

Sovereign and Humanitarian Working Group: Tripartite Programme

The Protection Gap

\$162.5bn

The size of the global insurance protection gap. Emerging economies account for \$160bn (96%) of this.

Lloyd's World At Risk report, Oct 2018 www.lloyds.com/worldatrisk



The percentage of natural disaster losses in developing countries 1980-2004 that were insured. This compares to c.30% in developed countries.

Dag Hammarskjöld Foundation and UNDP 2019 Financing the UN Development System: Time for Hard Choices

\$4tn

The estimated figure lost to extreme natural disaster events globally over the past 40yrs, US \$2.9 trillion of which was uninsured.

1%

Swiss Re database of natural catastrophes

Project portfolio I

6

4



 $570\,$ m USD projected capacity

12.5 m projected beneficiaries

rojects in various stages f ISF application 530 m USD projected capacity

25 m projected beneficiaries



New Countries



Project portfolio II Projects in execution and application phases

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Flood, rainfall

13

4

Parametric

3

9

6



2

Wind

Projects work with external model providers

Indemnity



Company Commitments

COMPANY			
Allianz			
ARC			
AXA			
Blue Marble			
CelsiusPro			
Convex			
Gallagher Re			
Guy Carpenter			
Hannover Re			
Howden			
Lloyds DR/Hiscox			
Munich Re			
SCOR			
Swiss Re			
WTW			

GUY CARPENTER ENGAGEMENT

Argentina

Colombia

Dominican Republic

Ecuador

Mexico

Madagascar

Mozambique

Algeria

Ethiopia

Egypt

Jordan

Tunisia

Tanzania

Nepal

Vietnam



Country Overview



Tripartite Agreement

IDF Mexico

Parametric Insurance for smallholder farmers

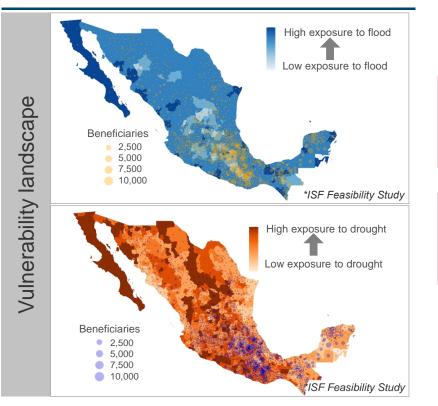
Introduction / Design





Without a protection coverage, the impact of climate risks affects smallholder producers more strongly due to their vulnerability

Smallholder farmers have a high exposure to drought and excess rain...



Affecting agricultural activity, but hitting vulnerable (with no means of protection) people harder

Agriculture is affected by Natural disasters

- **80%** of economic losses due to natural disasters affected the agricultural sector¹.
- 76% of the total cultivated area (22 million Ha) is seasonal and exposed to excess of rainfall, droughts and changes in temperature².
- **80%** of the 5.3 million producers have less than 5 Ha in rainfed land³ and do not have access to irrigation

Smallholder farmers are the most vulnerable

- 4.4 million smallholder farmers across Mexico
- Mostly indigenous communities living in less connected rural areas, with an income of less than USD 4/day
- Growing crops for self-consumption, with lands of less than 5Ha, corn is the staple crop (82.4%)
- Crops are concentrated in areas of high exposure, and depend on weather for irrigation
- Have no protection for their crops, becoming not only an economic but also food security hazard if something happens

¹ World Bank, Agriculture Insurance Market Review N.4, 2013 ² ENA 2017 ³ ENA 2019

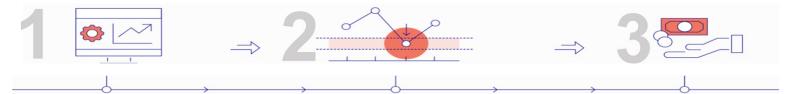


Solution | To address this protection gap, we propose a parametric insurance cover with direct pay-out to smallholder farmers, using the lessons from CADENA

