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Acronyms and abbreviations

4As Academic Alliance for Anticipatory Action
AADC Agri-Aqua Development Coalition-Mindanao
AATF Anticipatory Action Task Force

ACCORD Assistance and Cooperation for Community Resilience and Development, Inc

ACTED Agency for Technical Cooperation and Development

ALIMA Alliance For International Medical Action

ARC African Risk Capacity

ASEAN Association of Southeast Asian Nations

AVAS Association of Voluntary Actions for Society

BMZ Bundesministerin für wirtschaftliche Zusammenarbeit und Entwicklung /

Federal Ministry for Economic Cooperation and Development

BRAC Formerly known as Building Resources Across Communities, Bangladesh
International Rehabilitation Assistance Committee and Bangladesh Rural Advancement

Committe

CAFOD Catholic Agency for Overseas Development

CARE Cooperative for Assistance and Relief Everywhere; formerly Cooperative

for American Remittances to Europe
CERF Central Emergency Response Fund

CHE Swice franc

CNRS Center for Natural Resource Studies

COP27 2022 United Nations Climate Change Conference / 27th Conference of the

Parties of the United Nations Framework Convention on Climate Change

CRED Centre for Research on the Epidemiology of Disasters

CRS Catholic Relief Services

DAM Dhaka Ahsania Mission

DG ECHO Directorate-General for European Civil Protection and Humanitarian Aid

peration

DREF Disaster Response Emergency Fund

EAP early action protocol

ESDO Eco Social Development Organization

EW4ALL European Union
EW4ALL Early Warnings For All

FAO Food and Agriculture Organization of the United Nations
FOREWARN Forecast-based, Warning, Analysis, and Response Network

FY financial year
G7 Group of Seven
GBP Great British pound
GFFO German Federal Foreign Office

GMDFI Green Meadow Development Foundation, Inc

HANDS Health & Nutrition Development Society
IASC Inter-Agency Standing Committee

IDEA Initiative for Development & Empowerment Axis

IFRC International Federation of Red Cross and Red Crescent Societies

IOM International Organization for Migration

IRB Islamic Relief Bangladesh
LCDE Leyte Center for Development, Inc

LEDARS Local Environment Development and Agricultural Research Society

MEAL monitoring, evaluation, accountability and learning
MID-P Merti Integrated Development Programme

MIDEFEHOPS International Movement for the Rights of Children, Women and Widowers

and their Social Advancement / Mouvement international pour les droits des enfants, des femmes et des veufs et leur promotion sociale

MMS Manab Mukti Sangstha

n/a not available

NASA National Aeronautics and Space Administration (USA)
NDP National Development Programme (Bangladesh)

NGO non-governmental organization

NSS Nazrul Smriti Sangsad

OCHA United Nations Office for the Coordination of Humanitarian Affairs

PACIDA Pastoralist Community Initiative and Development Assistance

RAAWG Regional Anticipatory Action Working Group

RCRC Red Cross Red Crescent

RDRS Formerly known as the Rangpur Dinajpur Rural Service

Bangladesh

REAP Risk-informed Early Action Partnership

 SAPCONE
 Sustainable Approaches for Community Empowerment

 SEEDS
 Sustainable Environment and Ecological Development Society

 SFERA
 Special Fund for Emergency and Rehabilitation Activities

SKS Foundation Samaj Kallyan Sangstha Foundation

SPUP-CSC Saint Paul University Philippines - Community Development Center

TBD to be determined

TUPADO Turkana Pastoralist Development Organization

UN United Nations

UNDP United Nations Development Programme
UNFPA United Nations Population Fund

UNHCR United Nations High Commissioner for Refugees

UNICEF United Nations Children's Fund

UN Women United Nations Entity for Gender Equality and

the Empowerment of Women

USD United States dollar

V20 Vulnerable Twenty Group of Ministers of Finance of the Climate

Vulnerable Forum

WASH water, sanitation and hygiene
WFP World Food Programme
WHO World Health Organization
WMO World Meteorological Organization

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Construction of a flood-protection dam in the cultivation area of Maradi, Niger. $^{\hbox{\scriptsize @}}$ FAO

2 Acronyms and abbreviations

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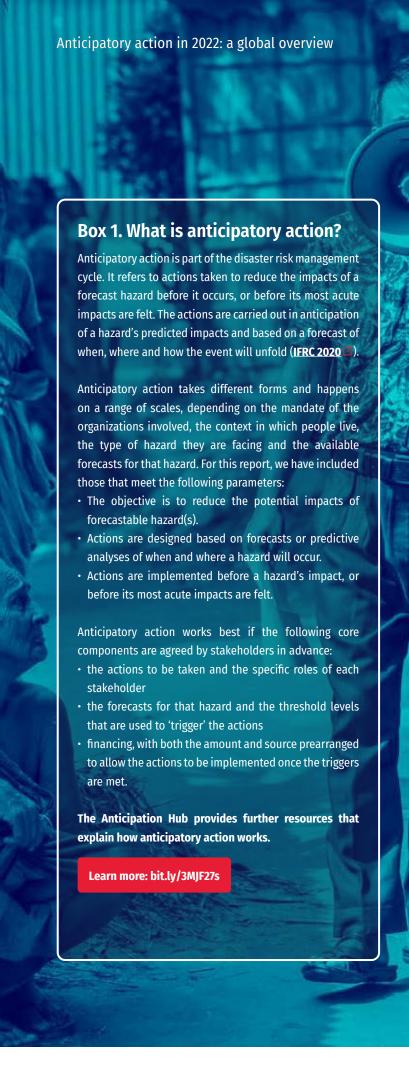
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This report is the first in what will become an annual overview of anticipatory action, documenting changes in the sector over time. It draws upon desk research conducted during 2022 to map frameworks and activations worldwide. The data collected was then verified and updated by organizations active in this sector. The report was written by the Anticipation Hub, with contributions

from several partners, notably members of the Anticipatory Action

If you are involved in anticipatory action and have frameworks and/or activations to include in future editions, please get in touch: anticipation-hub@drk.de



1. Introduction

If it wasn't already clear, then 2022 put it beyond doubt: climate change is no longer a challenge for the future. It is happening now and causing increasing levels of devastation across the world. In 2022 there were major floods in Bangladesh, Pakistan and across much of western and central Africa, while tropical storms struck Africa, Asia and Central America. Countries in eastern Africa and beyond saw crippling droughts continue as the rains failed for another year, while almost every continent experienced heat waves, often of unprecedented levels. These and other hazards left a trail of destruction behind them, costing thousands of people their lives, and millions more their homes, possessions and livelihoods.

Yet among growing global concern about the increasing number of hazards, and the fact that many are intensifying in scale, there was one encouraging trend in 2022: around the world, 35 countries are implementing anticipatory action approaches (Box 1) and are ready to act ahead of forecast hazards. By aggregating data from across the world, this report shows that:

- through the 70 frameworks¹ in place globally, 7.6
 million people are now better prepared to act ahead
 of the predictable impacts of hazards, and able to
 recover more quickly afterwards
- the financing committed through these frameworks in 2022 reached 138 million US dollars²
- 47 anticipatory action frameworks were activated in 2022, reaching 3.6 million people as a minimum estimate.

About this report

Section 2 of this report document presents – for the first time – the current global scale and impact of anticipatory action. Section 3 demonstrates how the scope of this approach also expanded in 2022 – in terms of the hazards to which it is applied, the different triggers in place, and the range of anticipatory actions being implemented. Importantly, 2022 saw greater attention given to non-climate-related hazards such as conflict and health, and many practitioners are adjusting anticipatory systems so

that they can be applied to more of these. There was also regional progress, including in Africa, Asia-Pacific and Latin America and the Caribbean.

Evidence that anticipatory action is growing is undoubtedly encouraging. And yet the number of people reached through activations in 2022 represents only a fraction of those who are vulnerable to the impacts of hazards: in 2021, 101.8 million people were affected by disastrous events, which accounted for 10,492 deaths and caused approximately 252.1 billion US dollars of

economic losses (**CRED 2022)**. These figures demonstrate a clear and urgent need to scale up anticipatory action still further and help more people to cope with forecast hazards.

There was positive news in this respect too. As Section 4 notes, several governments and donors increased their commitment to this approach during 2022. And the current scale of anticipatory action worldwide indicates that while hazards are likely to continue increasing in scale and impact in the coming years, we now have another tool with which to fight them.

Box 2. Coordinated anticipatory action

Coordinated anticipatory action – where different organizations work together in a country, and on the same hazard – is rare, but in 2022 there were increased efforts to improve this.

In April, ahead of floods in South Sudan's Unity State, funds were disbursed for anticipatory action. This enabled 15 national and international non-governmental organizations (NGOs) and seven United Nations (UN) partners to strengthen dykes around vital infrastructure, maintain access for communities and humanitarian workers, manage storm waters during heavy rains, and make water and sanitation infrastructure flood-proof.

