



Information and Networking Event EU-India TTC Call



Coordinated Call with India on Waste to Renewable Hydrogen

HORIZON-CL5-2025-04-D2-13

- Ani Varghese
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- Founder and CEO
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**accelerating de-methanization through data transparency and
climate finance with SITA.**

Trust, Trace & Trade Offsets



About ZeroEarth

ZeroEarth operates at the intersection of **science, technology & financial innovation**, transforming emission reduction into a **simplified, digitised & accountable** process.

Emitters, mitigators & investors intersect on our proprietary **SITA** platform, coming together to drive measurable climate action. This synergy enables us to provide **Decarbonisation-As-A-Service** across multiple sectors, streamlining complex climate solutions into actionable, transparent, and financially viable pathways. By integrating digital traceability with robust financial models, ZeroEarth simplifies, quantifies and digitises emission reductions (offsets), ensuring accountability while scaling impact.



Idea grant KSUM

[link](#)



Winner Startup India
Seed Fund T-Hub

[link](#)



Winner Climate Catalytic
Seed Fund

[link](#)



Winner
AgriTech4Uzbekistan
2023

[link](#)



Winner of BIG 2023

[link](#)



Winner GCI 2024

[link](#)

Our Mission

To de-methanise and create

10 million traceable smallholder methane offsets

by 2030, linked to sustainable investment instruments.

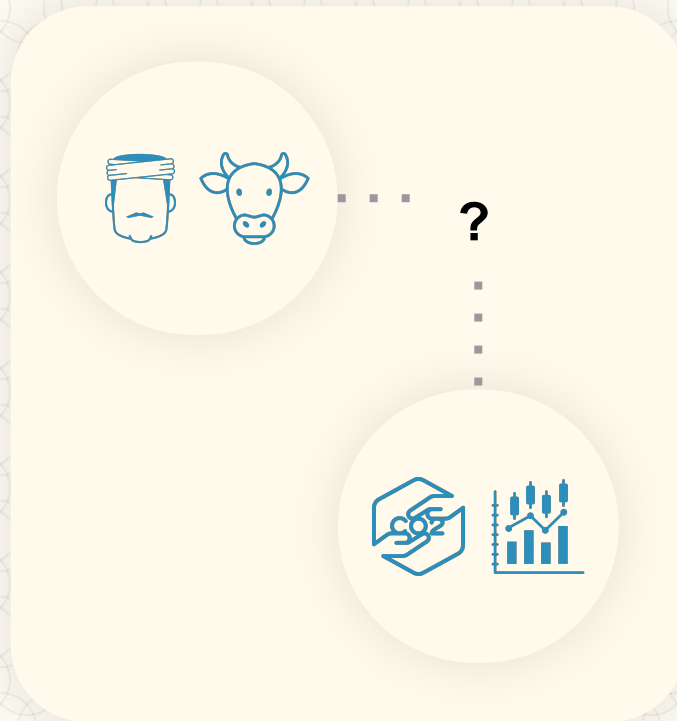


Problem Statement

Science-based feed additives work, but without visibility and traceability,

- **They don't scale**
- **They don't benefit farmers**
- **They don't count in carbon markets**
- **They don't provide a framework for sustainable investment**

No Visibility = No Trust | No Trust = No Market Access | No Market Access=No Investment



What is our Solution ?

