

# GLOBAL KNOWLEDGE EXCHANGE ON AGRICULTURE RISK FINANCING

## Session 3:

### Market-Based Instruments for Climate and Disaster Risk Financing for Agriculture

Disaster Risk Financing  
& Insurance Program



# Introduction



**Low- and middle-income countries face challenges in managing the financial impact from disasters to agriculture.** Government's agriculture related post-disaster support efforts often rely on limited domestic resources and short-term international aid. Agricultural households and firms lack access to suitable and affordable climate risk financing and insurance products. Establishing appropriate risk financing strategies can help address these challenges and build resilience for governments, agricultural households and businesses.



**The third global webinar series is held in partnership with ASEAN+3 DRF Initiative, SEADRIF, ASEAN Secretariat.** Building on the successes of the last two series on DRFA, this will be held with a focus on ASEAN+3 in response to request for DRFA knowledge exchange. The knowledge sharing events are enabled with generous support from the SEADRIF MDTF with financial contributions from Japan Ministry of Finance.



**This knowledge exchange series on DRFA aims to (i) increase the understanding and capacity of participants to design and implement DRFA programs by filling in the knowledge gap and enhancing knowledge exchange among participants and (ii) foster collaboration among ASEAN +3 member countries and beyond through exploring potential regional and country level solutions to address DRF challenges in member countries.**

# What will the four webinars cover?

## Webinar 1



Climate and Disaster Risk Financing for Agriculture (CDRFA):  
**Policy, legal and institutional considerations**

## Webinar 2



Climate and Disaster Risk Financing for Agriculture (CDRFA)  
Instruments:  
**Government Supported Programs**

## Webinar 3



Climate and Disaster Risk Financing for Agriculture (CDRFA)  
Instruments:  
**Public private partnership and market-based instruments**

## Webinar 4



Climate and Disaster Risk Financing for Agriculture (CDRFA):  
**Data analytics and technology**

# Structure of Webinars



Total of 4 90-105  
minute Webinars in  
the Webinar Series



Different guest speakers



Q&A: Please share your  
questions via chat and  
during registration



Participants will have an opportunity to  
obtain "Certificate of Informed Policymaker"  
from the World Bank on successful  
completion of following criteria:

## Completion Certificate:

Participants need to attend all 4 webinars  
and complete a short survey/quiz at the end  
of the webinar series.

# Recap the key points in Session 2

## Government-Supported Programs for Climate and Disaster Risk Financing for Agriculture (CDRFA)

With the country experience of India, Korea, and Thailand.



Photo credit: Quy-Toan Do / World Bank



Government needs to support CDRFA because:

- Disaster related losses to agriculture are drivers of Governments' contingent liability
- Market inefficiencies exist



Government-supported programs for CDRFA can take various forms through fiscal and non-fiscal support measures. They have both limitations and benefits.



Government leadership in balancing government support with long-term private sector involvement is one of the keys to build sustainable programs for CDRFA.



Government can also strength its programs by aligning various government support programs (insurance, credit, direct compensation etc.) and leveraging technology to create effective synergies .

# Today's Agenda (105 minutes)

1. Opening Remarks

2. Framing Presentation

3. In-depth Presentations

- Malaysia – Agrobank
- Spain – AgroSeguro
- Horn of Africa – DRIVE
- Southeast Asia Disaster Risk Insurance Facility

4. Q&A Session

5. Closing Remarks



Photo credit: Quang Nguyen Vinh / Pexels

# OPENING REMARKS

## Sifong Oumavong

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Deputy Director General, External  
Finance Department, Ministry of  
Finance, Lao PDR



Photo Credit: Dan Meyers / Unsplash

# Framing Presentation

## Market-Based Instruments for Climate and Disaster Risk Financing for Agriculture

### Radu Tatu

Senior Financial Sector Specialist,  
Finance, Competitiveness and  
Investment Global Department,  
World Bank Group

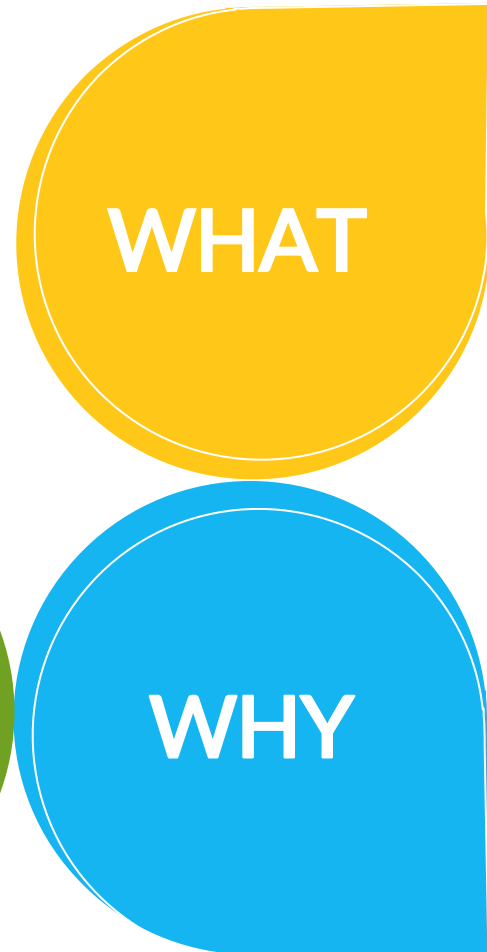
Disaster Risk Financing  
& Insurance Program





# Overview of the framing presentation:

## Market-based instruments for agriculture risk financing:



### What are market-based instruments:

- Different types of market-based instruments
- How market based instruments function

### How to scale market-based instruments:

- Opportunities
- Challenges
- How to leverage the private sector

### Why market-based instruments are needed for agriculture risk financing:

- Limitations of conventional approach
- Benefits of market-based instruments

# What Are Market-Based Instruments for Climate and Disaster Risk Financing for Agriculture?

Tools and solutions designed to manage financial impacts from climate and disaster risks in agriculture by leveraging the financial markets or private sector

## Market-Based Solutions for Agriculture Risk Management

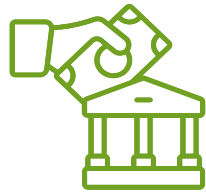
	Savings	Credit	Remittances	Insurance	Credit Guarantees	Technology	Advisory
<b>Risk Reduction</b>	Investment, input	Investment, input	Investment, input		Investment, input	Investment	Investment
<b>Risk Retention</b>	Loss absorption	Loss absorption	Loss absorption		Loss absorption	Loss mitigation	Loss mitigation
<b>Risk Transfer</b>		Loan for premiums		Payout proceeds		Rapid payouts	Products (risk modeling, data)

# Why Are Market-Based Instruments Needed?

## Complementing conventional approaches to build agricultural resilience through market solutions.



**High vulnerability to risk:** Agriculture is highly exposed to climate change, natural disasters, and price volatility.



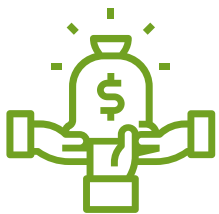
**Limitations of government support:** Public interventions have limitations - inefficiencies, budgetary constraints, lack of sustainability, low participation rate, slow.



**Efficiency:** Market mechanisms enable cost-effective and timely risk management.



**Innovation:** These instruments foster technological and financial innovation in risk transfer.



**Long-term investment:** They encourage sustainable farming and resilience-building in agriculture.



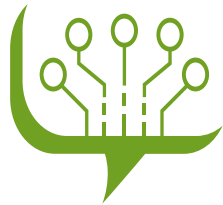
**Diversification of Funding Sources:** Diversifying risk financing beyond public funds through broader capital market access



**Scalability and Sustainability:** Market-based solutions offer sustainable and scalable mechanisms when backed by strategic long-term investment, Unlike ad-hoc measures

# How to scale market-based instruments: Opportunities for Scaling Market-Based Instruments

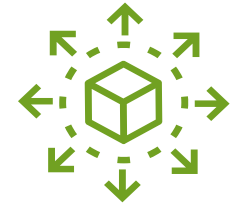
Unlocking scale through integrated solutions and stakeholder collaboration.



**Advances in technology** (e.g., satellite data, remote sensing, digital platforms, AI): Improved accuracy in risk assessments and streamlined product distribution.



**Public-private partnerships (PPPs):** Collaborative resource pooling and risk sharing to create accessible financial tools



**Innovative product design:** Develop products addressing specific agricultural risks to improve relevance and uptake



**Policy support and incentives:** Subsidies, tax benefits, and regulatory frameworks to promote adoption.



**Capacity building and education:** Training stakeholders at both demand and supply sides to enhance understanding, utilization, and trust/credibility



**Integration with broader risk management strategies:** Ensure complementarity with other financial tools and programs, enhancing overall resilience and sustainability

# How to scale market-based instruments: Challenges in Scaling Market-Based Instruments

Addressing structural challenges is critical to expanding market-based solutions.

Scaling requires addressing barriers such as:



**Data limitation:**

Lack of high-quality historical and real-time data for risk assessment

**Affordability:**

High premiums limiting uptake among farmers and businesses

**Low financial inclusion in rural areas:** Remote rural areas often have limited access to financial services and insurance providers.

**Capacity constraints:** both demand side (farmer) and supply side (financial institution) lack the necessary knowledge and expertise

**Insufficient regulatory and institutional frameworks:** Lack of enabling policies and oversight for effective implementation

**Basis risks in index-based insurance:** Mismatches between index-triggered payouts and actual losses experienced

# How to scale market-based instruments: How the Private Sector Can Be Better Leveraged?

Collaborate, innovate, and incentivize for long-term private sector investment.



## 1 Public-private partnership (PPPs)

Public-private partnerships can share risks and enhance capacity.



## 5 Risk pooling mechanisms

Spread risk portfolio across countries/ regions to lower costs.



## 2 Policy/regulatory incentives

Tax benefits and enabling frameworks can attract private investment.



## 6 Risk financing ecosystem

Support integrated network/ framework of financial tools and stakeholders managing agricultural risks.



## 3 Market infrastructure and information

Establish standardized data systems for seamless service delivery



## 7 Demand-side development

Enhance accessibility through education and targeted support programs.