In Nepal, an anticipatory action framework was activated in June 2022, based on forecasts of severe monsoon flooding. The UN Central Emergency Response Fund (CERF) disbursed funds quickly, supporting three UN agencies – the World Food Programme (WFP), the United Nations Population Fund (UNFPA) and UN Women⁴ – and local partners, in close collaboration with the government, to act before the floods. Together, they were able to: disseminate early warning messages to local communities; provide cash assistance to vulnerable families; distribute relief packages, health kits and multipurpose cash support; and facilitate access to essential services such as psycho-social counselling.

In Niger, following observations of below-average rainfall, the anticipatory action framework for drought was activated in August 2022. CERF funds were used by seven UN agencies, in close collaboration with over 15 national and international NGOs and the government, to mitigate the immediate impacts, with anticipatory assistance provided across the food security, hygiene (WASH) sectors. Among the actions implemented, WFP supported 48,000 smallholder farmers to scale up waterharvesting activities in 90,000 small catchments (covering 1,700 hectares), while the Food and Agriculture Organization of the United Nations (FAO) supplied drought-resistant agricultural inputs to the same farmers. WFP also provided cash to 6,000 households and disseminated climate information and advice through in-person training, mobile phones and community radio programmes. These actions helped people to avoid adopting negative coping strategies such as selling their harvests too early (which usually commands a lower price).

Table A2 provides further information about these activations.

WFP's anticipatory cash assistance in western Nepal benefitted 15,000 people at risk of severe flooding. © WFP/Srawan Shrestha



² Financing for anticipatory action is provided in different currencies. For comparison and aggregation purposes, we have converted these into US dollars, based on the exchange rates at that time.

⁴ Officially the United Nations Entity for Gender Equality and the Empowerment of Women.



³ Data for 2022 was not available at the time of writing.

2. Anticipatory action in 2022

2.1 Anticipatory action in 2022: frameworks

Figure 1 shows the 35 countries with anticipatory action frameworks in place during 2022; full details of these are in Table A1 at the end of this report. Figure 2 summarizes these figures, while Figures 3 and 4 provide a breakdown of these frameworks, by organizational type and funding levels, respectively.



Figure 1.
Active anticipatory action frameworks around the world

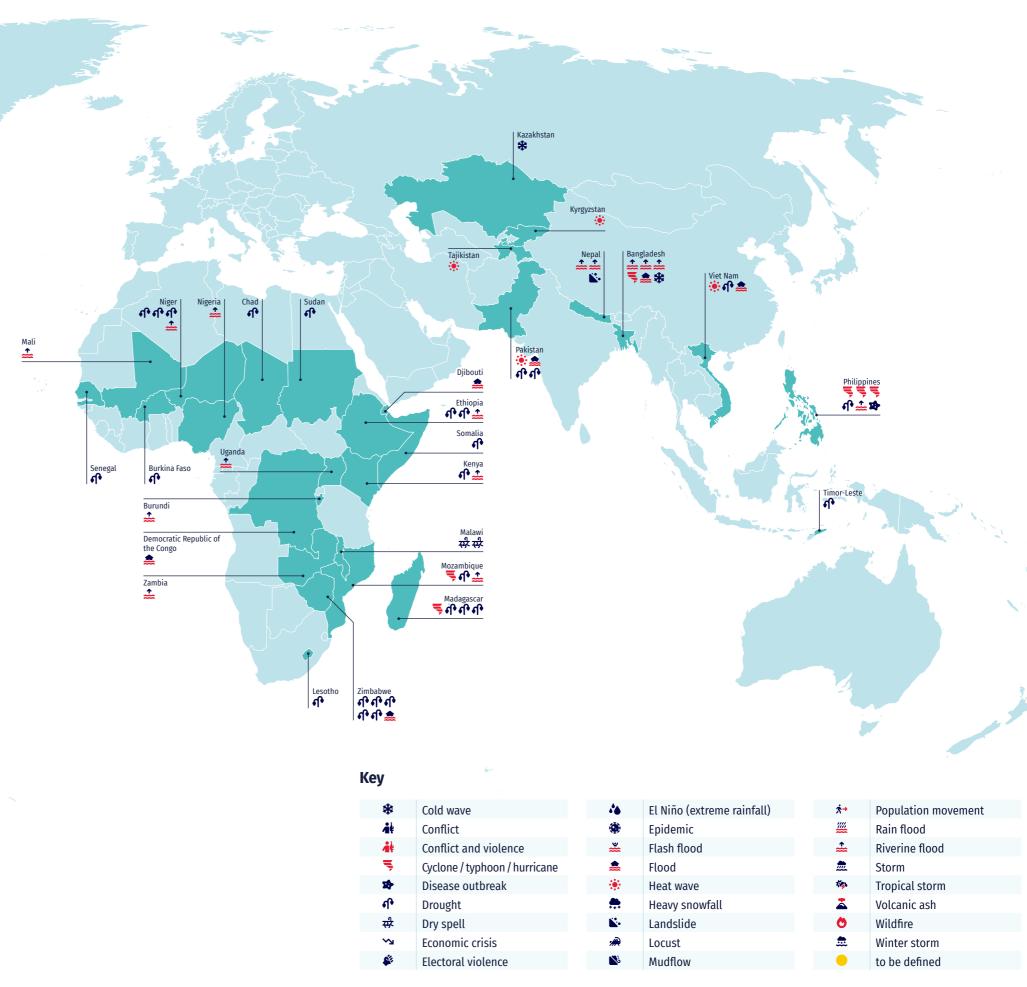
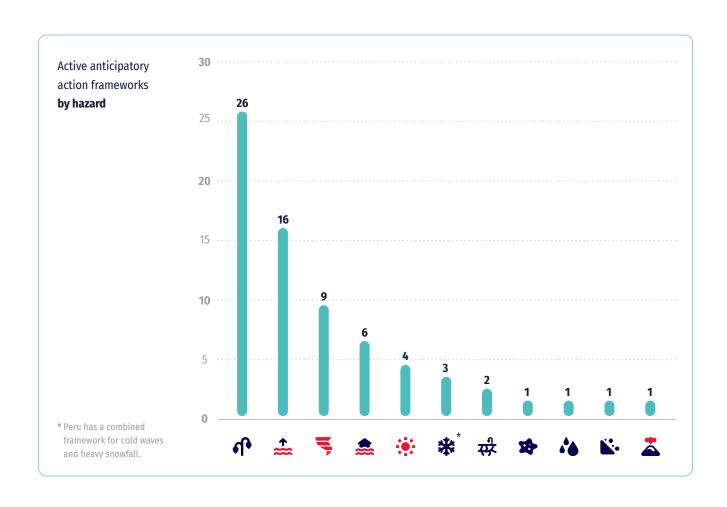


Figure 2. Anticipatory action frameworks in 2022: by numbers





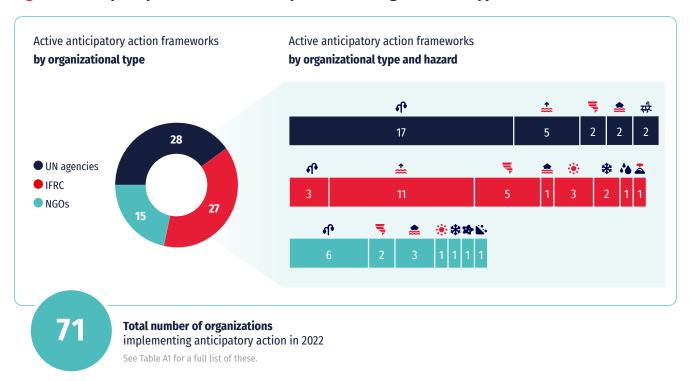
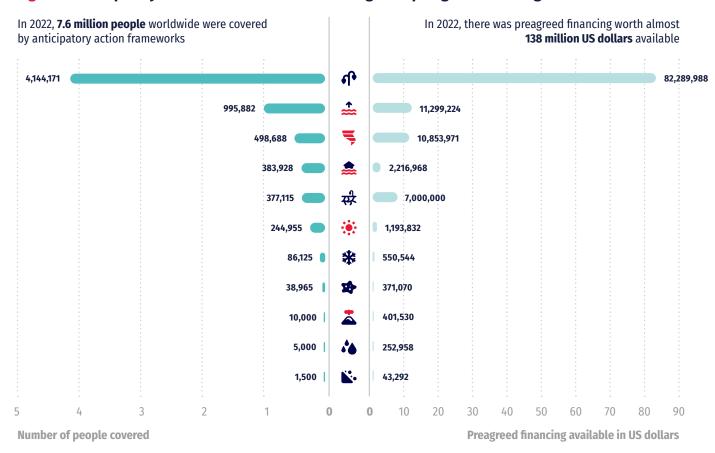


Figure 3. Anticipatory action frameworks by hazard and organizational type





^{*} The breakdown of figures excludes data from FAO, as FAO's funding is flexible and determined based on a hazard's expected impact and the available funding.

Prearranged SFERA funds for anticipatory action currently amount to about 11 million US dollars. Considering the average cost per direct beneficiary from previous interventions, this could directly protect the agricultural livelihoods and food security of approximately 785,000 people ahead of forecast shocks.

