

nila.land

Concept
Risk & Roadmap
Legal
Financials



The impact

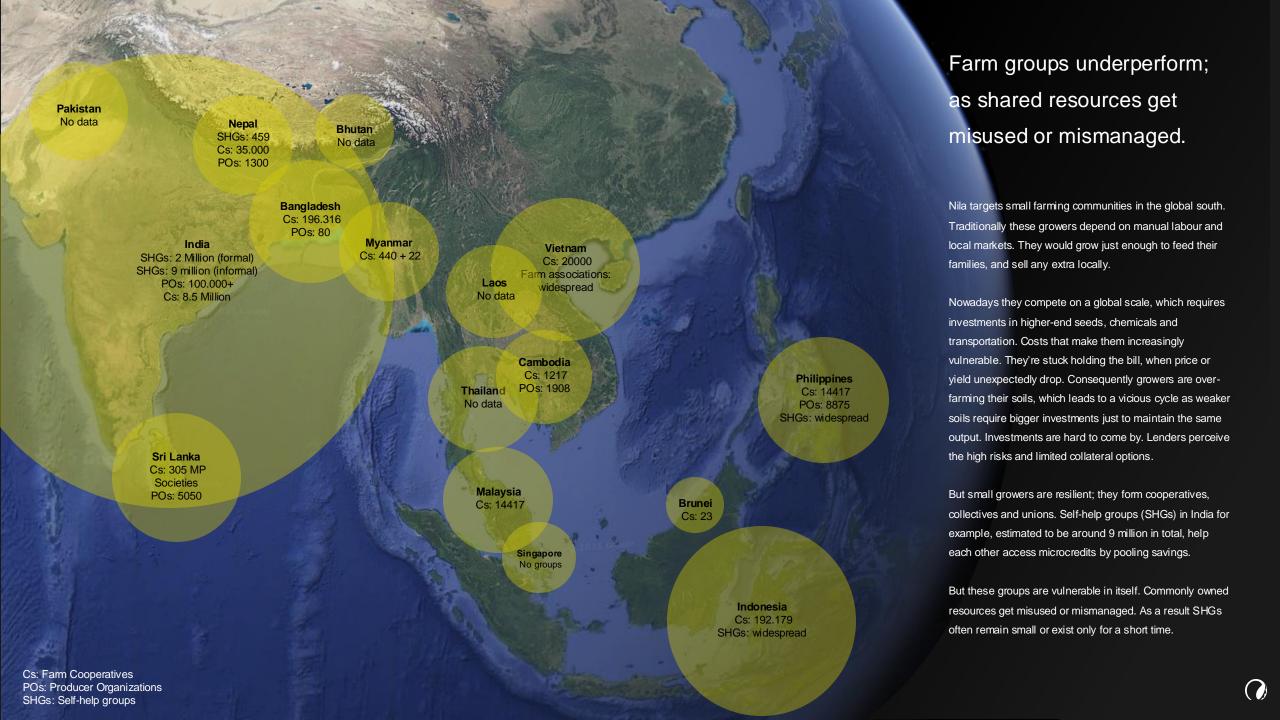
Nila lets small growers scale cooperatively; cutting through decades of entrenched procedures and unfavorable conditions.



The innovation in a nutshell

Nila gives small growers their first liquid assets, enabling them to *trade value* in rules-based, open, digital, and data-driven systems.





Agricultural loans are super pricey mainly because farmers don't have enough liquid assets to offer as collateral.

	Formal Ag-lending USD BILLIONS (2024)			APY (%) **	Delinquencies	Regulated	Source	Informal Lending Share	Workforce (%)*	GDP (%)*
1 Indi	lia	\$ 27	74,38	9 to 25%	4.3%	Heavy	Institutional	Large	46	18
2 Sri	Lanka	\$	0,34	9 to 14%	very high	Low	Foreign	Large	28	8
3 Pak	kistan	\$	4,53	0 to 7%	1.16%	Low	Institutional	Large	42	24
4 Bar	ngladesh	\$	3,36	9% (capped)	8.7%	Low	Microfinance	Very large	38	11
5 Ne	pal	\$	4,13	5 to 6% (subsidized)	5.4%	Low	Commercial	Small	62	24
6 Bhu	utan	\$	2,69	9.5% (capped)	1.79%	Heavy	Institutional	Balanced	50	13
7 My	ranmar	\$	1,80	25 to 100%		Low	Microfinance	Large	70	22
8 Lac	os	\$		36% to 100%	high	Heavy	Microfinance	Very large	70	24
9 Vie	etnam	\$ 3	33,10	4-8% (subsidized)	2.0%	Heavy	Institutional	Balanced	29	12
10 Car	mbodia	\$	8,00	18 to 30%+	high	Low	Commercial	Balanced	31	21
11 Tha	ailand	\$	4,10	4-8% (subsidized)	1.97%	Heavy	Institutional	Small	32	9
12 Ma	laysia	\$	1,15	4-15%+ (subsidized)	low	Heavy	Institutional	Very small	11	7
13 Sin	ngapore	\$		-			-		0	0
14 Ind	lonesia	\$ 3	34,31	6-15%+ (subsidized)	2.74%	Heavy	Institutional	Balanced	28	12
15 Phi	ilippines	\$		9-15%	high	Low	Microfinance	Very large	22	9
16 Bru	unei	\$		-		Very heavy	Gov. Scheme		0	0

