



SEED
promoting entrepreneurship
for sustainable development

Founding Partners



SEED PRACTITIONER LABS CLIMATE FINANCE

Prototyping financial products to drive climate-smart innovation

June – November 2018 | Bangkok, Thailand

SEED Practitioner Labs Climate Finance supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety

SEED Practitioner Labs Climate Finance

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SEED Practitioner Labs Climate Finance

Facilitating Climate Finance Product Development

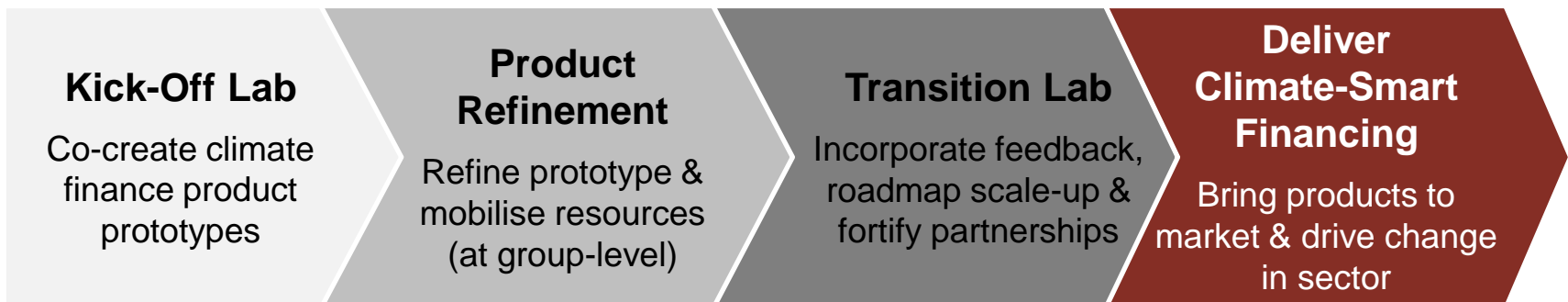


The 2018 SEED Practitioner Labs Climate Finance series in India, Thailand and Uganda brought together around **200 leading investors, banks, development finance institutions, foundations, governments, innovators and intermediaries** to jointly prototype tangible solutions to major climate finance challenges.

Lab practitioners, facilitated by *SEED Prototyping Tools*, turned challenges into solutions as they designed and mobilised support for robust prototypes that innovate the next generation of climate finance products for their target markets.



From Kick-Off to Market:



Practitioner Lab Climate Finance Thailand Impressions



Thailand – Kick-Off Lab 26 June 2018, Transition Lab 29 November 2018



Practitioner Lab Climate Finance Thailand

Bringing together stakeholders from over 40 organisations



Product Development Hosts



Lab Practitioners



Practitioner Lab Climate Finance Thailand

Developing innovative climate finance products



Turning challenges



... into new climate finance solutions



Financing conservation projects



Global Mangrove Trust – A Blockchain-Based Conservation Finance Initiative, hosted by Global Mangrove Trust with KX



Supporting decentralised renewable energy uptake



Last of Ours – A Blockchain-Based Conservation Fund, hosted by Last of Ours with KX



Strengthening climate-resilient agriculture through irrigation systems



Blockchain for Automation of Carbon Credit Monitoring, Reporting and Verification, hosted by South Pole



Smart-Irrigation-as-a-Service Financing Vehicle, hosted by RCC UNFCC/IGES with UNDP



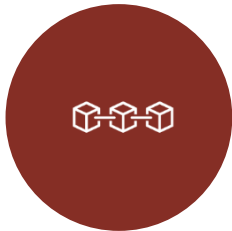
Product synopsis

Offers is a digital platform based on the blockchain that enables households and businesses around the world to undertake direct, transparent and efficient support for community-based mangrove forest projects. The Global Mangrove Trust:

Provides a peer-to-peer-platform for global philanthropists

Utilizes the blockchain to unlock resources for mangrove conservation





Enables radial transparency & efficiency through the blockchain

- Transfer occurs immediately, at near zero cost
- Public Ledger gives everyone access to information
- Impact to carbon, biodiversity and livelihoods is measured and verified by combining mobile-based and satellite technologies



Makes sustainability impact tangible via geo-intelligent tokens

- GRO-Coin and Planter Tokens linked to specific parcels of mangrove forest
- Tracing impact sponsored by individual coin-holdings, allowing to offset individual carbon footprints



Empowers social premiums and makes eco heroism fun through gamified philanthropy

- Collective experience as peer-to-peer philanthropists
- Global community supporting eco heroism

The Global Mangrove Trust connects global supporters of mangrove forestry with local community-scale mangrove projects.