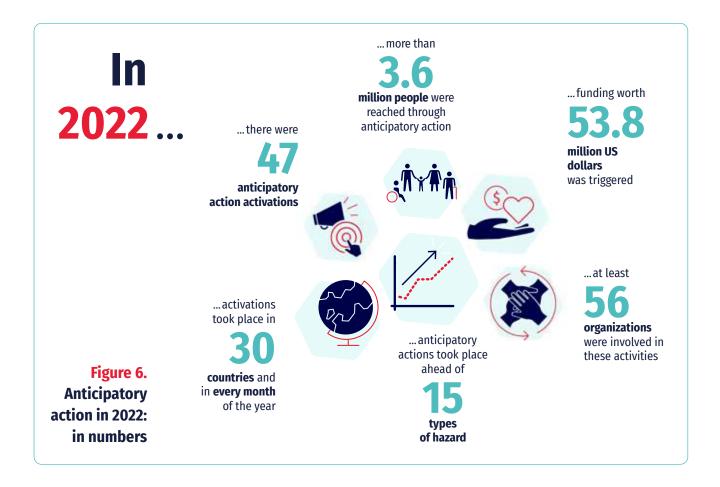
Anticipatory action in 2022: a global overview

Anticipatory action in 2022: a global overview

2.2 Anticipatory action in 2022: activations

Anticipatory action frameworks were activated 47 times in 2022. Figure 5 shows the countries where these activations took place, and for which hazards; full details of each, including the financing available, are in Table A2. Figure 6 provides combined figures for these activations, including the total financing and the number of people reached globally. Nepal Pakistan South Sudan Somalia Sri Lanka € Kenya Rwanda Cape Verde Burkina Faso Madagascar A A A Zimbabwe

Figure 5.
Anticipatory action frameworks activated in 2022



2.3 Anticipatory action in 2022: case studies

The following case studies highlight three activations that took place during 2022. Further details, including the financing provided, can be found in Table A2.

Guatemala and Honduras activate Early Action Protocols ahead of Hurricane Julia

On 8 October 2022, the Guatemalan Red Cross and the Honduran Red Cross both activated their Early Action Protocols (EAPs) for Floods Associated with Tropical Storms, after forecasts predicted that Hurricane Julia was about to hit these countries. Three days beforehand, preagreed funds were released from the Anticipatory Pillar of the International Federation of Red Cross and Red Crescent Society's (IFRC) Disaster Response Emergency Fund (DREF).

The two National Societies used these funds to instigate anticipatory action, alleviating some of the expected impacts in the areas forecast to be worst affected. In the Sula Valley, Honduras, more than 1,600 families received water and sanitation kits, and around 600 were given cash to spend on their most urgent needs. In Guatemala's Izabal and Alta Verapaz departments, these figures were around 1,300 and 700 families, respectively.



Cash and voucher distribution in Honduras. © Natalie Acosta/German Red Cross

In both regions, water levels were already high due to a heavy rainy season prior to Hurricane Julia. Many families lived along the banks of rivers, streams and embankments, putting them at high risk from floods. Furthermore, most had few resources, making it difficult to relocate or seek shelter elsewhere. The actions undertaken provided the support they needed to survive the floods and recover more quickly once the effects had subsided.

FAO acts in anticipation of Typhoon Noru in Viet Nam

Typhoon Noru was forecast to hit Viet Nam's Thua Thien Hue and Quang Tri provinces on 28 September 2022, with winds predicted to reach Category 1 levels⁵ at a minimum. Three days ahead of the expected landfall, FAO activated its Anticipatory Action Protocol for Typhoons and Tropical Cyclone-induced Flooding. This was done to protect people's lives, livelihoods and food security.

During this three-day window, the project team disseminated early warning messages and distributed cash to the communities expected to be worst affected. The team also provided waterproof drums for people to store their food and personal assets. Shelters for livestock were also planned, but these were not built because the level of flood water was not high enough to warrant the evacuation of livestock from farms.

This activation was the first of its kind in Viet Nam, and prearranged funds from the Directorate-General for European Civil Protection and Humanitarian Aid Operations (DG ECHO) were critical for the timely rollout of these anticipatory actions. The lessons learned from acting ahead of Typhoon Noru will be used to inspire further national- and provincial-level anticipatory action in Viet Nam.

WFP acts ahead of drought in the Horn of Africa

When forecasts predicted that rains in the Horn of Africa would fail for the fourth (March-May 2022) and fifth (October-December 2022) consecutive seasons, WFP reached 206,874 people with

Box 3. Locally led anticipatory action

The figures reported in Section 2 collate data about anticipatory action funded through mechanisms managed by larger humanitarian agencies and donors. However, there is a growing number of locally led anticipatory action initiatives, in which local stakeholders act ahead of a forecast hazard under their own initiative (i.e., outside of project-based structures). These may use localized funding or have no funding at all, and are often based on local forecasts, knowledge, actions and approaches. Due to several factors, not least the informal nature of many of these initiatives, it was not possible to capture all of them in this report. We will explore ways to do so in future editions.

anticipatory cash transfers, using Somalia's safety-net programme to transfer the money. More than 1.2 million⁶ people received early warning messages, in February and in August, through public radio stations.

In Ethiopia's Somali Region, which borders Somalia, cash transfers provided in August reached 25,200 people, while 45,220 pastoralists were helped to preserve animal fodder ahead of the expected drought. Early warning messages reached more than 137,000 people.



Anticipatory action in 2022: a global overview Anticipatory action in 2022: a global overview

2.4 Anticipatory action in 2022: new frameworks under development

Figure 7 marks the anticipatory action frameworks that were under development during 2022; full details of these are in Table A3. Figure 8 breaks these figures down by hazard, by country and by organization. Note that some frameworks are for more than one hazard.

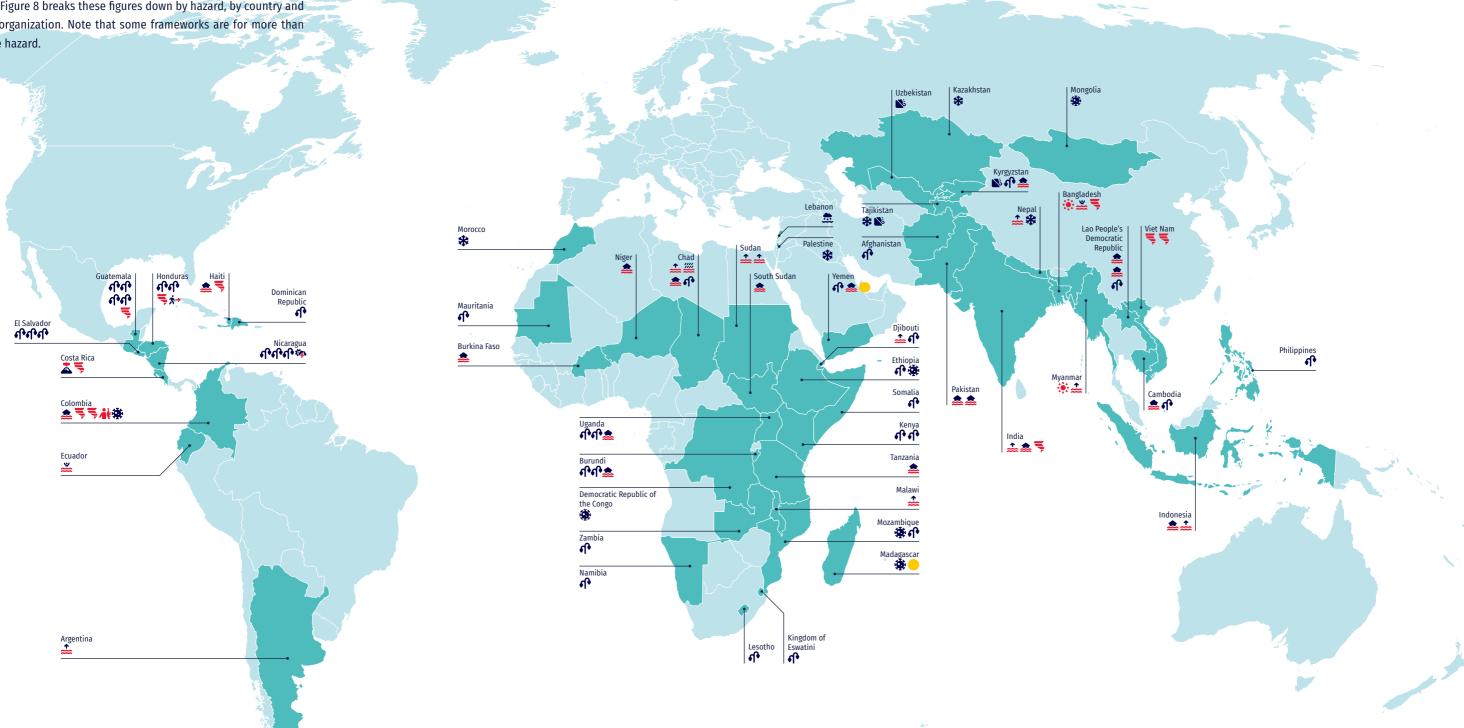


Figure 7. **Anticipatory action frameworks** under development in 2022

2.5 Anticipatory action in 2022: new actions

As anticipatory action is scaled up to address further hazards, and practitioners learn more about what works and what doesn't, there are an increasing number of different actions being implemented during activations, and tested ahead of their inclusion in frameworks. In 2022, several organizations expanded the range of actions that they are taking ahead of forecast hazards.

