

The contribution of Public-Private Insurance Programmes in responding to natural hazard risks

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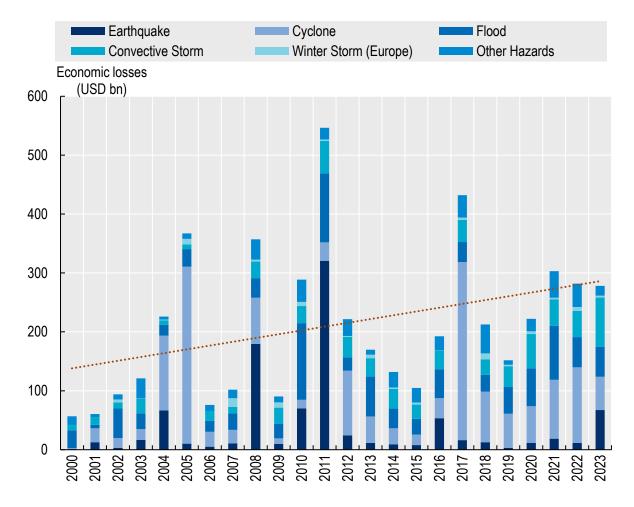
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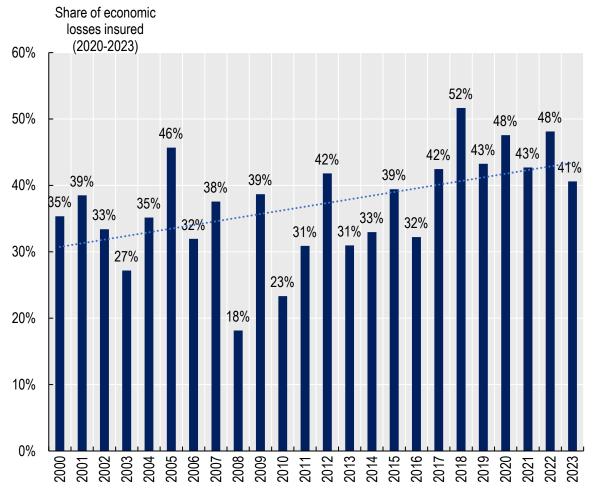


Economic losses from natural hazards are rising across the world...



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...with some progress in reducing protection gaps...



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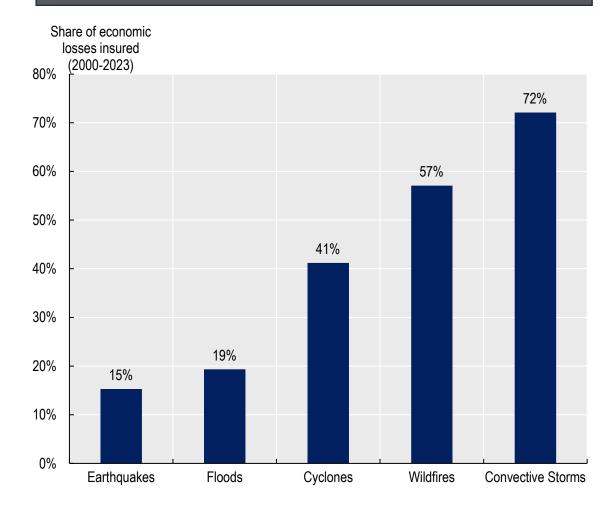


...although significant protection gaps remain in many countries...

Insured share of losses 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% Acting Clifs are 25 of Lag Chering Spirits are 34 feet frequency and 25 of the 15 of t

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...and for many types of natural hazards



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G7 High-Level Framework for Public-Private Insurance Programmes (PPIPs) against Natural Hazards



Assessing protection gaps

- Potential financial exposures
- Availability and take-up of insurance
- Potential financial vulnerabilities
- Possible adverse impacts on public finances

2

Exploring possible actions to address protection gaps

- Improving risk awareness and financial literacy
- Incentivising and investing in risk reduction
- Enabling regulatory/supervisory environment
- Assessing necessity and viability of PPIP

3

Developing a PPIP for tackling disaster risks

- Possible objectives for PPIP
- Potential design features
- Implementation needs





1. Assessing protection gaps

1.1 Overall exposure to natural hazards

Assessment of current and evolving risks, especially due to climate change

Hazards / exposures / vulnerabilities

1.2 Financial vulnerabilities and their drivers

Identification of potential *financial* exposures to households and businesses due to damages and losses

Availability and uptake of insurance

Potential financial vulnerabilities and adverse impacts

Factors limiting availability and/or take-up of insurance

- High exposure to damages and losses
- Correlation of risks
- Challenges in risk quantification

