in four years. The economic reality is stark: every year problems go unaddressed, they become exponentially more expensive to fix while new infrastructure continues aging faster than existing backlogs are cleared.

2.4 Systematic Underreporting Creates Invisible Crisis

An estimated 89% of infrastructure problems in underserved communities never get reported. Research shows civic reporting call rates correlate more with neighborhood race and income than with actual infrastructure needs. Higher reporting comes from gentrifying areas where white residents move in, not from areas with the worst problems. The digital divide deepens this gap: only 56.4% of bottom-quartile households have broadband versus 83.2% of top-quartile households. When cities rely on apps and web portals, lower digital access creates blind spots, directing resources to affluent neighborhoods rather than areas with the greatest deterioration.

2.5 Trust Collapse Prevents Civic Engagement

Only 33% of Americans trust government competency to handle civic issues, directly suppressing infrastructure reporting and participation. Studies show 45% of residents are "interested bystanders" who observe problems but don't report them, with lack of trust as the primary barrier. Most citizens who do report never receive feedback about the resulting action, creating a black box that confirms participation is futile. This creates a vicious cycle: low trust reduces reporting, incomplete data prevents effective allocation, continued deterioration further destroys trust, and civic engagement collapses.

3 Decentralized movements

3.1 Centralized Disaster Response Fails When Speed Matters

Federal disaster response demonstrates catastrophic delays in distributed crises. During the 2017 hurricane season, the Federal Emergency Management Agency (FEMA) provided approximately $100 million to Texas and Florida survivors within 9 days but only $6 million to Puerto Rico, a whopping 16.7 times slower.

Personnel deployment reached 31,000 to 40,000 for Harvey and Irma, but only 19,000 for Maria despite comparable damage. The mortality gap is stark: Harvey caused 103 deaths, Irma 92, while Maria killed 2,975, 29 to 32 times higher, partly from response failures. Distributed mutual aid networks fill such vacuums within hours rather than weeks through hyperlocal coordination.

3.2 Democratic Governance Scales Without Hierarchy

Decentralized governance has proven effective across the finance and science sectors. Decentralized Autonomous Organizations collectively manage over $30 billion in assets through transparent on-chain governance, though values fluctuate with network conditions. In science, decentralized networks coordinate research funding and peer review without traditional hierarchies. These aren't passive reserves but operational capital funding protocol development, research initiatives, and community projects through democratic processes. Governance effectiveness shows in measurable outcomes: 70%+ approval rates, automatic smart contract execution, and transparent records. Democratic coordination can operate at institutional scale without hierarchical management structures.

3.3 Community Ownership Delivers Superior Housing Stability

Community Land Trusts achieve foreclosure rates 10 times lower than conventional homeownership while maintaining permanent affordability. Champlain Housing Trust manages 2,200+ properties serving households earning 57% of area median income. The Dudley Street Neighborhood Initiative recorded only 4 total foreclosures since 1984, spanning the 2008 financial crisis that devastated conventional homeowners. The mechanics work through split equity: residents own buildings but lease land through 99-year renewable leases, with capped appreciation ensuring housing remains affordable for the next generation while still building wealth for current owners.

3.4 Worker Cooperatives Match Corporate Performance With Radical Equity

Mondragon Corporation employs 80,000+ workers across 110 cooperatives, ranking as Spain's fourth-largest company while maintaining a 6:1 pay ratio between highest and lowest earners—compared to 344:1 in typical U.S. corporations. Research shows Mondragon productivity equals or exceeds conventional firms in the same sectors. The cooperative has maintained over 60 years of operations without firing a single member-worker, instead relocating workers from struggling cooperatives to thriving ones. Democratic governance doesn't inhibit competitiveness but enables it through alignment: member participation creates an ownership mentality, generating productivity gains impossible under hierarchical structures.

3.5 Emergent Self-Organization

Decentralized coordination demonstrates superior emergent intelligence. At Esmeralda's 2024 popup village with 1,300 participants over 30 days, 93% of all 551 sessions were organized by attendees themselves rather than central planners—only 7% required organizing team intervention. This proves distributed intelligence can coordinate complex gatherings at scale without top-down control. The 167 unique session hosts created relevant programming through emergent needs rather than predetermined agendas. This pattern repeats across decentralized systems: participant-led coordination produces better outcomes than hierarchical planning when given proper platforms.