## 4 Technology and innovation

Leverage digital solutions and analytics for efficient risk assessment and response



## 8 Partnerships

Strengthen multi-stakeholder collaboration to drive innovation and achieve sustainable outcomes

# Reference

1. World Bank Group, Disaster Risk Financing and Insurance Program. (2023). *Knowledge Series: Disaster Risk Financing Solutions for Climate-resilient Livelihoods in the Agricultural Sector* [Factsheets]. Financial Protection Forum. <https://www.financialprotectionforum.org/knowledge-series-disaster-risk-financing-solutions-for-climate-resilient-livelihoods-in-the-agricultural-sector>
2. World Bank Group, Disaster Risk Financing and Insurance Program. (2021-2022). *Strengthening Financial Resilience in Agriculture Knowledge Series* [Factsheets]. Financial Protection Forum. <https://www.financialprotectionforum.org/knowledge-series-strengthening-financial-resilience-in-agriculture>
3. United Nations University Institute for Environment and Human Security. (2021). *Climate and Disaster Risk Financing Instruments: An Overview*. <https://www.unCDF.org/article/6767/climate-and-disaster-risk-financing-instruments>

# Case Study

## GLOBAL KNOWLEDGE EXCHANGE ON AGRICULTURE RISK FINANCE

Market-Based Instruments  
for Climate and Disaster Risk Financing for Agriculture

### Paddy Crop Takaful Scheme: Reducing the Protection Gap in Agriculture

Speaker

**Mohamad Taufik Mahamad Zakaria**

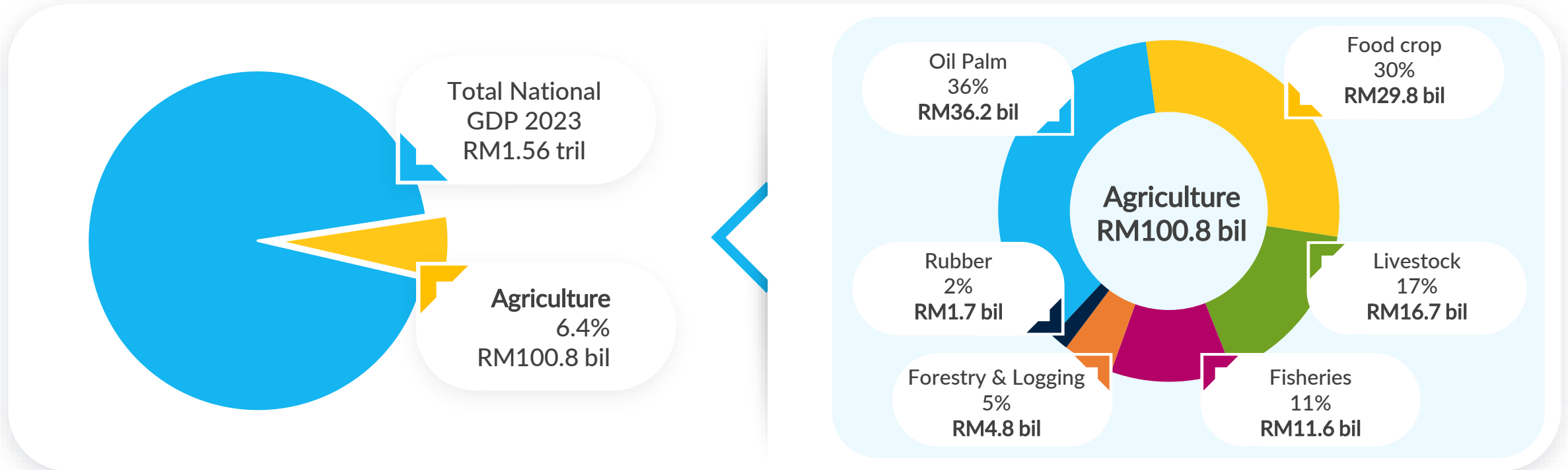
Chief Strategy Officer, Agrobank

Disaster Risk Financing  
& Insurance Program





# Primary agriculture contributes approximately 6.4% to Malaysia's national GDP



Agriculture is the 3rd largest contributor to GDP after services and manufacturing sectors.



Agrofood sector contributes approx. 63% to national GDP.



Agriculture employs 1.5 million people (10% of total workforce).

# Key features of conventional insurance vs takaful

## Insurance

Risk transfer between policy holder and insurance company



Buy and sell contract where the premiums become the property of the insurance company, which assumes all risks and profits or losses



Premiums in conventional insurance are paid in exchange for coverage by the insurance company



Insurance companies exist to maximise profits and shareholder value



Insurance companies are responsible to pay the benefit from company assets



Insurance companies can make unrestricted investments of premiums



Entire surplus belongs to the insurance company and is distributed among stockholders



## Takaful



Risk sharing amongst participants (members of the fund)



Mutual protection concept – each participant protects each other against loss or damage and the takaful company manages the money in the pool, either as a manager for a fee or as a partner sharing profits.



People who choose to contribute to a takaful fund share common interests (to protect themselves and other members from harm deriving from loss or damage)



Takaful companies exist not solely for profit but to promote risk-sharing.



Takaful companies manage the scheme and pay the benefit from takaful fund



Takaful companies can only make investments in Shariah-compliant activities



Surplus from the takaful fund belongs to the participants and is to be refunded to them, the operator is permitted to charge a performance fee

# Paddy as the first priority sector for takaful protection



One of the strategic subsectors identified under Malaysia's National Agrofood Policy (NAP 2021-2030) – to boost production for food security, and to provide a comprehensive agriculture insurance scheme for food producers against natural disasters and outbreaks of infectious diseases and pestilence.

## Why paddy sector first?



Rice is a staple food of Malaysians (Per Capita Consumption: 76.7kg / year)



Paddy subsector involves approx. 200k individual paddy farmers – majority of which are smallholders – biggest segment of farmers in Malaysia (out of total population of 470k farmers)



Declining rice production – 2.18 million tonnes in 2023 (2022: 2.28 million tonnes)



Paddy subsector has high physical risk (natural disasters such as floods, droughts) that is beyond the control of paddy farmers – approx. RM32 million in damage affecting 5,822 ha in 2024 alone



Paddy cultivation utilizes a large land area – approx. 650k ha used for planting paddy annually

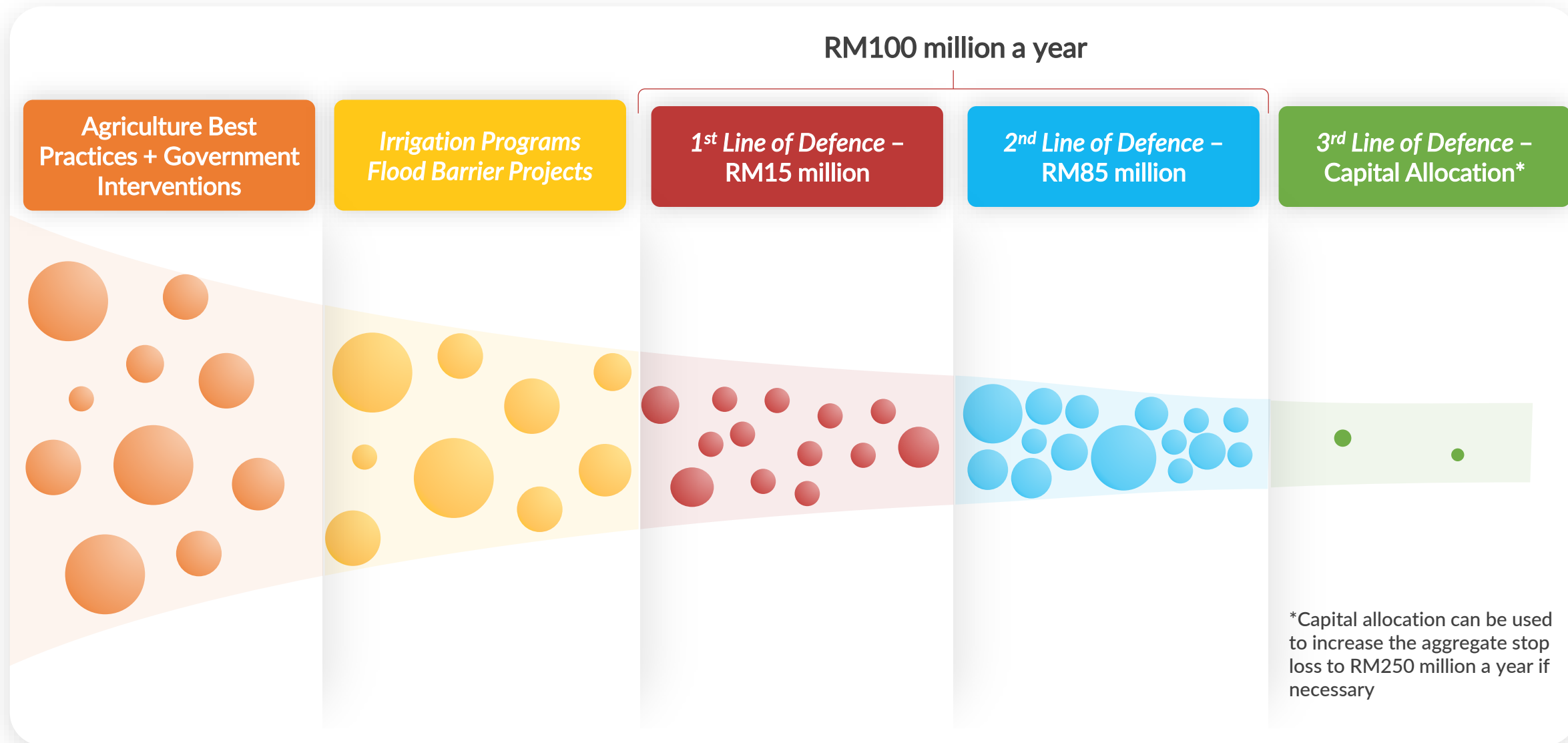


Paddy has high dependency on government subsidies (approx. RM2,900/ha: RM1,550/ha input subsidy and RM1,440 production subsidy for 4MT)



Development of takaful for the agrofood sector in Malaysia using phased approach.

