





Covid-19 in development cooperation: instruments and experiences from responding to and preventing crises

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GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Crisis response under pandemic conditions

How German development co-operation supports its partners during extraordinary crises without losing sight of long-term perspectives

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Christian Poschmann, GIZ Ukraine

Project basics

Strengthening the capacities of state and communal emergency services in Eastern Ukraine

- Training
- Procurement ٠
- Strategical and technical advisory



Our partners

- DSNS Ukrainian State Fireservice and disaster protection
- Pilot communities, Voluntary Fireservices



Project timeline



How crises affected our project implementation

- Changes in operational planning
- Distancing / prohibition of meetings
- Travel restrictions
- Hygiene
- Delays in supply chains / budget flow
- Partner relations



What we did to cope with the crises

- Procurement of protection and disinfection equipment
- Production of 10.000 masks for partners
- Support of some intense care units with protection equipment

Dräge

What we did to cope with the crises

• Rapid procurement of extinguishing equipment

 Rapid Procurement of dosimeters for ground forces



What we did to cope with the crises

- Shift from offline to online formats whenever possible
- Adjustments in operational planning
- Implementation of safety concepts for meetings and business trips
- Adjustment of project activities

Lessons learned

- The impacts of a pandemia cannot be fully compensated
- We have to become much faster and more flexible
- Building structures and improving resilience becomes more and more important, but.....
- At the same time we should strengthen our ability to react on very short notice as we had to learn very painfully that reality does not care about our plans





für Internationale

sammenarbeit (GIZ) GmbH

Implemented by



Global Initiative Disaster Risk Management

Mareike Bentfeld

Fachtagung Katastrophenvorsorge | 25.10.2021



South Asia Confronts a Double Disaster: Cyclone and COVID-19

May 29, 2020 By Nambi Appadurai

THE CORONAVIRUS CRISIS

After Beirut Explosion, Lebanon Sees A Spike In Coronavirus Infections

September 2, 2020 · 2:50 PM ET



COVID-19 impact on tourism could deal \$4 trillion blow to global economy: UN report



62% of households experienced having no food amid the COVID-19 pandemic — survey

By CNN Philippines Staff Published Apr 30, 2021 5:56:59 AM





COVID surge stirs unrest in parts of Latin America

Authorities face mounting anger in Paraguay, Argentina and Brazil, among other countries, as the pandemic takes its toll.







RISK DRIVERS & THE COMPLEXITY OF RISKS





complexity and range of risks Risk driver Risk driver Risk driver

Not only natural hazards, but also human-induced and hybrid threats Considers

Skills and capacities in applying RID principle and risk governance Risks are considered continuously in development decision-making

Health Infrastructure Risk Assessment in Georgia





Examples for risks to health care infrastructure:

- Electrical failure due to extreme heat
- Limited water supply due to drought
- Structural failure to building due to flooding
- Limited access to facilities due to road blockage

Social Aspects?



PIEVC ASSESSMENT





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Global Initiative on Disaster Risk Management Strengthening risk-informed development



Federal Ministry for Economic Cooperation and Development







Crisis prevention through budget policy awareness

Case - Urban Resilience in Accra

Matthias Range – Head of Unit "Disaster Risk Finance and Insurance" @giz

October 25th 2021



Mission



Enabling and leveraging Risk Management from the perspective of a city

Climate Risk Management – the concept



Prevent

This phase comprises all the measures that help prevent or minimize possible damage from an event.

Recover

After a natural extreme event hits, infrastructure and other parts of society must be rebuilt, so that people can resume their livelihoods as quickly as possible.

Respond

This phase comprises all emergency measures aimed at saving human lives in the event of a natural disaster.



Retain & Transfer

Residual risk can be transferred to third parties using financial instruments such as insurance.

Prepare 📢

Preparedness contains a complex set of activities such as setting up early warning systems, developing contingency plans, organising various activities such as stockpiling of equipment, and coordination and training as cross-cutting issues.