SITA stands for Sink Traceability Alliance platform

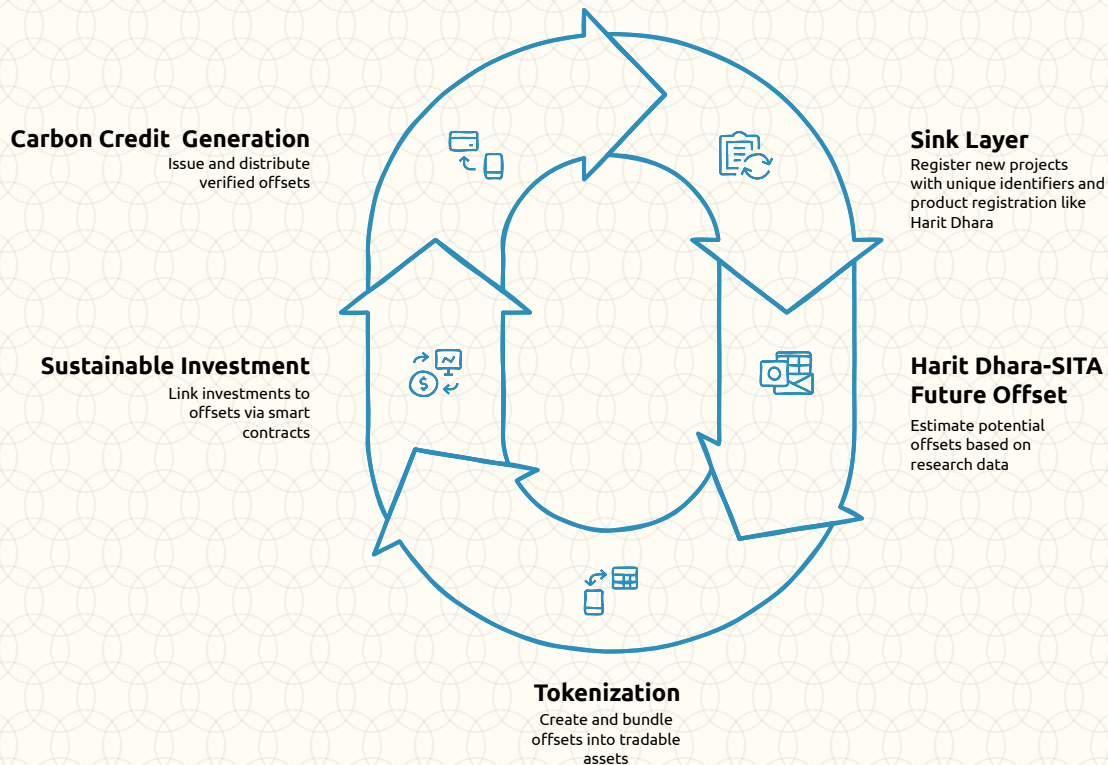
SITA connects lab-proven methane reduction to field-level action and financial recognition — turning emissions savings into high-integrity, traceable climate assets.

SITA turns methane reductions into visible, verifiable, and valuable climate assets.

**Harit Dhara is a research backed feed additive for reducing emissions from livestock*



How SITA works?



Digital Dairy Offset

Digital twin of animal | Location Data | Activity Data Repository | Traceable to Emitter & Investor | Quantified Impact | Social Price | Fair Trade Price | Digitised Emission Reduction

Outcome

Harit Dhara SITA Offsets unlock a climate-positive dairy model—**scalable across 100 million farmers, with the potential to generate 450 million tonnes of carbon offsets in India**, all through a simple, replicable, and cost-effective approach.

