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Inception Meeting –

Technical Assistance

Developing a Disaster Risk Transfer Facility in the Central Asia Regional Economic Cooperation Region

8 September 2020



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Present the rationale, scope and outputs of the regional technical assistance

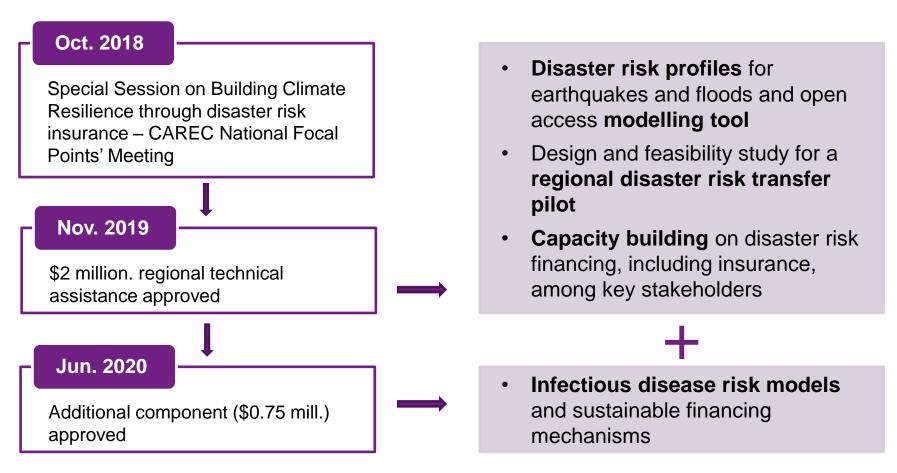
Obtain inputs and feedback from member countries on:

- Inception report, including proposed approach and methodology for the project outputs;
- Expectations from the project;
- Existing disaster risk financing challenges and countries' disaster risk management priorities going forward;
- Countries' preparedness and response to pandemics / epidemics: lessons learned from COVID-19.

Discuss next steps and work program for 2020-2021

Regional Technical Assistance

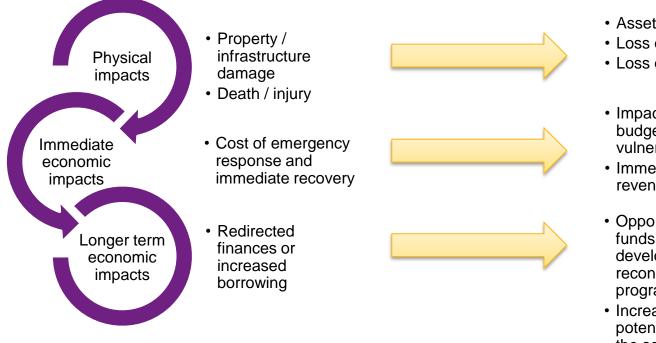




The work of this TA will be coordinated with other development partners and complementing disaster risk management initiatives in the region

Natural Hazards Hurt People, Assets and Economies





- Asset Loss and damage
- · Loss of home/shelter
- Loss of life and livelihood
- Impacts on government budgets and coping capacity of vulnerable population
- Immediate impact on tax revenue and GDP
- Opportunity cost of diverting funds from intended development plans to reconstruction and recovery programmes
- Increased borrowing costs and potential negative impacts on the sovereign credit rating

The aim of the project is to help ensure that CAREC countries have appropriate liquidity to respond to catastrophe events more quickly and efficiently: saving lives, protecting the vulnerable and minimising financial impact.

Disaster Risk Finance (DRF) Lessens Disaster Impacts



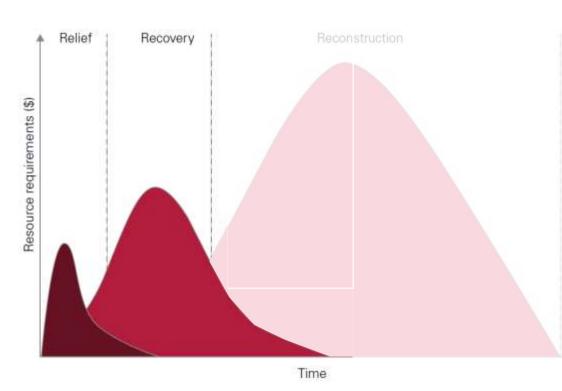
Studies show that the more a country is insured, the lower the economic impact of a natural disaster AND the faster the recovery Asia, including in the CAREC region, has a very low insurance penetration but a very high share of global natural disasters