Community Mangrove Projects (CMPs):

LOCAL

- GMT's Advisory Board reviews and approves CMP
- **Regional Focus:** Singapore & Myanmar → Partnerships and scalability of the technology allow for global implementation of the idea

Grower Platform:

GLOBAL

- Global sponsors of mangrove forestry ranging from **individual** growers to **corporate** growers and **employee** growers

Enable effective climate change mitigation through mangrove forestry

- **Carbon sequestration:** 1 ton CO² per tree (over 25 years) and up to 5 times more CO² than terrestrial trees
- Financial support to **community-scale mangrove forestry** that is not able to access global carbon markets

Enhance coastal resilience through mangrove forestry

- **Buffer terrestrial environments** against natural disasters and sea level rise
- **Support vulnerable coastal communities**

supports the ecosystem and catalyses local sustainable development

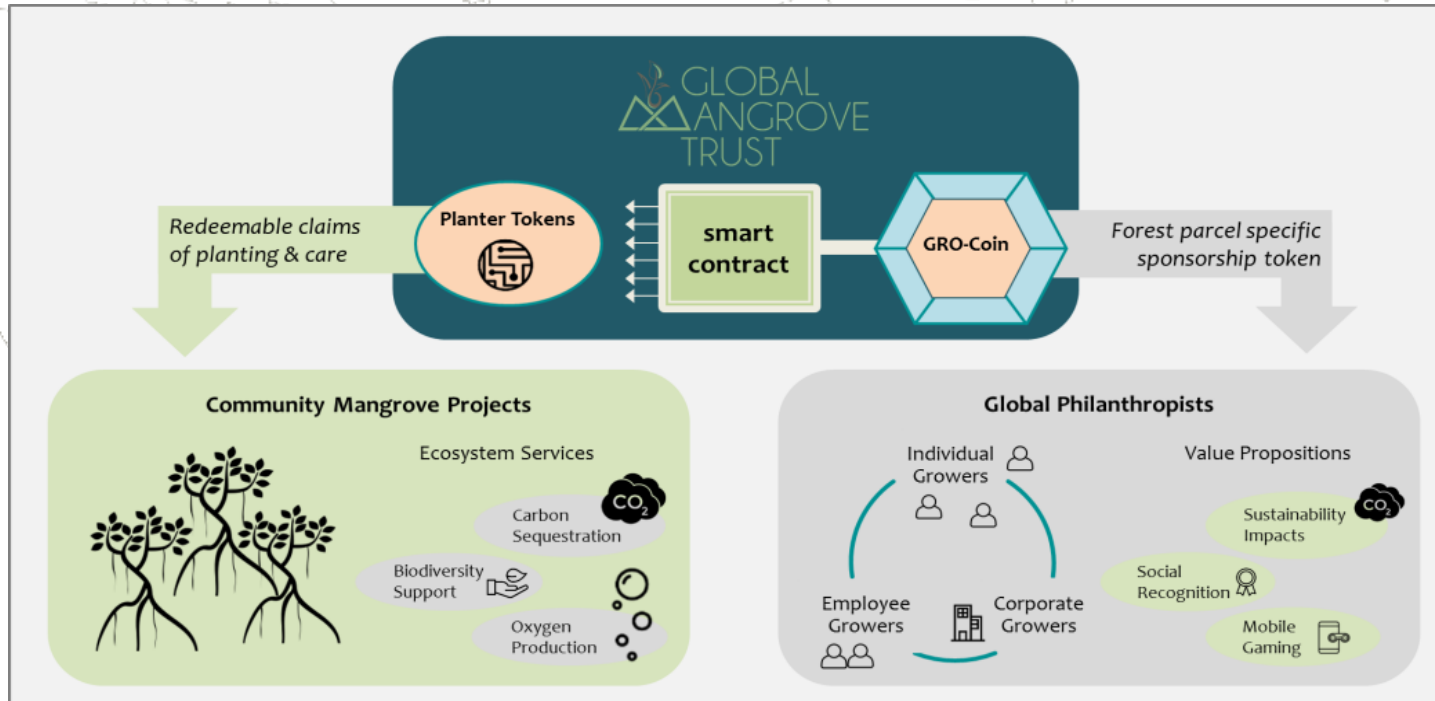
- **10x increase in biodiversity** and interconnecting wildlife corridors
- **Food security** through 50% boosts to fish stocks
- Secondary markets and **livelihoods**

Global Mangrove Trust

Utilizing the blockchain to direct funds to mangrove conservation



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Last of Ours

Product development hosted by Last of Ours with KX

Product synopsis

Offers a platform for wildlife conservation initiatives to raise awareness and fund their projects.
Last of Ours:

brings people together to protect our planet's endangered species & habitats

creates a shared value between social entertainment & real-world impact



 Last of Ours



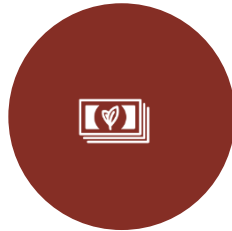
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Last of Ours

Innovative Characteristics



Unlike other donation platforms, Last of Ours is **creating value via entertainment**, not altruism, in a gaming platform



Unlike most blockchain projects Last of Ours is a **driven social enterprise with a sustainable revenue model**, not another ICO



Uniquely, **donation transparency** will be end-to-end, from donor's pockets to last mile conservationists, scientists & rangers



