

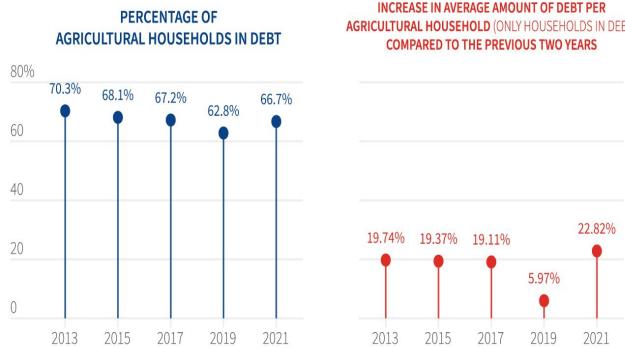
Leveraging Ethereum for Sustainable Solutions in South East Asia

Gesa Schneider

Scholar, Ethereum Foundation

Thailand's farm households face debt burden

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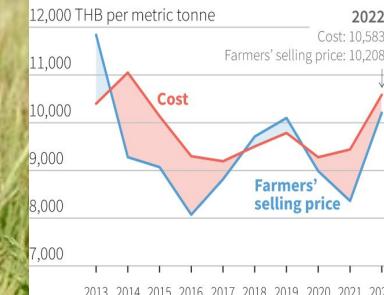
Source: Thailand's National Statistics Office
Reuters, Sept. 13, 2023 | By Pasit Kongkunkornkul



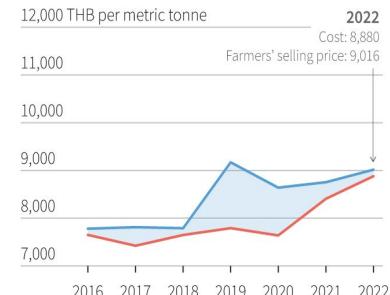
Unstable income for Thai rice farmers

Thai farmers have made positive returns from their first crop of rice only in three of the last 10 years. But the second crop has been profitable every year.

FIRST CROP



SECOND CROP



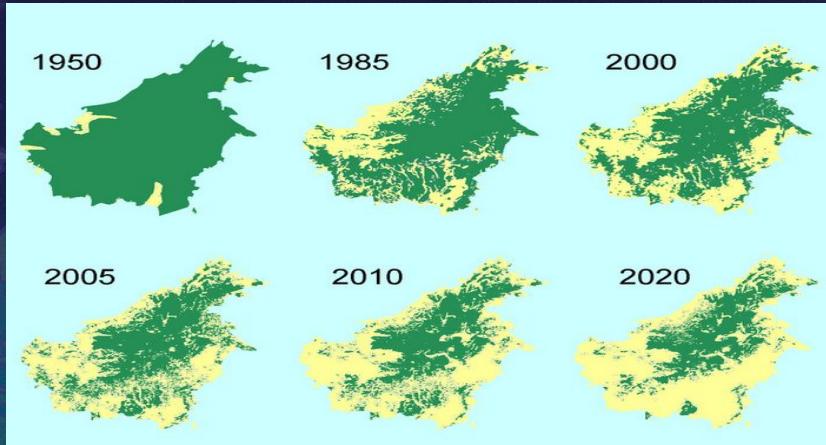
Note: Average price from the types of rice.

Source: Thailand's Office of Agricultural Economics

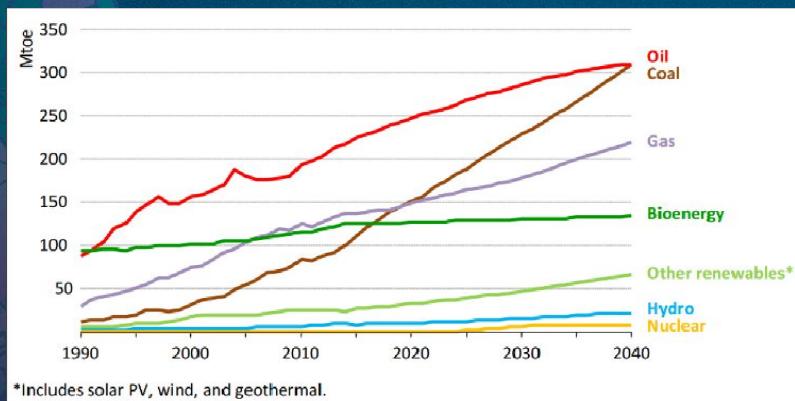
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Deforestation in Borneo



Energy Demand in SEA



The Stakes Are High

1. 300M people in SEA face displacement from rising seas by 2050
2. 40% of SEA's forests lost in past 40 years
3. Energy demand projected to double by 2040







Coordination failures

Humanity faces global coordination failures that threaten our future. These include climate change, insecure digital infrastructure, misinformation, and economic inequality.

Issues that could be solved through better collective decision-making.