Economic losses from COVID-19 could range from \$1.7 trillion to \$2.5 trillion in Asia and the Pacific region alone





Early, Effective Emergency Response is Vital



ADB CAREC

- Key requirements for relief and early recovery:
 - Timeliness of funds
 - Predictability of funds
- Various studies have shown that \$1 received immediately after a disaster is worth up to \$5 delivered later in typical aid cycle
- The current approach typically relies on budget reallocation or external support

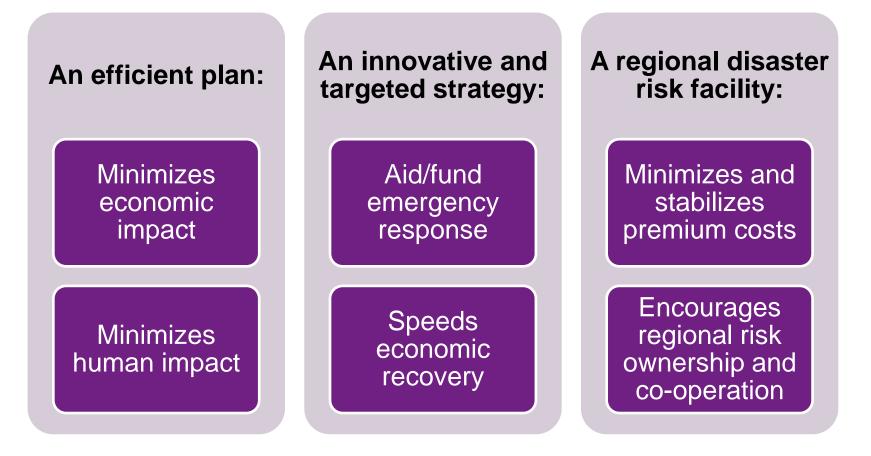
Relief: Within 2 months of disaster

- Humanitarian response
- e.g. providing food, medicine, shelter

Recovery: Within 9 months of disaster

- Restoration of basic services and economic productivity
- e.g. Re-starting transport, energy supplies, markets





Countries with an integrated disaster risk financing approach including higher insurance penetration recover from disasters more quickly

The Project Will Be Collaborative



A consortium has been appointed to assist this process

Reports and tools will be developed for use of member countries to help in disaster risk understanding and strategy optimisation

All forms of disaster risk finance will be reviewed, with a focus on emergency response and protection of the most vulnerable

The focus is on capacity building, practicality and innovation

The active participation of CAREC members is strongly encouraged for this workshop and throughout the process

The Project Team



Willis Towers Watson – Risk Specialists

·Leading global advisory, broking and solutions company

•Role in creation and protection of all current regional risk pools, leaders in catastrophe and financial modelling

Metabiota – Epidemic/Pandemic specialists Global pandemic/epidemic model: CAREC regional coverage, Covid-19 spread and impact monitoring and modelling 	Aga Khan Agency for Habitat Internationally renowned focal point for the coordination of the risk reduction activities across Central Asia
ODI – Resilience Specialists Prominent independent think tank on resilience and development 	The Regional Environmental Centre for Central Asia • The leading regional experts in capacity building and stakeholder engagement
Pengwern Associates– Economics specialist •Leading development economists	 Nankai University & Inner Mongolia University Noted academic institutions in China focusing on disaster risk management
 JBA – Flood specialists Global flood model, leading flood specialists including user risk visualisation 	Global Health Research Center of Central Asia Working to address a range of threats facing vulnerable communities across Central Asia
GLOBAL HEALTH RESEARCH CENTER of CENTRAL ASIA Pengwern Associates	
ODI OCEAL EARTHQUAKE MODEL working together to assess risk	JBA High