# Structure of paddy farmer's financial security



# Challenges faced by existing national disaster relief fund mechanisms

## Challenges faced by the paddy farmers



Smaller quantum of compensation (RM1,800/ha per season, up to 3 hectares)



Claims on damages only covers 2 stages of cultivation (<70 days, 71-120 days)



Claims paid is dependent on fund availability

## Challenges faced by the government



Variable financial outlay by government



Full burden on government to maintain scheme without support from private entities



Provision of disaster relief is dependent on multiple parties (not consolidated effort)

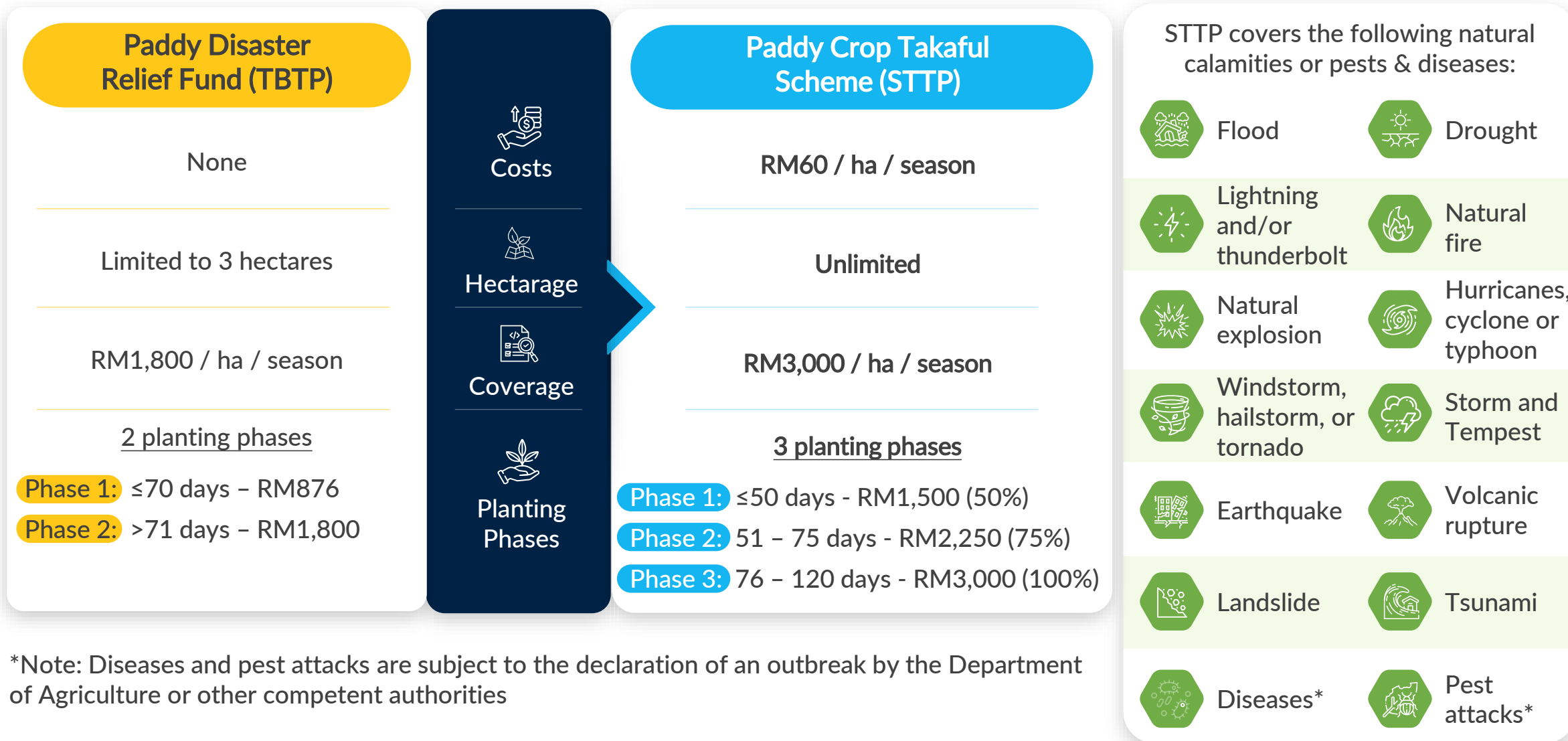


Uncertainty in budget planning due to unpredictable nature of claim events



High risk of dissatisfaction from rakyat when disaster relief is not executed efficiently

# STTP is Malaysia's first crop takaful scheme and is expected to protect approx. 200k paddy farmers



\*Note: Diseases and pest attacks are subject to the declaration of an outbreak by the Department of Agriculture or other competent authorities

# The design of STTP provides a strong value proposition to the paddy farmers and the government

## Benefits to the paddy farmers



**Financial safety net** for farmers to continue farming crops and contribute to national food security agenda



**Larger quantum of compensation** provided (RM3,000/ha, no limit of hectareage)



**Claims on damages covers 3 stages of cultivation** (<50 days, 51-75 days, 76-120 days)



No financial commitment required in the initial stages, due to **full government subsidy**



Claims will be **paid within 14 days** of Technical Committee approval

## Benefits to the government



Fixed financial outlay by government with **burden-sharing mechanism** to reduce long-term outlay



Additional annual **retakaful capacity** of up to RM100 million



Provide ample and **fast relief** to rakyat in response to emergencies



**Greater certainty in budget planning** for disaster relief, allowing for reutilisation of resources towards other development areas of strategic importance



Invites **greater financial investment** into the sector leading to better productivity

# STTP is executed by Agrobank's first subsidiary – Agro Captive Takaful Limited (ACTL) using a captive model

## Agro Captive Takaful Limited (ACTL)



Agro Captive Takaful Limited (“ACTL”) is a wholly-owned Shariah Compliant Pure Captive subsidiary of Agrobank registered in Labuan, established under the following Acts:

- ◆ Section 25 of the Development and Financial Institution Act 2002; and
- ◆ Section 76 of the Labuan Islamic Financial Services and Securities Act 2010



Leverages existing capabilities of Agrobank and existing systems/processes of the government agencies to provide a seamless experience for the paddy farmers



Low operating costs using an outsourcing model allows ACTL to transfer savings to the paddy farmers in terms of reduced premiums

## Why captive model?



Provides us with direct access to the retakaful market enhancing the ability to secure competitive rates



Optimised risk management - effectively manage financial risks with retakaful partners



# ACTL operates using a wakalah operating model



Currently, government subsidises the contributions to the registered farmers under STTP – RM60/ha/season.



% of the PRF is deducted as a wakalah fee and transferred to the Shareholders Fund (SHF) to cover management expenses.



The strategy may evolve towards a targeted subsidy, providing subsidies to eligible participants while others contribute either partially or fully, subject to the government's direction.



% of the PRF is used for takaful operations, including claims payments, reserves, and retakaful, and the remainder is invested in Shariah-compliant investments.



ACTL acts as wakalah agent to manage the contributions, channeled to a Participant Risk Fund (PRF).



Surplus from PRF shared between eligible participants and SHF.

# How We Bring The Costs Down



General willingness to pay (WTP)\* : 76% of farmers expressed a willingness to pay for crop insurance/takaful



Willingness to pay among paddy farmers is influenced by affordability, regional economic conditions, and perceived value of crop insurance.

69% willing to pay

15% willing to pay

11% willing to pay

5% willing to pay

*\*Findings Crop Insurance to Adapt Flood Risk by Malaysian Farmers: An Empirical Investigation of Kedah International Journal of Economics and Financial Issues, 2017, 7(4), 1-9. by Rafia Afroz, Rulia Akhtar and Puteri Farhana (IIUM)*



## How we reduced our costs

Through a tender process involving all Labuan-based brokers to secure the best rates for paddy crop takaful.

Shared historical loss data from the Department of Agriculture (DOA), maintained since 2007, to support the process.

Evaluated proposals based on multiple criteria, with the lowest premium and most comprehensive benefits receiving a high score.

# Expected Challenges and Success Factors Going Forward

## Challenges faced in execution of STTP



Dependence on government subsidy to cover contribution and/or retakaful costs in early stages of implementation



Ability to secure re-takaful coverage at affordable cost



Excessive high claim experience



Low-take up rates due to low awareness



Balance between affordability and extensiveness of coverage

## Key success factors



Building trust and acceptance by paddy farmers and key stakeholders



Wide national outreach utilizing strong network and existing connections between Agrobank and other MAFS agencies



Efficient onboarding process utilizing local farmer's organisations (PPK) and Agrobank's branch network



Leverage existing systems and processes for claims resolution applied by TBTP for seamless transition to STTP



