





Michael Anthony, Global Project Manager, RIICE





Project Set-up



Satellite data procurement & processing

IRRI International Rice Research Institute

Ground validation & yield modelling

Schweizerische Eidgenossenschaf Confederation suisse Confederatione Skizzena Confederation orizon

> Swibs Agency for Development and Cooperation SDC

Funding and in-country support in two countries



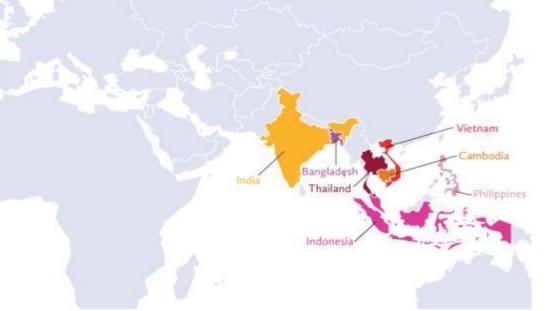
In-country support in three countries; implementation, access to policymakers,



Insurance product development



Phase I:Test phase Technical proof of concept; «dry-test» of satellite-supported insurance products Phase II: Scale-up phase
Nation-wide upscaling of yield
monitoring in collaboration
with governments and
application in insurance
programmes.



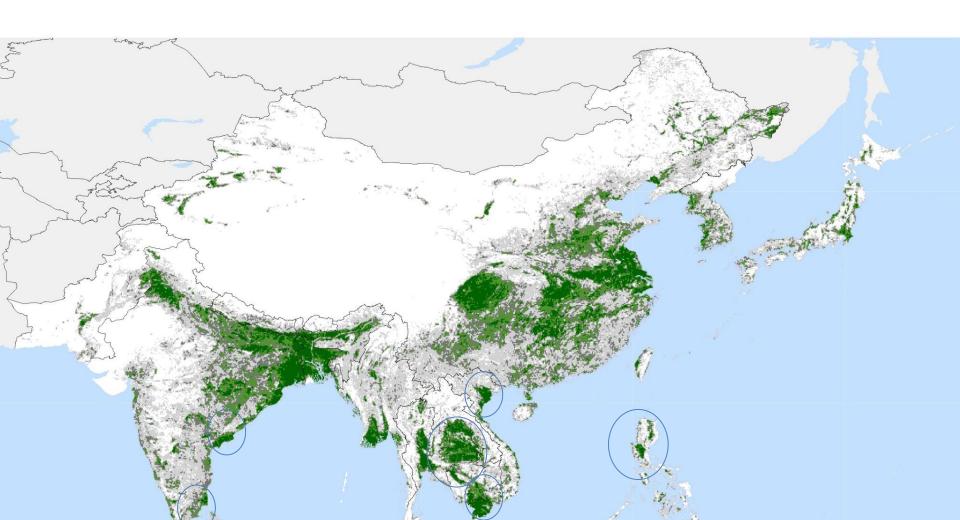


Key objectives and targets of insurance operations





Locations of RIICE implementation





Main features of the insurance pilot

- 1. Improve risk exposure management for insurers through...
 - a. Mid-season information on expected yield gaps
 - b. Flood maps to establish scope of damage
 - c. Regular crop portfolio monitoring in target areas
 - d. Targeted field-based monitoring based on early stress detection
 - e. Generation of satellite-based crop condition reports
- 2. Improve insurance service for smallholder farmers through...
 - a. More timely payout after end-of-season
 - b. Higher transparency on loss and yield assessments
 - Product improvements through early payouts in case of total loss or preevntive sowing
- 3. RIICE-based yield estimates to complement and eventually replace the official yield data



Core insurance product feature upgrades through technology

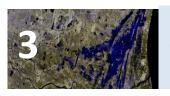
RIICE and its partners in India plan to introduce either of the following product features:



