



The Issues

- Weather risk remains a major challenge to farming in the Sri Lanka;
- A large fraction of rural households in Sri Lanka were affected by drought and floods;
- Rainfed agriculture exposes farmers to huge risks in the lack of bundled solutions
- Climate shocks had a significant impact on the short and long-term welfare of households:
 - lower adoption of agricultural inputs that would help increase productivity
 - lower affordable credit access
 - lower technology adoption
 - lower risk bearing and or income generation capacity



Inter-cropping on the flood plains of river Bagmati, in Muzaffarpur, Bihar, India





The Solutions "Bundled"

- Global Perspectives
 - With credit
 - With complementary services
 - With farm inputs
 - Incentive for purchase
 - Loyalty benefit
 - Value added services to the insured e.g. weather advisories



A farm uses surface water and groundwater for irrigation in the dry zone of Sri Lanka



Bundling insurance with other services

IWMI and its partners offers

BICSA

Bundled Solutions to

Manage Agricultural Risks

- Weather based weather insurance with
 - Seed inputs
 - Weather forecast and
 - agriculture advisory services provided to insured farmers
 - Grain procurement (Maha season 2021)
 - Credit link (sooner)



Source: IWMI

How it works



Challenges

Cost to farmers, financial literacy, weather data, triggers and design, Basis risk, Admin cost.

Opportunities

New geographies, alternative indices, product bundling



Bundled Solutions to Manage Agricultural Risks

Bundled with comprehensive risk management products

Impact

Lower premium, quality inputs, basic risk management, reduce production losses

Key to Bundle

Links to financial and non-financial services and aggregators

Goal

Increased investment by PP sectors;
Increased gender equity and youth engagement;
Increased use of genetic resources improves
agricultural productivity and greater resilience

Source: IWMI

Stakeholders roles for scaling bundling agricultural risks management

Partners	Insurance industry	Seed Company	Weather advisory	Govt. Agri Research & Extension
Contribution	 Insurance product Pilot and business models Coordination with govt. 	 Seed production, marketing & delivery Coordination with research institutes & Insurance Co. 	 Agrometeorological advisory for individual farmers Support in index insurance product and damage assessment 	 Strengthening farmers income and managing risks Technology focus Village outreach Scaling up and institutional coordination Workload distribution
Benefit	 Expansion of ag. Sector Build index insurance capacity Build business relationship De-risking through blended finance for premiums 	 Increased product interest by farmers Expansion of new areas Build business relationship Increase sales 	 Increased product interest by farmers Build business relationship across value chain partners Client increase 	 Farmers more protected from climate risks De-risking fiscal deficit (disaster risk) through inclusion of private partners
Impact	Wider acceptance by farmers	 Strengthen agricultural producers against loss of crops from climate shocks 	 Strengthen climate safety program against extreme events 	Building climate resilience in ag. sector

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BICSA at a glance



An integrated one-stop-shop service delivery model for smallholder farmers in Sri Lanka



Provides **climate smart solutions** for raining access to agricultural inputs, weather data and agronomic advisory services



Digitally enabled through the use of satellite technology and mobile services



Provide insurance to farmers and includes them in the **agricultural value chain** from the provision of seeds to gaining access to markets



Overcome challenges such as access to finance, low purchasing power, low incomes, price instability and access to market.



Additionally, the model provides a **commercially sustainable and scalable solution** for government, development and private actors.





BICSA Implementation

- √ 9 steps guiding principles
- ✓ Innovative approaches such as using new technologies or satellite-based indices
- ✓ Improve weather data infrastructure and data systems
- ✓ Support development of sound national rural risk management strategies
- ✓ Educate farmers on the role of insurance
- ✓ Support regular monitoring, evaluation and impact studies



BICSA in India

Better seeds, Weather Index Insurance and agroclimate advisories







https://www.iwmi.cgiar.org/2019/09/sol utions-for-those-managing-risk-inclimate-disasters/

- First integrated solutions to climate and production risks
- Scaling up and Scaling down in agriculture value chain





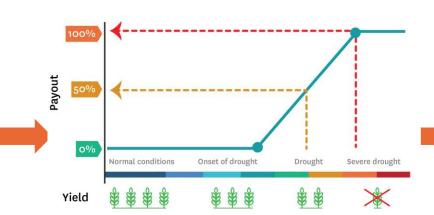


BICSA in Sri Lanka (Maha Season 2020)

Better seeds, Weather Index Insurance and agroclimate advisories









Sunday Times (18 April 2021)

