HBAR Foundation

Sustainable Impact Fund

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Chair - GBBC Interwork Alliance, Carbon Emission Task Force

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Our Commitment

The Hedera ecosystem commitment goes beyond being low carbon footprint public network. Through the HBAR Foundation Sustainable Impact Fund, and partner organizations, the Hedera ecosystem aligns with global initiatives to combat climate change with a shred mission to bring the balance sheet of the planet to the public ledger.

- World changing projects working with the Hedera Governing Council and sustainable brands including Avery Dennison, ServiceNow, and Electricite de France
- Hedera is governed by the world's leading organizations diversified across industries and geographies.
- Digital Public Goods that enable the infrastructure of tomorrow, today.

The Balance Sheet of the Planet ***will*** live on a Public Ledger.

A regenerative economy requires markets that are transparent and accessible to ensure auditable, discoverable, and liquid qualities. Transparency and access to data and information are essential for these markets to function properly.

- **Auditable**
- **Data & Information Discoverable**
- **Liquid**

Goals of the HBAR Foundation Sustainable Impact Fund

1. Make Climate Finance Auditable

   Understand flows of finance linked to auditable roles within environmental projects

2. Digitize & Open Source Methodologies

   Creating digital rulesets through a policy workflow engines that can be executed to create trusted assets that are comparable.

3. Scale Validation & Verification

   Scaling up validation and verification, and audit, processes to ensure equitable opportunities and consistent verification.

4. Discover a Global Carbon Price

   Enable a global based price based on attributes across the climate market through machine readable data structures rather than methodology and metric tonne.

5. Make ESG Reporting Credible

   Developing tools for trusted emissions accounting and ESG reporting to ensure credibility and accuracy based on real data.

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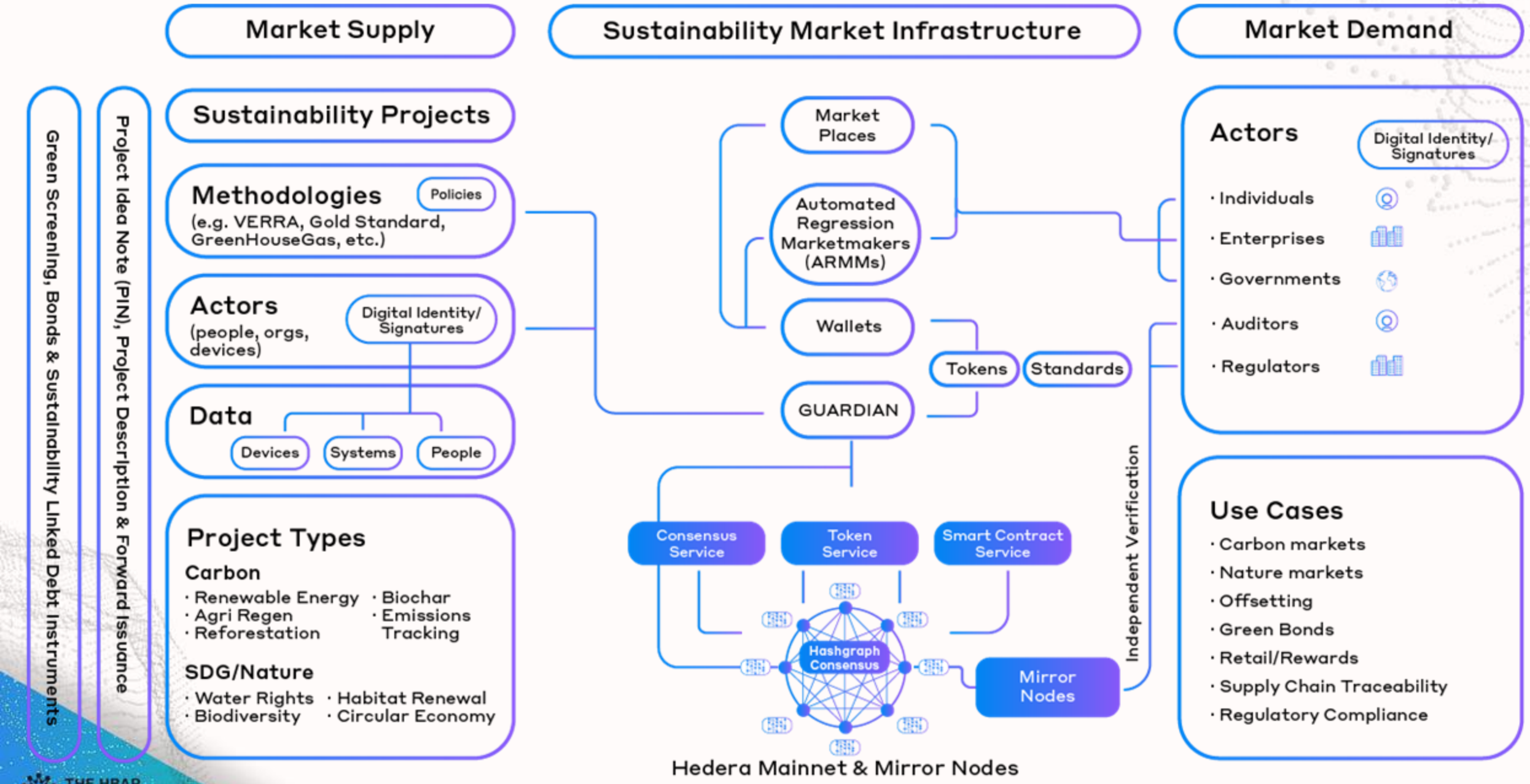