Endorsement and support from agencies and stakeholders



Financial sustainability with robust capital management

# Role and experience of Agroseguro in the Spanish agricultural insurance

Elsa Sánchez Elizo  
12<sup>th</sup> December 2024





1

Introduction and context



2

Structure and role  
of Agroseguro



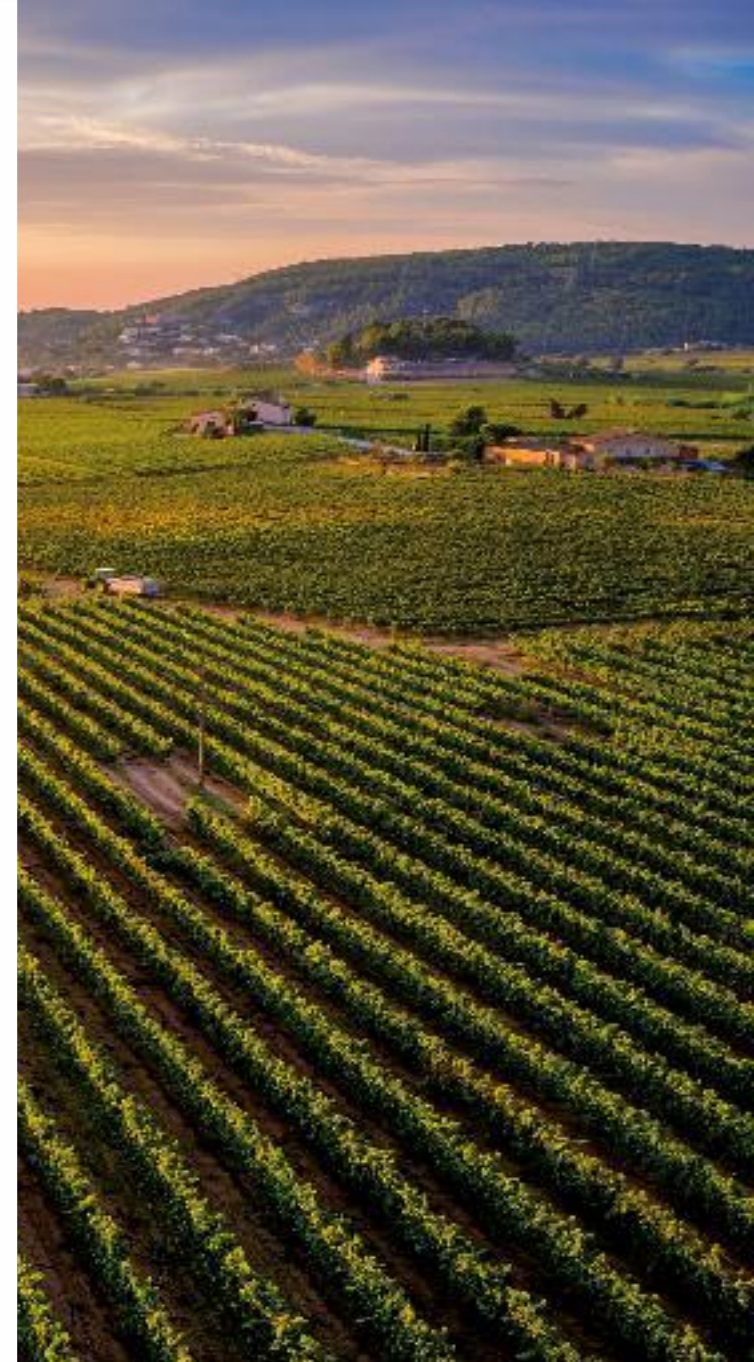
3

Insurance portfolio  
and main figures



4

Conclusions and  
final thoughts





# 1. Introduction and context: Non-life insurance in Spain

2023

Non-life total premiums:

**43.004M€** +6,8% ↑

Agroinsurance

1.011M€  
+16,52%

1,9%

Agroinsurance share in 2014

2,4%

in 2023

January-September 2024 - **34.660M€** +7,8% ↑

Health

**9.108M€**

+7,7%



Motor

**9.809M€**

+8,8%



Multirisk

**7.358M€**

+8,7%



Other non-life **8.383M€**

+6,0%



Agricultural insurance (January-September)

+6,2%





# 1. Introduction and context: Spanish agricultural insurance system

- ✓ It is among the **top three agroinsurance systems in the world**. It serves as an example for the development of agricultural insurance in other countries. More than **1 billion Euros** in premiums
- ✓ Based on the **joint participation of public and private institutions**: Government, insurance sector and producer sector.
- ✓ **Specific legal framework**: Law 87/1978 on combined agricultural insurance and Regulation RD 2329/1979 on combined agricultural insurance.
- ✓ Grouping (through the voluntary membership) of **private insurers**: *Pool AGROSEGURO*: 16 private insurance companies
- ✓ Very important **subsidy to insurance premiums** by Central and Regional governments.
- ✓ Cover of extreme losses by a **reinsurance cover** (Consortio de Compensación de Seguros (CCS), an entity under the auspices of the Ministry of Economy, Trade and Business).





# 1. Introduction and context: Spanish agricultural insurance system

## Key public institutions in agricultural insurance



Reinsurance

Primary sector

Producers' organizations



Insured producers  
(farmers and livestock breeders)

Insurance beneficiaries



16 private insurance companies (grouped in AGROSEGURO)

45 groups of insurance products

Significant subsidy to insurance premiums from Central and Regional governments.

Voluntary underwriting of insurance policies from producers.







## 2. Structure and role of Agroseguro

### Who are we?

- **AGROSEGURO** is the coinsurance pool management entity on behalf of all the grouped insurers.
- Legal form: Joint Stock Company.
- Shareholders: all coinsurers, who have the same proportion of stock capital and risk assumption.

### Main access requirements for coinsurers

- To be authorised to operate in the corresponding insurance branches (branches No. 8 and 9 specified in the Annex to the Law 20/2015 LOSSEAR).
- To comply with Solvency regulations regarding the insurance sector.
- To formally request to take part in the pool.

Minimum initial share (0.05%) that could vary depending on the contribution to the pool turnover.

Those entities not contributing to the turnover will no longer form part of the pool.





## 2. Structure and role of Agroseguro

### Pool advantages and keys for success



#### POOL SOLVENCY

Capacity to face great risk accumulation (catastrophic risks)



#### STANDARDIZED STATISTICAL INFORMATION

Geographic, risks, crops, varieties,...



#### COMMERCIAL NETWORK DISTRIBUTION

Reaching any part of the country



#### HOMOGENEOUS DAMAGE VALUATION

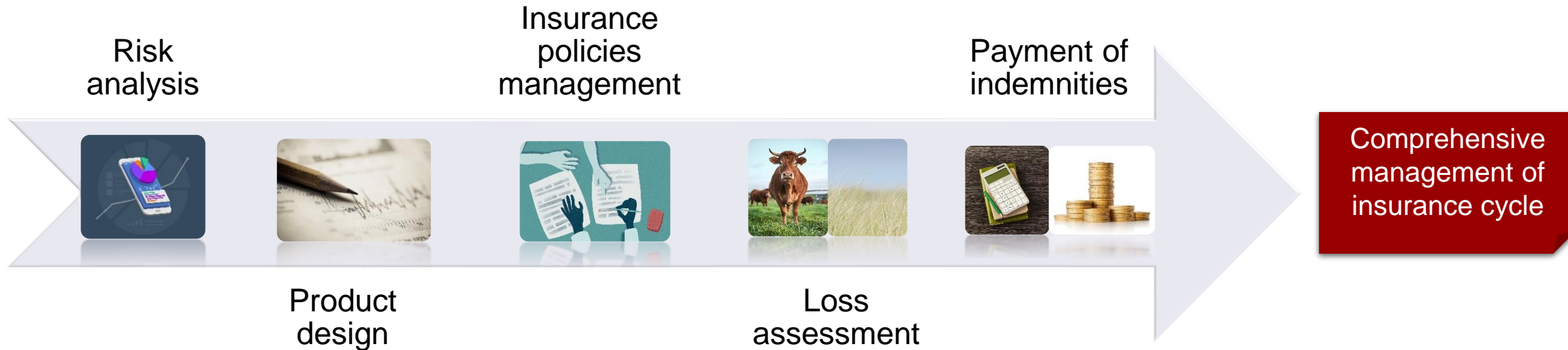
Distribution and mobility

Adjustment rules are public and part of the contract.



## 2. Structure and role of Agroseguro

### Main functions of Agroseguro



- ✓ Representation of each and every coinsurance company.
- ✓ Insurance underwriting on behalf of all coinsurance companies.
- ✓ Subsidies management.
- ✓ Claims (assessment and payment) management.



### 3. Insurance portfolio and main figures



Practically every single production and risk affecting agricultural exploitations are covered