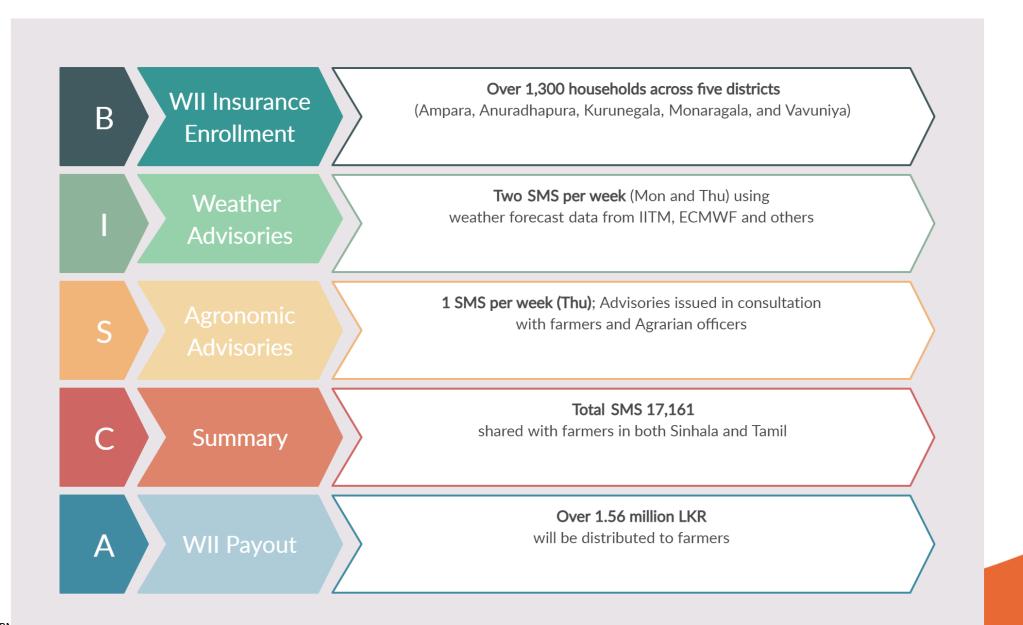
- https://bit.ly/3ylmbpQ
- WII developed uses satellite data
- Developing aggregator model with value-chain partners





BICSA 2021 Yala Season Summary





Adaptive scaling for system transformation



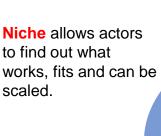


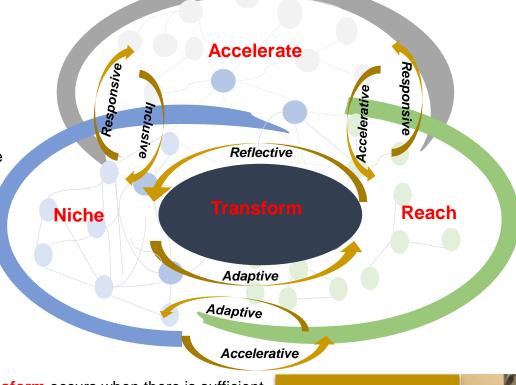
De-risk private sector companies' investment with financial support

Accelerate refers to creating and facilitating a supportive technical, financial and institutional environment to reach scale in a sustainable and inclusive manner.



Piloting & testing





Reach involves doing more of what works, fits and is responsive to the contextual needs.



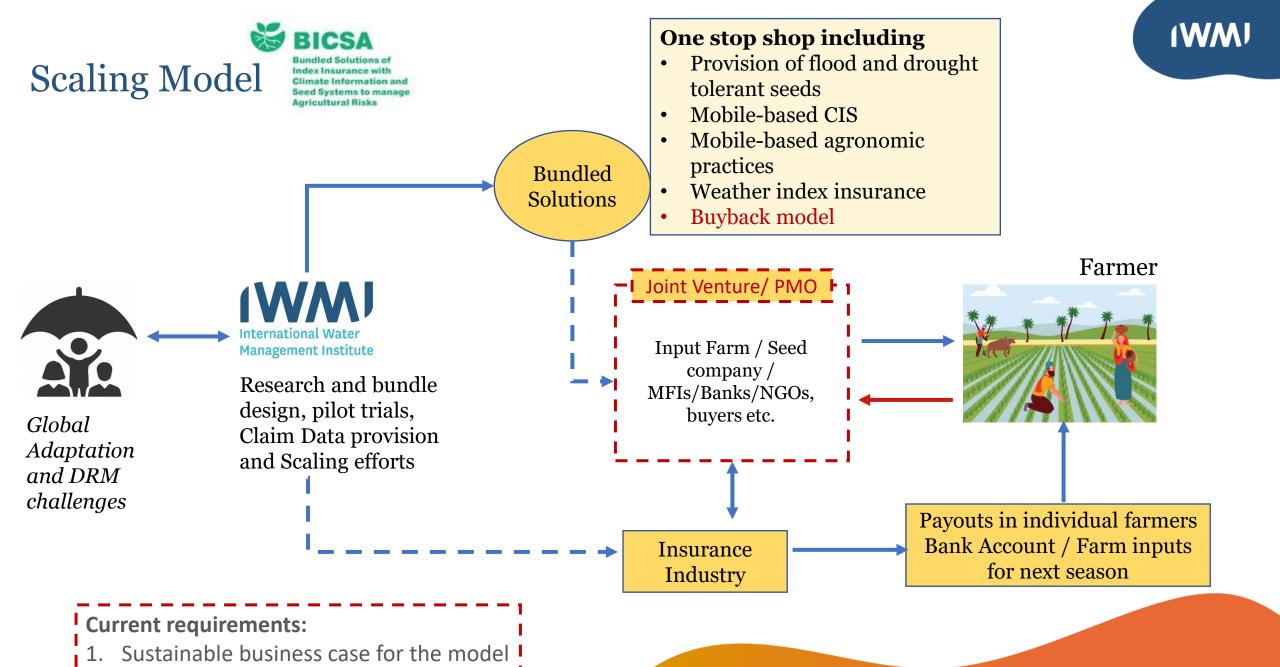
Co-designing

Transform occurs when there is sufficient progress in the other three functions to respond to the dynamism of the scaling processes.

Multi stakeholder dialogues; agenda-setting for policy



(T. Minh and Schmitter, in review)



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1 2. Implementation partner(-s)

