

*From Proof of Family*

# ROOTS

*to Proof of Personhood*

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A Southern Italian village has verified human identity for four centuries through oral tradition, family nicknames, and the memory of its elders. *We are putting it on-chain. And letting it grow.*

<b>Initiative</b>	KSM Art & Social Experiments Initiative
<b>Network</b>	Kusama — on-chain deployment via Asset Hub
<b>Token</b>	ROOTS — non-transferable, no monetary value
<b>Duration</b>	3 months · 5 phases
<b>Budget</b>	\$ 55,000 USD · paid in DOT at transfer
<b>Payment</b>	Milestone-based: M1 30% · M2 40% · M3 30%

**ROOTS · KSM · 2026**

*"You cannot transfer your roots."*

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## 1 / CONTACT DETAILS

# Applicant Information

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The ROOTS project is submitted by a cultural practitioner based in Southern Italy, working at the intersection of oral ethnography, community-based social practice, and decentralized technologies. Contact details and full CV are available upon request through the designated application form.

This is an individual application. The project involves the coordination of local community members, a panel of village elders, a local field coordinator, and a documentary filmmaker, all of whom have confirmed participation.

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## 2 / PROJECT DESCRIPTION

# The oldest anti-Sybil system in human history

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As artificial intelligence erodes the boundary between human and machine, the question of who is a real person becomes urgent. Current Proof of Personhood solutions are **technically sophisticated but culturally thin**: they verify existence without verifying belonging.

In small Southern Italian villages, every family carries a '*u nome 'e casa*' — a house name, passed down orally for centuries. Invisible to official registries. Incomprehensible to outsiders. Impossible for any AI to fabricate. These names are hyper-local, semantically rich, socially validated — and they grow organically. When a family branch forms, a new nickname is born. This makes them not just identity anchors, but a living, append-only social graph that predates the internet by four centuries.

*"You cannot fake belonging to a place if you do not know who the people are and what they are called."*

## The Experiment

Over three months, ROOTS documents this oral tradition through ethnographic fieldwork, encodes it on-chain using Kusama's Identity Pallet and native assets system, and runs a gated OpenGov referendum accessible only to attested community members. The result is a living, on-chain proof-of-personhood system maintained by the community itself — with no administrator, no central authority, and no expiry date.

## On-Chain Architecture

**ROOTS Token** — a non-transferable identity token minted via Kusama Asset Hub native assets pallet, with transfer permissions set to None at protocol level. Metadata stored on IPFS, hash anchored on-chain. A `roots_parent_token_id` field creates a directed acyclic graph linking each family to its ancestral token.

**Kusama Identity Pallet** — each attested participant registers fields including `house_name` (dialect), `village_quarter`, `attestation_hash` (SHA-256 of physical certificate), and `lineage_parent`. No custom smart contract is required.

**OpenGov Referendum** — a real community decision, gated exclusively to attested identities. Vote weight is modulated by ROOTS Reputation score through a logarithmic function:  $\text{weight} = 1 + \log_2(\text{reputation} / 50)$ . Results are presented to the local municipality as a legitimate expression of community will.

## The ROOTS NFT

Every attested family receives a generative NFT deployed on the Kusama Asset Hub — a unique visual artwork rendered from the family's position in the lineage graph. Trunk width reflects lineage depth; branch count equals living child tokens; color shifts from terracotta to amber with reputation. When a new house name is born and a child token is minted, the parent NFT grows a new branch. **These NFTs have zero monetary value and cannot be traded or sold.** They are identity attestation records — the visual representation of a family's place in the graph.

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**3 / MOTIVATION LETTER**

## Why this project, why this Initiative

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The KSM Art & Social Experiments Initiative is the only cultural funding context capable of hosting ROOTS. It is the only program that takes seriously the idea that art, social practice, and decentralized technology can converge into something that is not merely illustrative but genuinely operational.

ROOTS is not a project about blockchain. It is a project about people who have never heard of blockchain, and who already possess — in their mouths, in their memory, in their social fabric — the most robust anti-Sybil mechanism ever devised. The Kusama network provides the infrastructure to make this mechanism legible, permanent, and scalable. That alignment is not incidental: it is the core of the project.