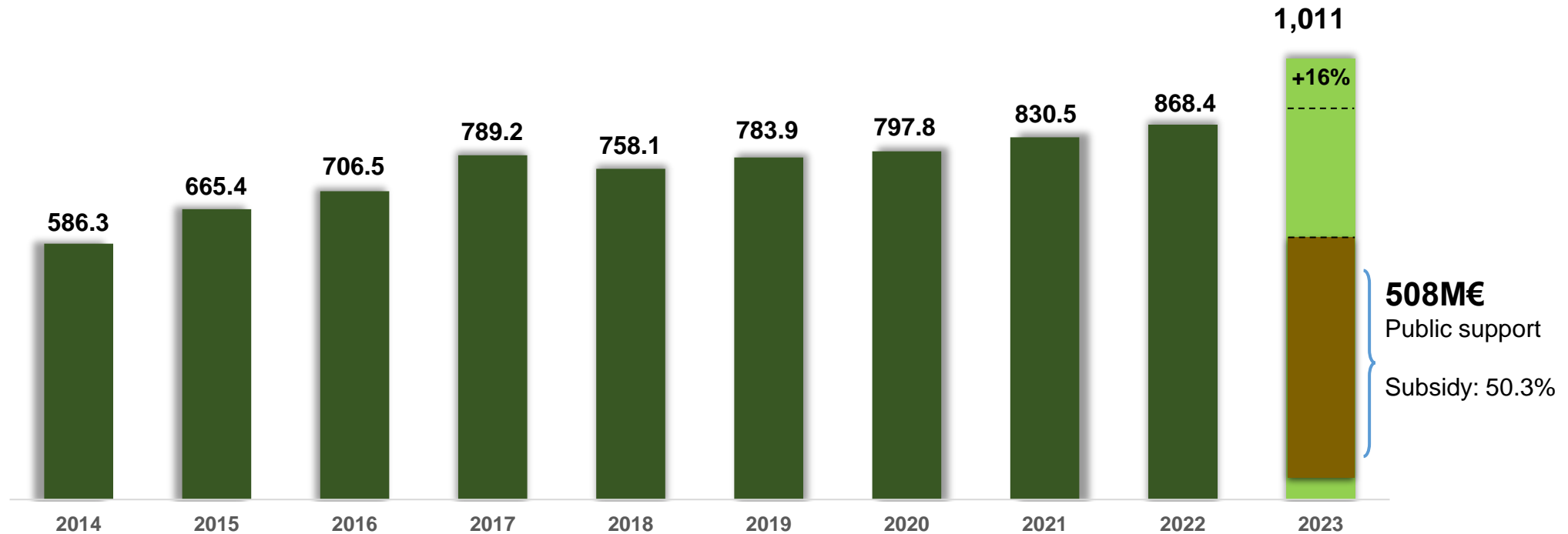




### 3. Insurance portfolio and main figures

**1,011M€ total premiums**

17% growth vs. 2022 and 8% average annual growth during last 10 years



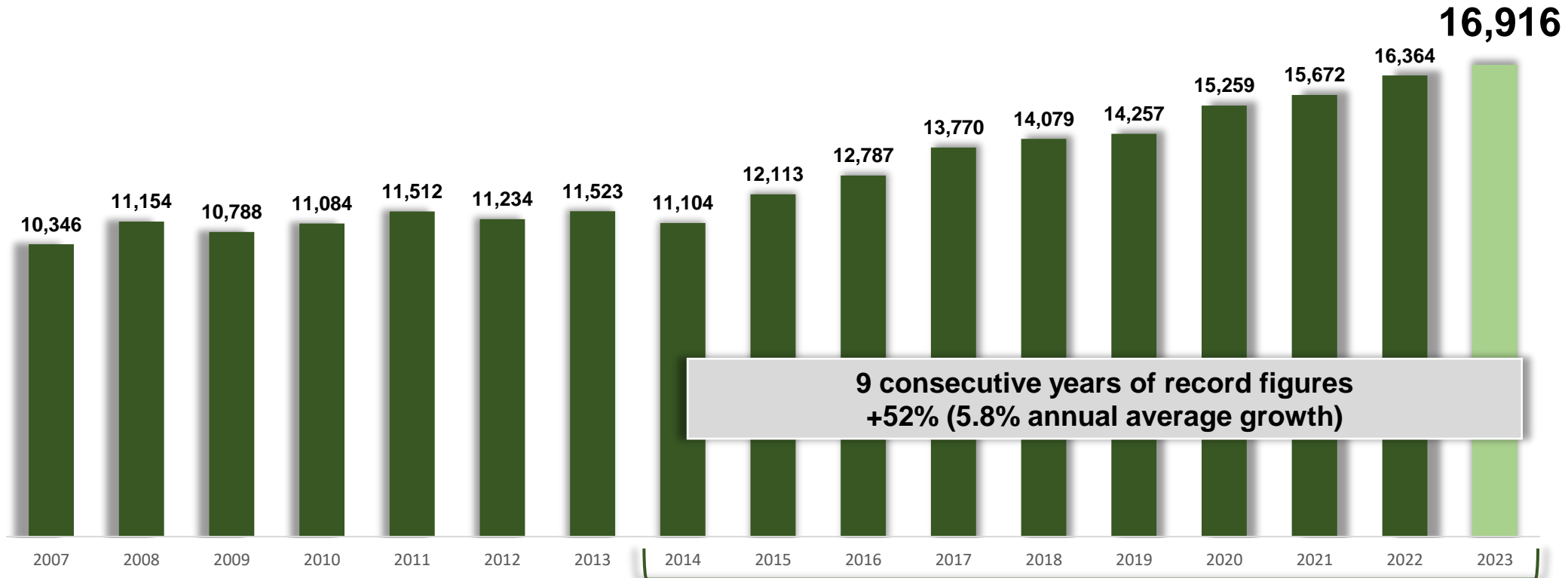
**2023: Record in total premiums and insured capital**





### 3. Insurance portfolio and main figures

**16,916M€ insured capital**

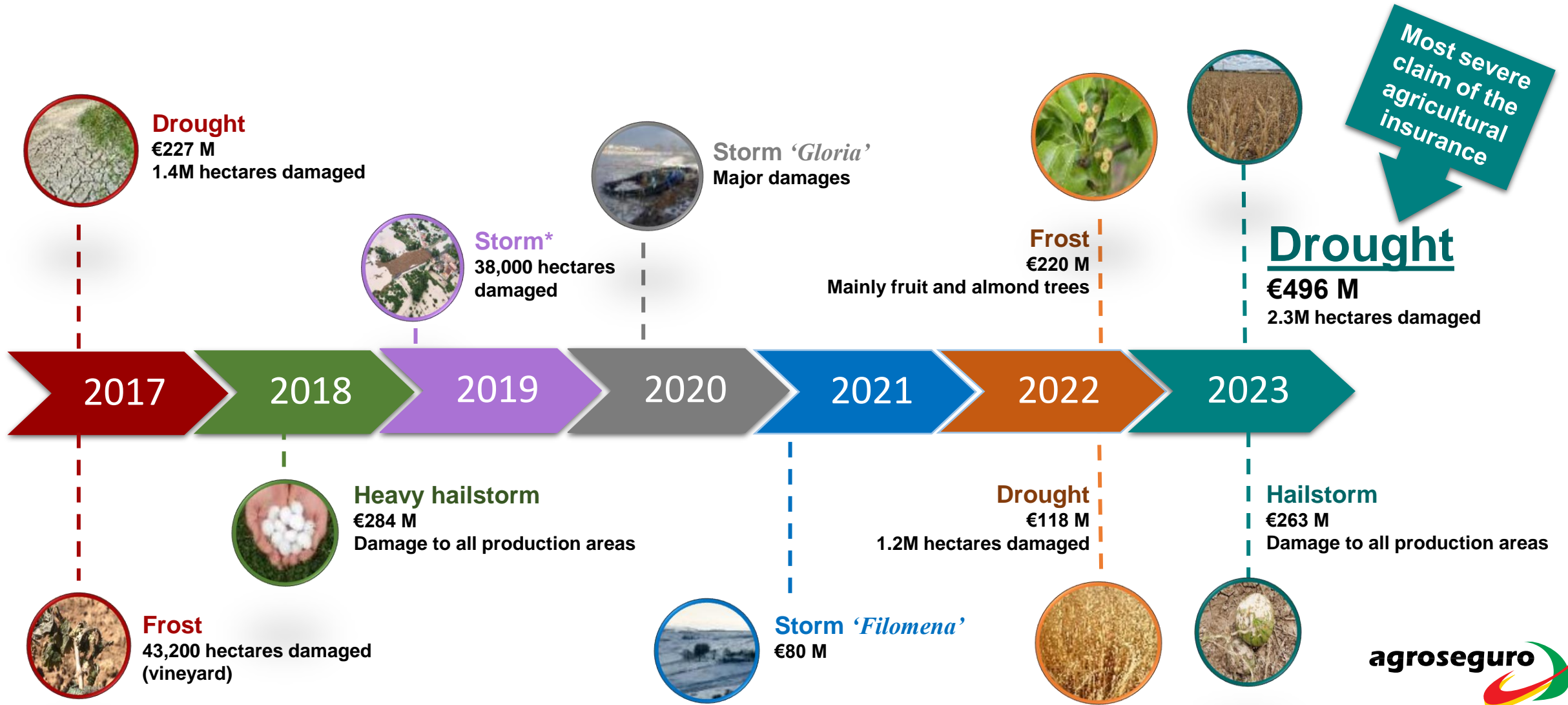


**2023: Record in total premiums and insured capital**





# 3. Insurance portfolio and main figures



Most severe claim of the agricultural insurance

## Drought

€496 M  
2.3M hectares damaged



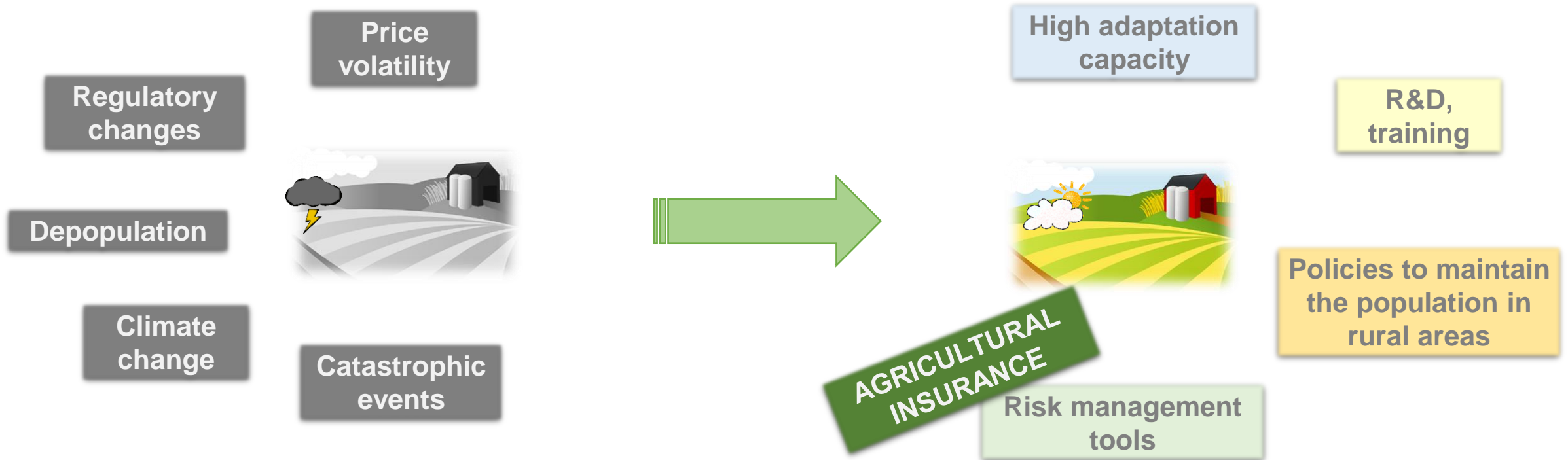
\* Isolated High-level Depressions



## 4. Conclusions and final thoughts

Changing environment, with many challenges and threats

Need of strategies for resilience and risk management



Agricultural insurance contributes to **support** and **give a future** to the **primary sector** and **rural areas**





## 4. Conclusions and final thoughts

- **Climate change effects have accelerated**, especially in the last decade. **Year 2023** has been the **most challenging** in the history of agricultural insurance in Spain.
- All the actors in the agricultural insurance system are committed to achieving its **sustainability** and that of the primary production sector. **Collaboration of all stakeholders**, by taking the necessary measures in each area, is crucial to guarantee the future viability of the system.
- **Agricultural insurance products need to be adapted**, establishing premiums and covers in accordance with the current climatic situation. Agricultural insurance can mitigate losses of viable farms but cannot make farms that are not adapted to climate change viable in the long term.
- Agroseguro is intensively working to foster the **balance and sustainability of the system**, by developing a **sustainable model** and enabling the transfer of knowledge and the generational renewal.
- Agricultural insurance is **committed with the present and future of primary sector** and society at large, promoting innovation and insurance products technically balanced and adapted to producers' needs.