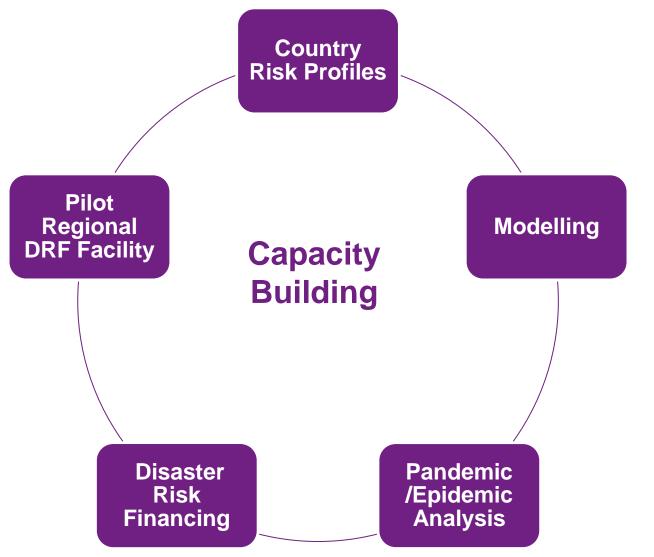
Understanding is the Key to Achieving Project Aims



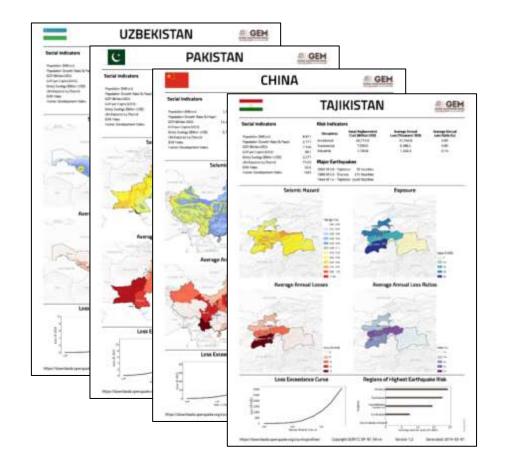
Understand potential hazards	FloodEarthquakeEpidemic/Pandemic
Understand what is at risk	PeopleEconomy
Understand potential impacts	 Vulnerability (age/wealth/gender) including lessons from past events Economic loss: impact on lives and wealth
Understand what might change	Population/WealthClimateResilience
Optimize country disaster financing	 Review current arrangements Design optimal mix, including risk transfer component (insurance or capital market)
Design regional disaster insurance facility	Product offering: including price optimisationStructure, operation, capitalisation and protection

What the Project Will Deliver



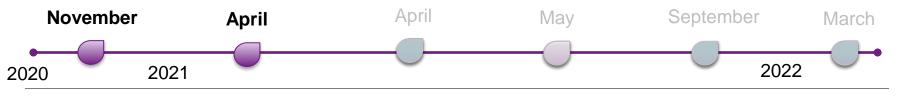


Country Risk Profiles: Understanding Risk





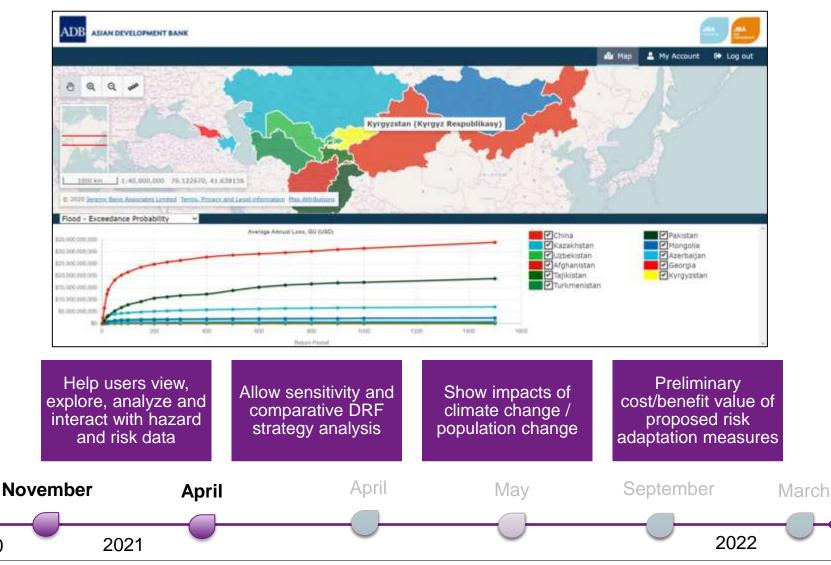
- Individual reports on earthquake and flood risk profiles including assets at risk; stochastic risk modeling analysis; and aggregated exceedance probability curves
- Demonstrate pandemic/epidemic impacts including case count, mortality, and duration