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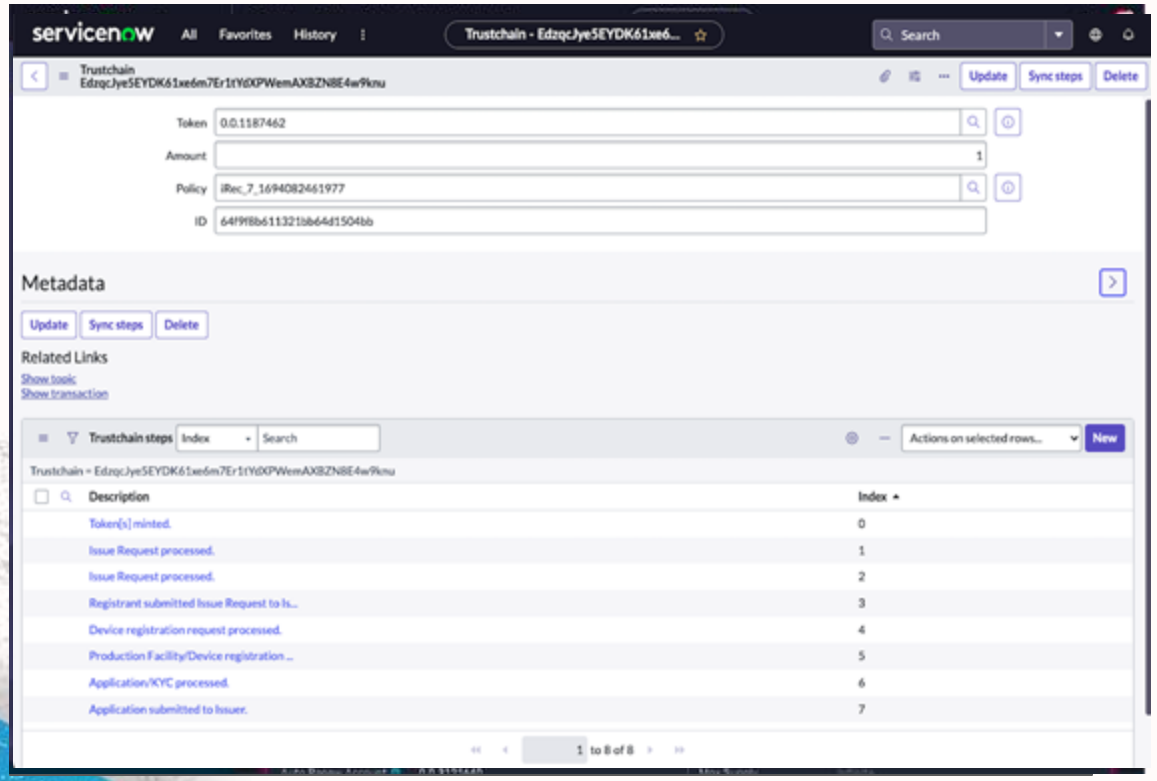
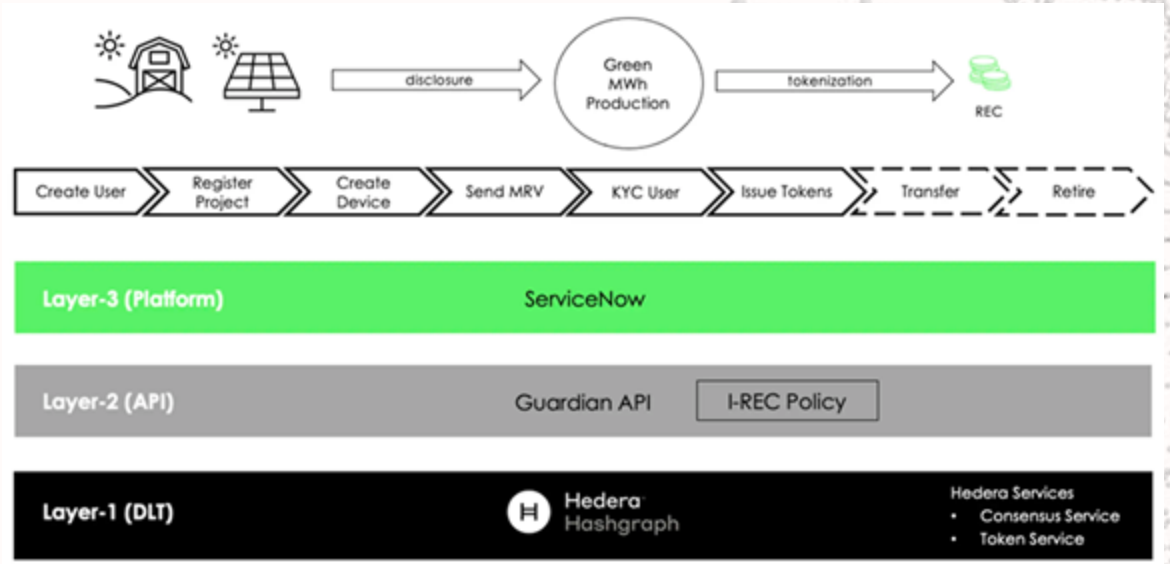
ServiceNow