- Low levels of financial literacy
- Expectation of government compensation
- High insurance costs

- Households
- Firms
- Government





2. Exploring the range of possible actions to address protection gaps

2.1 Improving risk awareness and financial literacy

- Awareness of exposure to hazards and potential impacts
- Understanding of the need for applicable insurance
- Clarity on the availability (and limitations) of public compensation

2.2 Incentivising and investing in risk reduction

- Government investment in risk reduction
- Funding for risk reduction at community and property-level
- Incentives for policyholder risk reduction

2.3 Enabling regulatory / supervisory environment

- Insurance market development and sound regulation
- Market access for insurance and reinsurance
- Pricing flexibility (on actuarial grounds)
- Application of digital technologies

2.4 Assessing the necessity and viability of PPIPs

 Effectiveness of existing measures against potential implementation of a PPIP





3. Developing a PPIP to tackle disaster risks

3.1 Potential objectives

- Ensure broad availability and affordability of coverage
- Leverage available private insurance, reinsurance and capital market capacity, while maintaining solvency
- Limit public sector exposure to losses
- Encourage risk reduction and adaptation

3.2 Design features

- Scope of programme (eligible hazards, policyholders)
- Type of financial protection (insurance, reinsurance,..) and role in the market (complement/substitute)
- Extent of compulsion and approach to premium-setting
- Other elements to support objectives (e.g. premium discounts, funding for policyholder risk reduction)

3.3 Implementation needs

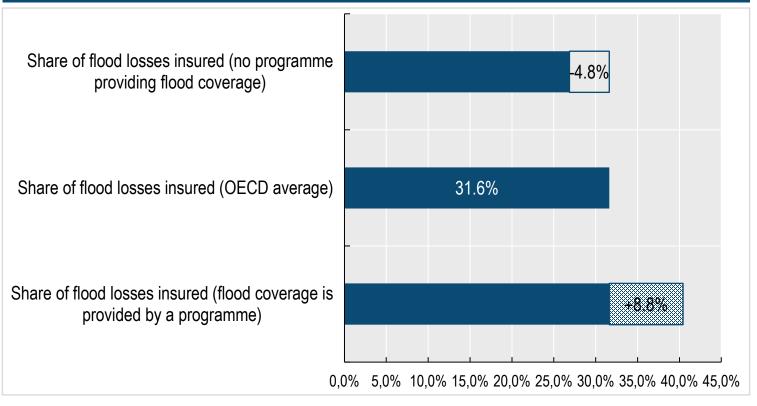
- Ensuring effective coordination across government
- Designing effective scheme governance
- Building institutional capacity
- Fostering use of technology
- Ensuring involvement of insurance supervisors





3. PPIPs can support broad coverage

Co-insurance and risk pooling arrangements can support broader coverage



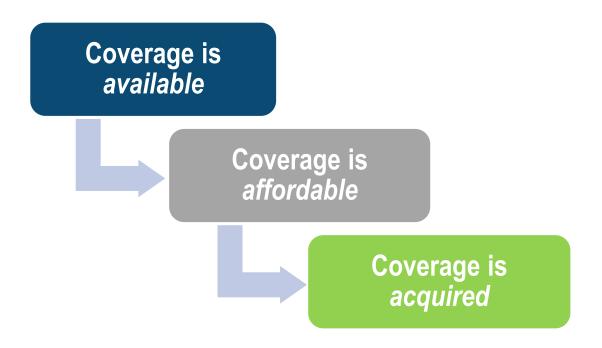
Public-Private Insurance
 Programmes can enhance the availability of affordable insurance coverage, particularly in areas at high-risk

Source: OECD calculations using data from Swiss Re, sigma database. All rights reserved (OECD members, excludes flood loss years with no reported insured losses)





3. Design features for achieving broad coverage



- Broad eligibility for programme coverage (hazards, insureds)
- Limited programme exclusions
- Significant programme influence on premium pricing
- Compulsion, automatic inclusion, (broad) mortgage-related coverage requirements
- High existing insurance penetration