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Modelling 1: Client Engagement Tool





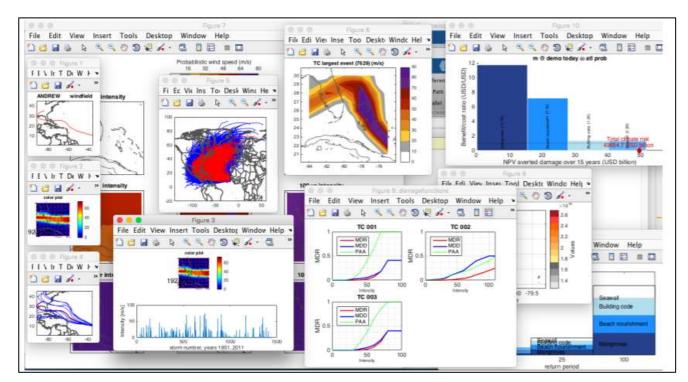
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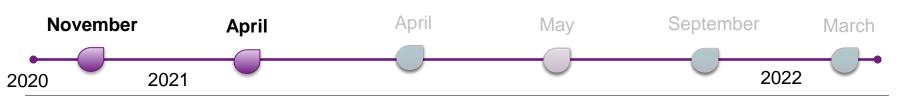
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Modelling 2: Climada

The team will populate a catastrophe model in open source software Climada to allow more detailed assessment of risk management options / exposure changes