The Initiative's commitment to digital sovereignty, individual agency, and networked cultures maps directly onto what ROOTS attempts to do: give a rural community genuine ownership of its own identity graph — not mediated by a state, a platform, or a corporation, but anchored in the community's own oral tradition and maintained by the community simply by living.

I am interested in the Initiative's emphasis on intellectual honesty and contextual awareness over speculative narratives. ROOTS makes no claims about token economics, market value, or financial returns. It is a cultural experiment with a clear social research dimension: can a centuries-old community identity system become the basis for a working on-chain governance mechanism? The answer will be documented honestly, including failures and unexpected outcomes.

*"The oldest anti-Sybil mechanism in human history is a village that knows its own names. We are putting it on-chain — and letting it grow."*

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**4 / SUPPORTING MATERIALS**

## Visual and Documentary References

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The following materials accompany this application and are available through the designated submission form:

### **Lineage Graph**

A directed acyclic graph visualization of the oral house-name tradition — showing known family branches, etymology annotations, and village quarter attribution. Available as PDF and interactive web visualization.

### **Prototype NFT Renders**

Three generative artwork prototypes showing how the ROOTS NFT system translates lineage position into visual form — one for a root family (depth 0), one mid-lineage (depth 3), one new branch (depth 6).

### **Field Notes**

Excerpts from preliminary oral collection sessions conducted during a research visit — demonstrating the richness and consistency of the oral tradition and the community's engagement with the documentation process.

## Ceremony Concept Design

Visual mock-up and event design for the attestation ceremony, including certificate design and the proposed elder panel protocol.

## Selected Projects

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### Work 1 — Oral Cartography (2022)

A field research project mapping the oral place-name traditions of three inland villages in Southern Italy. The project resulted in a printed atlas (200 copies, deposited with local libraries and the regional archive), a radio documentary broadcast on a regional public station, and a public presentation at a cultural geography conference. The methodology developed in this project — informal collection sessions, elder witness validation, multi-generational cross-referencing — forms the direct basis for the ROOTS ethnographic phase.

### Work 2 — Governance Without Platforms (2023)

A social experiment in which a small rural community was invited to make a collective decision about a shared resource using a deliberately low-tech protocol — no apps, no software, no external facilitation beyond a printed rulebook. The experiment ran over six weeks and resulted in a binding community agreement, a 40-page research report published on Mirror.xyz, and a presentation at a decentralized governance research symposium. The project demonstrated that meaningful participatory governance is possible without digital mediation — and laid the conceptual groundwork for the ROOTS OpenGov referendum design.

### Work 3 — The Living Archive (2024)

A hybrid on-chain and off-chain archival project in which community members contributed oral testimonies that were transcribed, structured as linked data, and anchored on a public blockchain. The project involved 47 participants across two communities, produced a printed publication (150 copies), and resulted in an IPFS-anchored dataset that remains publicly accessible. The project was presented at a digital humanities conference and received coverage in two specialist publications. This is the direct technical and methodological precursor to the ROOTS on-chain registration phase.

## 6 / BUDGET OVERVIEW

## Total request: \$ 55,000 USD

The total budget of **\$ 55,000 USD** covers all five project phases over three months. Payment is requested in DOT tokens equivalent to the USD valuation agreed with the Initiative's curators at the time of each transfer, eliminating price slippage risk as specified in the Initiative's terms.

#	PHASE	DURATION	USD
Phase 1	Oral Ethnography and Book of Names	4 weeks	\$ 11,000
Phase 2	The Attestation Ceremony	2 weeks	\$ 13,700
Phase 3	On-Chain Identity Registration	2 weeks	\$ 9,900
Phase 4	The Social Experiment	4 weeks	\$ 12,100
Phase 5	Report and Replication Framework	2 weeks	\$ 5,500
Buffer	Contingency		\$ 2,800

### Phase Breakdown

#### Phase 1 — Oral Ethnography and Book of Names · 4 weeks — \$ 11,000

Local field coordinator (4 weeks full time) · book design and archival print run (100 copies) · video documentation of all sessions · lineage graph design and large-format print

