

: IFAD Climate Smart Agriculture (CSA) Innovations

Annual Forum Global Alliance for Climate
Smart Agriculture (GACSA)

Session: Innovation and Technology for food
security and agriculture

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4th May, 2023



IFAD at Glance

"At the IFAD we invest in rural people, empowering them to increase their food security, improve the nutrition of their families and increase their incomes.

IFAD is an **international financial institution and specialized United Nations agency** based in Rome, the UN's food and agriculture hub."

Challenges

- **720-811 m people** around the world face hunger today.
- **4 in 5** of the world's poorest people live in rural areas.
- Agri-food systems emitting **1/3rd** of global anthropogenic GHG emissions.
- Small scale farmers earn **only 6 cents for every dollar** of food they produce.

USD
23.2 bn

Grants and low-interest Loans

518 bn

People reached globally

Every USD 1 spent on resilience now saves up to USD 10 in emergency aid in the future

IFAD works where poverty and hunger are deepest: remote regions and fragile countries.



IFAD Climate Smart Agriculture (CSA)

CSA is an integrated approach to managing landscapes—cropland, livestock, forests and fisheries—that addresses the interlinked challenges of food security and accelerating climate change.



Approach

- Maximum use of natural processes and ecosystems
- Less external inorganic inputs and waste
- Diversity and proportionality of production
- Mixture of traditional and new technologies

Primary impact

- ✓ Maintained and enhanced groundcover
- ✓ Healthy soil that can retain nutrients and moisture
- ✓ Enhanced biodiversity
- ✓ Multi-seasonal in situ water storage

Multiple benefits

- ❖ Reduced Emissions
- ❖ Enhanced resilience
- ❖ Increased productivity
- ❖ Yields
- ❖ Local pollution reduction
- ❖ Poverty reduction



Innovative CSA Use Cases

Egypt: Sustainable transformation for agricultural resilience in Upper Egypt (STAR)

Solution CSA

- Climate-smart interventions, deploying the tools of digital agriculture to facilitate sustainability and cost-efficiency

Financial Soundness

- Co-financing \$ 205m (domestic and int.)
- Duration: 2019-29

\$ 16.6 m 100% Climate

Best Practices

Land farmed using a climate-resilient water supply.

25 K Hectares

Stable Income

Increasing the incomes and water-use efficiency of old lands.

50 K Rural households

Concessional Financing

- Public sector loan + USD 17.8 m co-financing
- Private sector financing for value chain develop.

\$ 18.5 m 100% Climate

Solutions CSA

- Integration CSA practices in public programmes,
- Improved farming for soil quality, mitigation of risks
- Adaptation crops and livestock

Environmental

- Climate resilience of people and their production,
- sustainable management and preservation of natural resources.

Stable Income

- Sustainable income opportunities, and
- improved rural livelihoods.

60 K Small-holder farmers

Viet Nam: Climate Smart Agricultural Value Chain Development in Ben Tre and Tra Vinh Provinces

Innovation IFAD

DigiClimate Risk

The Change, Delivery and Innovation Unit (CD) helps IFAD deliver better results quicker and to promote innovation in its products and approaches.

CDI provides expertise and evidence-based support to:

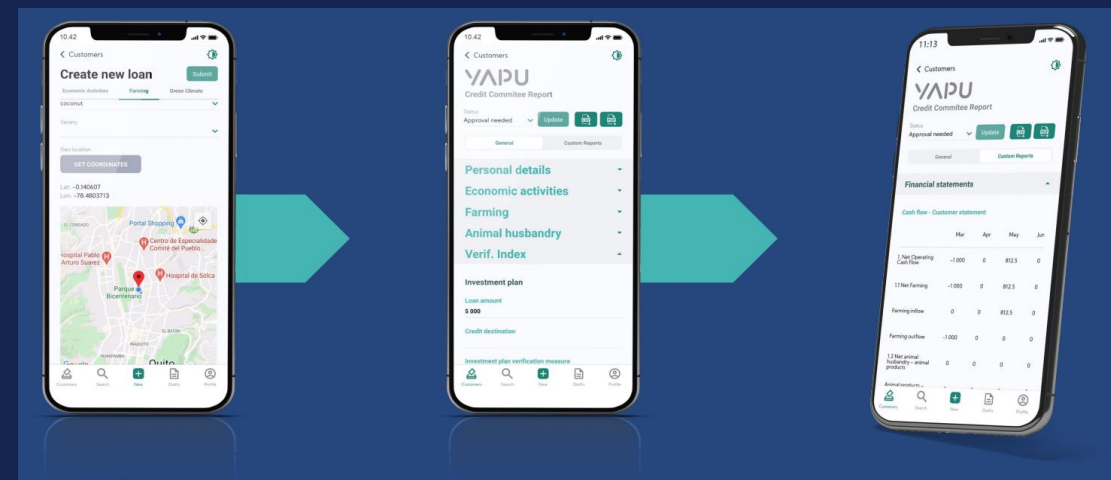
- ✓ Sustain, monitor and strengthen organisational support.
- ✓ Make behavioural change happen.
- ✓ Improve delivery systems.
- ✓ Identify, test and scale up ideas.

Through the annual Innovation Challenge CDI has created a space where ideas can test, learn and adapt before scaling up.

4 IFAD Pilot sample report



DiGi Climate Risk App



Project

- Facilitate **bankable resilience investments** to vulnerable small holder farmers
- Integration of climate **credit risk management** in partner FIs lending process

Pilot

- Pilot in Sudan will test a minimum of 200 loans in the process of training four PFIs + move to Nigeria.

Solution

- DiGi Climate Risk App is based on Yapu Solutions use of the app
- Loan data available in real time on central dashboards

Scaling up

- Together with Yapu solutions DigiClimate Risk is looking at investors to scale up the business idea.