4 The Solution: Geographic Coordination for Decentralized Communities

Decentralized coordination works across mutual aid, cooperatives, and DAOs, but these successes operate in isolation, preventing comprehensive civic infrastructure from emerging.

Infrastructure problems are inherently spatial. Every pothole or waste pile exists at specific coordinates. Traditional systems capture this but lose precision in bureaucratic processing. Decentralized communities coordinate well but lack the geographic layer connecting their efforts across boundaries.

The solution needs GPS-accurate reporting with photo evidence, cross-community identity, public discussion, on-chain voting, and event management linking physical action to digital

proof. When anchored to shared map coordinates, isolated solutions become integrated infrastructure.

The workflow becomes programmable: report problems at exact coordinates with evidence, discuss publicly, vote on-chain to allocate resources, organize collective action, verify outcomes on blockchain. Everything becomes naturally transparent and auditable through the map.

Map3 builds this on OpenStreetMap, combining civic precision with decentralized community power through identity management, transparent governance, and geographic coordination.

5 Map3 – Technical contents

5.1 Decentralized identity management – Universal Profile

Map3 needs to process and show civic data in a way that's both readable and trustworthy. We can't rely on cryptographic addresses like 0x742d35Cc6634C0532925a3b844Bc9e7595f0bEb when people need to recognize and trust each other for real-world coordination. That's why we adopted decentralized identity management through a smart contract-based account system called Universal Profile by LUKSO.

These smart contract accounts provide human-readable profiles with verifiable participation history. When someone reports infrastructure problems or votes on community priorities, others need to know this is a real person with trackable activity, not a bot or duplicate account. This is exactly what RealFi applications like Map3 require to connect on-chain actions and reputation with real-world civic outcomes.

Your civic activity travels across platforms without rebuilding your reputation from scratch. Report issues in your neighborhood and that verified history automatically works when you participate in regional governance or join other communities. No vendor lock-in where one platform owns your participation data.

You control what credentials you share, while social recovery through trusted contacts prevents permanent lockout from lost keys. This makes on-chain identity practical for everyone participating in civic coordination, not just crypto experts managing seed phrases.

Additionally, Universal Profiles allow to have on-chain followers, so that you can collab with your fellow peers across dApps.

The result is one identity that works across all civic functions: infrastructure reporting, democratic voting, and event coordination. This is the infrastructure layer RealFi needs.

5.2 Decentralized chat – hup

Map3 needs community coordination beyond reporting and voting. Real civic engagement requires ongoing conversations where people build relationships and coordinate collective action. Traditional social media fails here.

Centralized platforms optimize for engagement over thoughtful discourse, rewarding hot takes and outrage rather than careful analysis. These platforms even own your entire social graph,

which is why one ban loses years of posts, connections, and civic contributions, creating self-censoring effects on people.

That’s why Map3 integrates hup.social, where every post, like, comment, and repost lives on-chain through your Universal Profile. Your conversations belong to you permanently and work across any dApp reading the same standards. No platform can delete your civic participation history. Communities you build on hup.social transport naturally to Map3, enabling alliances across dApps to maximize your social impact.

The architecture reconnects value to substance. When posts live on-chain permanently, people write more thoughtfully, as the written word becomes valuable by having it linked to value directly. Hup.social is multi-chain, which is mandatory for Map3, because every human being should have the capabilities to help, regardless of their network.

hup additionally displays issues, events or proposals created on Map3, so that users can scroll the feed and stay productive through discussions regarding meaningful changes within their community.

5.3 Community verifications: Identifying issues

Map3 needs accurate, verifiable data about real-world infrastructure problems. Citizens directly report issues with GPS-tagged pins on OpenStreetMap, including photo and video evidence with metadata showing exact location and timestamp. GPS coordinates are accurate to 5-10 meters, proving you were actually there.

Community discussion threads coordinate responses without bureaucratic gatekeepers. Anyone can discuss solutions, share context, or coordinate action publicly.

Problems don't wait weeks for official inspection on Map3, as communities prioritize based on local needs rather than bureaucratic attention. This lets resources flow to verified needs documented by residents instead of distant administrator assumptions.