 Last of Ours

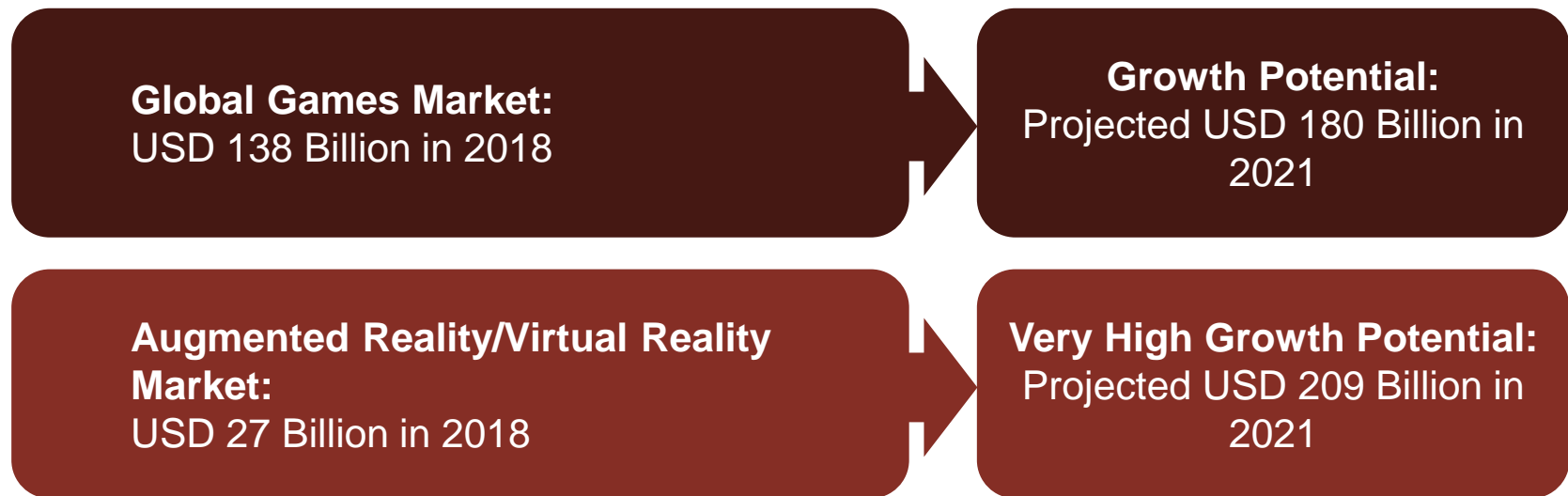


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Last of Ours Target Market



Last of Ours revolutionizes access to donations for wildlife conservation by tapping into the high-growth market of augmented and virtual reality.



The Last of Ours platform will increase and accelerate the access to donations for non-profits helping to protect the planet's endangered species and natural zones.

Raise Awareness & Funds for Wildlife Conservation

- **Non-profits can raise funds**
- **Communicate their needs**
- **Get feedback** from international experts

Reduce Time To Money

- Non-profits **don't have to write long proposals**
- **Donations** reach non-profits **faster**
- **Automating processes** through the use of smart contracts

