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Public-private partnerships for agricultural insurance

Istanbul, 7 to 11 April 2025



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1

Public Private Partnerships (PPPs) in Agricultural Insurance

Rationale for PPPs

Role of government support to PPPs

Premium subsidies and costs



2

International Experience with PPPs in Agricultural Insurance

Spain (pool)

India (open-market competition)

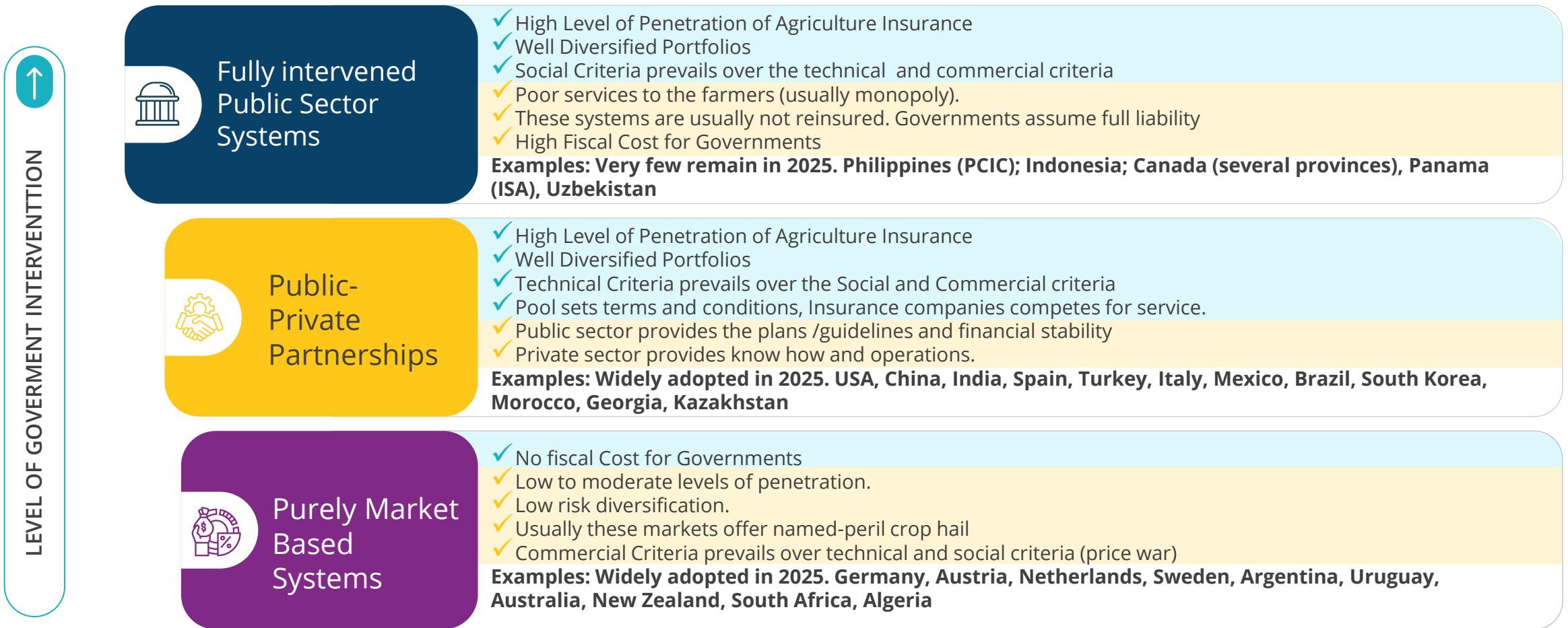


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Lessons and Conclusions



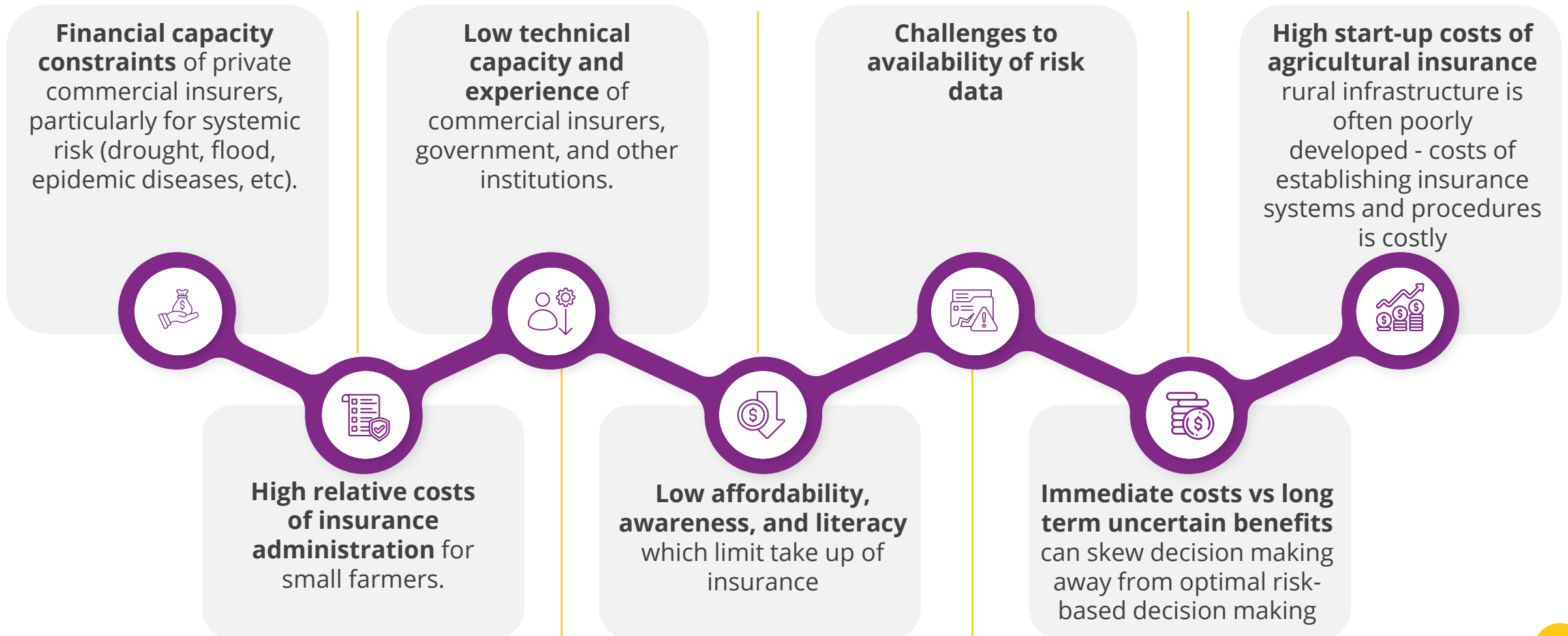
International experience shows that Public Private Partnership (PPP) models bring scalability and sustainability



Source: Iturrioz 2010; Mahul & Stutley 2010.

Why is government support to agricultural insurance needed?

Market failure: limited availability of private-sector agricultural crop & livestock insurance especially for small farmers.



Why invest in agricultural insurance programs?



Farmers



Increase investment and production:

- Improves access to agricultural credit (replaces collateral)
- Improved ability to repay agricultural credit (remain creditworthy)
- Encourage effective and climate-smart farming practices



Stabilize consumption & incomes in event of crop failure



Government



Increased Investment, productivity, growth, and food security



Cost-effective, transparent, and objective protection for the most vulnerable



Stabilized agricultural incomes: reduced need for ad-hoc disaster relief



Social objectives: (e.g. reduces rates of rural-urban migration)

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The roles of government in agricultural insurance programs are much broader than just premium co-financing