5.4 Decentralized Events: Verifiable Attendance & Token Gating

Map3 connects digital coordination with physical action through on-chain event creation tied to Universal Profiles.

Event access can be controlled through whitelists, token-gating, or future badge-gating based on on-chain reputation. This would enable events where only participants with verified civic

engagement history can attend, ensuring people earn access through demonstrated commitment to community action. Communities can set reputation thresholds, filtering out no-shows and ensuring events accomplish goals.

The workflow closes the loop: report issue, discuss, vote, organize event at exact coordinates, verify attendance on-chain. Every step connects through geography and identity, creating coordination that produces results.

5.5 Governance Proposals: Democratic Resource Allocation

Map3 enables transparent, verifiable decision-making about community priorities. Traditional systems take 89 days and fix only 21.5% of reports, partly because resource allocation happens behind closed doors. That's why we enable democratic voting directly on-chain.

Anyone can create funding proposals linked to reported issues. When your community identifies a problem needing resources, submit a governance proposal with clear deliverables. The connection between the map problem and the proposal stays transparent.

Voting happens on-chain, where every decision becomes permanently visible and auditable. No more wondering why one neighborhood gets attention while another gets ignored.

This changes power dynamics fundamentally: resources flow from democratic decisions backed by verifiable data. Treasury management for automatic fund allocation will follow post-MVP.

5.6 Hackathon Track: EdgeOS

5.6.1 Decentralizing EdgeOS's Centralized Infrastructure

5.6.1.1 Identity Management Transformation

EdgeOS currently relies on email-based identity management and centralized resident portals. Map3 transforms this by replacing email authentication with Universal Profiles, creating truly decentralized identity and resource management for network societies.

An E-mail-based authentication creates platform dependency, where losing portal access means losing your entire participation history, while compromised emails can lead in misaligned votes in crucial proposals. On Universal Profiles however, users can set up multi-factor authorizations so that before every vote on a proposal, a notification must be accepted on ones own mobile device, while enabling the user a full ownership of his data. Civic participation, governance votes, and community contributions live on-chain permanently and remain accessible across any interface reading Universal Profile standards. When popup cities dissolve and reform, residents carry verifiable participation history seamlessly without re-registering.

5.6.1.2 Event Management Decentralization

EdgeOS handles events through centralized portals requiring platform accounts. Map3's on-chain event creation with RSVP systems means event data belongs to communities, not platform operators. Events anchor to GPS coordinates on OpenStreetMap, enabling precise coordination for pop-up villages where physical space organization is critical.

5.6.1.3 Payment Infrastructure Extension:

Map3 enables the use of transparent treasury management with democratic governance to EdgeOS payment rails. Communities can create funding proposals that residents vote on democratically, with all decisions recorded on-chain. Post-MVP, these decisions could trigger automated payments towards service providers to fix issues via smart contracts across networks, enabling pop-up cities to collectively manage funds without trusted intermediaries.

5.6.1.4 Resident Portal Transformation

EdgeOS portals rely on email-based accounts that fragment participation and create vulnerabilities. Compromised emails can undermine democratic legitimacy through misaligned

votes. Universal Profiles solve this through portable identity that follows residents across pop-up cities without re-registration.

Map3 implements Universal Profiles with profile data like name, bio, and picture stored on-chain, while LUKSO's multi-factor authorization standards require mobile device confirmation for every vote, providing security impossible with email systems, while giving users full data ownership.

Post-MVP, this foundation enables expansion where residents see all communities, accounts, and followers in one unified portal, with earned badges unlocking governance rights and creating clear incentives for civic engagement.

5.6.2 Identity Management Transformation

Map3 directly solves coordination failures endemic to temporary settlements through location-based infrastructure reporting and real-time community awareness. Popup villages face unique challenges where temporary infrastructure degrades rapidly, issues emerge unpredictably, and transient populations lack established coordination channels

5.6.2.1 Location-Based Reporting

Drop pins on OpenStreetMap with GPS precision documenting infrastructure problems, resource needs, or community discoveries. Photo evidence with preserved metadata creates verifiable documentation without formal inspection processes. When someone spots a water leak in a popup village, they immediately pin the exact location with photographic evidence visible to everyone. This eliminates coordination delay of finding who to tell, how to describe location, and whether anyone will respond.