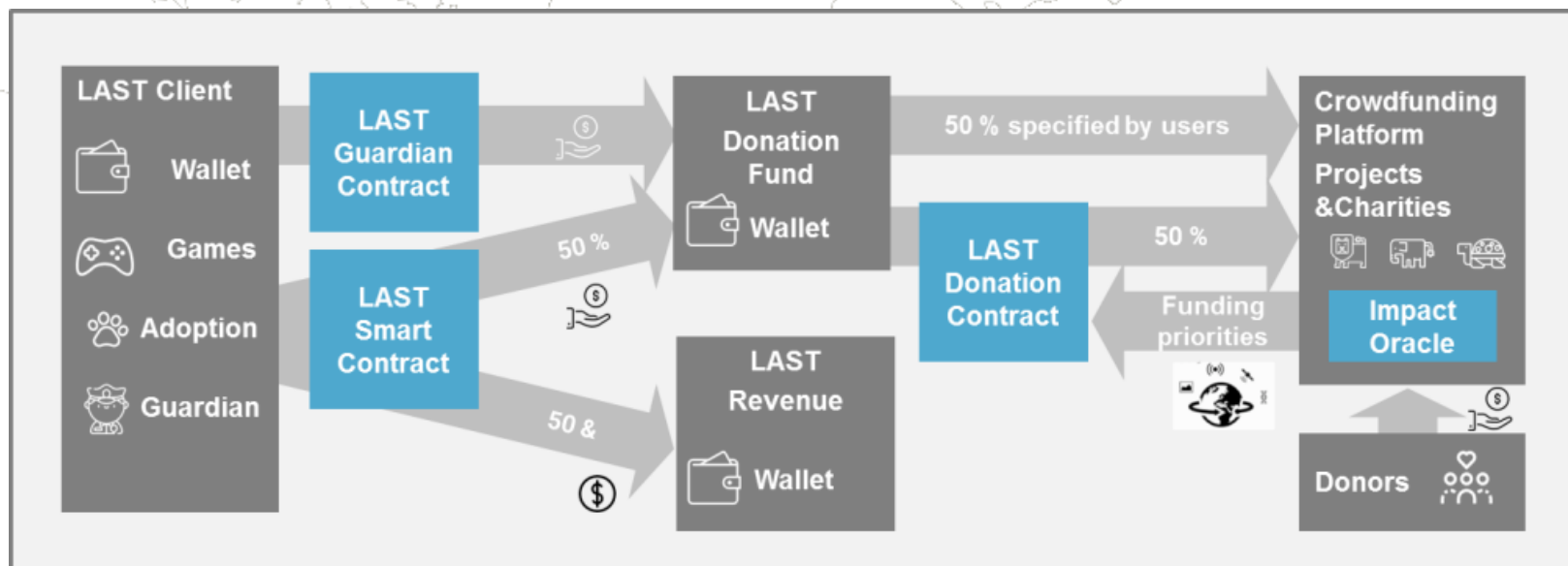
Improve Transparency

- Blockchain paves the way for a transparent **record of money** going in and out of a non-profit
- **Reduced transaction costs** through disintermediation
- **Impact reporting via the platform**



Last of Ours

Utilizing the blockchain to crowdfund donations for wildlife conservation **SEED**



Blockchain for Automation of Carbon Credit MRV

Product development hosted by South Pole

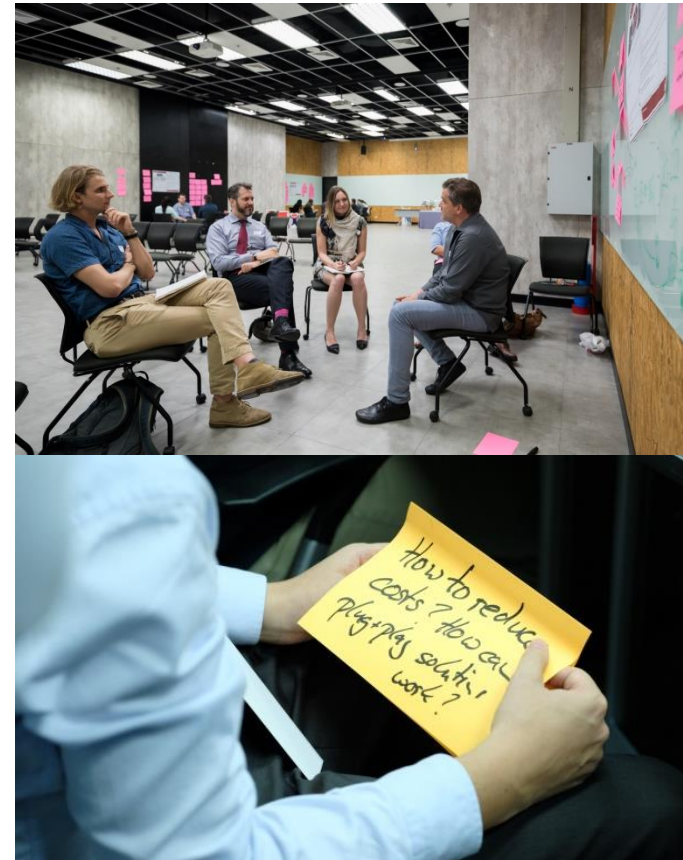


Product synopsis

Offers an application on the IXO impact blockchain that seeks to streamline and accelerate the data verification processes for generating, certifying and trading carbon credits. The project:

uses the blockchain to reduce MRV costs

enables automated issuance of carbon credits



Blockchain for Automation of Carbon Credit MRV

Innovative Characteristics



Using the blockchain to integrate verification into monitoring and reporting allows to:



Reduce monitoring, reporting and verification (MRV) costs

- Potential to reduce MRV costs 10x in comparison to conventional practices
- Scalability of climate-change mitigation projects on a project, entity, sector and national level



Maximise efficiency of carbon credit issuance

- Enables real-time tracking and attribution of greenhouse gas inventories
- Allows for automated issuance of carbon credits



Provide transparency, trust and credibility

- Transparent data management and storage through the decentralized approach of the blockchain
- Registration under the Gold Standard, the benchmark standard for climate and development projects adding further credibility



Blockchain for Automation of Carbon Credit MRV

Target Market of Pilot Project



The pilot project has the aim to auto-verify data and make the resulting impact tangible at the moment it is physically achieved. The project has been selected as one of **Asia's top 10 blockchain projects**.