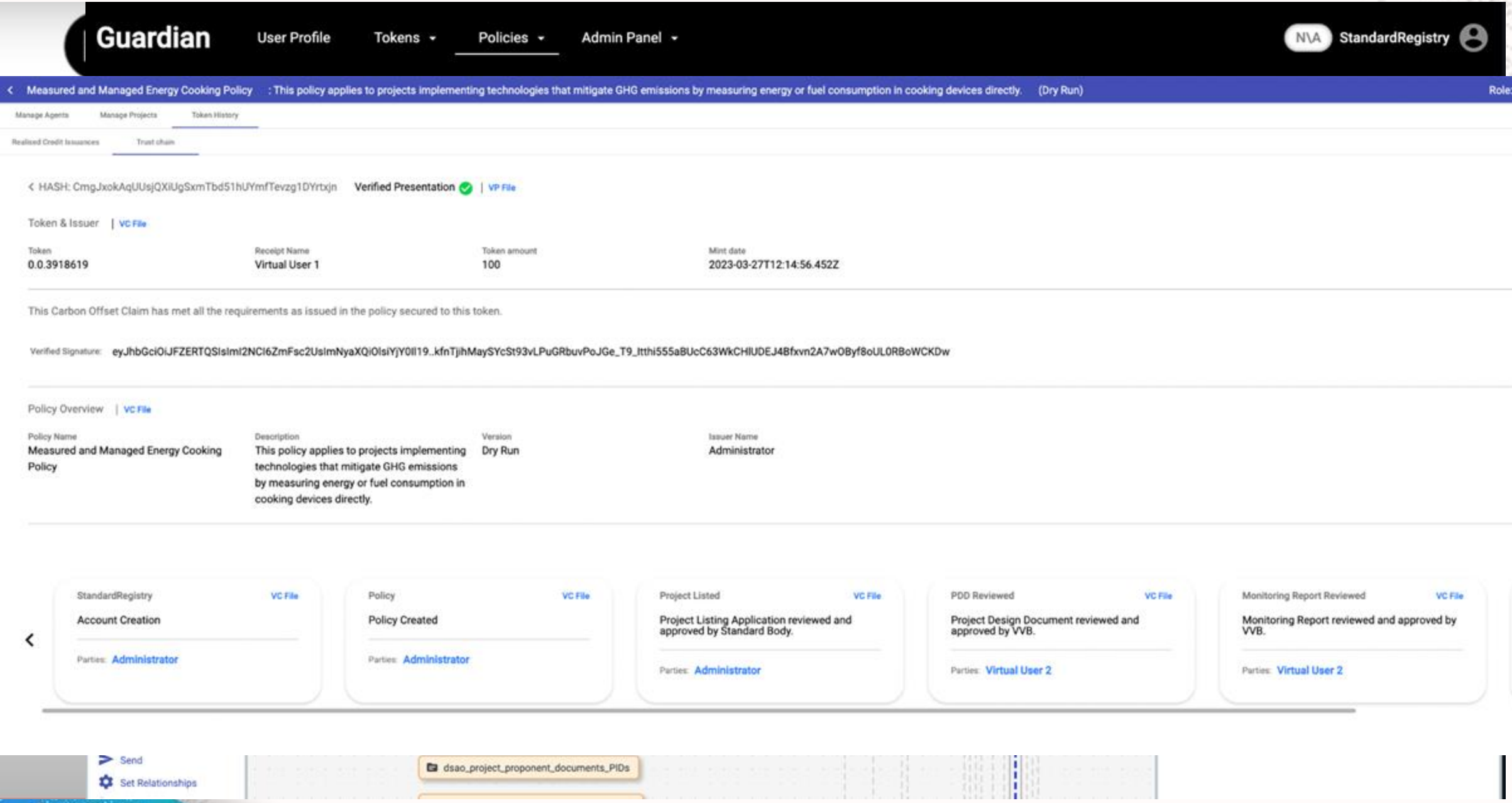
The ServiceNow ESG ReFi application empowers companies, organizations, and their ecosystems to generate climate assets by seamlessly integrating with the Hedera Guardian open-source tokenization engine.