3. Design features for leveraging private market expertise and capacity

Potential benefits of insurance market participation







Coverage distribution

Risk assessment

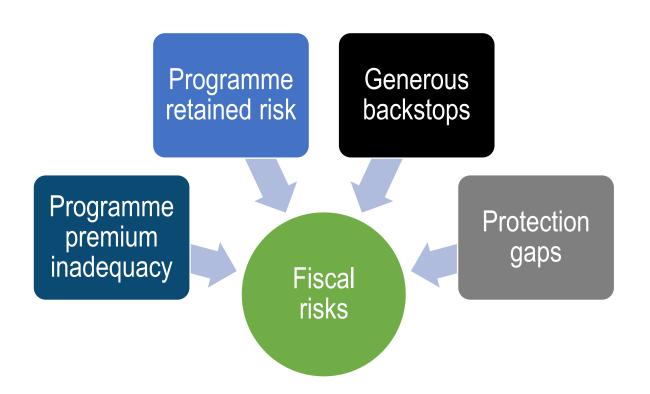
Risk absorption

- Limited eligibility for programme coverage (hazards, insureds)
- Limited (basic) programme coverage
- Coverage exclusions (e.g., insurable, low-risk)
- Programme as co-insurer/reinsurer
- Programme risk transfer to reinsurance/retrocession markets
- Level-playing field





3. Design features for minimising fiscal risk

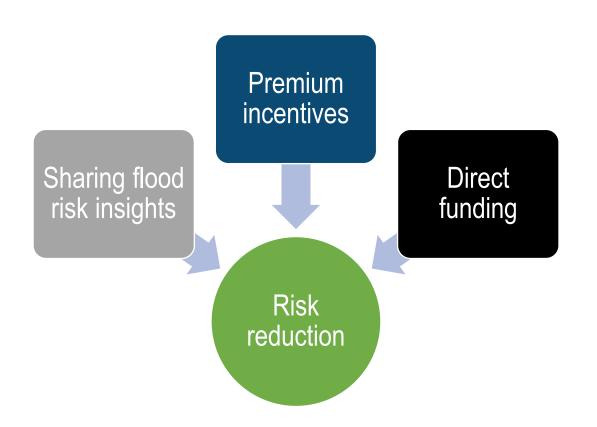


- Programme assumes limited risk (limited eligibility, coverage limits, coverage exclusions)
- Programme transfers significant risk to reinsurance/ retrocession markets
- Government backstop is limited, compensated and/or repayble
- Programme collects sufficient premiums
- Broad insurance coverage is achieved (programme or private sector)





3. Design features for encouraging risk reduction



- Broad view of risk (broad programme scope)
- Extensive sharing of risk insights
- Close relationship with government
- Risk-based pricing and premium discounts
- Programme as direct insurer
- Provision of funding for risk reduction





Design approaches for different hazards

Multi-hazard programmes (France, Iceland, Norway, Spain, Switzerland)

- Direct insurance, coinsurance or reinsurance
- High levels of solidarity/ mutualisation
- Automatic coverage inclusion
- Varying levels of government support

Earthquake programmes (Japan, New Zealand, Türkiye, US (California))

- Direct insurance or reinsured standard policy
- Often provides basic level of coverage
- Some risk differentiation
- Mandatory or optional addon to standard fire
- High (but not universal) government reinsurance or backstop

Flood programmes (Australia, United Kingdom, United States)

- Direct insurance or reinsurance
- Automatic inclusion of optional add-on
- Risk differentiation more common
- Some focus on high-risk
- High (but not universal) government backstop





3. Potential trade-offs between different design features (examples)

Broad eligibility (and coverage)

Coverage affordability



Private market participation

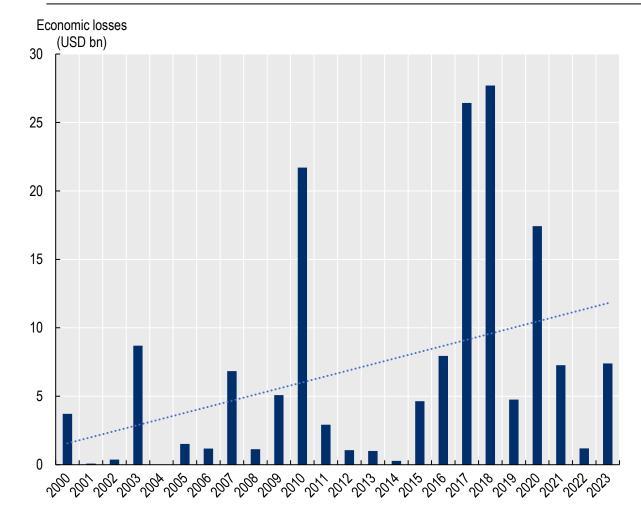
Incentives for risk reduction

Fiscal cost





Emerging natural hazard risk: wildfire



- High-levels of insurance (fire is fire)
- Availability and affordability challenges for high-risk properties
- No catastrophe risk insurance programme coverage (except FAIR plans)
- Significant focus on risk reduction (in some countries) – rather than exclusion
- Interest in the role of forestry insurance in incentivising risk reduction

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