- FAO and the United Nations Development Programme (UNDP), under the Anticipatory Action Framework for Drought in Niger facilitated by the United Nations Office for the Coordination of Humanitarian Affairs (OCHA), provided cash for pastoralists to construct fire barriers to protect grazing areas for livestock.
- FAO vaccinated animals ahead of floods in Niger in May/June 2022 to mitigate flood-related livestock illness and losses. The Kenya Red Cross Society also plans to implement this action by providing anticipatory veterinary care (e.g., parasite treatments) and vaccinating animals before floods.
- UNICEF,⁷ under the OCHA-facilitated framework for cholera in the Democratic Republic of the Congo, deployed a rapid, localized response in the immediate vicinity of affected households to prevent the further spread of the disease.
- In a twist on the usual provision of water-purification kits or community water points, the Guatemalan Red Cross will purify water in its own plants to ensure access to safe water before, during and after hurricane-induced flooding.

The Anticipation Hub's early action database provides an overview of actions that can be implemented ahead of a hazard. All organizations active in this sector are encouraged to submit their actions to the database.

See bit.ly/3KaWUX8

- The Red Crescent Society of the Republic of Kazakhstan's EAP for Cold Waves, approved in 2022, includes actions such as helping homeless people – specifically including children, older people and people with disabilities – to reach social adaptation centres where they can get hot meals. This EAP also includes actions to evacuate travellers stranded due to road closures or hazardous conditions, helping them to reach shelters.
- The Costa Rican Red Cross will distribute materials for families affected by volcanic ashfall to clean their homes, reducing their exposure to the health impacts of ash.
- WFP Somalia included the use of gender-responsive messages in its anticipatory action plan. These advise vulnerable populations on the best local coping strategies to protect themselves and their families. Examples include informing women about how to improve their planning and use of cash transfers, and how to avoid non-essential spending while maintaining nutrition status for themselves and their children. Messages that target men and elders relate to best community practices during drought, such as ways to build social cohesion and reduce tensions over access to dwindling common resources.

Box 4. Acting ahead of drought in Madagascar

Southern Madagascar has experienced a prolonged period of drought since 2018, as rainfall has become scarcer (de Berry 2023 2). This has led to widespread hunger and food insecurity, among other humanitarian issues. In August 2022, FAO's anticipatory action system for Madagascar – which combines weather forecasts with vulnerability data and seasonal observations – indicated an increased risk of dry conditions coinciding with the main 2022/2023 agricultural season in the Grand Sud region.

Based on this information, FAO, WFP and other partners coordinated their efforts to maximize the impacts and reduce duplication. FAO acted to strengthen the resilience of 4,000 of the most vulnerable households in the region, through activities including the provision of short-cycle and drought-tolerant

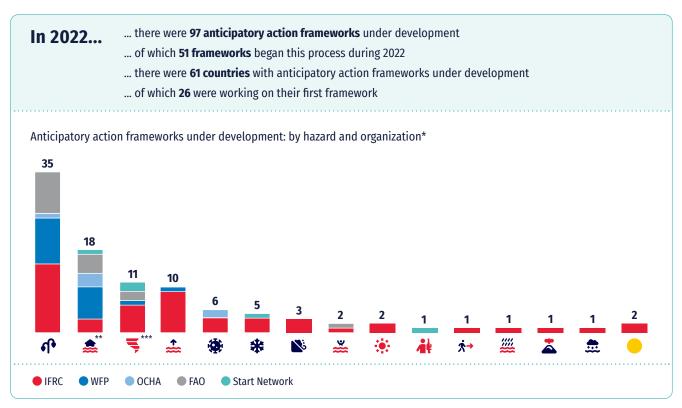
seeds, together with micro-irrigation kits. Households received small livestock species, both for food and to diversify their income sources in the coming lean period. Some households were given unconditional cash transfers, which enabled them to meet their immediate needs (e.g., buying food) and to protect their productive assets. This in turn meant they could implement agricultural activities planned for the next season, such as breeding livestock or planting crops.

WFP and the government of Madagascar disseminated early warning messages and tailored advisories to people, which explained how to cope with the impending impacts of drought. WFP also provided cash assistance to support agricultural production and for water mobilization, reaching 62,210 people.

⁷ Officially the United Nations Children's Fund.

⁸ Water mobilization refers to activities such as constructing and rehabilitating irrigation and storage infrastructure (e.g., dams, wells).

Figure 8. Anticipatory action frameworks under development: in numbers



^{*} Deviations from the total number of frameworks can be explained by the fact that some address multiple hazards, and some are co-led by more than one organization. For full details, see Table A3.

- ** One jointly led by FAO and WFP
- *** Including tropical storms (Nicaragua).

2.6 Anticipatory action in 2022: new triggers

Most anticipatory action approaches use predefined triggers to activate their frameworks. These triggers often combine forecasts with other data (e.g., on past losses and damages) to determine when there is a strong likelihood that severe humanitarian impacts will occur. Using forecasts has limitations, of course, in terms of certainty and the time available to act, but in 2022 several organizations showcased pragmatic ways to address this.

To increase the lead time available between a storm being forecast and it happening – often less than three days – the National Red Cross Societies in Guatemala and Honduras, supported by the German Red Cross and the Red Cross Red Crescent Climate Centre, decided not to act ahead of a storm's landfall, but instead before the impacts of the floods caused by its rainfall; many vulnerable communities found the floods caused by a storm more damaging than high winds. Using a new trigger model, which combines a forecast of the storm's track with a forecast from the Global Flood Awareness System, a crucial extra three to four days' lead time could be gained. The areas with the worst flood impacts were correctly predicted during the activation ahead of Hurricane Julia (see Section 2.3), even though the hurricane moved 400 kilometres south across the countries.

Often, the data for forecast models needs to be calibrated and in 2022, Welthungerhilfe involved communities in Zimbabwe to achieve this. It used a crop-development monitoring model, based on the Water Requirement Satisfaction Index, to estimate the impacts of water availability on food security. However, data triangulation and verification were needed to address uncertainty, due to the geographical specifics and spatial resolution available. Welthungerhilfe used crop assessments and feedback from farmers and communities to complement its model; this enabled a successful activation ahead of a lean season.

And what can be done when there are no useful forecasts available? In the Democratic Republic of the Congo, forecast models were not ready to capture the first identified case of cholera. To address this, OCHA developed a trigger that uses the number of suspected cholera cases and the number of deaths. Its anticipatory action framework is activated when an outbreak is deemed likely to become critical, but can still be contained through actions that support local-level responses and limit the risk of the disease spreading from one health zone to others.

3. Major milestones in anticipatory action during 2022

3.1 Global policy developments

There was significant progress on institutionalizing anticipatory action in 2022, with several promising initiatives for scaling up this approach. The G7 Foreign Ministries issued a statement which affirmed their common understanding of anticipatory action, and committed to scaling up and embedding anticipatory action in the humanitarian system, with a significant increase in financial resources (GFFO 2022 2). Acknowledging that anticipatory action can reduce the risk of the loss and damage associated with climate change, the Council of the European Union called on the European Commission, the European External Action Service and EU Member States to "support the integration of anticipatory action into the humanitarian programme cycle as well as adaptation plans in response to climate change" (page 6, Council of the European Union 2022 2). The G7, the EU and its Members States must be held accountable for realizing these commitments.

At the regional level, there was evidence of growing institutionalization among regional bodies, including specialized entities. These are set to play a key role in embedding anticipatory action in national frameworks, while sharing lessons learned and providing guidance in their regions on how to integrate this approach. These regional bodies also provide opportunities for international actors and initiatives to support the scaling up of anticipatory action; such opportunities are not always available at the national level. Section 3.3 provides region-specific details of these initiatives.

In addition to this growing institutionalization, two initiatives launched in 2022 allow for collaboration across sectors. The Early Warnings for All (EW4ALL) initiative (WMO 2023) aims to ensure that every human has access to early warnings by 2027. The Executive Action Plan (WMO 2022), unveiled at the 2022 United Nations Climate Change Conference (COP27), sets out clear steps to achieve this goal. If implemented effectively, this offers the chance to deepen exchange and collaboration between the hydrometeorological, humanitarian and development communities; for example, between national meteorological and hydrological services, national disaster management authorities, humanitarians, research institutions and media partners. Pivotal to its success will be ensuring that there is broad-based and

cross-sectoral engagement across its 'pillars', especially at local levels, rather than leaving its implementation to a limited group of international actors.