^{*} Share of agricultural sector



^{**} We can savely assume that the low-end rates are available to big corporate farms, while small growers limited choice

Certification and documentation are crucial for market access, yet they are often too complicated and expensive for small growers.



Barriers:

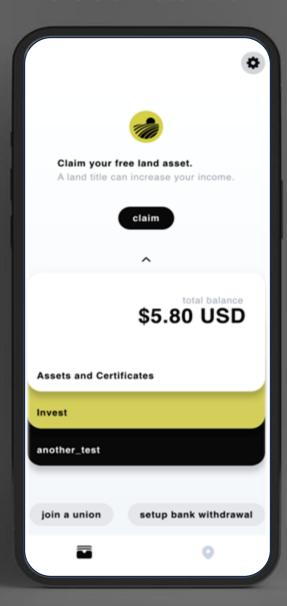
- Documents submitted in English (India)
- Extensive manual record-keeping
- Technical Capacity Gaps
- Volume and Quality requirements
- Unequal bargaining power
- National restrictions

Cost:

- Paperwork
- + Upfront cost to adopt / learn new practices
- ++ Inspection fees, additional remoteness charges
- +++ Potential rejection
- ++++ Renewal costs
- 5 +++++ Fees for clearance, logistics, intermediary services
- ++++++ Price volatility and market risks
- 5 ++++++ Delayed Payments

Nila App

one-click web3 wallet



All-in-one web app:

- Secured Keys (AES-256 encryption)
- Key recovery method
- Wallet with limited tokens
- Available in local currencies (INR)
- Gas subsidies
- No KYC (except when using on/off ramps)
- One-tab field bordering (high accuracy GPS required)
- Local tax compliant (India)
- Phone-Number Sign-Up (OTP)
- Simplified onboarding (WhatsApp link)



Nila tech stack



Type: Contract Templates

Chains: EVM (Polygon)



Type: non-transferable token (SBT)

Amount: unlimited

contract: 0x663DC13009D004aF3654a45f22A215De71633918

Chains: Polygon

Distribution: Verified owners of agricultural lands globally.

Metadata: Property outline and Farm name



Type: multibasket stablecoin

Amount: unlimited

contract: 0x10D11eDD572ccb54D6D59f07521eA071Ed1C326E

Chains: Polygon

Distribution: Grants & offramp swaps



Objective 1: Launch 1000 union contracts

Leaders earn a fee for each commodity they trade.

progress: (1/1000)

Objective 2: Mint 1000000 Land Titles

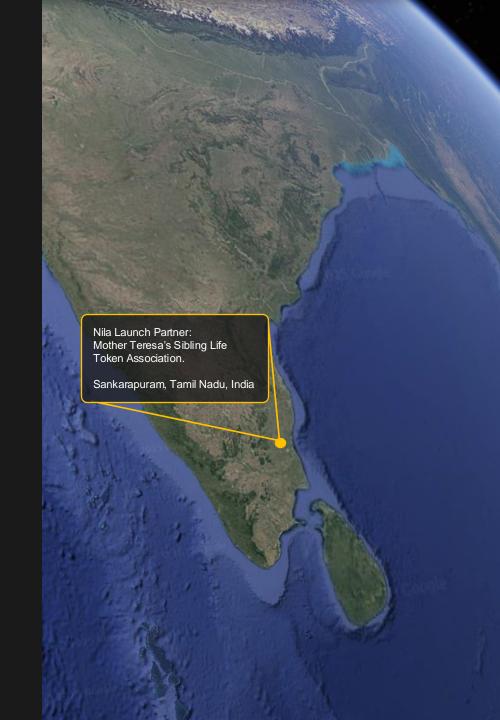
Union members with a title can claim grants and qualify for a loan.