5.6.2.2 Follow System for Real-Time Alert

Map3 enables following community members so new discoveries trigger notifications. This transforms residents into distributed sensors providing real-time situational awareness. In popup cities where conditions change rapidly, this creates resilience impossible with centralized communication. Someone discovers an unsafe structure, pins it immediately, and everyone following receives instant notification with exact GPS coordinates.

5.6.3 Community Discussion Threads

Every report, event and issue generates discussion threads where residents coordinate responses without requiring permission. Thread discussions on specific issues and district-wide chatrooms provide the communication infrastructure that pop-up cities need without centralizing control.

hup additionally enables an easy export of the dApps history into other dApps for further executions or analysis.

5.6.4 Governance Solutions for Network Societies

5.6.4.1 Democratic Voting on Budget Allocation

Any community member can createTransparent Treasury Management funding proposals requesting specific resources for identified needs. Other residents vote on-chain with results permanently recorded and publicly auditable. This transforms resource allocation from opaque administrative decisions to transparent democratic processes. Popup cities can democratically decide whether to spend limited budgets on improved sanitation, better wifi, or community events based on what residents actually prioritize.

5.6.4.2 Post-MVP: Transparent Treasury Management

Map3's next development phase introduces multi-level treasury management, where funds automatically flow to service providers who fix issues or community members approved for funding. Smart contracts ensure community funds live in on-chain treasuries where every transaction is publicly visible and auditable in real-time. Traditional pop-up cities rely on trusted organizers managing bank accounts with periodic financial reports. Map3's next iteration will enable every dollar to flow transparently and automatically. Residents will see exactly how much the community has, what proposals request funding, and where approved funds go, eliminating trust requirements while maintaining high efficiency through smart contracts.

5.6.4.3 Post-MVP: Customizable Community Categories

Community owners will be able to set up a community with tailored badges for their own reputation metrics, what types of issues or events can be reported, and what information gets captured, enabling governance tailored to specific pop-up city contexts. Each community democratically determines its own issue taxonomy through governance proposals rather than

accepting predetermined categories from platform designers who don't understand local needs. This will allow even households to create their own community in which they can control their funds and decisions efficiently.

6 Revenue Model

6.1 Open Maps, Premium Privacy

Map3's revenue model makes civic coordination free for everyone while monetizing features that serve specific organizational needs.

Core functionality is free. Anyone can create a Universal Profile, report issues, vote on governance, coordinate events, and engage in discussions without paying. The fundamental civic coordination layer must be universally accessible because excluding people based on ability to pay undermines democratic participation.

Privacy and advanced features generate revenue. Organizations pay to create private communities that appear fogged out on the public map, accessible only with permission. This serves corporate campuses, private developments, or sensitive coordination requiring confidentiality. Communities can also pay to upload detailed property boundaries, custom satellite imagery, or drone footage for professional use cases like real estate development or urban planning.

We have an ideal pilot with a team member's 2.5 hectares in Portugal. Portugal's crypto-friendly environment with one-year holding period exemption and substantial Web3 community in Lisbon provides the perfect testing ground for demonstrating private communities with custom mapping layers to a receptive crypto-native audience.

The global civic map stays completely open while premium features don't compromise transparency. Private communities appear fogged out so everyone knows they exist but can't see details without permission, maintaining accountability while respecting legitimate privacy needs.

Post-MVP, anyone creates and manages communities of any size from neighborhoods to metropolitan regions. Communities needing multiple treasuries or advanced governance pay subscriptions, creating sustainable revenue while keeping basic civic participation free for all.

7 Vision: Post-MVP Features & Their Impact

7.1 Community Verification & Trust Layer

Post-MVP proximity-based verification transforms passive reporting into active participation. Walking past a reported pothole triggers a verification request confirming whether it exists and

rating its severity. This three-tier system creates crowd wisdom, preventing false reports while building reputation through accurate contributions.