The Global Shield Against Climate Risks was also launched at COP27, by the G7 and V20.9 This aims to provide, and ease access to, funds to develop and scale up instruments for disaster risk finance that minimize, reduce and address climate-related losses and damages for governments, communities, businesses and households. A broad range of instruments are eligible for this, including anticipatory action actors (BMZ 2022 2). The Global Shield is an important step towards coordinating the fragmented global landscape for disaster risk financing and the proliferation of actors in this space. The key to its success will be ensuring an equal balance in the distribution of funds, between countries and between instruments; in other words, it will be necessary to ensure that decisions about funds are grounded in local needs, not vested interests. Frameworks for anticipatory action are in place or being developed in five of the seven 'pathfinder' countries. This is an opportunity for national anticipatory action communities to engage in the process and push for this balance.

3.2 New evidence, methods and research

Evidence

Start Network contributed new evidence about the effectiveness of anticipatory action through evaluations of initiatives in Pakistan and Sudan. In Sibi, Pakistan, people who visited cooling facilities at bus stops during a heat wave reported several benefits, such as saving money through access to free, clean water, and having a place to rest and protect themselves from heat-related illness (Guyatt and Khan 2022). Communities in Sudan who received anticipatory support to mitigate the impacts of floods reported less damage to their houses, infrastructure and livelihoods, alongside better health outcomes (Save The Children 2022). Meanwhile, in an evaluation in Somalia, 90 per cent of respondents mentioned that anticipatory assistance came at the right time, allowing them to prepare and cope with a drought, while 80 per cent reported at least some quality-of-life improvements thanks to the assistance provided (60 Decibels 2022).

Methods

Welthungerhilfe developed step-by-step guidance for identifying anticipatory actions and developing EAPs, specifically adapted to support NGOs and other civil society actors to engage in anticipatory action (Welthungerhilfe 2022). Start Network published the qualitative methodology it used to track, over time, the experiences of Senegalese households in the African Risk Capacity's (ARC) Replica programme (Njambi-Szlapka and Jones 2022), providing a new monitoring, evaluation, accountability and learning (MEAL) tool for practitioners. The Academic Alliance for Anticipatory Action (4As) conducted a review of anticipatory action since 2020 (Poole et al. 2022), which summarizes progress in MEAL systems and makes recommendations for how to move forwards.

WFP developed guidance on how to plan and monitor country-level capacity-strengthening efforts within anticipatory action initiatives, applicable to the diverse stakeholders – governmental and nongovernmental, and local, national and international – working to institutionalize this approach in different countries (WFP 2022a 2). Also published in 2022 was an FAO position paper that argued for phased anticipatory action for slow-onset hazards (FAO 2022a 2).

Research

Several important studies published in 2022 explore how anticipatory action can integrate with and complement existing humanitarian and disaster-management systems. Despite the advantages of integrating anticipatory action systems with nationally owned government systems, a case study by Mwangi et al. (2022 2) reinforced the challenges to producing effective joint systems. Several papers highlighted the potential to link anticipatory action to social protection systems, including a review of efforts in Lesotho and Mozambique (Easton-Calabria et al. 2022 1), an FAO evaluation of programmes in Cambodia, Myanmar, the Philippines and Viet Nam (FAO 2022b 2), and WFP's two-page briefing on this theme (WFP 2022b 12).

The 4As, a collaboration between seven universities in Africa, Asia and North America, supports research on, and the evaluation of, anticipatory action.

See bit.ly/3nqkSoF ☑

The MEAL Practitioners Group examines what works and what doesn't in anticipatory action – and ways to establish this. See bit.ly/3T01z4v 🗹

New research contributed to discussions about how anticipatory action can expand to address new hazards and crisis settings. Easton-Calabria, Jaime and Shenouda (2022) used case studies of displacement in northwest Syria and Cox's Bazar, Bangladesh, to highlight considerations for anticipatory action in these contexts, such as the importance of trauma-informed programmes. Thalheimer, Simperingham and Jjemba (2022) explored how anticipatory action initiatives already address disaster displacement and how they can be better considered in the future. Focusing on the Red Cross Red Crescent Movement's anticipatory action systems, Tozier de la Poterie et al. (2022) explored how greater flexibility supports efforts to adapt anticipatory action to multihazard contexts.

Lastly, Chavez-Gonzalez et al. (2022) drew lessons from OCHA's CERF pilots to call for the use of existing funding mechanisms, rather than creating new systems for anticipatory action. They also argued for using phased triggers to manage uncertainty, exploring and expanding preparedness funding, and overcoming funding delays.

3.3 Highlights from the regions

Africa

There were major policy initiatives towards strengthening anticipatory action in Africa during 2022. Notable among these was the African Union adopting its Institutional and Operational Framework for Multi-Hazard Early Warnings and Early Action Systems for Africa (African Union 2022), a seven-year programme to improve early warning systems and develop national-level multihazard early action plans.

At the regional level, a milestone was reached in September when ministers from across southern Africa stated their commitment to expanding early warning systems, formalized through the Maputo Declaration on Bridging the Gap between Early Warning and Early Action (Anticipation Hub 2022 ☑). There were also efforts to develop regional roadmaps: in East Africa, this is led by the Intergovernmental Authority on Development, with the support from its Climate Prediction and Applications Centre; in West Africa, the Permanent Interstate Committee for Drought Control in the Sahel is developing a strategy to scale up and institutionalize anticipatory action for food crises; and the Southern Africa Regional Anticipatory Action Roadmap (RAAWG 2022 ☑), launched in August, will steer initiatives in this region. A continent-wide anticipatory action roadmap was collectively developed at the 5th Africa Dialogue Platform on Anticipatory Humanitarian Action in June; this will be published soon.



A Welthungerhilfe employee monitors the impacts of anticipatory cash for people affected by impending drought in Madagascar. © Haddad/Welthungerhilfe

Several countries developed further protocols that set out their planned actions ahead of different hazards (see Tables A1 and A3). These included the first Simplified EAP to be approved, in Nigeria for floods in October (IFRC 2022), soon followed by a Simplified EAP for the same hazard in Djibouti. In the Democratic Republic of the Congo, the first collective anticipatory action framework for cholera was developed (OCHA 2022a). There were also several national dialogue platforms held during the year, including in Ethiopia, Kenya, Malawi, Mali and Uganda, with many developing national-level roadmaps.

Latin America and the Caribbean

The anticipatory action community in Latin America and the Caribbean drew closer together in 2022, reflected in greater interagency coordination and through several joint programmes (German Red Cross 2023 2). For example, FAO, OCHA, WFP and National Red Cross Societies started to hold regular coordination activities beyond the regional dialogue platforms, with the goal of exploring gaps and opportunities to improve and scale up anticipatory action. There are also ongoing discussions between the Caribbean Disaster Emergency Management Agency and the Centro de Coordinación para la Prevención de los Desastres Naturales en América Central to strengthen early warning systems.

One early outcome of this closer engagement was a partnership between FAO and the IFRC to address drought in El Salvador, Guatemala, Honduras and Nicaragua, within the context the Humanitarian Implementation Plan. Another is the ambition to develop a coordinated framework for anticipatory action for Guatemala's Chiquimula province. Given the high vulnerability of this province to food insecurity, there is agreement on the need to coordinate activities and financing mechanisms, and to scale up – and thus increase the impact of – anticipatory action. These are important developments, especially as the risk of drought in Central America has increased for 2024 with the formation of El Niño.

Anticipatory action in the region continued to increase in scale in 2022. Notable initiatives included: a simulation of anticipatory action ahead of floods in Costa Rica (January); a regional workshop to explore ways to anticipate extreme drought (February); a workshop in Colombia (June) to explore the feasibility of applying anticipatory approaches for non-hydrometeorological hazards, such as health and complex crises in violent contexts; and an interagency dialogue in El Salvador (September), which led to the decision to focus on floods and drought.

Asia-Pacific

At the Global Platform for Disaster Risk Reduction, held in Indonesia in May, the Association of Southeast Asian Nations (ASEAN) published the ASEAN Framework on Anticipatory Action in Disaster Management (ASEAN 2022 ☑), which sets the standard for the anticipatory action approach in South-East Asia. This plan of action, up to 2025, sets out specific activities to achieve ASEAN's vision for anticipatory action. Members of the Regional Technical Working Group on Anticipatory Action are actively supporting ASEAN in fulfilling these activities, either through existing workstreams or new cooperations. Another significant policy initiative was the Nadi Declaration, in which 17 Pacific countries and territories committed to "strengthening anticipatory action and disaster preparedness measures including through regional and subregional pre-positioning of approved goods and pooling of resources" (page 2, Pacific Ministers for Disaster Risk Reduction **2022** 🔼).

The Regional Technical Working Group expanded further during 2022 and currently comprises more than 20 organizations. Besides its coordination and alignment roles, it initiated several new activities during the year. These included work on new technical standards that will establish broad guidelines for anticipatory action in the Asia-Pacific region, and guidelines on anticipatory cash for rapid-onset hazards (Asia-Pacific Technical Working Group on Anticipatory Action and Asia-Pacific Regional Cash Working Group 2022 .) The group also hosted a booth at the Asia-Pacific Ministerial Conference on Disaster Risk Reduction, held in Australia in September, where it presented members' collective work on anticipatory action.