progress: (900/1,000,000)

Objective 3: Lock USD\$ 100 Million in Union Contracts

Collateral to qualify for loans, and earn interest.

progress: (300/100,000,000)



Nila accreditations

	Certificate	Label	Measures	Availability	Application	Cost	Expiration	Proof (remotely observed, testimonials)
1	Nila grants		Loyalty	Limited	staking	free	Exponential decay	transaction records
2	Protected Origin (PDO)		Location	Crop spec.	none	1 Nila	1 year	land title location
3	Food quality	TO STATE OF THE ST	Freshness & Quality	Regional	form	1 Nila	1 year	harvest dates, phenological growth patterns and peer signatures
4	Sustainability	STATE OF	Environmentally conscious	Regional	form	5 Nila		soil health and moisture fluctuations, phenological growth patterns and peer signatures
5	Fair trade		Working conditions	Regional	form	1 Nila	1 year	peer signatures
6	Organic	The Proof	Ecological conditions	Regional	form	10 Nila	3 monthly	soil health, biosphere indicators, neighbour data, peer signatures

^{*} None of the credentials require field visits. All proof is collected using a mix of asset movement (on-chain), transaction patterns, remote sensing data and affidavits signed digitally in the Nila App.



Digital credit unions

We are building something real. It takes time

Issues

Misuse of funds by members or leaders

Depleted soils make many members non-eligible for a loan.

Limited input/offset possibilities

Members and leaders have no liquid assets

Groupthink lead to trust issues and favoritism.

Local contributions are not enough to cover costs.

Solutions

Freeze collateral if remote data does not show any activity

Union resource pools to stimulate regenerative practices; notill, crop rotation, (green) manure. Use of alternative inputs.

Grants & Discounts (early network incentives)

Fund selection is data dependend (cap rate & farm score)

Allow external stablecoin investments in unions.

Contracts autonomously execute payouts

Demand is declared before fund acceptance*

Parametric insurance

Land titles Cap rate (operating income)

Collectibles and other digital assets.

Use option trading to hedge price volatility

Allow external fungible tokens investments attached to UMA option hedge.

3th party export or domestic RWA food tokens

- Basic template contracts do not force traders to buy the supply.
- Not yet implemented



NIN tokens

Digital asset with price stability but elastic supply

Nila introduces a NIN ERC20 token that is pegged to basket of other digital and fiat tokens.

NIN is primarily backed by Indian Rupees on an auditable fiat bank account. At first NIN maintain a 1:1 peg, but as multiple asset become available, a part of the peg will be changed to include Titles, Food commodity tokens or anything else the community decides.

A free peg is important to increase financial efficiency to overcome the cyclical nature of agri-finance. Food tokens for example could be used as collateral once our remote sensing nodes detect a new cultivation at a specific stage. This could free up liquidity that can be used by others to overcome the scarce liquidity period.

From a 1:1 peg to a basket of tokens to improve liquidity cycles.

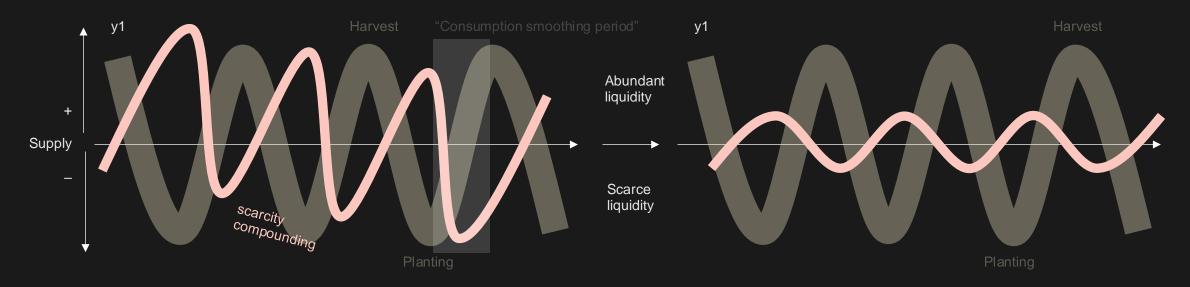


^{*} Primarily focused on 3th party RWA assets.