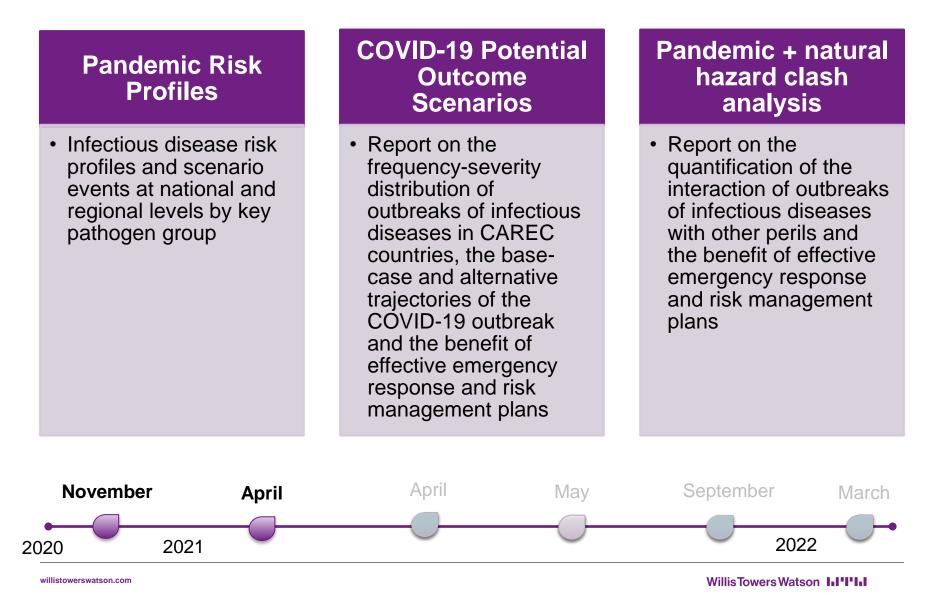


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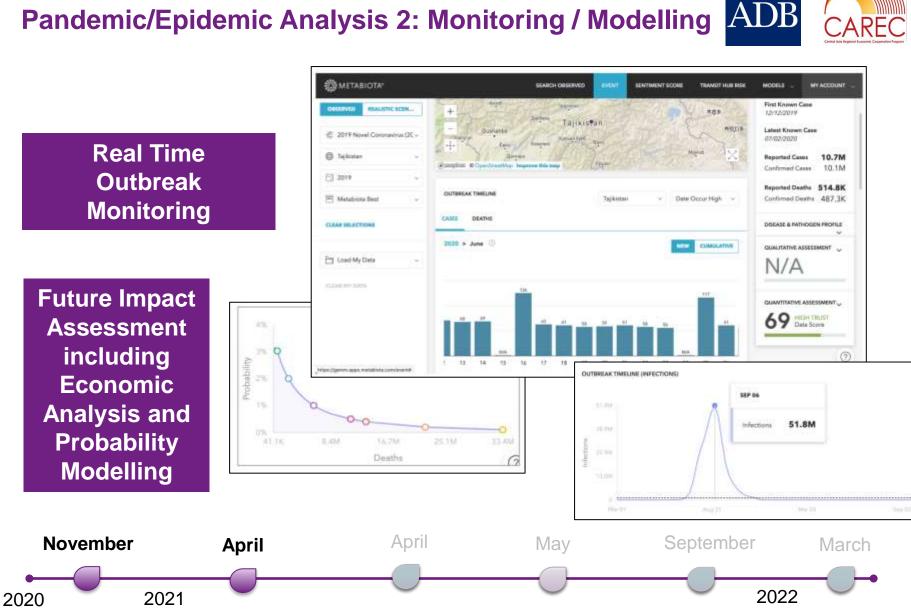
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Pandemic/Epidemic Analysis1: Reporting





Pandemic/Epidemic Analysis 2: Monitoring / Modelling

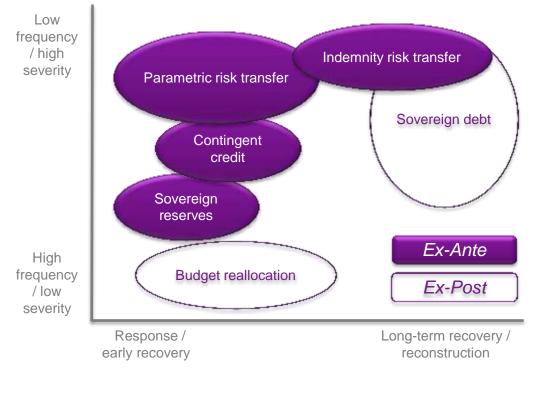


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Disaster Risk Financing: Review / Needs Assessment



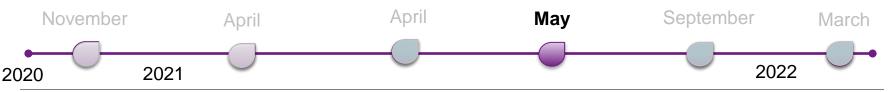


Layered approach to risk finance

- Provides flexibility
- Different mechanisms to respond to different severities of events and different timescales

Relatively small amounts of financing available and deployed quickly often significantly reduce the overall negative financial impact of shock events

Innovative and traditional options will be assessed with the aim of identifying the optional mix of each country

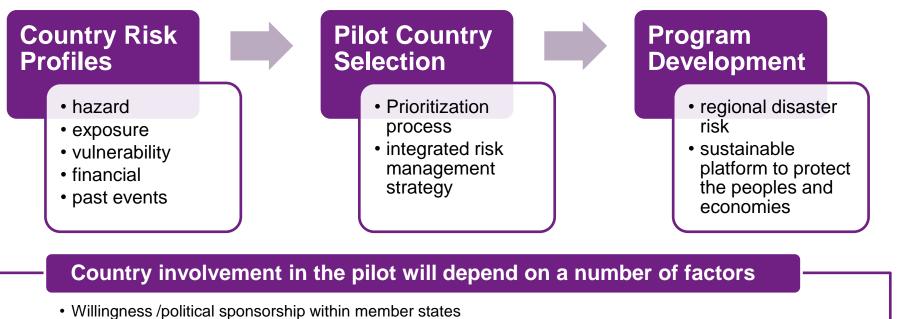


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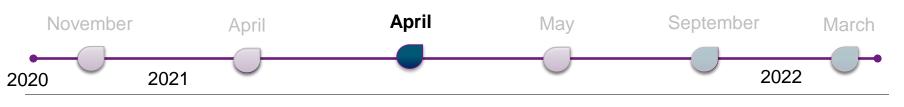
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Pilot Regional DRF Facility 1: How