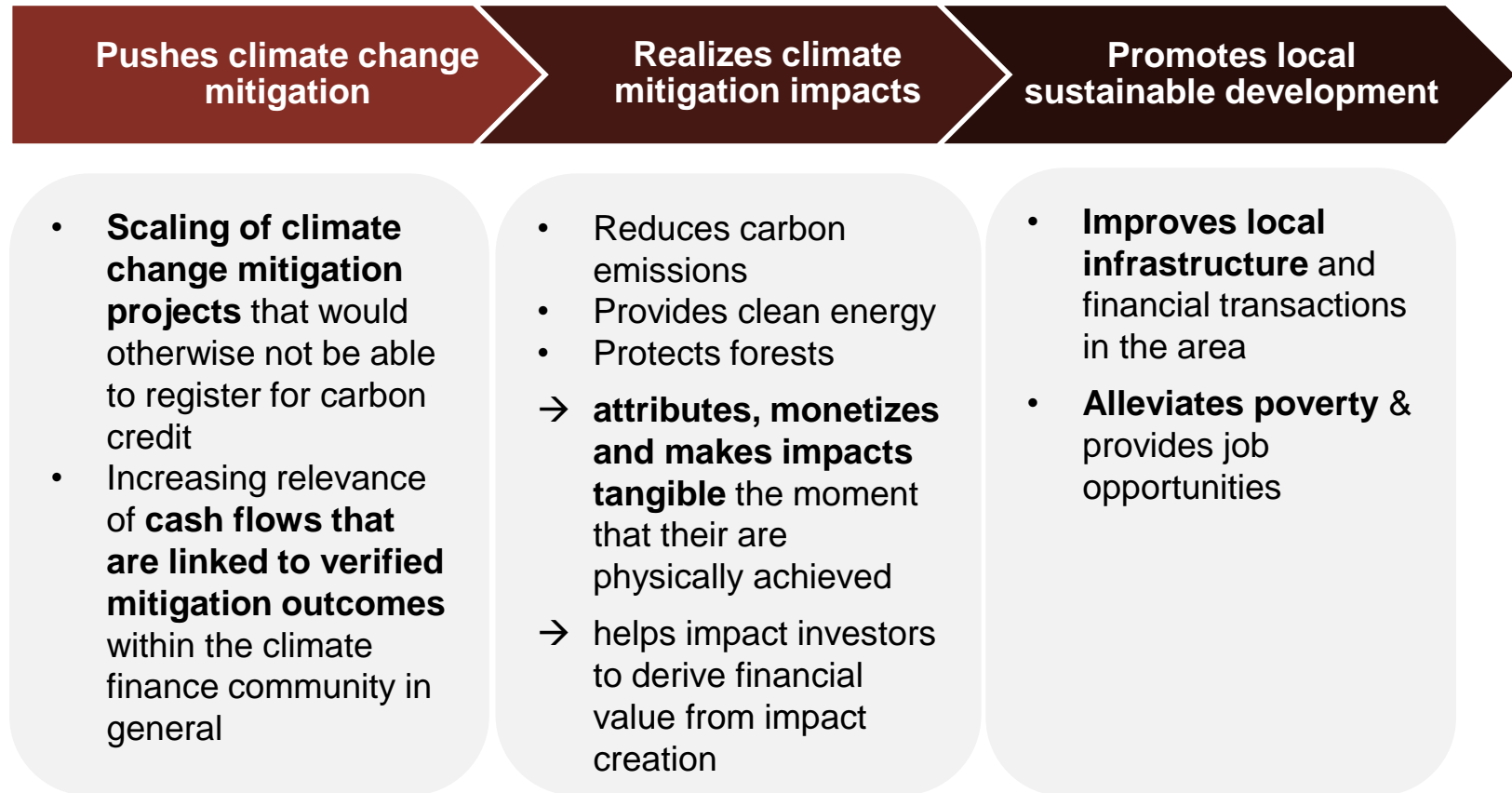


Blockchain for Automation of Carbon Credit MRV

Impact Potential

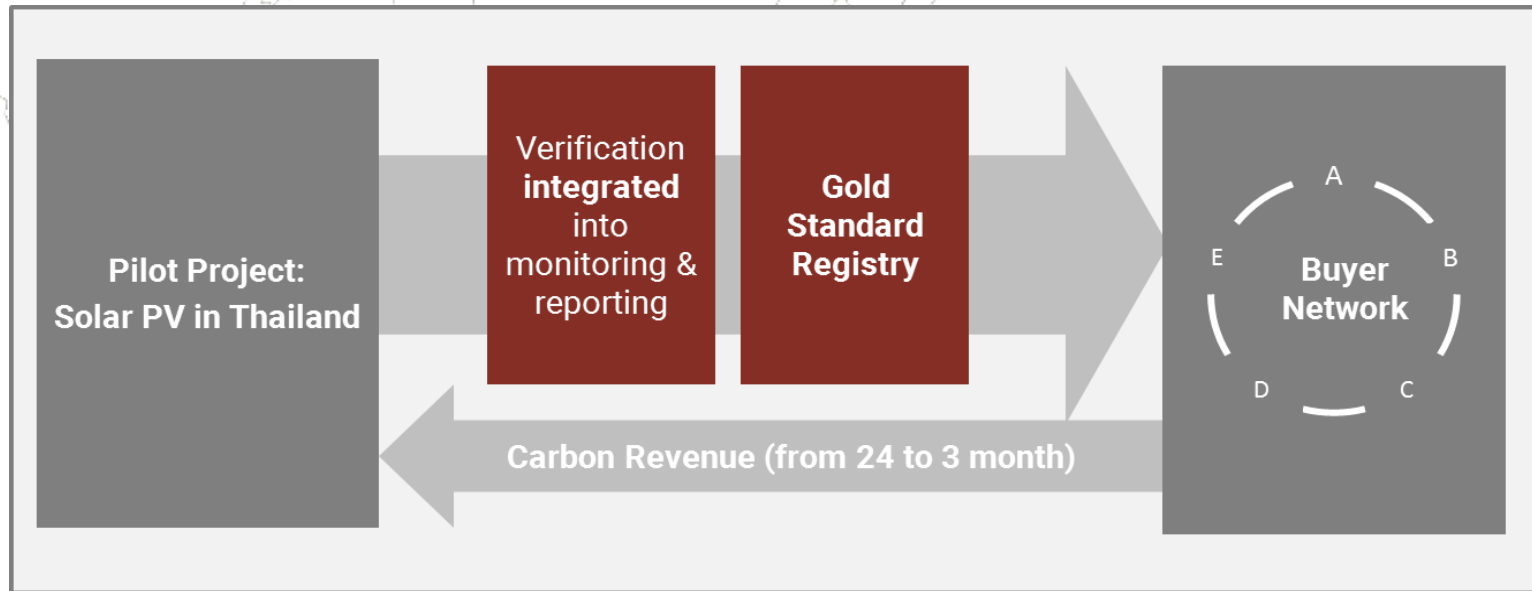


The *Blockchain for Automation of Carbon Credit MRV* paves the way for large-scale climate change mitigation impact.



Blockchain for Automation of Carbon Credit MRV

Boosting the potential of the carbon market



Smart-Irrigation-as-a-Service Financing Vehicle

Product development hosted by RCC UNFCCC/IGES with UNDP



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Product synopsis

Directs deal flow to climate-smart irrigation systems to improve productivity and climate adaptation capacities of small-scale agribusinesses. The vehicle:

provides microfinance alongside technical assistance

aggregates small-holder farmers at the village level



Smart-Irrigation-as-a-Service Financing Vehicle

Innovative Characteristics



Offers an all-in-one solution for small-scale agribusinesses

- Provides a package of both microfinance & technical assistance for smallholder agribusinesses and village cooperatives
- Concessional funding and blended financing minimizes the financing risk



Provides smart-irrigation as a service for small-holder farmers

- Offers smart-irrigation technology as a service as you go
- Overcomes the challenge to buy investment-heavy equipment upfront
- Bundles climate-smart agriculture solutions with increased productivity and well-being



Aggregates small-holder farmers at the village level

- Provide finance solutions to farmer organisations at the village level
- Allows for a high impact potential through large-level schemes