**Thank you very much!**



# GLOBAL KNOWLEDGE EXCHANGE ON AGRICULTURE RISK FINANCE

Market-Based Instruments for Climate and Disaster Risk Financing for Agriculture

## DRIVE - Regional DRFA initiative in the HoA for pastoralists

Speaker

**Megerssa Miressa**

Country Manager, DRIVE Ethiopia  
ZEP-RE(PTA Reinsurance Company)

Disaster Risk Financing & Insurance Program



THE WORLD BANK



# DRIVE is a regional project supporting pastoralists, currently implemented in four countries located in the Horn of Africa (HoA)

## HORN OF AFRICA INITIATIVE



### Project Objective

To enhance pastoralists' access to **financial services** for drought risk mitigation, include them in the **value chains**, and facilitate the **livestock trade** in the Horn of Africa

### Project Financing

**\$360.5 million** total project cost

**\$28 million** Component 1 Global Shield (Formerly GRiF) grant



### Component Structure



**Package of financial services for climate resilience (\$179 Million)**

**1**

Support the provision of an integrated package of financial services to build climate resilience



**Livestock Value Chains and Trade Facilitation (\$181.5 Million)**

**2**

Better include pastoralists in the livestock value chain and facilitate trade in the Horn of Africa

### Implemented by:

ZEP-RE



Country Ministries, Departments and Agencies



## REGIONAL PROJECT RATIONALE

The regional project design is built on a platform approach for effective and scalable implementation & impact



**Peace building**  
Reduced cross-border movements



**Regional implementation**  
Risk pooling, economies of scale & lower operational costs



**Quality trade & infrastructure**  
Cross-country coordination on livestock trade ecosystem

# Financial package currently includes index-based livestock insurance and savings products tailored to pastoralists

## FINANCIAL SERVICES DELIVERED DIGITALLY



### LIVESTOCK INSURANCE

- **Index-based livestock insurance (IBLI)** coverage for Tropical Livestock Units (TLUs\*)
- **Premium subsidy** to support pastoralist for up to five TLUs

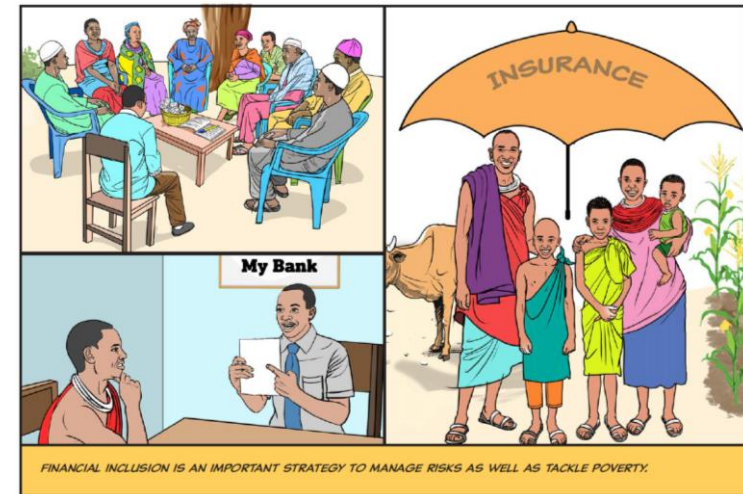


### SAVINGS ACCOUNT

- **Enrolment bonus** to introduce savings habits with formal financial institutions
- **Ongoing savings bonus** to incentivise continuous saving

*1 TLU = 1 cow, 10 sheep, 10 goats or 0.7 of a camel*

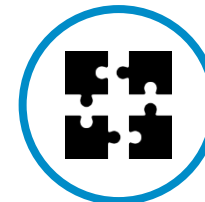
## OUTREACH & DISTRIBUTION



Snippet from DRIVE Training Booklet



**AWARENESS CREATION** activities by ZEP-RE in pastoralist communities



**DISTRIBUTION LINKAGES** facilitated by ZEP-RE with regional government teams

# DRIVE IBLI Product

An asset protection drought insurance cover whose aim is to keep the livestock alive and compliment pastoralists savings during drought events. DRIVE IBLI product is not a social protection scheme, as such, Insureds are expected to contribute to supplement the premium subsidy

Livestock Covered:



Sheep



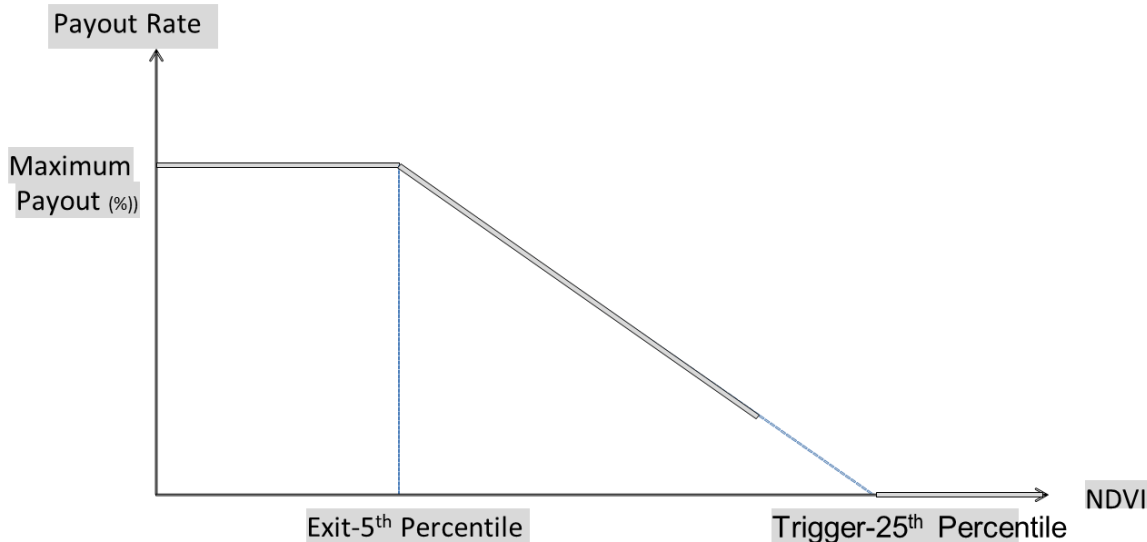
Cattle



Camel



Goat



## Distribution approaches



Banks and Livestock Professional Association



Bigger groups – NGOs, MFIs, Banks, Cooperatives, National & Regional Govt projects.



Distribution led by Bank Agents and Village insurance Promoters (VIPs) from the cooperatives  
*Enabled by a strong Cooperative model in Ethiopia*

## DRIVE\_IBLI Structure

Year 3 Structure	Ethiopia	Kenya	Somalia
Sum insured	\$140	\$140	\$150
Av. Premium-EVIIRS	20.79%	21.14%	21.19%
Coverage	Annual: calculated over the Wet season Only LR: March – June SR – Oct - Dec	Annual: Annual: calculated over Wet season Only LR: March – June SR – Oct - Dec	Annual: calculated over Wet season Only LR: April – June SR – Oct - Dec
Subsidy Level (Up to 5 TLUs)	70% all UAls	65% - Garissa, Samburu, Tana River, Wajir 70% - Isiolo, Mandera, Marsabit, Turkana, Kajiado, Laikipia, Lamu, Narok 80% - All new Counties	80% (90% new Regions)
UAls covered	97 - In Afar, Oromia, South Ethiopia, Southwest and Somali	265 in 21 counties	57– In Gedo, Hiraan, Bakool, Galguduud, Bay, Lower Juba, Lower Shabelle and Middle Shabelle
<b>Savings bonus</b>			
Enrolment bonus	\$50	\$50	\$50
Ongoing bonus	10% to a max of \$50	15% to a maximum of \$100	10% to a max of \$50

# Details of DRIVE impact to date: 3 million people have been impacted across three countries, with \$254M value derisked

## Total Number of Policies, Gender split and Productive Groups

Country	Year 1	Year 2	Year 3	Total Household	Total Pastoralists & their dependents**	% of Female	Productive Groups***
Kenya	74,552	64,127	48,224	186,903	1,196,179	60%	7,763
Ethiopia	52,805	84,646	25,492	162,943	1,042,989	45%	240
Somalia	44,408	68,965	10,392	123,765	792,096	59%	2,578
<b>Total HHs</b>	<b>171,765</b>	<b>217,738</b>	<b>84,132</b>	<b>473,635</b>	<b>3,031,264</b>	<b>56%</b>	<b>10,581*</b>

*Year 3 group data reconciliation ongoing and one sales window is remaining*

## Total Number of Partners and Payments made

Country	Private sector Partners (Banks and Insurers)	Premium collected	Private Capital Employed (Sum Insured)	Bonus paid	Claims paid
Kenya	18	\$17,556,496	\$85,214,733	\$5,459,650	\$5,107,781
Ethiopia	7	\$18,608,854	\$91,336,741	\$6,187,795	\$1,313,212
Somalia	7	\$15,243,881	\$77,319,345	\$7,076,300	-
<b>Total</b>	<b>32</b>	<b>\$51,409,231</b>	<b>\$253,870,819</b>	<b>\$18,723,745</b>	<b>\$6,420,993</b>

*\*\*The multiplier is 6.4 for dependents this translates to 3M pastoralists and their dependents*





# DRIVE has developed a platform that can be replicated for climate resilience initiatives in the continent

## Elements of the climate resilience platform

**Stakeholders Engagement.**  
Gvts,  
development partners and private sector

**Product Development**  
for resilience/  
fin inclusion

**Last Mile Distribution Channels.**  
**Capacity Building and Awareness**

**Aggregation of beneficiaries and linkages to markets**

**Fiduciary Management**  
across countries

**Digital infrastructure** can facilitate operational processes and cross-institutional collaboration

Climate resilience platform can be leveraged to:

## ROLLOUT IN EAST AFRICA, SAHEL REGION & BEYOND

Deepen uptake in Eth/Ken/Somalia for enhanced resilience e.g., cover additional livestock

Expand to additional countries in East Africa

Replicate the model to other regions like the Sahel to stabilize pastoral economies

**Thank You!**



# Case Study

## GLOBAL KNOWLEDGE EXCHANGE ON AGRICULTURE RISK FINANCE

Market-Based Instruments  
for Climate and Disaster Risk Financing for Agriculture

### SEADRIF - Opportunities and challenges for Scaling DRFA Solutions through Regional Mechanisms

Speaker

**Ellen Yong**

Chief Operating and Financial Officer

Disaster Risk Financing  
& Insurance Program



# Topics for today

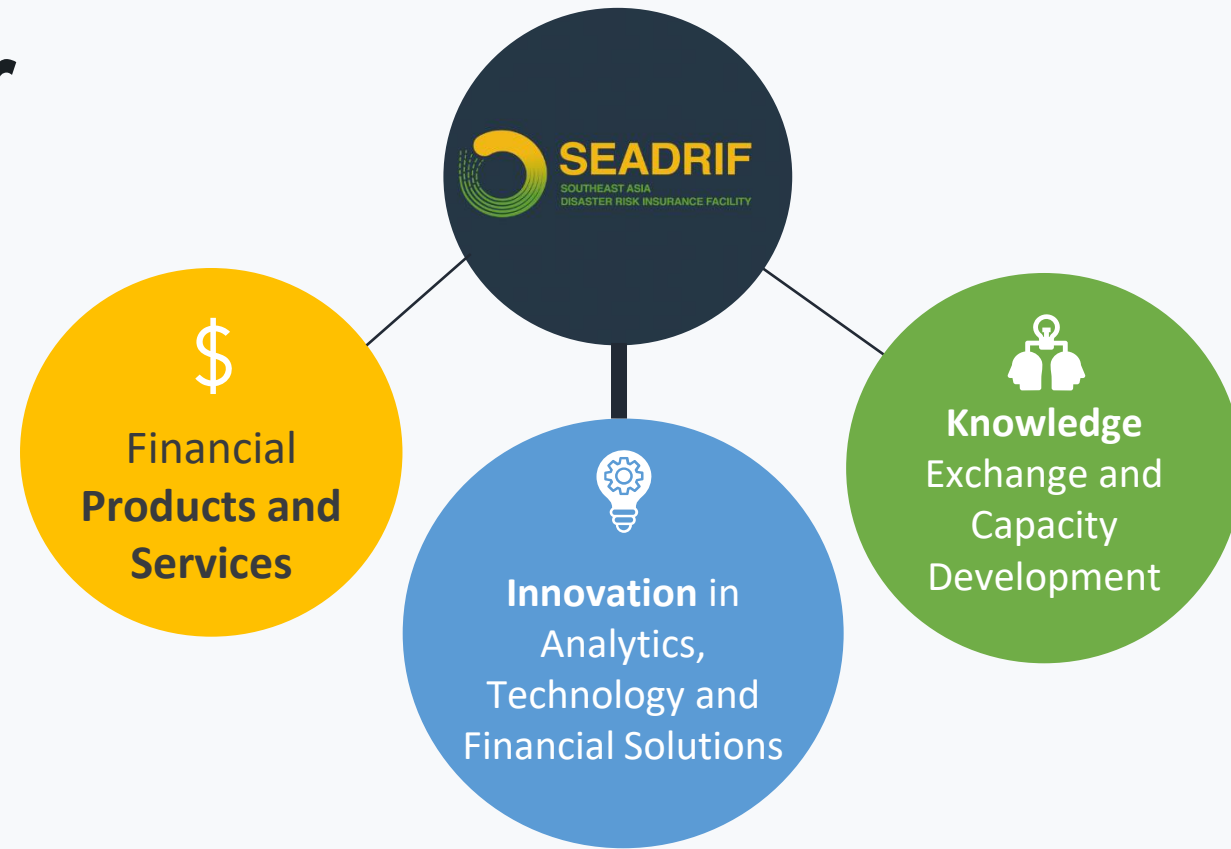
1. SEADRIF: Who we are
2. Regional cooperation in insurance – Challenges and Benefits
3. Opportunities for regional collaboration in agriculture risk finance

# SEADRIF: Who we are



# Southeast Asia Disaster Risk Insurance Facility (SEADRIF)

Provide ASEAN countries with insurance and technical solutions to strengthen financial resilience against disaster and climate shocks



Established through a Memorandum of Understanding signed by Finance Ministries.



Cambodia



Indonesia



Japan



Lao PDR



Myanmar



Philippines



Singapore



Vietnam

# Political mandate from ASEAN+3


16. We welcome the progress on the Disaster Risk Financing (DRF) after its upgrading as a regular agenda item under the ASEAN+3 finance track, with the support of the World Bank, **the Southeast Asia Disaster Risk Insurance Facility (SEADRIF)**, and the ASEAN Cross-Sectional Coordination Committee on Disaster Risk Financing and Insurance (ACSCC-DRFI).

...

We also welcome Mr. Yoshihiro Kawai as the Secretary General of the ASEAN+3 DRF Initiative Secretariat.

Joint Statement of the 27th ASEAN+3 Finance Ministers' and Central Bank Governors' Meeting Tbilisi, Georgia, 3 May 2024

# SEADRIF Insurance Company



Established to take the crisis out of disasters by developing and implementing financial solutions that arrange funds before a disaster.

Owned and overseen by SEADRIF member countries through a Trust in Singapore

Incorporated and regulated in Singapore as a licensed insurance company

Professionally managed and governed by industry experts

Established by members to co-develop solutions for members

Returning or investing any underwriting profits for members

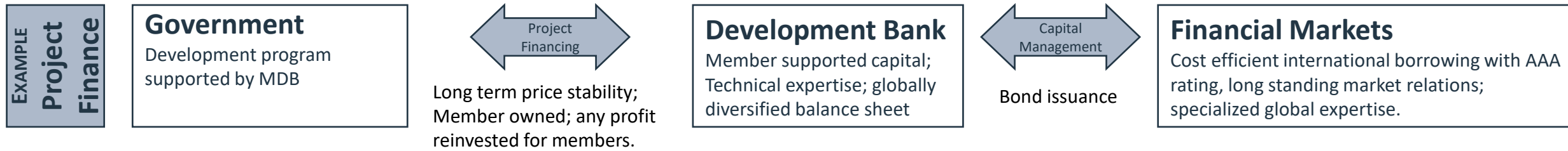
Donor supported capital and operating costs, no commercial investors



# SEADRIF: Development Insurer.

## A new development institution for our members

- **Development Banks** provide technical support and lending products for development investments to members



- **SEADRIF (Development Insurer)** provides technical support and financial products for disaster and climate risks



# SEADRIF Future Strategic Position:



## **Regional Center of Expertise**

We are a leading and recognized ASEAN+3 center of excellence for climate and disaster risk finance, enabling the efficient flow of international expertise, solutions, and capital to the region.



## **Affordable and fair insurance solutions for all members**

As a development insurer, we act as an efficient conduit to take climate and disaster risk to international insurance markets, securing the best price for all our members. As a multilateral organization we can overcome current bottlenecks to efficient insurance placement.



## **Regional risk pooling**

We are a regional risk pool that helps share risk across ASEAN countries, only paying for outside protection and private capital when it is most cost-effective to do so.

# What we do



The SEADRIF Insurance Company implements the SEADRIF initiative through:

**1. Our core mandate: Financial Products.**

*Develop and provide financial product to jointly manage and transfer risk to markets.*

**2. Risk finance support.**

*Value added services to help establish risk finance programs (e.g., transaction advisory).*

**3. Support public goods.**

*For the benefit of members, invest in data, risk assessment, training, tools and technology.*

**4. Convening and exchange.**

*Donor support and bring international good practice and insurance innovation to ASEAN.*

# We can support our members as:



1. **Center of expertise** on insurance and risk management services (e.g., product structuring, claims management, actuarial, risk analytics, technology).
2. **Transaction advisor** to governments or public insurers in product design and placement, including through analytics and efficiently engaging service providers and reinsurers.
3. **Direct insurer** to government, agencies or other relevant entity (e.g. utilities) to provide cover for assets (indemnity) or quick liquidity (parametric).
4. **Reinsurer to public insurers** to help bring risk to international markets efficiently and cost efficiently, operating in the public interest.
5. **Aggregator to pool risk between members** (either as insurer or reinsurer) and transfer to international markets more cost efficiently. (E.g., study estimated ~30% premium savings).
6. **Risk clearing house** to enable efficient (joint) purchase of insurance from international markets, while retaining no or very little risk directly.