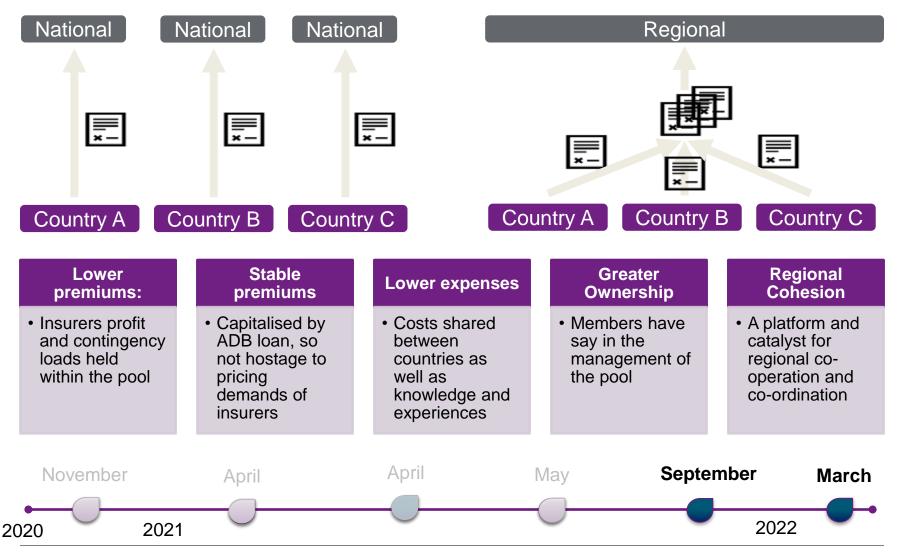
- Balance of territories exposed to flood, earthquake and consideration of Epi-/pandemic risk
- · Availability and access to exposure and vulnerability data
- · Current level of risk understanding and institutional preparedness within member state
- Economic environment and legal/regulatory framework
- · Ability to pay premium



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Pilot Regional DRF Facility 2: Why



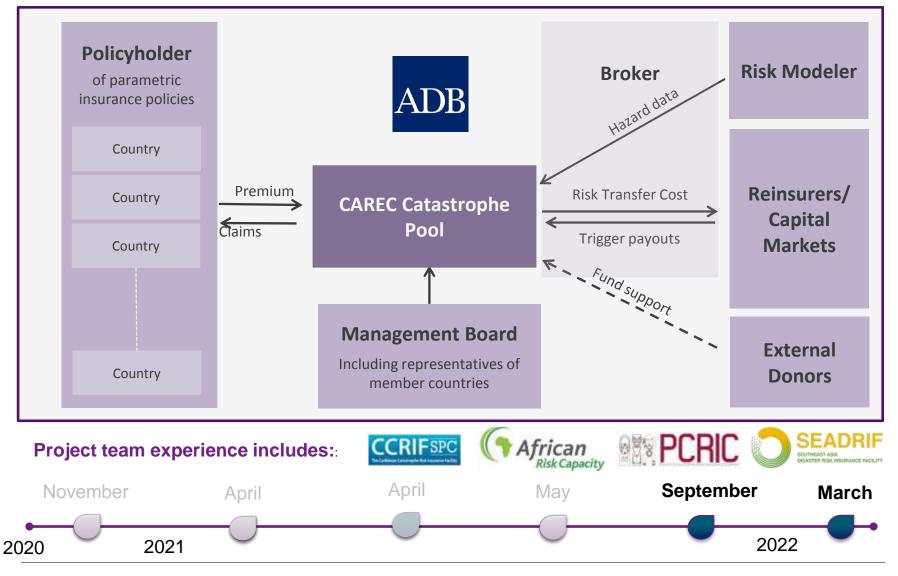


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Pilot Regional DRF Facility 3: Example