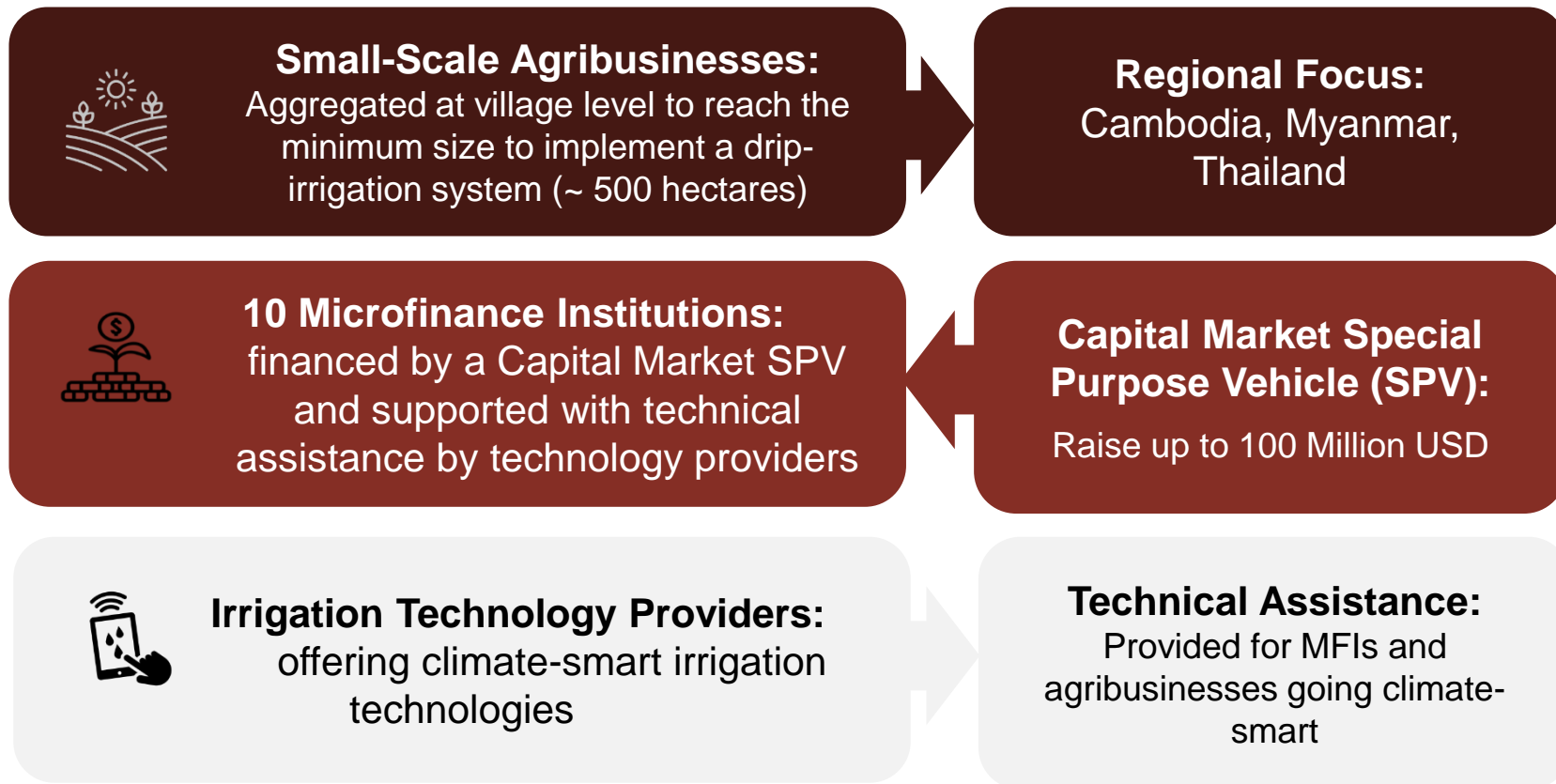


Smart-Irrigation-as-a-Service Financing Vehicle

Target Market



The Smart-Irrigation-as-a-Service Financing Vehicle will connect small-scale agribusinesses with microfinance institutions and irrigation technology providers.