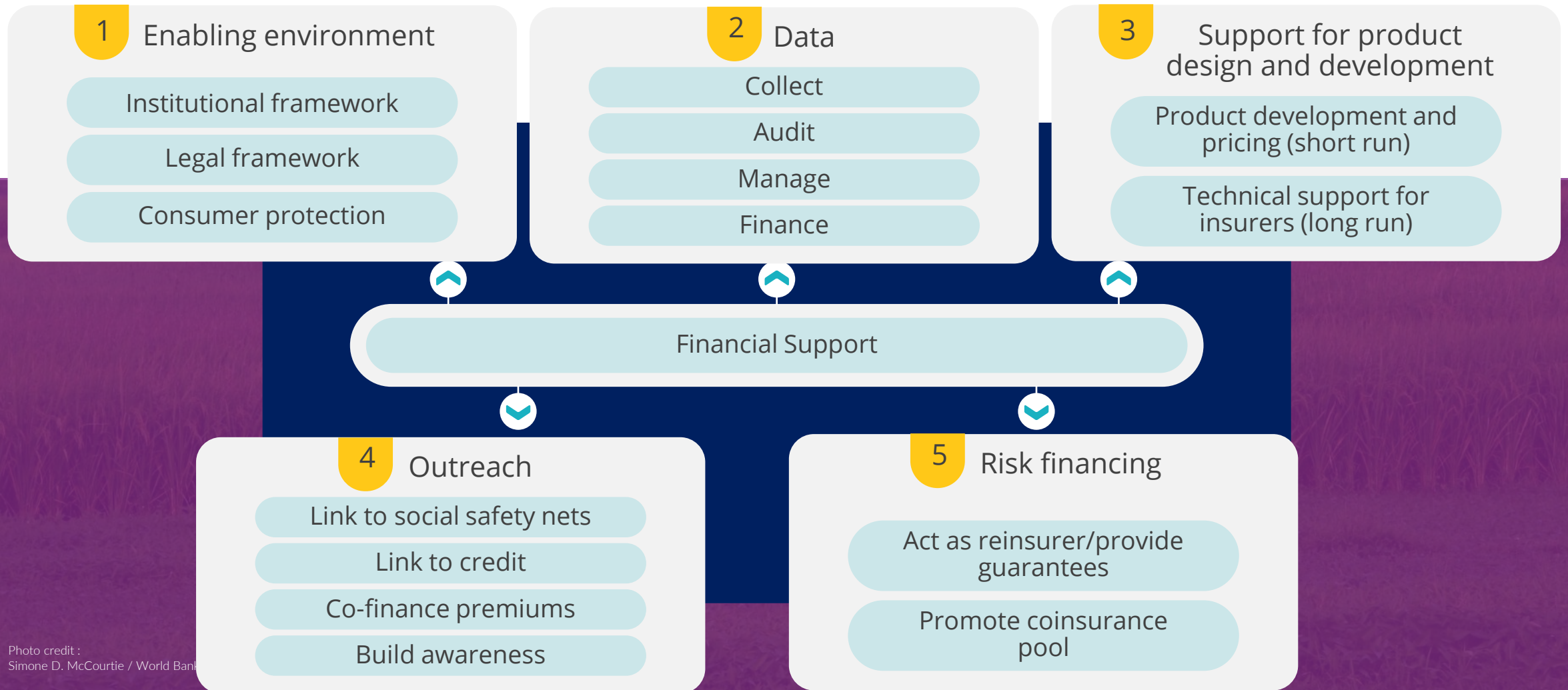


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Examples of major national PPP programs