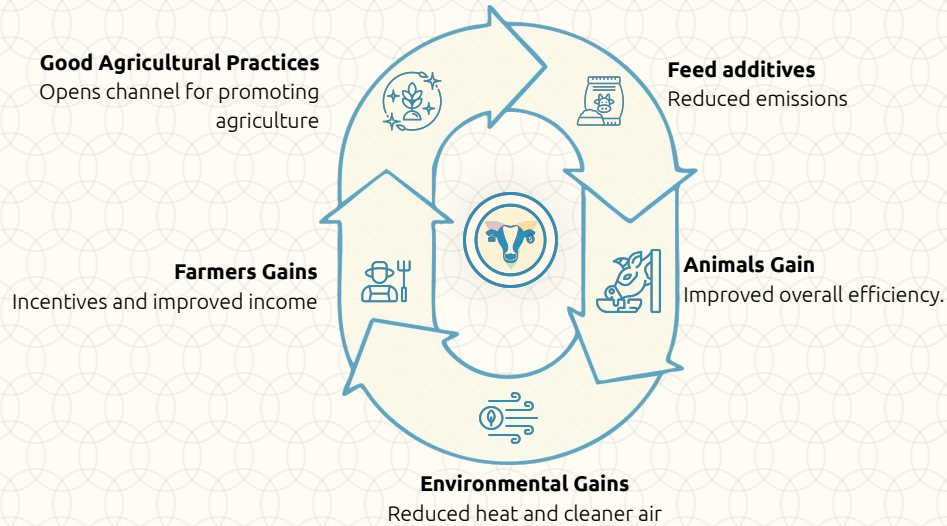


SITA-HD Offset

**Powered by
Smallholder Dairy Farmers**



Indian Dairy Farmer's NetZero Story



Benefits Panel



Improved income, animal productivity improvement, incentivised



Sustainability Goal, Food security



ESG goals, Social impact



MRV



AUDIT

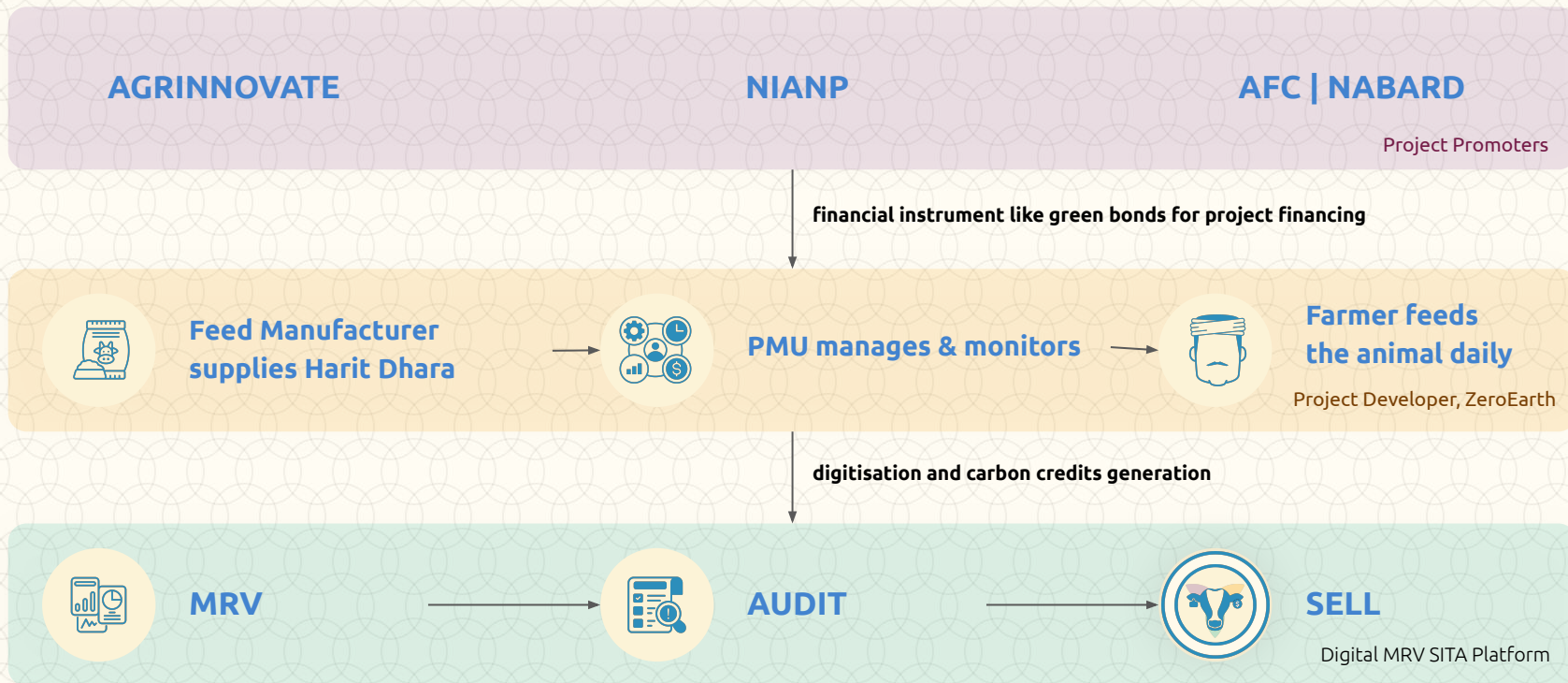


SELL

SITA Platform

How we are doing it ?