Cryptoeconomics

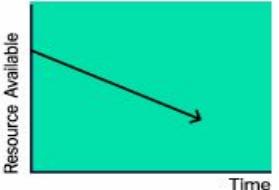
We need transparent, secure, and accessible systems for fair, trustworthy decisions that support sustainability.

Crypto can help achieve this.

The key question: How do we design cryptoeconomic systems for a sustainable future?

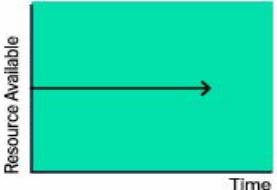


Regenerative goes beyond Sustainable



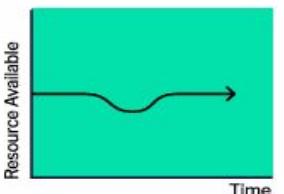
Extractive

The resource is depleted and the system loses capacity over time.



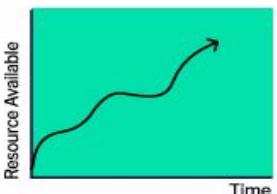
Sustainable

The resource availability is not depleted over time and the system is steady.



Resilient

The system is able to recover from a period of shock.



Regenerative

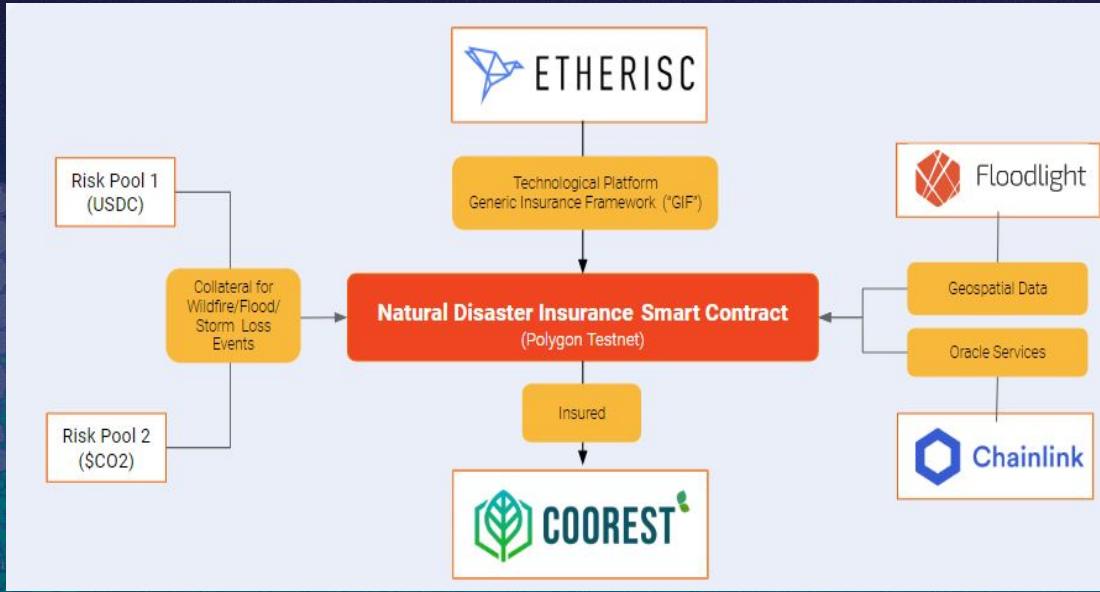
The resources are regenerated & builds capacity sustainably, while being resilient to shocks.

Regenerative **(ReFi)** as an alternative financial system that promotes and restores environmental, social, and financial stability along with monetary gains.

* "GREENPILLED," Kevin Owocki



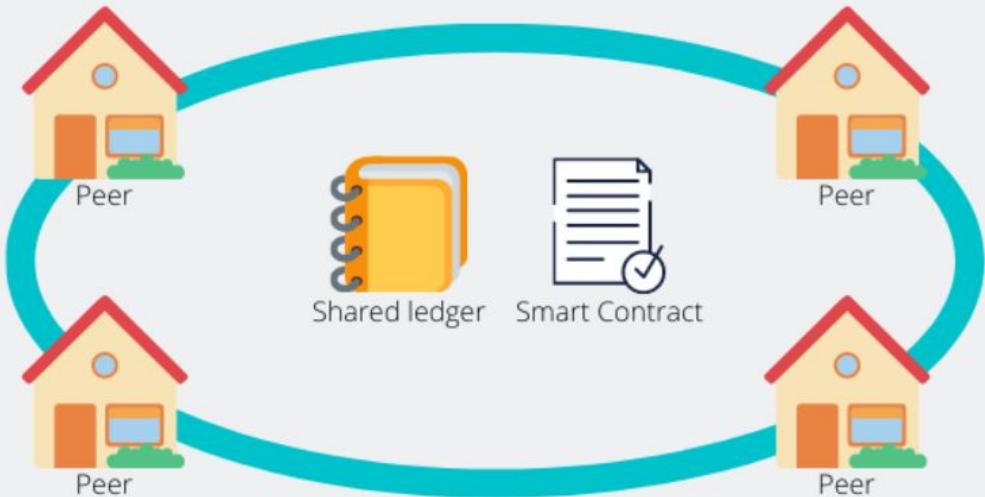
Weather Insurances Against Natural Disasters



Tokenized Insurance with Smart Contracts:

- Platforms like Etherisc can offer parametric insurance to vulnerable communities.
- Smart contracts trigger instant payouts when specific climate conditions are met (e.g., sea level rise).