Country	Agriculture Insurance Pool	Forms of Government Support for Agriculture Insurance				
		Public Sector Insurer	Premium Cofinancing	Financing for Administrative and Operational Cost	Support for Research and Development	Risk sharing for catastrophic losses
USA	No	No	Yes	Yes	Yes	Yes
Canada	No	Yes	Yes	Yes	Yes	Yes
Spain	Yes	No	Yes	No	Yes	Yes
Portugal	No	No	Yes	No	No	Yes
Italy	No	No	Yes	No	No	No
France	No	No	Yes	No	No	No
Turkey	Yes	No	Yes	No	Yes	No
India	No	Yes	Yes	Yes	Yes	Yes
South Korea	No	No	Yes	Yes	No	Yes
China	Yes	No	Yes	Yes	No	Yes
Brazil	No	No	Yes	No	No	Yes
México	No	No	Yes	No	Yes	Yes
Chile	No	No	Yes	No	Yes	No
Colombia	No	No	Yes	No	No	No
Philippines	No	Yes	Yes	No	No	No

Source: Adapted from Mahul & Stutley 2010 and updated to 2024

Premium co-financing: much needed, but must be sustainable



The costs can be extremely high:

- USA US\$ 12.0 billion (62% of total cost)
- China US\$ >8.0 -10.0 Billion (80% - 100% of premiums)
- India US\$ >3.5 Billion (85% - 100% of premiums)



These can prove unsustainable

- Brazil 2016: Federal Government defaulted on its premium subsidy commitments
- Mexico 2018: Federal Government had to drastically cut the premium subsidy budget
- India 2023: Since the introduction of PMFBY in 2015/16, the scheme liability has doubled. Some states spend the majority of their annual agricultural budget on premium subsidies



Governments should develop SMART premium co-financing strategies considering:

- Policy objectives – social protection vs investment, production, and growth
- Affordability (to farmers vs government)
- Targeting – where can co-financing be most effective and where is it most needed
- Fiscal sustainability – how can the public burden be managed or reduced in the long term?
- Equity – how should co-financing be most fairly distributed?
- Incentives – what level of co-financing is needed to encourage take-up, whilst ensuring farmers still proactively manage risk?



Politically difficult to reduce or withdraw once introduced

Coinsurance pools can help new markets grow

A pool = a group of insurers that offer common insurance services and products while sharing operating costs and risks.

Several successful major international subsidized agricultural insurance schemes adopt a pool structure



Spain: AGROSEGURO Pool established in 1980 with 17 major private insurers plus 1 public reinsurer CNS



Turkey: TARSIM Pool established in 2006 with 26 private insurers with equal share in the Pool

Advantages of private sector participation

Crowding in the private sector is important to **mobilize their capital** – limiting the risk and burden to government – and bring **innovation and client networks**.

Advantages of pooling

Forming a **coinsurance pool** can help:



Facilitate private sector to enter the market and cover catastrophe risks that they on their own cannot cover



Scale up insurance provision



Share experience and data to assess the risk and set premiums and design new products;