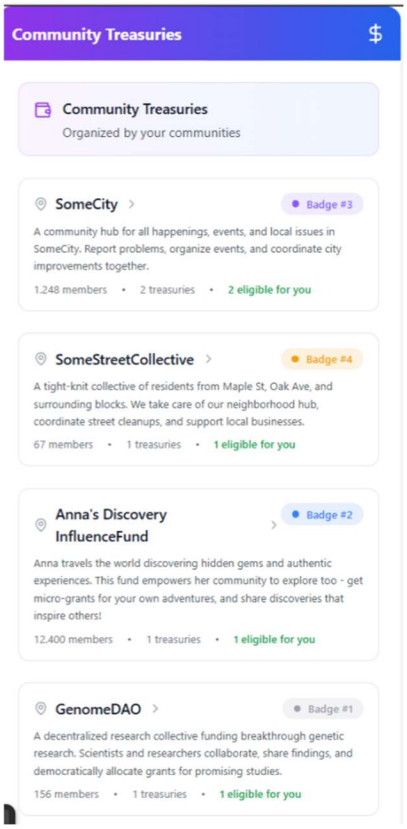
Reputation unlocks progressive privileges like increased report limits, voting rights, and proposal creation authority. Critically, this reputation lives on-chain through Universal Profiles, making it portable across any dApp. The vision is a self-governing infrastructure where communities validate their own data through distributed maintenance, eliminating bureaucratic gatekeepers while building cross-platform trust that enables strangers to transact confidently based on verified participation history.

7.2 Multiple communities & Group savings

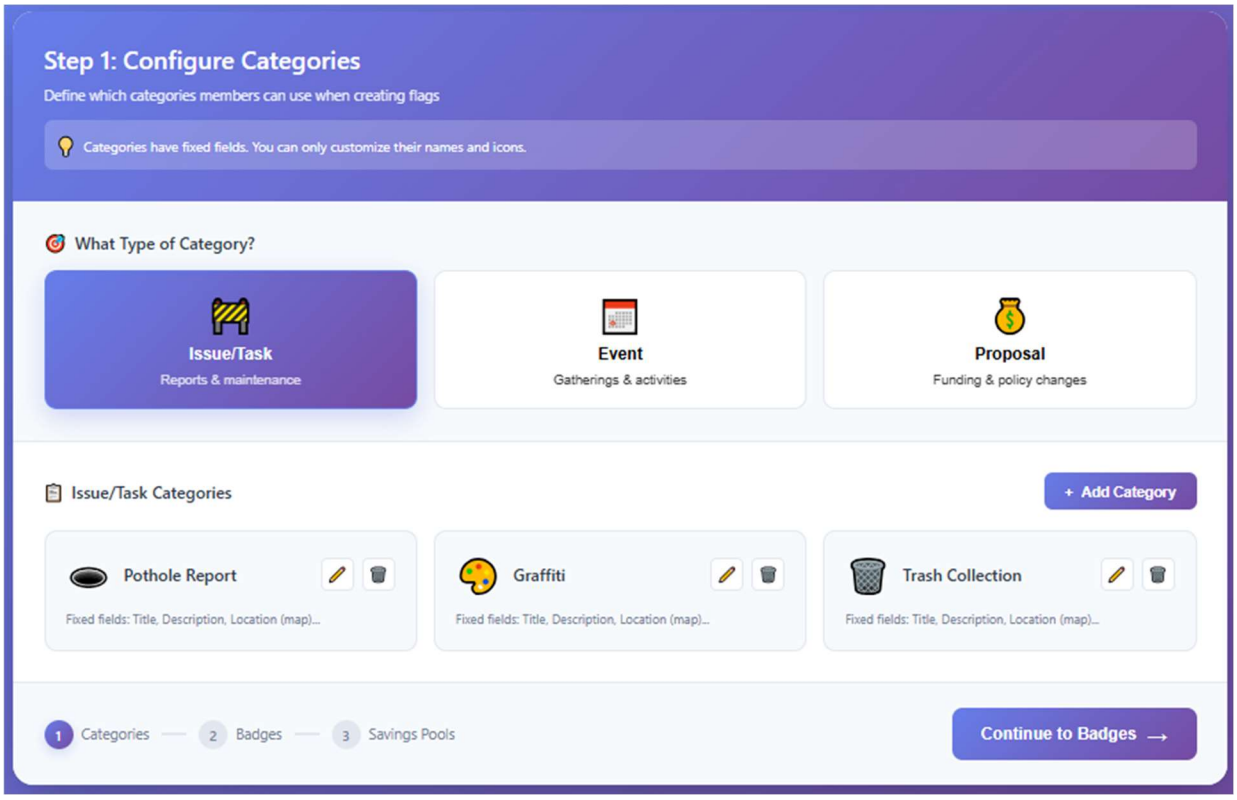
Anyone with at least two people can create a community with its own treasury for managing shared funds. This enables everything from neighborhood associations coordinating local improvements to friend groups pooling resources for collective purchases. Community creators invite members who then gain authorization to participate in financial decisions through democratic governance. The platform scales from two-person savings accounts to metropolitan regions with millions of residents, using identical transparent coordination infrastructure at every level.