3.4 Highlights from thematic areas

Conflict

Current discussions about expanding anticipatory action to conflict situations focus on two lines of inquiry: (1) how to act in anticipation of weather- and climate-related hazards (e.g., floods, droughts) in situations of conflict; and (2) how to predict and act early to minimize the humanitarian impacts of a conflict

(i.e., food security, displacement). Both saw significant progress in 2022, building on an increasing number of studies and practical lessons from pilot projects. These included an article by Jaime et al. (2022) reviewing the performance of weather forecasts for food availability in conflict-affected countries. This concluded that – contrary to conventional wisdom – global forecast models accurately predicted major events and, thus, could be used for early warnings.

Discussions on conflict prediction were advanced by a paper on the technical feasibility of doing this (OCHA Centre for Humanitarian Data 2022a 2) and related technical sessions within the Anticipatory Action in Conflict Practitioners Group. These concluded that current models underperform in terms of predicting the onset of a conflict, and that ongoing conflict is a key predictor for future events. This means that shifts in the intensity of ongoing conflicts can be more accurately predicted than the outbreak of new conflicts in peaceful settings. Also in this area, a project by Uppsala University and the Peace Research Institute Oslo received funding to further develop its violence-prediction model to include humanitarian impacts.¹⁰

Linking risk financing to anticipatory action

Mobilizing additional finance is fundamental to scaling up anticipatory action but, as of 2022, only five humanitarian funds explicitly fund and report on this: CERF, DREF, the Start Fund, FAO's Special Fund for Emergency and Rehabilitation Activities (SFERA) and the WFP Trust Fund. As these are supported by a small group of donors, the available resources are neither appropriate nor particularly diversified. Broadening the donor base, securing greater national- and local-level resources, bridging funding silos and tapping into opportunities with climate finance and disaster risk finance are needed for a meaningful scale up. There was progress and innovation in 2022, however, with the launch of the Global Shield, among others (see Section 3.1), offering hope that the coming years may see more funding available for anticipatory action.

In the meantime, several strategic and technical questions need to be addressed and political barriers overcome. The Sectoral Community on Linking Risk Financing to Anticipatory Action contributes to discussions on how to do so and during 2022, it produced a compendium (InsuResilience Global Partnership, REAP and Anticipation Hub 2023) which contains more than 20 think pieces from experts in the humanitarian, climate and development sectors, each exploring how to link anticipatory action and risk financing. The Risk-informed Early Action Partnership's Finance

for Early Action report (REAP 2022) provided a comprehensive analysis of the financing gaps for anticipatory action and, based on this report, it has been working to bring together informal coalitions of donors and other actors around how to scale up this finance. REAP is currently developing a roadmap to ensure concrete steps are taken towards this.

And 2022 saw the first cross-sectoral innovations for risk financing. For example, ARC is modifying its existing products to pilot the concept of 'anticipatory insurance', working with OCHA in Malawi and Zambia to explore if its insurance payouts for drought could be made earlier by moving its trigger ahead in time. Moreover, Start Network's Start Ready mechanism,¹¹ which went live in 2022, uses insurance to cover action plans for extreme events.

Earth observation

Earth observation has the potential to play a critical role in anticipatory action, for example by using satellite data to bridge gaps in forecasts (e.g., from poor or failing weather stations) or improving forecast validation and thus reducing uncertainty. In 2022, members of the Earth Observation for Anticipatory Action Working Group produced an initial assessment of the needs and opportunities for Earth observation in anticipatory action (**Dall and Huyck 2022**). This found that there is potential to use Earth observation data to improve all phases of the anticipatory action cycle, from initial risk assessments and risk modelling through to the evaluation of triggers, actions and impacts.



A Red Cross volunteer educates vulnerable community members, including elderly people, on the importance of early warnings for floods. These messages provide crucial time for early evacuations and safeguarding assets such as properties, livestock and crops. © Danish Red Cross



Start Network members provide hygiene kits in anticipation of a disease outbreak in the Philippines. © Humanity & Inclusion

Monitoring and evaluating for anticipatory action are crucial, but also usually resource intensive. An article by Enenkel and Dall (2022 2) advances the proposition that satellite-based Earth observation can complement and enhance existing monitoring and evaluation for anticipatory action in a cost-effective way. For example, it can provide higher-resolution data for monitoring hazards, or identify types of housing prone to cyclones. And, to help measure impact, Earth observation could, for example, assess agricultural production in areas where households received drought-tolerant seeds.

Food insecurity

Acute food insecurity has reached extremely worrying levels globally: 222 million people experienced acute hunger in 45 countries in 2022 (WFP and FAO 2022), the highest number recorded in the last seven years. Driven by factors including conflict and insecurity, weather extremes, and global and national economic shocks – often occurring in parallel – this has resulted in global humanitarian needs that are at an all-time high and continuing to grow.

Anticipatory action can help break this vicious cycle. In 2022, actions taken to protect livelihoods – and taken ahead of predictable shocks – reduced the impacts on agricultural production, animal mortality and productivity, and productive assets. This in turn had positive effects on food security and nutrition. Anticipatory action is also more dignified, as it provides people with the means to continue producing food when and where it is most needed.

Anticipating food crises at scale can only be achieved through proactive collaboration, seeking and actively promoting a multilateral consensus on parameters, standards and best practices. In November 2022, FAO and WFP, in collaboration with the Global Network Against Food Crises, convened a technical consultation on scaling up anticipatory action in food crises contexts. Priorities identified include:

- agreeing on minimum technical standards for generating evidence on the effectiveness of anticipatory action for curbing food insecurity
- more flexible and frequent updates about acute food insecurity, which can – in combination with other risk indicators – trigger anticipatory action
- further integration of anticipatory action in the humanitarian programme cycle, especially in the context of protracted crises
- the need to systematically incorporate this approach into processes that convene humanitarian, development and peace actors – including governments, bilateral actors, the private sector, civil society and multilateral systems – to reach a shared understanding of risks and vulnerabilities.

Health

While many anticipatory action initiatives to date have focused on extreme climate and weather events, there are increasing opportunities to act ahead of other types of hazard. These include disease outbreaks and epidemics, which are drivers of immense human suffering and loss, and have major socioeconomic impacts. The Covid-19 pandemic also amplified the need to consider the compounding and exacerbating impacts on vulnerabilities that occur when multiple hazards coincide.

Technological progress in scientific modelling and forecasting systems are enabling better predictions of who, how, when and where people might be affected by disease outbreaks and epidemics. These advances, along with more proactive approaches using existing health surveillance data, are providing increased opportunities to develop, implement and expand anticipatory action approaches for health, for example to anticipate cholera epidemics or dengue outbreaks. Two initiatives were started in 2022 to explore these opportunities and advance this theme further: the Red Cross Red Crescent's Working Group on Anticipatory Action and Health, and a multiagency working group on anticipatory action and health, led by the Red Cross Red Crescent Climate Centre, Médecins Sans Frontières and OCHA.

Protection, gender and inclusion

Anticipatory action has gained real prominence in the humanitarian sector, but acting early is no guarantee that everyone will benefit equally. Since anticipatory action is based on assessments of risk, rather than post-emergency needs, it offers a powerful opportunity to address protection outcomes, including the mitigation of gender-based violence and child-protection risks.

Equally, considering inclusion within planning processes can ensure spaces for women and girls, and men and boys, in all their diversity, to voice their priorities and ensure that anticipatory action responds to their specific needs and strengthens their capacities to act themselves. Yet although there is increasing recognition of the importance of protective, gender-transformative and inclusive approaches, these are not yet consistently applied. Typically, this is due to a lack of capacity and gaps in resources and monitoring mechanisms, which mean that such approaches are not prioritized or implemented.

Collaboration and partnerships between anticipatory action practitioners and cross-sectoral experts are crucial for driving this agenda forward. These can only be achieved by strengthening coordination, carrying out intersectional gender and diversity analysis, and ensuring the meaningful participation of, as well as accountability to, all affected individuals. Complementary roles and responsibilities between the involved stakeholders must be understood and clearly defined to maximize efficiency and impact. On this basis, the Working Group on Protection, Gender and Inclusion in Anticipatory Action continued to accelerate the mainstreaming and integration of these approaches in anticipatory action during 2022.

More information about these themes, and the working groups driving them forwards, is available on the Anticipation Hub.

See bit.ly/3Ke2sR2 ☑ and bit.ly/40qShyc ☑

These working groups are co-led by organizations from different sectors, including the Australian Red Cross, the German Red Cross, the IFRC, the InsuResilience Global Partnership, the NASA Disasters program, Plan International, REAP, the Red Cross Red Crescent Climate Centre and Start Network.

Other prominent networks, working groups and communities of practice in this sector include REAP's working groups, each dedicated to one of its four targets, Start Network's Forecast-based, Warning, Analysis, and Response Network (FOREWARN) and the Future Leaders Network on Early Warning Early Action.

See bit.ly/3zcijlg , bit.ly/3KblrdB and bit.ly/40m48MS

4. Progress, gaps and recommendations

In 2021, the Anticipatory Action Task Force (AATF) put forward five key asks for scaling up anticipatory action, to inform policy processes and set out principles for collaboration (AATF 2021 ?). There was steady progress towards these during 2022, but some gaps persist.