Tokenized climate assets offer several advantages over conventional climate assets, including:

- Facilitating the establishment of certified climate asset supplies grounded in precise Measurement, Reporting, and Verification (MRV) data.
- Providing transparent verification of origin and audit data through dedicated interfaces and public blockchain explorers.
- Effectively mitigating the risk of double counting through a verifiable on-ledger retirement procedure.


Guardian
User Profile
Tokens
Policies
Admin Panel
NVA
StandardRegistry
Measured and Managed Energy Cooking Policy : This policy applies to projects implementing technologies that mitigate GHG emissions by measuring energy or fuel consumption in cooking devices directly. (Dry Run)
Role: Administrator
Manage Agents
Manage Projects
Token History
Realised Credit Issuances
Trust chain
HASH: CmgJxokAqUUsjQXiUgSxmTbd51hUYmfTevzg1DYrtxjn
Verified Presentation
VP File
Token & Issuer
VC File
Token
0.0.3918619
Receipt Name
Virtual User 1
Token amount
100
Mint date
2023-03-27T12:14:56.452Z
This Carbon Offset Claim has met all the requirements as issued in the policy secured to this token.
Verified Signature:
eyJhbGciOiJFZERTQSIsImI2NCI6ZmFsc2UsImNyaXQiOlsiYjY0Il19..kfnTjihMaySYcSt93vLPuGRbuvPoJGe_T9_Itthi555aBUcC63WkCHlUDEJ4Bfxvn2A7wOByf8oUL0RBoWCKDw
Policy Overview
VC File
Policy Name
Measured and Managed Energy Cooking Policy
Description
This policy applies to projects implementing technologies that mitigate GHG emissions by measuring energy or fuel consumption in cooking devices directly.
Version
Dry Run
Issuer Name
Administrator
StandardRegistry
VC File
Account Creation
Parties: Administrator
Policy
VC File
Policy Created
Parties: Administrator
Project Listed
VC File
Project Listing Application reviewed and approved by Standard Body.
Parties: Administrator
PDD Reviewed
VC File
Project Design Document reviewed and approved by VVB.
Parties: Virtual User 2
Monitoring Report Reviewed
VC File
Monitoring Report reviewed and approved by VVB.
Parties: Virtual User 2
Send
Set Relationships
dsao_project_proponent_documents_PIDs

PUBLIC FINANCIAL TRANSPARENCY IN THE VCM

By linking methodologies to actors fulfilling roles within the methodologies, we have the opportunity to ensuring that every credit is backed by verifiable data. The Guardian on Hedera is setting new standards for transparency, accountability, and financial equity in the carbon market. Through understanding the flow of finance into the same accounts that attest to data we can better understand the relationship between who gets paid and who is attesting to verifiable information.