Preventive Sowing Cover



Yield Estimations



Cyclone loss maps



Impact logic

imagery

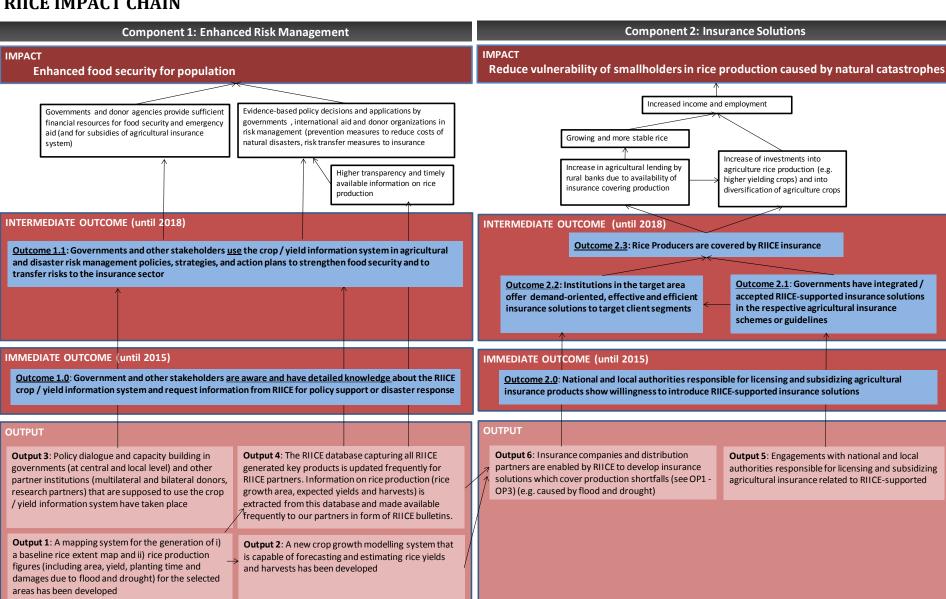
Governmentand plan for ...protecting Local insurers seeks better expected yields offer crop farmers against information rice or shortcomings insurance.... natural growth... thereof. catastrophes satellite yield insurance

forecasting

product



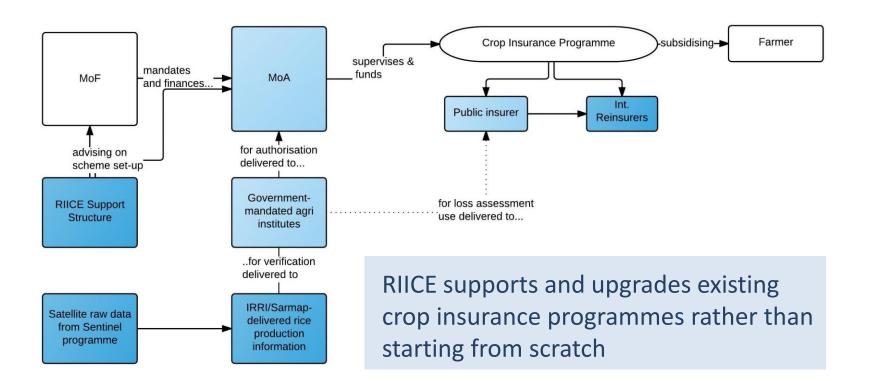
RIICE IMPACT CHAIN





Operational set-up







Commercial viability

	Cambodia	India	Philippines	Thailand	Vietnam
Disaster scheme in place	Yes	Ad-hoc	Ad-hoc	Yes	Yes
Insurance scheme in place	No	Yes	Yes	Small	To be renewed
Amount of subsidies committed	None		30m USD annually		Not decided



Key challenges for systemic change in disaster risk management through insurance

- Government to change paradigm from post-disaster to ex-ante insurance (-> mitigating their fiscal risk)
- ...and a need to stay committed!
- 2 Stakeholders have to agree on a scalable distribution mechanism (-> large and efficient distribution, potentially compulsory insurance)
- ...and ensure that farmers know they are insured!

- Insurance market to choose an efficient product and supporting technology.
- ...disruptive technology is unpopular



Incremental change over time or a new system all together?







Michael.anthony@riice.org

Twitter: mianthony

www.riice.org