1. Flexible, coordinated and predictable financing for anticipatory action

There is growing interest in anticipatory action among donors (**REAP 2022**☑), with a corresponding increase in investment; financing for active frameworks in 2022 reached 138 million US dollars, with CERF being the largest source. However, this growing interest has not yet led to a systemic shift in funding.

There were positive signs of more financing for anticipatory action in 2022. Germany had already committed to spending 5 per cent of its humanitarian budget for 2023 on anticipatory action, and other G7 Members also promised to significantly increase their financing. The IFRC aims to allocate 25 per cent of its DREF funding to anticipatory action, and introduced Simplified EAPs to make this more accessible. Start Network's Start Ready mechanisms use different approaches and resources, including risk pooling to stretch funds further and make funds more accessible. OCHA is committed to scaling up and mainstreaming anticipatory action, including by using its existing financing tools (OCHA 2022b 2). WFP reviewed its Immediate Response Account to allow country offices to access financing for anticipatory action, representing a major milestone in its commitment to a more sustainable and scalable approach to anticipatory action. FAO has committed to allocate the equivalent of 20 per cent of emergency resources to anticipatory action by 2025. There are also signs that other sectors are beginning to consider and support anticipatory approaches. The Global Shield Against Climate Risks serves as a case in point, as do the World Bank's Food Security Crisis Preparedness Plans.

2. Investment in early warning and preparedness capacities, especially at local levels

As Box 3 highlights, the number of locally led anticipatory action initiatives is growing. Another positive milestone in 2022 was the EW4ALL initiative to ensure everyone is protected by early warning systems within five years; encouragingly, this identifies locally led action as a cross-cutting enabler for reaching communities.

There was further good news with respect to the availability and quality of forecast data, which is improving in many countries, and evidence that humanitarian actors are increasingly aware of the opportunities that anticipatory action provides (**OCHA Centre for Humdata 2022b** 2). However, tracking pledged investments for anticipatory action remains challenging (**REAP 2022** 2).

Applying anticipatory action to a wider variety of hazards

In 2022, there were anticipatory action frameworks in place for 11 different types of hazards (Figures 1 and 2) and, as Section 3.4 reports, growing technical developments to apply anticipatory action to more hazards (e.g., health) and in new contexts (e.g., conflict settings, compound and cascading risks). In particular, there has been an increased focus on how this approach can be applied in the context of mass population movements, for example to better understand the specific needs of refugees and displaced populations (**Easton-Calabria, Jaime and Shenouda 2022**) and the role of anticipatory action to address disaster displacement (**Thalheimer, Simperingham and Jjemba 2022**).

4. Collective learning, coordination and partnerships

As Box 2 and Box 4 demonstrate, better coordination is enabling anticipatory action to be implemented at larger operational scales. These include OCHA-facilitated efforts around collective frameworks, which bring together relevant actors around common triggers, actions and coordinated prearranged financing to adopt anticipatory approaches across more hazards and sectors.

In 2022 there was also new evidence and collaborative research to advance learning, as Section 3.2 demonstrates. With respect to learning and partnerships, the Anticipation Hub – with the support of more than 100 partners – made considerable progress in 2022. Its in-person and virtual exchange and learning activities were attended by more than 3,000 participants from at least 140 countries. Importantly, these efforts reached new audiences: at the 10th Global Dialogue Platform on Anticipatory Humanitarian Action, it is estimated that 500 participants – 50 per cent of the total – were taking part for the first time, reflecting the growing global interest in anticipatory action.

5. Mainstreaming anticipatory action into national disaster management systems

The development of several regional frameworks and roadmaps during 2022 (see Section 3.3 and Wagner 2023 ☑) is a good indication that regional organizations are giving anticipatory action a higher priority when planning for disaster risk management and climate change adaptation. Efforts are under way by national governments in Africa, the Asia-Pacific region and the Americas to integrate anticipatory action into disaster risk management systems (e.g., in policies or frameworks); this represents an area to focus on in 2023.

Recommendations

As this report shows, in 2022 there were 70 anticipatory action frameworks in place in 35 countries, with 97 more under development. Alongside the methodological, thematic and regional progress presented, this provides evidence of the current scale of practical implementation, the ongoing research and innovation to expand this approach, and initial efforts towards greater collaboration between different humanitarian organizations. Overall, these trends indicate that the anticipatory action community is on the right course.

At the same time, anticipatory action is not yet being implemented at a scale commensurate with the opportunities it presents, or being applied to all the hazards that can be anticipated. Even for those where it is being applied, there is often much more that can – and must – be done (Montier, Weingärtner and Klassen 2022 🗹).

Going forward, doing 'more of the same' will not be sufficient. More efforts are needed, which must be informed by the lessons learned from implementations to date, alongside increased advocacy to ensure that financing and frameworks are in place to support these ambitions. There are several ways to achieve this.

- More learning and evidence to inform investments.

 Develop learning and tracking mechanisms to ensure the balance between funding for building systems and fuelling implementation. Research efforts should focus on the impact of different timing of interventions, return on investments, and documenting challenges and opportunities, while also demonstrating the benefits to attract diverse funding streams.
- 2 A more coordinated approach to developing anticipatory action frameworks. There is a need to improve collaboration between projects that focus on the same hazard in a country to reach operational scale and integration into the humanitarian

system. This would be in line with the Inter-Agency Standing Committee Deputies Group's call for better integrated anticipatory action (IASC 2023 [27]). Flexible financing should be increased and coordinated within humanitarian structures, and – where possible – aligned with government systems, while leaving room for further innovation and improvements over time.

- Involve more local actors in anticipatory action planning, learning and development. This will not only add new expertise to the process, but also help implementing organizations to engage with existing local networks and platforms, which in turn will support ambitions to apply anticipatory action to more hazards and in new contexts. New initiatives must be designed to give local actors better access to risk information and financing for anticipatory action. Starting points include the various national and regional working groups on anticipatory action and multistakeholder working groups (see Section 3.4).
- Increase support for efforts to integrate anticipatory action across national and local policies, laws and frameworks.

 This includes further advocacy which draws on the lessons learned through MEAL and research for integrating this approach within finance and delivery mechanisms for disaster risk management (including disaster risk finance), as well as those for climate change adaptation, social protection and others. Where they exist at national or regional levels, the existing anticipatory action working groups are well placed to facilitate collaboration with their government counterparts.
 - Incentivize greater collaboration between development, humanitarian and climate programmes. Anticipatory action will not reach the scale required if it remains exclusively within the humanitarian system. When building systems and strengthening local actors' capacities to lead anticipatory action, development and climate actors must also be involved. Donors can incentivize this integration through the mechanisms they use to finance these programmes, for example encouraging stronger synergies between these sectors. New global initiatives such as the Global Shield and the EW4ALL initiative should encourage development, climate and humanitarian actors to combine their expertise when designing frameworks and projects. They should also remove any structural and administrative barriers that prevent local partners from accessing funds.

Anticipatory action in 2022: a global overview

Anticipatory action in 2022: a global overview

Annex: Tables A1, A2 and A3

FAO's funding allocations under its Anticipatory Action Protocols are flexible and determined based on the expected hazard impact and available funding. Prearranged SFERA funds for anticipatory action currently amount to about 11 million US dollars. Considering the average cost per direct beneficiary from previous anticipatory action interventions, this could support approximately 785,000 people ahead of forecast shocks.

Table A1. Active anticipatory action frameworks in 2022

This table lists countries with an active anticipatory action framework in place during 2022. This may include frameworks that were activated in 2022 and have since been revised, and those that are no longer active. It is likely that a higher number of NGOs are implementing anticipatory action than are included in these figures; see Box 2.