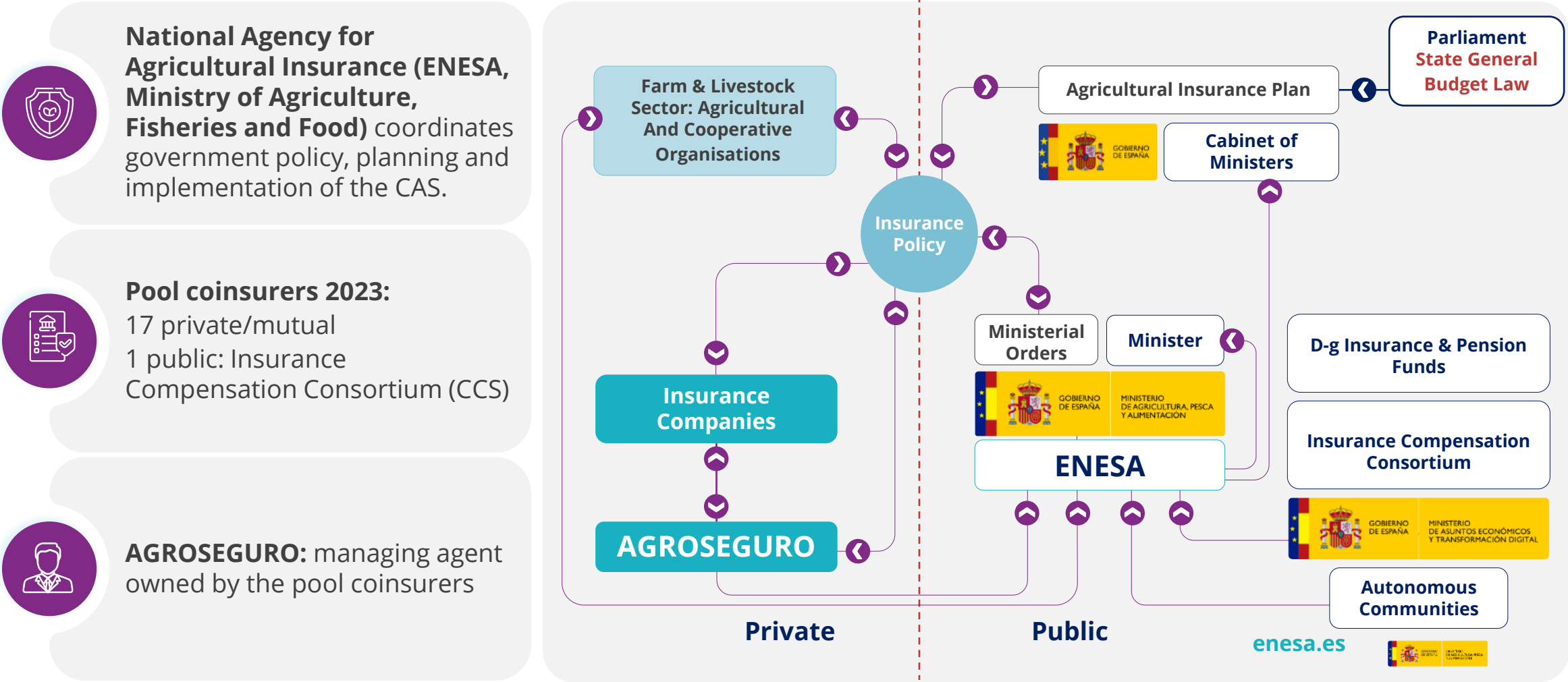


Achieve **economies of scale** in the administration and operating expenses of a single insurance pool entity



Reduce the costs of reinsurance through risk diversification and pooling, thereby leading to cheaper premiums.

Spanish Combined Agricultural Insurance Scheme (CAS): Organizational Structure of the Grouping of Pool Agricultural Insurers (AGROSEGURO)



Key takeaways

Photo Credit: Scott Wallace / World Bank

Government support goes well beyond premium co-financing



Public Private Insurance Partnerships (PPIPs) can stimulate agricultural insurance market development



Private commercial insurers are typically best placed to underwrite and take risk



Creation of enabling legal & regulatory framework



Awareness, education and training



Data & information enhancement and dissemination



Product design & rating (technical support)



Promote / capitalize PPP coinsurance pools



Governments should exercise fiscal prudence over premium co-financing to ensure sustainability/ scalability



In some circumstances, government support as a **reinsurer of last resort** may be justified



Coinsurance (pool) agreements are well worth considering in start-up years of a new program



However, the **best organizational framework for a PPIP** always depends on local market conditions.



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Thank you /
Merci / Спасибо



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Case Study :

India's Pradhan Mantri Fasal Bima Yojana (PMFBY)



Outline

Photo credit : Graham Crouch / World Bank



India crop insurance: PMFBY overview



PMFBY: key challenges & solutions

India's Area Yield Index Insurance Program: Pradhan Mantri Fasal Bima Yojana (PMFBY)



Context

- 1.4 billion population: 70% in rural areas
- 146 million farms - average farm size 1.08 Ha.
- 85% farmers small & marginal
- Most growing cereals, pulses, oilseeds, but depends on location.
- 7th largest country: heterogeneous geography & climate, 36 States/Union Territories
- 2 seasons: Kharif and Rabi
- Key risks: drought, floods, heatwaves, coldwaves, cyclones