What?	Public-Private Partnership " Developing risk management approaches for climate and health risks"
How long?	01.01.2018 - 30.09.2021
Who and where?	 MediCount's System and Clients in India and Pakistan BIMA's Business Approach (DTC / Mhealth) in Ghana Mobile Insurance Regulation in Egypt, (Ghana, and) Morocco Industrial Parks, Morocco GA East, GA West and AMA in GAMA, Ghana
Eunds?	Provided by the stakeholders
Who?-	 Allianz X / MediCount Global Ltd. Allianz S.E. BIMA Allianz RE GIZ

Interests of the Partners

or Disaster Risk Reduc 2015 - 2030





Develop integrated DRMs solutions for Urban settings

GIZ

- Understand requirements for the use of Climate Risk Insurance Products for public assets
- Understand what cities need and can contribute to a national scheme
- Understand the interplay between public and private finance to enable DRM

NADMO

- Ghana National Climate Change Master Plan: Action Programme for Implementation 2015/2020
- Support strategically Ghana's Cities to answer increasing extreme weather risks

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- Connect National Schemes
 with local capacities
- Be (again) at the edge of innovation and showcase the innovation power of Ghanaian People

Allianz

- Showcase the opportunities and value of insurance in closing the protection gap
- Prepare the ground for innovative risk transfer solutions to contribute to risk reduction and to ensure financial sustainability
- Further develop the natural catastrophe insurance market



	0	Exposure Definition
1 Risk Assessment		Hazard Identification
	\bigcirc	Risk Quantification
	\bigcirc	Resilience Targeting
		Prevention
		Retention & Transfer
2 Disaster Risk Management Actions	⊊ 0€	Preparedness
	- 4	Response
	×	Recovery
3 Dimensions of Instrument Design	•••	Risk Holder
	Ì	Purpose
		Timing
	\$	Risk Level
4 Disaster Risk Finance Instruments	#	Тахопоту
5 Risk Management Strategy		Complementarity
		Risk Layering

RMS / GIZ 2019

1. **Risk Assessment:** Quantify risk and define resilience target to enable risk-informed action.

2. **DRM actions:** Design a DRM strategy and plan, which determines the respective actions in all five phases. Prioritization of actions should be based on a cost-benefit analysis.

3. **Dimensions of Instrument Design:** What is the capacity and need of the risk holder? What will funds be spent on? When is funding needed? What level of risk is being addressed?

4. Select appropriate **Disaster Risk Finance instruments**.

5. Combine Disaster Risk Finance instruments to create an efficient DRM strategy using a **risk layering approach**.





Risk Assessment – the Exposure Model



What do we have





What is at risk









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Based on Quantitative and Qualitative Data



Vulnerability for social - economic sectors



The Roadmap for ICRM - Urban Resilience in Ghana





"We were saved by all that risk data, once we realized we'd forgotten to order sandbags."

Pat Byrnes / CartoonStock.com



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Cost Benefit Analysis

(Find

How can micro measure per assets make a difference?







 Table 4.1: Cost, Risk Reduction and CBA of Proposed Adaptation Measure for Islamic Basic

 School, Amasaman (Refer Appendix 4)

Item	Adaptation Measure	Cost (GHC)
(a)	Planting of grass and native flower (460 square meter)	11,500.00
(b)	Construction of Rainwater Harvesting System	18,000.00
(c)	Construction of Underground water tank (5m diameter and 3.5m deep) and water distribution system	89,182.00
(d)	Desilt drain of 140m long	14,000.00
	Total Cost for the Measures (Package)	132.682.00

Contingency Plans / Monitoring System / Simulations



Contingency plans inform you who needs when what kind of money

 \rightarrow If established it may be also possible to send the insurance pay-outs directly to them

The determine who is doing what when in an emergency scenario, reducing the impact



They offer a dramatic impact reduction potential.



→ Image you can connect the flood app with last minute emergency culvert cleaning?



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One Page – Ghana Case

MISSION



Prepare the ground for implementing Risk Transfer Solutions for Public Infrastructure



APPROACH



EDGY

Modelling risk, exposure and vulnerability through an ECA and Contingency Planning

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Development of Infrastructure Hybrid Insurance Products for risk transfer

> Improve of cities to finance measures, analysing additional sovereign options fiscal and budget planning

Reviewing existing and enhancing iDRM measures Improved mix of Risk Management Strategies, such as Microlocation Risk

Reduction, Risk Profiles, Contingency Planning / Simulation, Waste



Broad stakeholder participation and risk layering

Management etc.