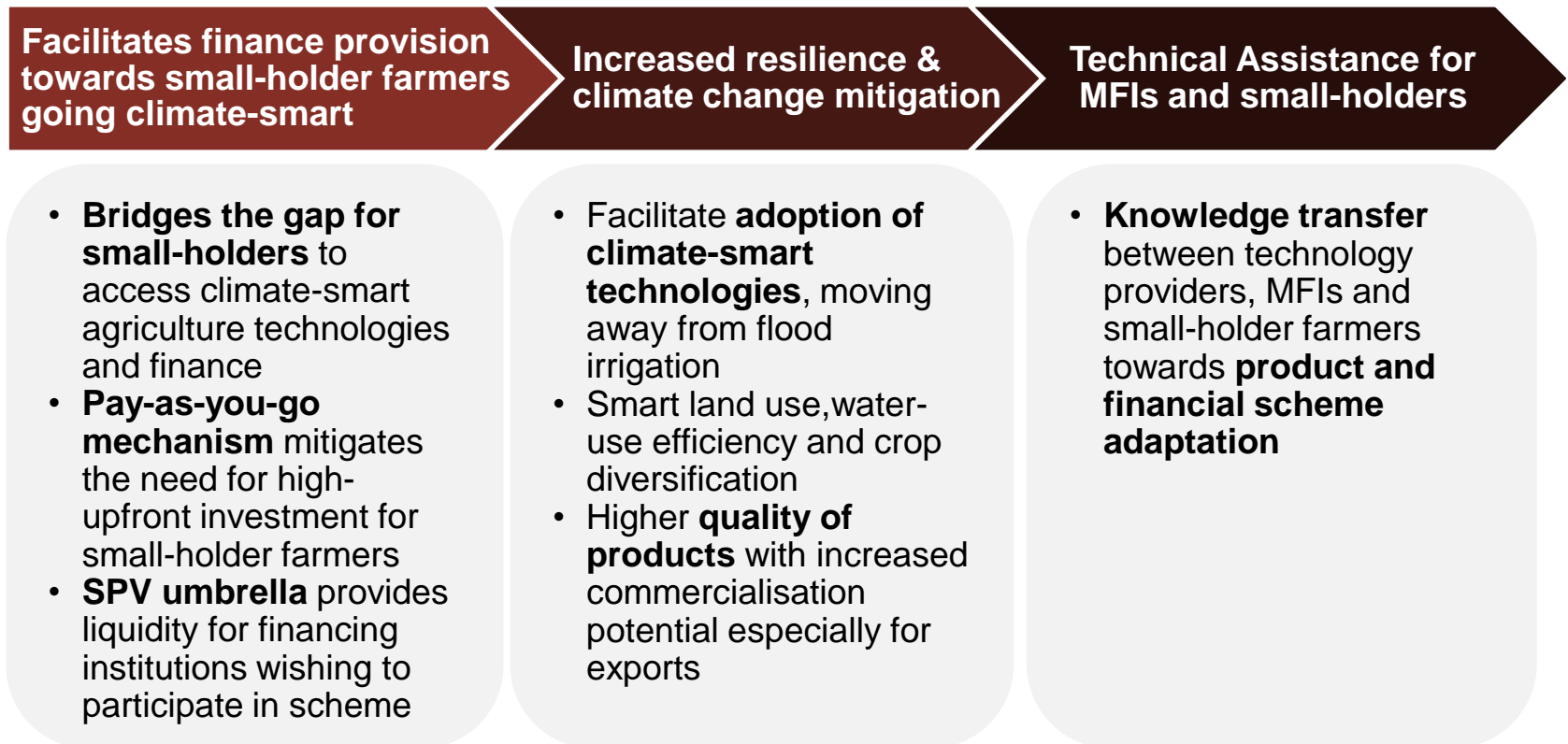


Smart-Irrigation-as-a-Service Financing Vehicle

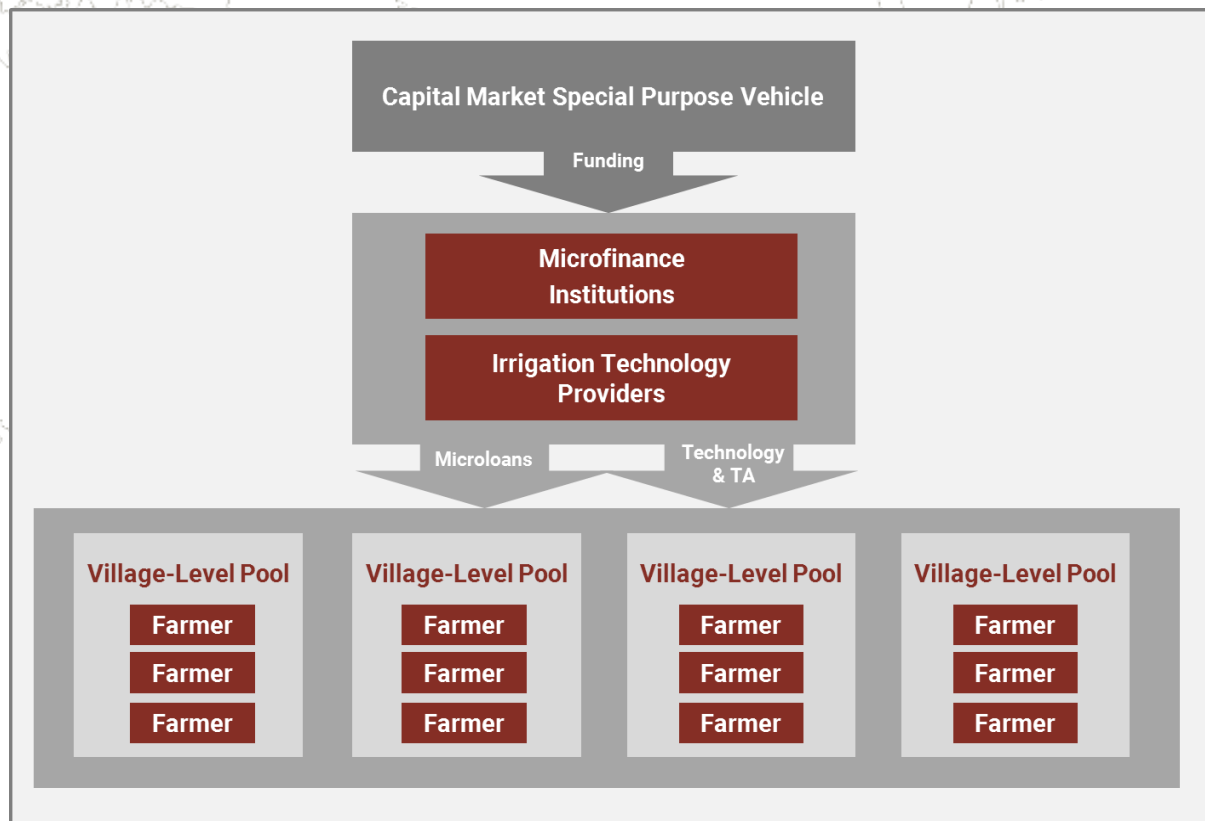
Impact Potential



The Smart-Irrigation-as-a-Service Financing Vehicle will leverage partnerships on the two levels of microfinance institutions and smart-irrigation technology providers to boost climate-smart impact.



Smart-Irrigation-as-a-Service Financing Vehicle for climate-resilient agriculture



About SEED



SEED was founded at the 2002 World Summit on Sustainable Development in Johannesburg by UN Environment, UNDP and IUCN as a global partnership for action on sustainable development and the green economy. SEED is based on the understanding that the promotion of social and environmental entrepreneurship is pivotal for environmentally friendly and socially inclusive development and poverty reduction.

We work directly with growing enterprises and aspiring entrepreneurs in our Enterprise Support programmes to strategise, optimise and award achievements in eco-inclusive entrepreneurship. All our participating enterprises receive a comprehensive SEED Support Package of tailored business and capacity-building support, networking, and profiling at the national and international level.

Complimentary to our direct Enterprise Support programmes, we offer programmes to build an ecosystem of supporters and advocates necessary to the success of growing enterprises. Our Ecosystem Building activities fortify a global network of local business development services providers and offer platforms for coordination between key local, national and international stakeholders around eco-inclusive entrepreneurship.

SEED is hosted by adelphi research gGmbH, a non-profit institution committed to sustainable development and entrepreneurship, based in Germany. Partners in SEED, in addition to the Founding Partners, are the governments of Germany and Flanders, the European Union; the governments of South Africa, the Netherlands, India, and the United States of America; Conservation International; UN Women, UNIDO and Hogan Lovells.

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SEED PRACTITIONER LABS CLIMATE FINANCE

Prototyping financial products to drive climate-smart innovation

SEED Practitioner Labs Climate Finance are part of the implementation of “Financing and capacity building for micro and small climate-smart enterprises: Filling the gap of the missing middle”, a project supported by the German Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety.

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