Stakeholder Interaction Map (Milk Climate Cooperative)



USP

We're building **one of the first traceable climate asset systems focused on smallholder dairy methane reduction**—developed in India, with the potential to serve climate goals globally.

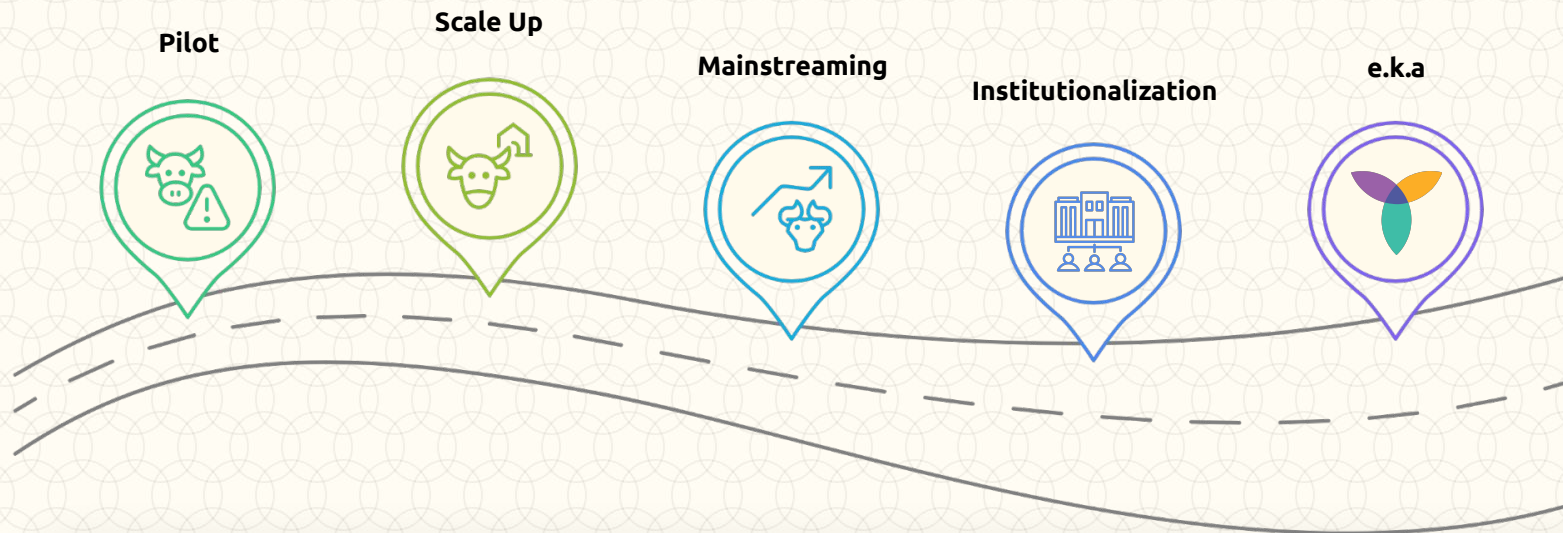


SITA-HD Offset

**First of its kind smallholder
dairy methane climate asset**



MCC Phases



FY	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030
No. of Animals	10,100	13,10,100	43,10,100	>43,10,100	1,00,00,000 (3%)
No. of Offsets	5061	1140237	43,10,100	>43,10,100	1,00,00,000

What we bring to the table

To de-methanise and create **traceable smallholder carbon offsets / carbon credits with continuous auditing**

To include Indian **smallholder dairy farmers** into

Waste to hydrogen -in connection, communication and be the project proponent on waste collection plugged into current field activity with farmers .



What we are looking for

To collaborate with industries involved in waste to hydrogen in technologies like

Dark Fermentation (DF)

Thermochemical Gasification + Water-Gas Shift (TCG)

Supercritical Water Gasification (SCWG)



Thank You