INDEPENDENT IMPACT

Hedera-powered infrastructure that enables people to mobilise, measure, and share trustworthy impact data from the ground up.

Hedera Africa Hackathon

Collaborators

The Nova Institute (lead)
Jellyfish Technologies
Impact Out

The Problem

Every day, projects claim to change lives, restore ecosystems, or reduce emissions - but proving impact remains slow, costly, inconsistent, obscured and open to only the large players.

Existing impact accounting and reporting systems are not suitable for the African context where entrepreneurship is ubiquitous, and innovation and community are valued over procedure

Independent Impact exists to make impact visible and verifiable for everyone

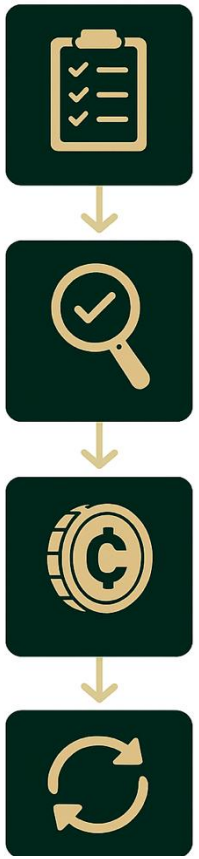
Our solution is a platform that is:

1. **Open, but meritocratic:** Participation is open to all, but influence is earned through proven quality and transparent peer reputation
2. **Transparent, not prescriptive:** Projects choose their own methods, but every assumption, transformation, and act of verification is visible
3. **Immutable, yet accessible:** Built on proven Web3 technologies that secure every record immutably while keeping all data transparent, auditable, and easy to explore.
4. **Understandable and comparable:** Semantic data structures make every result contextual and comparable across projects and methodologies.

Together, these features remove the need to blindly trust

Independent Impact is a Web3 platform that makes impact visible, verifiable, and tradeable.

It enables people and organisations to:



Register
Create a profile, log reputation, and register projects by uploading real evidence of impact and completing a project design document.

Validate and Verify
Projects are validated on-platform and undergo independent verification based on submitted monitoring data.

Tokenise
Verified impact is converted into digital credits — transparent, traceable, and standardised for comparability.

Trade or Showcase
These digital credits can be traded, shared, or displayed as proof of real, measurable change.

PROJECTS | CREDENTIALS

Project Title
Fruit Tree Project

Date Created
2025-09-26 18:19:31.316035

Hedera Topic ID
0.0.6913315

Created By
did:hedera:testnet:z2uwK45vHjumcFkb9jpdiRGGFomc6tgaxLPzD6LHZwy49_0.0.6913191

Project Location

Approved: TRUE | Verified: FALSE

PREV NEXT

Quantified Impacts

Label	Type	Monitored	Ex Ante Estimation	Unit of Measure	Approved
Adaptation_Indicator	INTENTIONAL, BENEFICIAL	YES	0.63	No unit	true
C_AR_CDM,t	INTENTIONAL, BENEFICIAL	YES	71.8	tCO2e	true

Verified Impact Certificates

Certificate ID	Date Issued	Status	Trust Chain
II-VIC-00X00X00006913315-1758997643336281000-20250927	2025-09-27T14:43:31Z	ACTIVE	TRUSTCHAIN

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PROJECTS | CREDENTIALS

Email Address

[redacted]

Date Registered

2025-09-26 17:28:57.468837

Hedera Account ID

0.0.6913190

Hedera DID

testnet:z2uwK4...0.0.6913191

Reputation

Domain	Score
GENERAL	12
PROJECT_DEVELOPMENT	2

Issued Credentials

License No.	Scope	Date Issued	Status	Action
II-PD-00X00X00006913191-20250926	PROJECT_DEVELOPER	2025-09-26T14:46:44Z	ACTIVE	VIEW

Associated Credential Workflows

Title	Version	View
Independent Impact - License Application Workflow	5.0.0	VIEW

Why Hedera works

Efficient topic-based messaging: Devices on the network subscribe only to relevant “topics,” reducing bandwidth and power consumption — essential for limited-connectivity and energy-constrained environments like rural Africa.