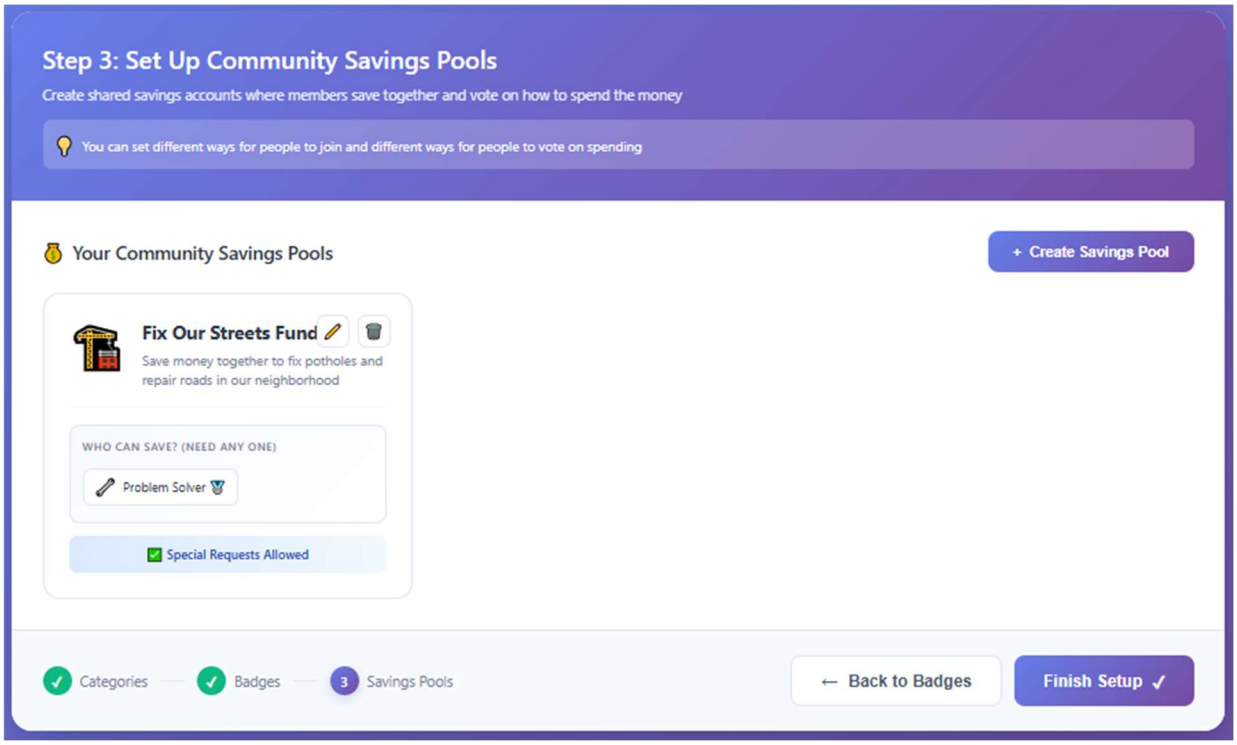
Multiple communities per person means you simultaneously participate in your neighborhood association, regional planning group, hobby collective, and professional network, each with separate treasuries and governance rules but sharing your portable reputation across all contexts.