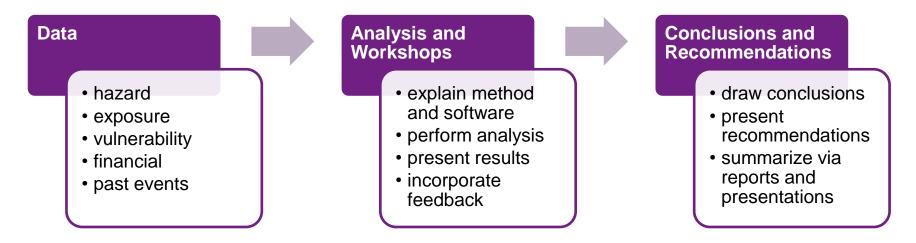


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Capacity Building: The Project Core





At each stage we aim to work closely with CAREC members:

- Better understanding leads to better solutions
- Provide tools, methodologies and advice to determine optimal disaster risk finance
- Provide tools, methodologies and advice to assess the cost and benefit of proposed risk reduction measures

It is vital that CAREC members own:

- The problem
- The analysis
- The solution

Concluding Observations



Countries' engagement and ownership is key

- Vital to actively engage with government officials and national experts
- Capacity building is core to the project
- Tools for hazard visualisation, stress testing and disaster risk finance design help this process

Hazards are largely common to the region

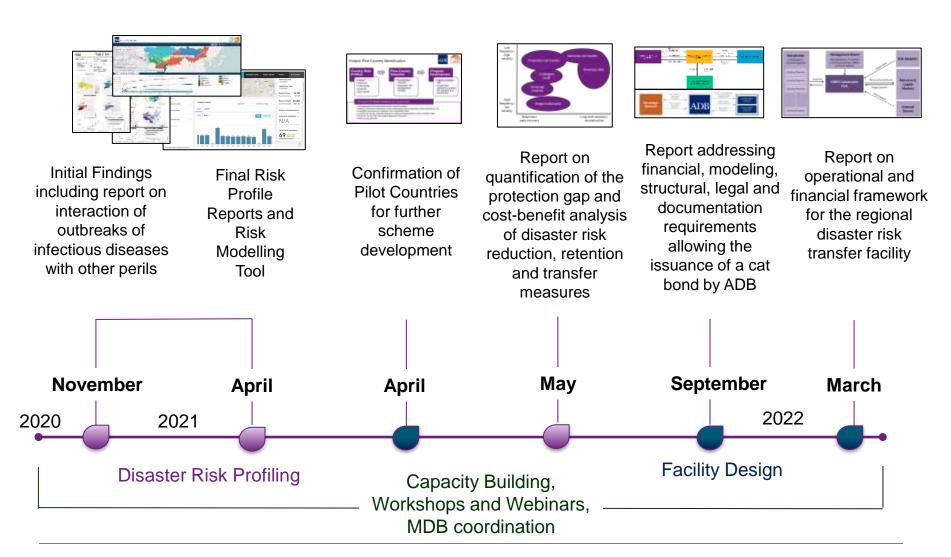
- But solutions must meet needs of each country
- Whilst building upon the strengths and benefits of regional co-operation

Our objectives (and how success will be measured)

- Better risk understanding
- More resilient economies and safer populations
- Creation of a regional disaster risk transfer facility that provides a sustainable platform to protect the peoples and economies of the CAREC region

Next Steps – Key Dates





Key Questions for Guidance



Expectations from the Project

• What are your country's expectations from the project? Based on your reading of the inception report, what would need to happen for your country to consider this project a success?

Disaster Risk Finance

 What are your country's existing disaster risk finance gaps? What in your opinion is your country's capability to access liquidity after the next disaster?

Disaster Risk Reduction

 Does your country have enough information to properly assess the relative impacts of different disaster risk reduction measures?

Pandemic / Epidemic Preparedness and Response

- What in your opinion would be the socioeconomic impact in your country if a natural hazard strikes in an area currently affected by COVID-19?
- What lessons has the COVID-19 experience highlighted in terms of disaster preparedness and response effectiveness? If another epi-/pandemic strikes in 2021, what kind of actions would you take to improve efficiency?





Thank You