Pre-harvest liquidity

Flatten the liquidity cycle in agriculture



Supply follows seasonality in cropping, as finance demands increases during the season.

Nila's stablecoins are designed to flatten liquidity cycles in agriculture. This is a prominent issue as income arrives only once or twice a year. Before harvest, when the capital needs is highest, farmers do what is called 'consumption smoothing'.

In multi-season regions, this effect often compounds as the next seeds and prework has to be financed.

This effect is the origin of a lot of government guarantee and subsidy schemes. Financial examples are direct cash transfers, minimum pricing and subsidized insurance, these interventions can distort markets substantially.

Nila targets the scarcity by temporarily reducing the peg pre-harvest, and repegging when liquidity is abundant.

It allows farmers to take up additional funds for very low interest rates, if the crops monitored are healthy. This is viable as the risk period (to harvest) at these moments is drastically reduced.

Union contracts are programmed to dissolve these loans first.



User journey

A union leaders' journey

Get a digital wallet and buy some coins. Then go to Nila.land and create a contract. Share a sign-up link to members.

Bootstrap your union with grants, discounts and trade partnerships. Build the liquidity to accept grow challenges.

List demands from traders; provide funding first, additional services later.

Earn a fee on each traded commodity

A farmers' journey

Generate a land title of a property with the Nila.land app. Join a local union begin investing in neighboring farms.

Wait to be selected yourself. Increase selection chances by lowering P/E rates and by improving soil quality.

Accept funds to grow crops on selected fields. Make sure the crops are delivered before a specific date, then pay back the loan.

Repeat the farm/investment cycle



Union FAQ

In what currency is debt nominated?

In a local stable coin. Union members that use the Nila app can hold Nila Tokens or USDC. Either one can be used to invest and earn interest. Contracts swap the token with a country specific stable coin when deposited. Contracts then swap the stable back to Nila when the loan is dissolved. Any interest is paid in Nila, directly to the investor. This includes investments done in USDC.

I need a land title to be eligible for a loan, how do I get one?

When you use the Nila App and walk to your fields, you can quickly create your own unique land title by simply requesting the border of each field. Select them carefully as detection of fraud will freeze all your assets. It often takes several tries. If you don't have data or a strong GPS connection, go try to get either one, if it fails we allow you to manually pan to a field center. Be aware, field verification will be more strict.

Why would I hold Nila tokens?

Nila tokens give holders strong benefits. Holders are entitled to token grants. Holders are more likely to get selected for loan (not applicable for USDC holders). Holders also share in any profits made by the union contract (if the leader decides to distribute these). Certificates are paid with Nila. Finally Nila holders are de facto network owners, we strongly support services build on-top or with Nila assets to reward Nila holders for their contributions.

What remote-sensing data is used and how is it extracted.

Nila uses satellite data to rank agricultural properties and verify ownership. We also build proprietary software to border fields, estimate yields, soil health and moisture metrics. For these inputs Nila uses Sentinel1 and Sentinel2 data from the European Space Agency.

The algorithms are consistent and predictable in their output, but most important they are objective and rational, within an acceptable margin if error.

Why would I join a union?

Unions are important for Nila. Only Union members can invest or receive a loan. When you do not have any debt, you can change Unions any time. Any investment and interest will be paid out to you, you only cannot claim the interest periodically.

What other services can use Nila assets and the network

Nila assets are valuable as real-world data is captured verifiably and with high stakes. Public use is permitted, but to receive any support or direct user access, reciprocal efforts should be coded-into any services. We think token rewards or profit sharing with our network.