Data flows from each role to the ledger, recorded transparently and immutably by the Hedera Guardian.

Funds, represented by tokens, flow from the ledger to a wallet.

A percentage of these funds is then channeled back to the community and contractors or financiers, ensuring transparency of project funds.

Transparency & Auditability

The Hedera Guardian champions a transparent and auditable trail for all environmental credits, instilling trust and credibility in the market.

Financial Clarity

The Hedera Guardian offers the opportunity for project proponents to demonstrate financial transparency enabling stakeholders to trace and understand financial flows, thereby promoting financial equity.

Empowerment through Information

With every transaction and data point immutably recorded, The Hedera Guardian ensures that all stakeholders have access to transparent and verifiable information, fostering informed decision-making.

Tolam's Approach

TOLAM EARTH

Hedera's Guardian, adds a full trust-chain of verified ecological data

A native on-ledger payment process adds transparency to the distribution of funds

Tolam's Price Oracle provides a credible, data-driven price recommendation

Trusted assets being exchanged **equitably,** with **trusted prices**, and **at scale** - implemented to encourage **reduce emissions**

The Automated Regression Market Maker 'ARMM' will bring discovery, liquidity and efficiency

Retirement flow + reporting APIs + Partner Applications APIs

Measuring Supply Chain Emissions & Achieving Net Zero

Guardian dMRV Protocol

I want to transparently show the sources of my emissions roles and actors following a methodology in a digitally traceable manner to the sensor level that is easily shown by tokens following standards

Explorer/Mirrors

I want to have a display of all my emissions that is discoverable for easier reporting to supply chain stakeholders, regulators and customers to show my improvement in reductions

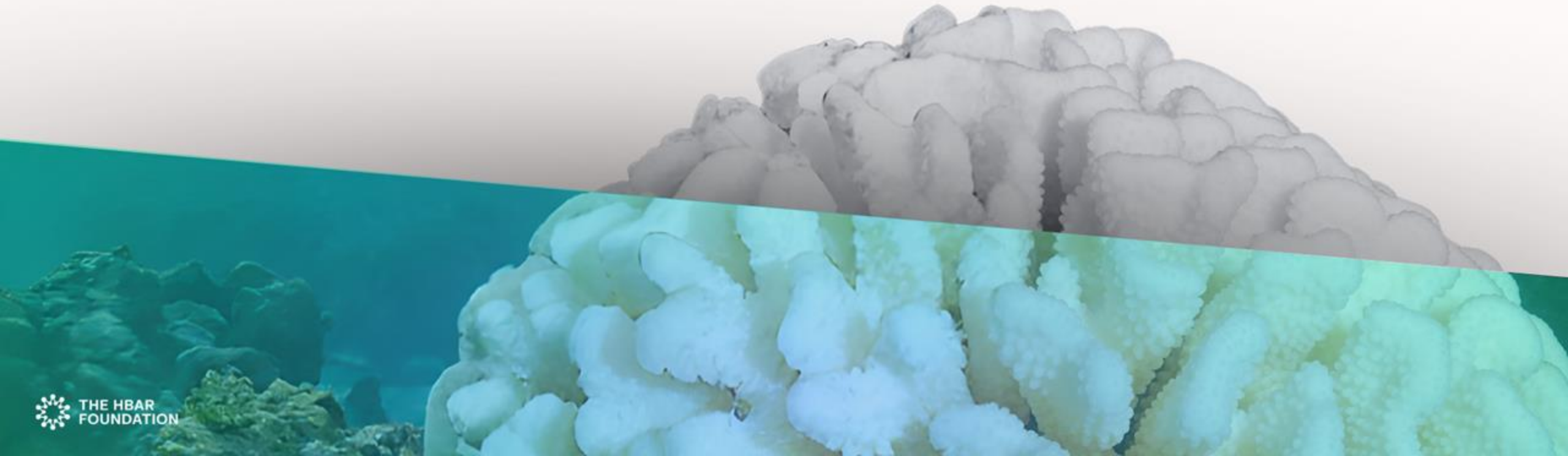
ARMMS

Where I cannot reduce I want to be able to offset my emissions with high quality and transparent carbon credits to achieve carbon neutrality/net zero.

atma.io × Hedera × THE HBAR FOUNDATION

Avery Dennison's atma.io connected product cloud to utilize the Hedera network to account for carbon emissions of billions of unique items

Thank You!



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