Multiple treasury example:



Community creation:



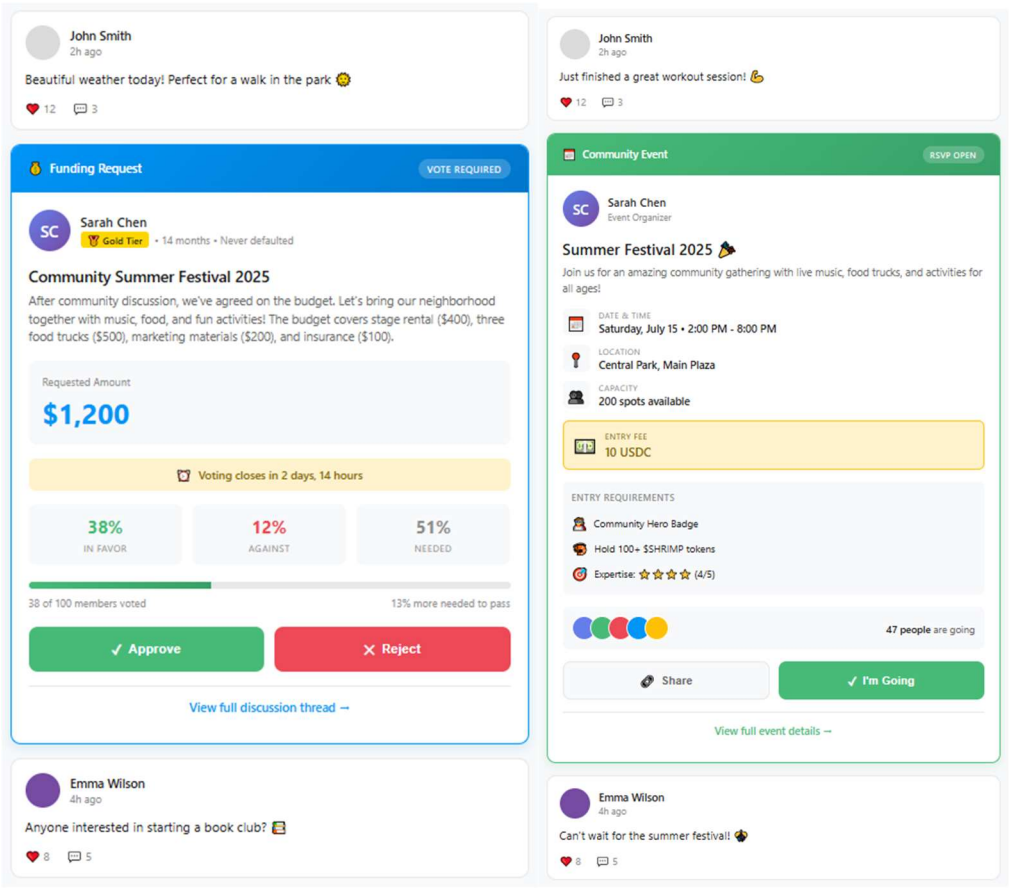


7.3 Hup Integration: Productive Social Feeds

hup functions will act as the social media layer, surfacing interactions that drive productive civic engagement rather than mindless scrolling. Your feed prioritizes proposals requiring votes, active community discussions needing input, and Intellectual Property NFTs submitted for collective review in shared communities.

This transforms social media from time-wasting entertainment into a functional coordination infrastructure showing exactly what requires your attention and participation across social, financial or even scientific communities.

Posts, comments, and discussions happen through your Universal Profile, making all civic discourse permanently owned by you rather than platform companies. The goal is encountering information with actual value, with decisions needing votes, problems needing solutions, and knowledge requiring evaluation, instead of algorithmic feeds optimized for engagement metrics that waste time without producing outcomes.



7.4 Business Integration & Reputation Incentives

Businesses can offer benefits to community members with verified reputation levels, creating economic incentives for civic participation. A local cafe might give discounts to people who've accurately reported and verified 50+ successfully fixed issues with a high reliability score, ensuring their customer base consists of engaged community members rather than random and unpredictable traffic. This makes civic participation tangibly valuable beyond altruism while helping businesses attract high-quality customers who care about their community.

The on-chain reputation system enables this by storing reliability metrics that businesses can query programmatically. Your verified participation history becomes portable social proof working across any dApp or real-world business, reading Universal Profile data, building trust that enables commerce between strangers based on demonstrated civic contribution rather than centralized credit scores.

7.5 Real-World Pilots: Portuguese Communities

We have concrete pilots waiting for Map3's usage across different contexts. An event manager in Portuguese favelas identified that local residents excel at organizing parties, attracting citywide attendance, but lack connections for funding and formal logistics. Map3 enables these communities to coordinate events transparently, manage pooled resources through community treasuries, and demonstrate successful track records that attract external support without requiring traditional intermediaries.