Objectives of national crop insurance scheme

- Provide smallholder farmers access to seasonal crop loans
- Reduce levels of indebtedness/default
- Smooth consumption, increased crop productivity and incomes



India's Solution since 1980

- **Area Yield Index Insurance (AYII)** to overcome issues of offering individual MPCl policies to smallholder farmers
- + Weather Index Insurance (WII) since 2003 for crops unsuitable for AYII, but far less widespread
- **New government scheme PMFBY launched in 2016 & revamped 2020**

PMFBY AYII Scheme: Key Features and Achievements

Highly subsidized



Affordability/accessibility:

farmers only pay very low % of premium share: 2.0% (Kharif) & 1.5% (Rabi)



Premium subsidies:

Govt and the state governments fund balance of premium subsidies



2023 Central government US\$1.6 billion allocation to PMFBY

mostly for premium subsidies



State governments pay remaining 50% share (10% for some states)



States can opt in or out

Achievements By 2023-24



Largest subsidized crop insurance scheme in the world: c. 35 million insured farmers



3rd largest scheme by volume of Gross Written Premiums - nearly US\$4 billion



The total insured area: 59 million ha = c. 30% gross sown area (but below 50% target)



c.60% farmers now have access to formal crop credit



Farmer value for money: for every US\$ 1.2 premium paid by the farmer, received US\$ 6 in claims

PMFBY AYII Scheme: Challenges and Solutions

Crowding in the private sector

From public insurer monopoly to PPP



Public sector monopoly insurer 1980 to 2005: state-owned specialized agricultural insurer AIC



2011+: market reforms → actuarial premium rates



2015/16+: GoI encouraged Private Sector competition



Now: government-approved public & private insurers can bid to insure the scheme at a state-level



2020+: tenders issued for 3-years instead of 1-year = increased commitment to investing in infrastructure and manpower

Today's PPP structural overview



c.18 General Insurance companies, including 5 Government Sector Companies are empanelled to underwrite PMFBY



Agriculture Insurance Company of India Ltd. (AIC) is the largest PMFBY insurer (33% market share)



The Department of Agriculture and Farmers Welfare manages the scheme at central level through a 70-person strong National Technical Support Unit (NTSU)



In collaboration with the NTSU, the state-level Departments of Agriculture are responsible for managing and overseeing scheme implementation.

PMFBY AYII Scheme: Challenges and Solutions

Improving farmer perception

1985 – Kharif 2020: compulsory insurance for loanees, but very unpopular with farmers and state governments



For governments

increasing premium rates & premium volumes



For farmers

lack of awareness, transparency, & timeliness

Kharif 2020+



made voluntary for all farmers

2023-24: insured farmers increased by 36% Vs 2021-22.

Many changes to improve service, e.g.:



Penalties for delay in claim settlement for states, insurers & banks going beyond 10-days of prescribed cut-off date for payment of claims.



States banned from implementing scheme in subsequent seasons if premium subsidy release delay to insurance companies



GoI back-end technology investment for easier farmer enrolment & automation of all processes.



Government-funded **insurance awareness** drives




Add-on covers option for states to provide more comprehensive risk protection throughout season




Insurance company longer tenure & CCE improvements

Summary on India Crop Insurance Overview


 India has had great success, but government financial commitment is significant and has been key


 Challenges encountered and solutions offer important lessons for other countries, e.g.

- Benefits and challenges of AYII for smallholders
- Public-private partnership model and how to crowd in private sector insurers
- Continued monitoring and improvements to achieve and maintain scale, and improve offering for all stakeholders

 Sheer land and population size of India and its objectives to cover majority of smallholders should be taken into account

 Crop insurance is still continually evolving after 40+ years and new challenges emerge

 Some lessons from other countries will equally be important for India now scheme is voluntary, i.e. alternative distribution channels

 Role of technology is key – for all back-end and front-end processes. India is at the forefront of this technological revolution and remote sensing for AYII could be a game-changer on a global scale.