Renewable Energy Trading



Decentralized Energy Markets (Powerledger/ Arkreem)

- Platforms enable peer-to-peer energy trading.
- Households with solar panels can sell excess energy directly to others.

ReFi Projects in SEA

ReFi
PHANGAN



Exploring regenerative finance
to transform island economy

Facing global problems locally
with ReFi DAO support

Being a welcoming community on the path
of web3 for good, onboarding individuals and
NGOs to crypto mechanisms of supporting
public goods



arkreen

ECOSYNTHESIX

OP

Mint

1st impact NFT collection Clean Phangan

A Testament to Environmental impact with Clean Phangan

We're excited to unveil a groundbreaking series of Impact NFTs, designed to showcase and support the environmental efforts of Clean Phangan. This collection is not just a testament to digital innovation but a beacon of real-world change, representing our dedication to healing our planet.

Mint



UNCHAINED ELEPHANTS



Happy
Ground
Co., Ltd.

Ethereum: Powering Regenerative Systems

Harnessing blockchain technology to create systems that regenerate resources, build sustainable capacity, and remain resilient in the face of global challenges.



Resource Regeneration

Smart contracts automatically allocate yields to environmental restoration and community development, creating a cycle of continuous regeneration.



Sustainable Capacity

Scalable infrastructure and collaborative DAOs foster knowledge sharing and efficient resource use, enabling sustainable growth of human and natural capital.

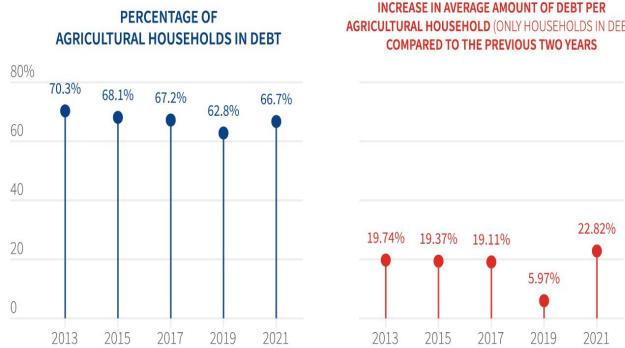


Shock Resilience

Decentralized systems and automated risk management provide robust defenses against environmental and economic shocks, ensuring long-term stability.

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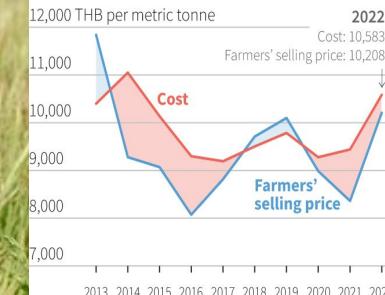
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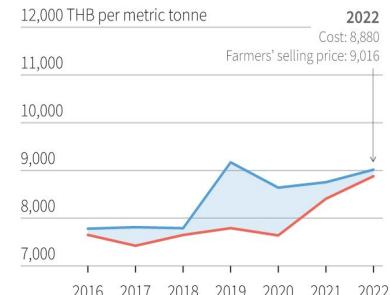
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Ethereum Solutions for Somsak's farm

Weather Insurance



Smart Contract Insurance

Automatic payouts based on weather data. No claims process needed. Somsak is protected against unpredictable weather affecting his crops.

Fair Market Access



Direct to Buyer Marketplace

List harvests directly on the Ethereum marketplace. Transparent pricing and secure payments. Somsak captures more value without middlemen.

Traceability for Premium Pricing



Verified Quality, Better Prices

Each batch of rice gets a unique blockchain identifier. Growing conditions and practices are securely recorded. Somsak can prove quality and origin, commanding premium prices.

Solar Energy Income



Power Ledger P2P Energy Trading

Install solar panels and sell excess energy. Trade directly with neighbors or back to the grid. Somsak gains an additional income stream and reduces energy costs.



Why build now?

SEA Leads Global
Crypto Adoption

Emerging Regulatory
Clarity

Government Green
Tech Support

Creates

Enables

First Mover
Advantage

Accelerates

Results in

Market
Opportunity

Connect and Learn More



@G3saVV



@G3saVV



@G3saVV



Together, we can build the regenerative future we deserve!