Self-sustaining agricultural communities already trading natural goods want transparent coordination showing which farms use pesticides versus organic methods, with Map3 proposals making practices publicly verifiable.

Additionally, a landowner with 2.5 hectares wants to gamify collaborative land use decisions, letting investors participate in planting decisions and business strategy while distributing revenue to investors without participation rights, proportional to their contribution. This would demonstrate how transparent coordination enables economic participation beyond traditional property rights.

7.6 Privacy for Marginalized Communities

Post-MVP privacy features enable coordination beyond third-party oversight, protecting minorities and activists operating under oppressive conditions. Zero-knowledge proofs let you prove reputation or participation without revealing identity. Encrypted messaging protects sensitive coordination. Communities can operate entirely private, visible only to invited members, ensuring vulnerable populations coordinate safely.

This serves persecuted religious minorities organizing worship, activists coordinating protests under authoritarian regimes, or in hostile environments. The technical architecture enables resistance to surveillance while maintaining internal transparency so communities trust their own coordination.

Especially because privacy isn't about hiding from your community but protecting your community from hostile external actors who would disrupt legitimate coordination if given visibility.

7.7 Offline Resilience & Emergency Infrastructure

Mesh networking activates automatically when internet fails, creating device-to-device networks relaying messages through physical proximity. Store-and-forward propagation means your phone receives updates from nearby neighbors and forwards them to others you encounter, creating epidemic-style information spread requiring no infrastructure.

Emergency beacon modes would enable one-tap distress signals. In the smart glasses era, this becomes particularly powerful. Especially during a robbery, where a quick emergency mode activation starts recording that streams to your immediate vicinity and followers, ensuring rapid help while instantly exposing perpetrators through distributed witness documentation. SMS fallback includes basic phones.

The vision is infrastructure becoming most valuable precisely when traditional systems fail catastrophically, with distributed coordination outperforming centralized response during crises as proven in actual disaster scenarios from Haiti to Puerto Rico.

7.8 Advanced Spatial Intelligence

Area selection enables reporting widespread issues like flooding affecting entire regions. Geofencing triggers automatic notifications when approaching reported problems, enabling dynamic routing avoiding issues in real-time. Indoor mapping extends coordination into buildings for accessibility tracking or emergency response in complex structures.

Heat maps visualize problem density revealing systematic patterns invisible in point data. Before/after comparison tools provide verifiable impact measurement with GPS-tagged photographic evidence of project outcomes.

The vision is a living digital twin where civic data, professional planning tools, and economic incentives converge on one transparent platform. Urban planners, residents, businesses, and emergency responders share identical high-fidelity reality maps, eliminating information asymmetries that plague current coordination attempts

7.9 Economic Coordination Through Bounties

Anyone creates bounties for issue resolution, personally funded or crowdsourced. Smart contract escrow holds funds until community verification confirms completion, then automatically releases payment. This introduces market mechanisms into civic coordination—businesses post bounties for persistent problems, neighborhoods crowdfund repairs, skilled residents earn income solving local issues. Resource distribution with rank requirements ensures high-stakes projects only go to proven contributors.

The vision is civic infrastructure maintenance transitioning from centralized government monopoly to distributed market coordination where communities post bounties for actual needs rather than waiting for bureaucratic prioritization. The economic layer aligns incentives so fixing civic problems becomes profitable participation rather than thankless volunteer work, enabling self-sustaining maintenance funded by those who benefit most

7.10 Liquid Democracy & Scaling Governance

Liquid voting enables delegating voting power to trusted experts on specific topics. Don't have time evaluating infrastructure proposals? Delegate road maintenance votes to a civil engineer neighbor while keeping park improvement votes. Delegations are transparent, revocable, and granular, creating flexible governance scaling better than direct democracy while remaining more accountable than representative systems. Multiple treasuries let communities structure finances however complexity requires—cities operating dozens of treasuries for different districts and departments, each with custom rules but all transparently auditable. Translation support eliminates language barriers.

The vision is a global network of interconnected communities coordinating at every scale simultaneously, from hyperlocal neighborhoods to planetary challenges, using identical transparent accountability mechanisms regardless of size