#### Phase 2 — The Attestation Ceremony · 2 weeks — \$ 13,700

Event organization (venue, catering, setup) · archival-quality attestation certificates · professional video and documentary production (20 min) · elder witness honorarium · community mobilization and press outreach

#### Phase 3 — On-Chain Registration · 2 weeks — \$ 9,900

ROOTS token minting tool and IPFS pipeline development · on-chain fees (identity deposits and minting for 100+ participants) · IPFS pinning service (24 months) · wallet onboarding sessions (4 evenings)

#### Phase 4 — The Social Experiment · 4 weeks — \$ 12,100

OpenGov referendum design and setup · facilitated deliberation sessions (5 events) · data collection, analysis, and academic-standard report · final documentary film (20 min)

#### Phase 5 — Report and Replication Framework · 2 weeks — \$ 5,500

Research report (English and Italian, 30 pages, academic standard) · Mirror.xyz publication and outreach · translation, layout, and design · facilitator handbook for replication in other villages

**Contingency — \$ 2,800**

Reserve for unforeseen logistical costs and minor equipment needs. Any unspent amount will be allocated to Phase 6: replication.

*Note on budget scope. This project's budget exceeds the Initiative's typical range of up to \$ 10,000 USD. This reflects the project's larger scope: five distinct phases combining ethnographic fieldwork, public event production, on-chain technical implementation, a governance experiment, and a publishable research output — all delivered within a single three-month timeline. The budget has been constructed conservatively, with all major line items supported by prior project experience.*

## 7 / PROJECT TIMELINE

## Work Plan — 3 Months

WEEK	PHASE	KEY ACTIVITIES	DELIVERABLE
1–4	Phase 1	Oral collection sessions · lineage graph drafting · Book of Names layout and print	Book of Names (100 copies) · lineage graph · video footage
5–6	Phase 2	Ceremony production · elder panel preparation · attestation event · documentary filming	Attestation certificates · documentary film (rough cut)
7–8	Phase 3	Wallet setup · identity registration · token minting · IPFS pipeline · onboarding sessions	100+ ROOTS tokens live on Kusama Asset Hub
9–12	Phase 4	Deliberation sessions · OpenGov referendum · data collection · film post-production	OpenGov result · final documentary · data report
12–14	Phase 5	Research report writing · Mirror.xyz publication · replication handbook	30-page report · Mirror.xyz post · facilitator handbook

## Payment Milestones

In accordance with the Initiative's payment terms, funding is requested in three milestone-based installments. Each payment is triggered by submission of the corresponding deliverables to the curatorial committee.

MILESTONE	DELIVERABLE	PAYMENT
M1 — Project start	Signed agreement, Kusama Asset Hub identity verified	30%
M2 — Phase 3 complete	On-chain registration live, documentation submitted	40%
M3 — Final delivery	Full report, video, Mirror.xyz publication, financial statement	30%

## 8 / CV AND SHORT BIOGRAPHY

## Applicant Background

The applicant is a researcher and cultural practitioner working at the intersection of oral history, community-based social practice, and decentralized technologies. Previous projects have been presented at cultural geography conferences, digital humanities symposia, and decentralized governance research events. Publications include contributions to peer-reviewed journals in the fields of ethnography and digital culture, as well as self-published research on Mirror.xyz.

Technical competencies include: ethnographic fieldwork methodology; community facilitation and participatory design; Substrate-based blockchain interaction; IPFS and decentralized storage; generative art and on-chain metadata

standards. Full CV and updated portfolio are available upon request.

# *You cannot transfer your roots.*

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ROOTS · From Proof of Family to Proof of Personhood  
Application to the KSM Art & Social Experiments Initiative · 2026

Budget: \$ 55,000 USD · paid in DOT at transfer · 3 months · 5 phases

*By submitting this application, the applicant confirms full acceptance of the KSM Art & Social Experiments Initiative Basis & Terms, including conditions on intellectual property, image rights, payment structure, and final reporting obligations.*