Compact messages: HCS messages are small, further supporting low-bandwidth contexts.

Fast consensus (2–5 seconds): Ideal for fast-paced workflows, such as ground-truthing where verifiers cannot wait extended periods for confirmation from the system that their submissions have been "accepted" into the ledger.

Message-based pricing: Costs depend on message count, not data size, which fits our architecture — we only need a consensus service to anchor data hashes in a timeline, while full data resides in Fluree and IPFS.

Target Users and Market Size

Project Developers

Affordable verification tools and access to skilled local verifiers.

Funders & Regulatory Authorities

Verifiable proof that money funds impact, not admin.

Local governments

Transparent, low-cost impact tracking for service delivery and job creation

Individuals & communities

Drive local priorities. Earn income and recognition as verifiers and contributors of trusted data.

Market Size

Global verification and assurance markets are growing fast, with some estimates placing their value between USD 12 – 20 billion by 2030. This is being driven by ESG regulation, investor scrutiny, and accountability pressure

ESG reporting is accelerating across the continent, led by South Africa, Kenya, Nigeria and Ghana. The Johannesburg Stock Exchange now requires ESG disclosures, and regional sustainability frameworks are emerging through the African Union's Green Recovery Action Plan and African Continental Free Trade Area (AfCFTA).

A rapidly expanding global market — and a local ecosystem ready for disruption through open, decentralised verification.

Architecture

- Core stack: Hedera Consensus Service, Hedera DIDs, W3C Verifiable Credentials, IPFS,
- Fluree, Jellyfish compute.
- Provides portal for project onboarding, methodology selection, and credential issuance.
- Semantic tagging enables interoperable queries and cross-project comparison.

Infrastructure supports tokenisation of verified impacts via Hedera Token Service.

Community participation built on open enrollment with reputation-based incentives.

Technology Readiness Level

4 Project development portal: (still slow, UX UI improvements needed)

2 Reputation system (conceptually advanced, early-stage development underway)

2 Bounties (conceptually advanced, early-stage development underway)

4 Jellyfish integration (verifiable compute solution) (some UX/UI improvements needed)

1 Verified impact trading platform (ideation)

5 AI Data explorer (additional task related training required)

Architecture

1. Hedera Consensus Service for event journaling
2. W3C Decentralised Identifiers (Hedera DIDs) for identification
3. W3C Verifiable Credentials for credential issuance and verification
4. IPFS for immutable, distributed document storage
5. Jellyfish for verifiable compute
6. Fluree as a cryptographically secured, immutable, time-travelable semantic database
7. Hedera Token Service for tokenisation of verified impacts

Architecture Diagram

Simplified, focussing on Hedera interaction

Action: User account creation

	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. New user requests account creation.					
1. Send query for admin hbar balance.					
2. Receive response from network.					
3. Send Hedera AccountCreateTransaction().					
4. Receive tx receipt and extract account ID.					
5. Send request to create a new Hedera DID for the user.					
6. Receive response and extact DID.					
7. Create a DID document and upload to IPFS.					
8. Add Hedera DID resolver service entry for DID document.					

Action: Project creation

	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. User creates a new project.	→				
1. Send TopicCreateTransaction() to Hedera.		→			
2. Receive transaction response and extract topic ID.		←			

Action: Document publication

	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. User submits (publishes) a document.	→				
1. Upload document to IPFS.		→			
2. Submit document's IPFS URI to project's/agent's Hedera topic.		→			
3. Receive transaction response and extract submission's topic sequence number.		←			
4. Send query to Hedera mirror node for message ID of document.		→			
5. Receive response from Hedera mirror node.		←			
6. Add document metadata (including IPFS URI and Hedera message ID) to Fluree.		→			
7. Add document content to Fluree.		→			

Business and revenue model

Independent Impact is currently incubated within the Nova Institute, a not-for-profit company driven by a vision of quality of life for low-income households in Southern Arica.