# Products pipeline

*In place*



**Parametric  
Catastrophe  
Insurance**

*Lao PDR  
Since 2021*

*Under Discussion*



**Public Asset  
Financial  
protection**

*Philippines, first  
mover through  
public insurer*



**Scaling with  
partners**

*For example, in  
discussion with  
ADB, FAO, WFP*

*Future*



**Agricultural  
Insurance**

*Proposed  
Under  
ASEAN+3*



**Catastrophe  
Bond**

*Proposed  
Under  
ASEAN+3*

# Regional cooperation in insurance: Challenges and Benefits

# ASEAN: Challenges of Regional Cooperation

1. Wide diversity in country contexts : perils faced , agriculture mix, product availability
2. Different stages of public insurance programs (incl. Crop Insurance)
3. Varying levels of domestic market development
4. Complex to engage international markets, e.g., regulation, procurement, trust
5. Political difficulties of coordination and joint programs

Most countries have faced challenges in their agricultural sector and many SEADRIF member countries have identified expanding coverage as a priority

# But there are common gaps and needs

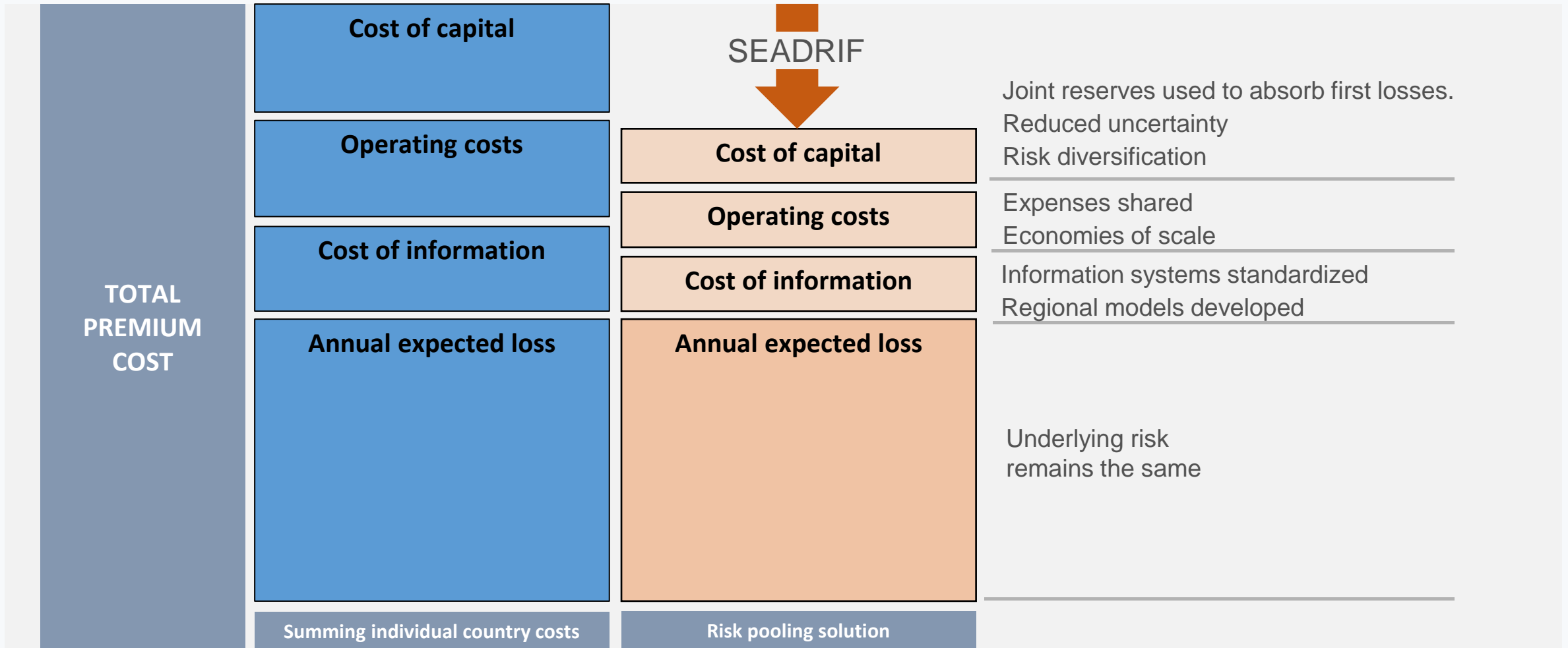
1. Expanding coverage cost-effectively
2. Reduce transaction costs and streamline access to international markets, establishment of insurance programs and procurement
3. Access to data, models and specialised insurance expertise
4. Access to technology and innovation
5. Access to cost-efficient reinsurance capacity
6. Premium affordability and cost sharing between insured and public support



# Benefits of Regional Collaboration in Insurance

1	More efficient insurance coverage through a regional pool (risk diversification, economies of scale, better negotiating power)	☑ Reduce cost
2	Simplify go to market for governments (reduced transaction costs)	☑ Reduce time and cost
3	Provide centralized technical expertise in placement and market negotiations	☑ Improve product and conditions
4	Support insurance of more difficult-to-insure assets and/or perils	☑ Increase protection
5	Joint access to testing and implementing new technology and products	☑ Innovative products
6	Help smooth insurance prices over insurance cycles	☑ Increase budget and price stability

# The financial case: Strength through diversification



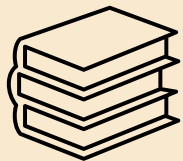
# Regional collaboration in agriculture risk finance

# Opportunities for joint agriculture insurance activities

SEADRIF was set up as an ASEAN+3 regional institution to support members to strengthen their financial resilience to climate risks and natural disasters. This can provide a long-term institutional home for ASEAN wide efforts.

## Knowledge and experience exchange

- Support the design and implementation of agriculture insurance policies and technical programs
- Deeper sharing to help countries learn from each other and the experience of existing programs
- As a regional institutions, SEADRIF can promote such exchange of good practices and practical experience



## A regional platform for data, tools, and technical services

- Provide joint technical services to countries, help develop data practices and infrastructure, support risk assessment and analytics, and post-event damage or loss assessment.
- Crowd in innovative technology solutions and private sector technical expertise to support agriculture insurance.
- Ideally, numerous existing ongoing public or private services could be brought together under a single platform as a facilitator to help countries leverage these services. This could be a single-entry point for governments to access ongoing initiatives and private companies more easily.

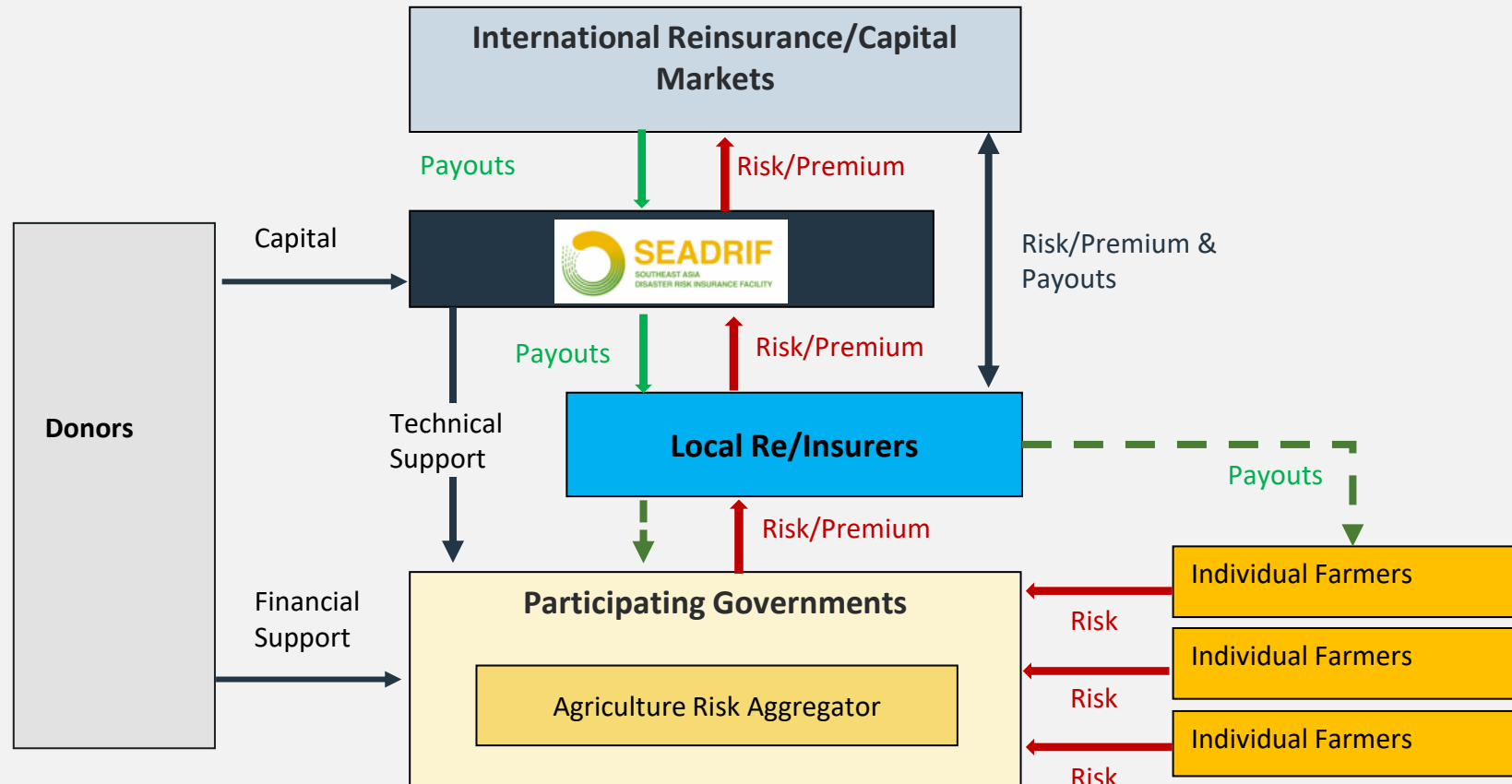


## Joint financial solutions

- Countries can enhance national program through a joint platform to provide more efficient reinsurance to members, benefiting from regional aggregation and no commercial profit margins.
- Enables more efficient use of capital from economies of scale through pooling a more diverse and larger portfolio of risk, retaining some risk and transferring to the re/insurance and capital markets, better pricing and more competitive terms and conditions than a single country acting individually.
- It could also stabilize re/insurance prices against fluctuations in market conditions or underwriting cycles.
- Reduce transaction costs through more streamlined procurement of re/insurance and centralized claims management.
- Developing countries may also benefit from significant donor financing through grants and/or (concessional) financing in earlier stages.



# Illustrative outline of a regional facility



*Building on a proposal in a 2021 World Bank presentation to an ASEAN+3 DRF working group*

# Thank you



# SEADRIF

SOUTHEAST ASIA  
DISASTER RISK INSURANCE FACILITY



An ASEAN+3 Initiative  
In partnership with The World Bank

Disaster Risk Financing  
& Insurance Program



# Time for Questions

## DRF Community of Practice & Resources



Join our Community of Practice



Join our Disaster Risk Finance and Insurance LinkedIn Group



Check out DRF resources @ Financial Protection Forum

# Closing Remarks

## Ilias Skamnelos

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Practice Manager, Finance,  
Competitiveness and Investment  
Global Department (East Asia and  
the Pacific), World Bank Group



Photo Credit: Hartono Subagio / Pixabay





# Thank You

Disaster Risk Financing  
& Insurance Program