Risks risk impact mitigation

	Nila initial phase						Nila Maturity phase			
Markets / Financial	farmland too dispersed	high oracle	cost	regional	focus					
	insufficient APY on farmland token sales failu			ıres	speculation 8	grants		yield fron	n apps build on Nila	
	distrust in digital tools low app uptake		ake	direct \$\$ feedback save in USD			peer review			
	distrust in newcomers	low app uptake	So	cial share/	dissemination (V	Vhatsapp	links)		Influential partners	
	Too low farmland	value for invest.	no farm	growth	focus on low	income o	countries	Increas	e min. token buyback policy	У
	refinance service doesn't	ential	no farm growth			grants & subsidies				
		tracking cost to	o high	sho	ort runway	region	nal focus	ir	ncrease contract fees	
			disrega	rd once all	vested tokens b	urned	farmer defau	ılts focu	s on diversification of portfo	olios
Operational	social distance of crypto a	and farm communit	ies	low app up	take Re	ewards fo	r 'Bridgers' (cı	ypto urban	ites orig. from rural villages	<u>\$)</u>
	cumbersome farm registr	ation low app	uptake	Better	UX (single point	field bor	ders)	peer apprai	isal discovery (others got \$)
	core team focus on farme	ers no investor	s to buy to	okens		Men	neification and	d communit	ty building	
		project with	a larger g	pal – no qu	uick rich scheme	long	duration proj	ect cal	ll yourself a bear market wir	nner
				no or depa	rting investors o	n L1 chair	n deserti	fication	multi-chain approach	
Regulatory				high lobb	ying power of in	cumbents	regulator	y pressure	increased decentraliza	ition
			١	agricultur	e as 'cradle of id	eology'	regulatory p	oressure	politicians share in prof	its

Growth strategy

The Global South

Super unions:

Support Legal, Partnerships, \$\$ Focus on:

Best UX
Best storytelling
Best dev support

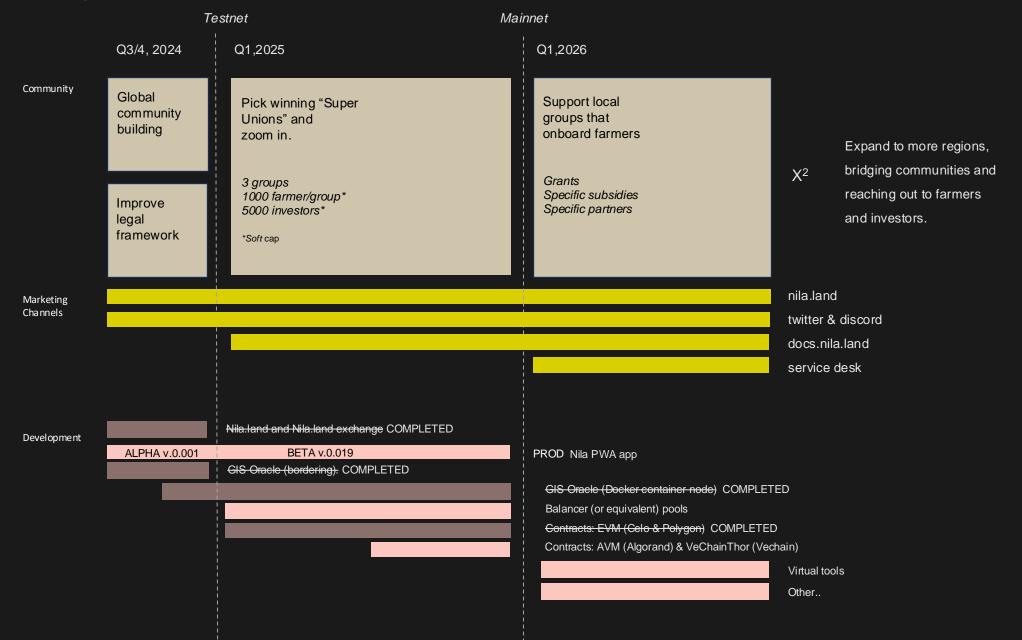
Nila focus is on farm groups in the Global South. But anyone can create and use Nila contracts without permission. Members who sign up are eligible to receive a small grant. Unions that make great leaps; in minted land titles, grants and commodities traded, get extensive support, both financial and marketing/sales.

We always reward participation and make opportunity tangible.

"Other farmers in this area got \$\$\$"



Roadmap





Organic growth, relentless focus, originality, genuine and *no, we don't sell land*.

"Finally web3 makes real-world impact."



Financials – *income statement*

Chitta vs. Nila income and profits

	Chitta Budget 2023	Nila Actual 2024	Nila Forecast 2025
	\$ 220.000,-	\$20,000,-	\$150k
Gross profit	\$220.000,-	\$19.450,-	\$148.500,-
%	100%	97.25%	99%
Expenses:			
Community building	0k	4k	95k
Product & Technology	25k	12.95k	26k
Crypto security	0k	0k	5k
Sales and Lobbying	12k	0k	3k
Legal	0k	1k	3k
Other expenses	1.5k	1.5k	5k
Net revenue	\$181.500,-	\$0,-	\$11.500,-
%	82.5%	0%	7.74%



Financials – *revenue channels*

Chitta revenue channels. vs. Nila revenue potential