Key pain-points	CADENA catastrophic insurance program	IDF consortium parametric insurance program vision
Policyholder	Each State was contractor and direct beneficiary	Ministry of Finance / Ministry of Agriculture as policyholder, but farmers as beneficiaries
Product and pay-out	In-place loss adjustment created lengthy claims processes with high admin costs	Parametric excess rain-fall & drought tracked via satellite; rates & triggers agreed in advance, fast and direct pay-out without loss adjustment
Cost efficiency	State level pricing negotiation, insurers placing reinsurance individually ultimately ended in high costs	Global placement will lead to larger exposure and diversification; synergy with current SADER programs for end-to-end enrolment and payouts
Risk & pricing	Lack of sufficient data = high assumptions on risk quality = conservative pricing	Satellite data points will increase accuracy (from municipalities to "pixels") = better risk assessment = more adequate pricing
Transparency	States received payouts and dispersed it to smallholder farmers at discretion	Farmers will be beneficiaries, receiving fast pay- out directly with no intermediation



Parametric Insurance is the ideal alternative for the target segment



Triggers set up together

Coverage is previously agreed upon based a set of parameters.

- Accumulated rain
- Temperature

Transparent activation The parameters are monitored and set off based on an official consensus source. If the coverage conditions are met, and the official source notifies it, the direct payment is made to the farmer.

Agile payment

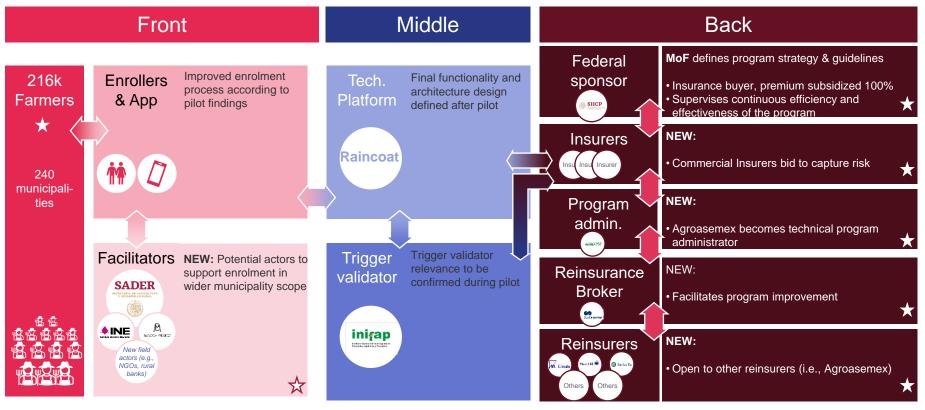
In a matter of days, direct payment is made to the producers (without need for adjustment).

- Cost effective. Traditional insurance would be unfeasible due to costs
- Reliable. A third party ratifies the trigger
- Efficient. Fast payment to producers
- Simple. Removes operational complexities



Solution

Roll-out | Operating Model | With improvements from the Pilot, the Program is expected to become fully operational in 2023 with additional Federal funding



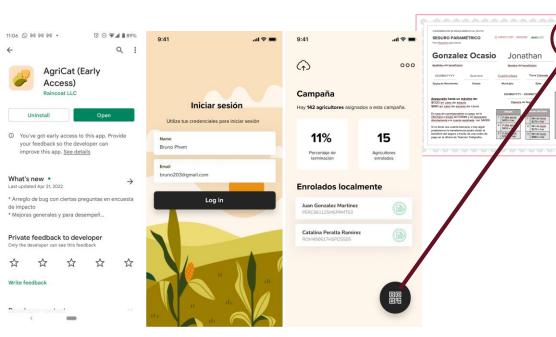
Main differences vs. pilot operating model

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*Ministry of Finance



AgriCat (enrollment App)



Relevant points

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Agroasemex al 442 238 1905

- Powered by Raincoat
- Aimed at field personnel
- Only authorized personnel can download the app and registration is required
- Possibility of working offline by downloading information to the phone
- All enrollment data is encrypted, accessed using a QR code
- When network access available, the enroller uploads the information to the cloud



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