HIP 991-enabled submissions

Actions such as data and project submission will use HIP 991-enabled topics, triggering a fee with each transaction.

HIP 991-enabled data methodologies

Tools and methodologies for data collection, quality control and transformation will be made available via HIP 991-enabled topics on a pay-per-data-point basis.

Tokenised impacts

Nova intends to use the platform as project implementer for Nova's own projects

Tokenomics

Reputation will be governed by two tokens: A Knowledge & Skills token and a Conduct token

Knowledge & Skills

- Fungible token by knowledge domain
- Infinite supply
- Unlock access, privileges and income opportunities, typically though bounties
- Function: Enables a meritocratic system by signaling expertise

Conduct

- Fungible token
- Infinite supply
- Enable sharing in platform profits
- Function: to incentivise desirable behaviour

Impact tokens

- Fungible or NFT
- Infinite supply
- Represent the impact of an activity on an environment

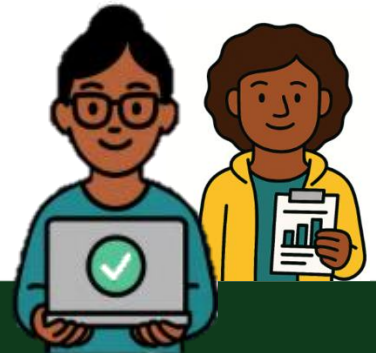
Community growth strategy

Start with Nova's existing portfolio of projects with high-profile partners

Nova already works with an extensive network of high-profile partners in industry and academia.

As an initial step, we plan to onboard a selection of Nova's existing impact projects onto the Independent Impact platform.

This will help establish the credibility of the platform and enable us to seek additional partners.



Traction and Milestones

Achieved:

- Project portal live
- User registration for implementers, validators, verifiers
- Project design and validation workflow
- Monitoring report submission and verification
- Impact certificate issuance

Achieved during Hackathon

- Hedera Consensus Service integration
- Hedera DID integration
- Move back-end to Fluree semantic graph DB
- AI driven graph DB explorer
- CDM Methodology library (small scale)

In progress since start of Hackathon

- First mile survey app
- Reputation system
- CDM Methodology library (large scale)

Team and expertise

Built by a cross-disciplinary team combining on-the-ground impact delivery, Web3 innovation, and deep regional experience.

Impact project implementation

Grounded in behavioural design and community mobilization - decades of experience in research, development, implementation and monitoring of projects to improve the quality of life of low-income households in Southern Africa

Methodology and project design

Developed, implemented and monitored numerous GHG and air quality–focused project in voluntary offsetting and compliance contexts.

Instrument and database development

- Developed and operated data management systems for large scale impact projects including data collection tools, QC tools, data storage, management and reporting tools

Roadmap

Over the next three months we plan to fully implement the reputation system, improve the speed and stability and launch on Mainnet

1 - 3 months

- Wallet integration
- Project-specific toolsets
- UI migration to Flutter
- Back-end migration Go
- Mainnet launch

Our priorities for months four to six are to improve the practical usability and to expand use-cases

4 - 6 months

- Learning tokens integration and pilot project
- Indicator portal
- Methodology portal
- Several rounds of live testing with community partners

The foundations are in place: a proven model, a capable cross-disciplinary team, and real-world demand from projects seeking transparent, low-cost verification.

What we need now are catalytic collaborators and accelerators to help us push through the next phase

Long-term collaborators

Seeking catalytic partners to co-develop and scale Hedera-native impact verification.

- Senior full stack developer
- UX/UI designer
- Community and marketing coordinator
- ~ $170K
- 1 year

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Acceleration

Join a Web3 or social innovation accelerator to help refine model, connect to partners, and scale responsibly.

INDEPENDENT IMPACT

The backbone of community-verified impact in Africa.

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