Communication of EWS to authorities and publiclLiteracy



PROBLEM



Suffers from rain-related floods almost every year.



urbanization, weak infrastructure but motivated officials.



Inefficient waste collection and disposal system.



~~~~ 1111000 1111000 교상다 Weather

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Insufficient Data on Water run-off and Rapid expansion of sealed-off surface, weak drainage system.





The improved fiscal and budget planning, as well as the budget analysis tool enables improving individual mix of risk management strategies, aligned to individual capacities, access and needs

Hybrid Insurance Product is fast in pay out, and solid due to indemnify approach of second trigger. 20% Extra-Payout for Relief work is also planned in.

EWS is planned to be connected with the contingency plan to trigger emergency action to decrease premiums on insurance product (planned)



#### Source: PPP of Allianz RE and GIZ



|                                     | 0              | Exposure Definition   |
|-------------------------------------|----------------|-----------------------|
| 1 Risk Assessment                   |                | Hazard Identification |
|                                     | $\bigcirc$     | Risk Quantification   |
|                                     | $\bigcirc$     | Resilience Targeting  |
|                                     |                | Prevention            |
|                                     |                | Retention & Transfer  |
| 2 Disaster Risk Management Actions  | <b>⊊</b> 0€    | Preparedness          |
|                                     | - <del>4</del> | Response              |
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## giz 🍈

#### EXAMPLES OF PRODUCT COVERAGES AND PREMIUMS

Estimated Target Price / Premium ~ 3,000,000 GHS per year

WHAT WE OFFER?

Indemnity based flood event cover for municipalities. It **covers the losses of all insured assets** after a severe single flood event via a daims pay-out Claims pay-outindudes replacement costs of insured premises, unsecured inventories and 20 % buffer for emergency relief measures (examples below)

WHAT IS INCLUDED IN A PAYOUT?

#### Example A: Full Cover w. lorry stations

- Policy starts paying out for flood event losses that occurs with a probability of 10 % in a year (loss return period is 1 in 10 yrs, this refers to an loss amount of 43m GHS)
- Payout is capped based on an event loss that occurs with an probability of 0.5% in a year (loss return period is 1 in 200 yrs, this refers to a loss amount of 128m GHS)



Example B: Limited Cover w/o lorry stations Policy cover Retention Lorry stations are highly exposed and (90m) vulnerable to flooding in AMA Modelled losses excluding lorry Insurance cover (56m stations are much lower (from 34 mn to 90 mn) Required cover to compensate for • event losses according to example A (34m Self Retention are much lower. Estimated Target Price / Premium ~ 2,050,000 GHS per year

Premium are highly impacted by the protection measures and the defined limit for insurance cover. Both of these parameters can be adapted based on the municipality's needs



The 4 generally recognised stages in a budget cycle in public expenditure management are as follows:

• Stage 1: Policy development and planning:

Review existing policies and plans, update them and design new ones where necessary;

#### • Stage 2: Budget preparation and approval:

Project revenue and allocate expenditure in the annual budget law;

#### • Stage 3: Budget execution:

Implement expenditure according to the budget;

#### • Stage 4: Monitoring and evaluation:

Monitor and evaluate the use of funds and measure of results.

Challenge = how to assess budgeting in a municipality (i.e., need to look at all 'stages' in the budget cycle) to determine if they support or hinder DRM.

## The Budget Cycle Assessment



| Budget stage                  | Types of indicators (still to be developed, not exhaustive)                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Policy development & planning | Is DRM a policy priority? Are risk assessments done? Is there a DRFS? Are all stakeholders involved in developing DRM policy and the DRFS?    |
| Budget preparation & approval | Is DRM prominent in budget guidelines? Are DRF tools included in the budget? How is DRM costed? What has been allocated in the budget?        |
| Budget execution              | Are budgets spent as planned? Do finance systems properly capture expenditure data? Are procurement systems adequate?                         |
| Monitoring & evaluation       | Is information and reporting on progress adequate? Are evaluations of DRM done periodically?                                                  |
|                               |                                                                                                                                               |
| Budget performance indicators | Are budgets 'credible'? Is budgeting 'transparent'? Are internal controls adequate? Do internal & external audits exist?                      |
| Financing of DRM              | What are funding sources for municipalities? Is there DRM financing for risk reduction, retention & transfer? Where from? Where are the gaps? |

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