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners	Available budget per activation (US\$)†*	People targeted*
Bangladesh	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Bangladesh Red Crescent Society; German Red Cross; American Red Cross; Swiss Red Cross	366,835	40,000
	Riverine flood	RCRC	IFRC	Bangladesh Red Crescent Society; German Red Cross; American Red Cross; Swiss Red Cross	366,751	50,000
	Riverine flood	UN	OCHA	FAO; WFP; UNICEF; UNFPA; NGO partners	7,500,000	389,956
	Riverine flood	UN	WFP	WFP	2,300,000	141,750
	Flood	NGO	Start Network	CARE International; RDRS Bangladesh; MMS; DAM; Islamic Relief; World Vision International; NDP; SKS Foundation	711,863	28,462
	Cold wave	NGO	Start Network	ESDO; Humanity & Inclusion	55,661	1,000
Burkina Faso	Drought	UN	OCHA	UNHCR; FAO; WFP; UNICEF; UNFPA; NGO partners	15,000,000	800,000
Burundi	Riverine flood	UN	WFP	WFP; Burundi Red Cross	n/a	5,880
Costa Rica	Volcanic ash	RCRC	IFRC	Costa Rican Red Cross; German Red Cross	401,530	10,000
Chad	Drought	UN	OCHA	FAO; UNFPA; UNHCR; UNICEF; WFP; NGO partners	10,000,000	100,000
Democratic Republic of the Congo	Flood	NGO	Start Network	Christian Aid; MIDEFEHOPS; ALIMA; Caritas Kindu	569,961	11,760
Djibouti	Flood	RCRC	IFRC	Red Crescent Society of Djibouti; IFRC	209,965	2,500
Dominican Republic	Cyclone/Typhoon/Hurricane	UN	WFP	WFP	101,538	11,000
Ecuador	El Niño (extreme rainfall)	RCRC	IFRC	Ecuadorian Red Cross; German Red Cross	252,958	5,000
Ethiopia	Drought	UN	OCHA	FAO; UNFPA; UNHCR; UNICEF; WHO; NGO partners	20,000,000	890,474
	Drought	UN	WFP	WFP	2,500,000	90,000
	Riverine flood	RCRC	IFRC	Ethiopian Red Cross Society; The Netherlands Red Cross	377,316	28,250
Guatemala	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Guatemalan Red Cross; German Red Cross	501,815	15,000
Honduras	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Honduran Red Cross; German Red Cross	378,185	13,500
Kazakhstan	Cold wave	RCRC	IFRC	Red Crescent Society of the Republic of Kazakhstan; IFRC	230,579	82,000
Kenya	Riverine flood	RCRC	IFRC	Kenya Red Cross Society; The Netherlands Red Cross; British Red Cross; Danish Red Cross	348,260	210,240
	Drought	NGO	Start Network	Welthungerhilfe; PACIDA; Oxfam; MID-P; ACTED; SAPCONE; TUPADO	700,000	100,000
Kyrgyzstan	Heat wave	RCRC	IFRC	Red Crescent Society of Kyrgyzstan; German Red Cross	366,825	13,850
Lesotho	Drought	RCRC	IFRC	Lesotho Red Cross Society; German Red Cross	576,445	20,560

Anticipatory action in 2022: a global overview

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners	Available budget per activation (US\$)†*	People targeted*
Madagascar	Drought	UN	FAO	FAO	n/a	n/a
	Cyclone/Typhoon/Hurricane	NGO	Start Network	Action Against Hunger; Doctors of the World; Welthungerhilfe; Medair; CRS; Save the Children; CARE International	865,830	98,248
	Drought	NGO	Start Network	Welthungerhilfe; CRS	320,000	46,000
	Drought	UN	WFP	WFP	1,500,000	100,000
Malawi	Dry spell	UN	OCHA	UNFPA; IOM; UNICEF; FAO; WFP; NGO partners	7,000,000	377,115
	Dry spell	UN	FAO	FAO	n/a	n/a
Mali	Riverine flood	RCRC	IFRC	Mali Red Cross; The Netherlands Red Cross; Danish Red Cross	219,610	5,000
Mozambique	Drought	UN	WFP	WFP	1,500,000	230,000
	Riverine flood	RCRC	IFRC	Mozambique Red Cross Society; German Red Cross; Belgian Red Cross	261,319	5,000
	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Mozambique Red Cross Society; German Red Cross; Belgian Red Cross	261,385	7,500
Nepal	Riverine flood	UN	OCHA	UNFPA; UNICEF; UN Women; WFP; Nepal Red Cross Society; NGO partners	7,500,000	74,346
	Riverine flood	UN	WFP	WFP	950,000	32,545
	Landslide	NGO	Start Network	Cordaid; CRS	43,292	1,500
Niger	Drought	RCRC	IFRC	Niger Red Cross Society; French Red Cross; Belgian Red Cross; British Red Cross	366,823	28,000
	Drought	UN	OCHA	UNICEF; WHO; FAO; UNHCR; UNFPA; UNDP; WFP; NGO partners	15,000,000	151,656
	Drought	UN	WFP	WFP	2,000,000	154,000
	Riverine flood	RCRC	IFRC	Red Cross Society of Niger; Belgian Red Cross	262,025	15,000
Nigeria	Riverine flood	RCRC	IFRC	Nigerian Red Cross Society; IFRC	230,582	7,500
Pakistan	Heat wave	NGO	Start Network	HANDS; HelpAge International; Help Foundation; Bright Star Development Balochistan; ACTED	325,773	200,000
	Flood	NGO	Start Network	Tearfund; Mercy Corps; IDEA; HelpAge International; HANDS; Help Foundation; ACTED	725,178	341,206
	Drought	UN	FAO	FAO	n/a	n/a
	Drought	NGO	Start Network	Concern Worldwide	647,683	37,800
Peru	Cold wave; Heavy snowfall	RCRC	IFRC	Peruvian Red Cross; German Red Cross	264,304	3,125
	Riverine flood	RCRC	IFRC	Peruvian Red Cross; German Red Cross	260,501	5,000
Philippines	Cyclone/Typhoon/Hurricane	NGO	Start Network	Humanity & Inclusion; CARE International; AADC; LCDE; ACCORD; GMDFI; SPUP-CSC	616,841	30,340
	Riverine flood	RCRC	IFRC	Philippine Red Cross; German Red Cross; Finnish Red Cross	262,098	7,500
	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Philippine Red Cross; German Red Cross; Finnish Red Cross	261,542	9,750
	Drought	UN	FAO	FAO	n/a	n/a
	Cyclone/Typhoon/Hurricane	UN	ОСНА	IOM; FAO; WFP; UNICEF; UNFPA; Philippine Red Cross; NGO partners	7,500,000	273,350
	Disease outbreak	NGO	Start Network	Humanity & Inclusion	371,070	38,965
Senegal	Drought	NGO	Start Network	Action Against Hunger	408,177	8,000
Somalia	Drought	UN	WFP	WFP	8,000,000	1,300,000
Sudan	Drought	UN	FAO	FAO	n/a	n/a
Tajikistan	Heat wave	RCRC	IFRC	Red Crescent Society of Tajikistan; German Red Cross	265,112	5,580
Timor-Leste	Drought	UN	FAO	FAO	n/a	n/a
Uganda	Riverine flood	RCRC	IFRC	The Uganda Red Cross Society; The Netherlands Red Cross	365,536	11,915
Viet Nam	Heat wave	RCRC	IFRC	Viet Nam Red Cross Society; German Red Cross	236,122	25,525
	Drought	UN	FAO	FAO	38,627	n/a
	Flood	UN	FAO	FAO	n/a	n/a

Anticipatory action in 2022: a global overview Anticipatory action in 2022: a global overview

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners	Available budget per activation (US\$)†*	People targeted*
Zambia	Riverine flood	RCRC	IFRC	Zambia Red Cross Society; The Netherlands Red Cross	261,977	6,000
Zimbabwe	Drought	NGO	Start Network	ARC Replica; Action Against Hunger; CAFOD; Tearfund; Plan International; GOAL	582,915	13,681
	Drought	NGO	Start Network	Welthungerhilfe; Tsuro Trust; ACTED; Nutrition Action Zimbabwe; Trócaire; Caritas Bulawayo	600,000	53,000
	Drought	UN	WFP	WFP	2,000,000	n/a
	Drought	UN	FAO	FAO	n/a	n/a
	Flood	UN	FAO	FAO	n/a	n/a
	Drought	RCRC	IFRC	Zimbabwe Red Cross Society; British Red Cross	549,318	21,000
				То	tal 126,640,127	6,786,329
				Total including FAO estima	es 137,640,127	7,571,329

Table A2. Anticipatory action frameworks activated in 2022

Month	Country	Hazard	Coordinating organization(s) / funding organization	Implementing organization(s)	Funding (US\$)*	People reached (targeted)**
January	Bangladesh	Cold wave	Start Network	ESDO; Humanity & Inclusion	41,447	5,981
	Mozambique	Riverine flood	IFRC	Mozambique Red Cross Society; German Red Cross; Belgian Red Cross	267,952	7,500
	Philippines	Disease outbreak	Start Network	Humanity & Inclusion	403,050	38,965
February	Madagascar	Cyclone/Typhoon/Hurricane	Start Network	Welthungerhilfe; CRS - United States Conference of Bishops; Medair	222,947	220,188
	Madagascar	Cyclone/Typhoon/Hurricane	Start Network	Medair; Welthungerhilfe; CRS; Action Against Hunger UK	338,485	41,558
	Somalia§	Drought	WFP	WFP	7,899,280	1,283,922
March	El Savador	Wildfire	Start Network	Pro-Vida	328,800	15,023
	Sri Lanka	Economic crisis	FAO	FAO	700,000	35,000
April	Niger	Drought	IFRC	Red Cross Society of Niger; French Red Cross; Belgian Red Cross; British Red Cross	331,314	28,000
	South Sudan	Flood	OCHA	FAO; IOM; UNFPA; UNHCR; UNICEF; WFP; WHO	14,990,010	313,543
	Sri Lanka	Flood	Start Network	ACTED	531,463	15,513
	Tajikistan	Locust	FAO	FAO	132,000	120,000
May	Burkina Faso	Flood	FAO	FAO	400,000	8,400
	Niger	Flood	FAO	FAO	400,000	181,706
	Zimbabwe	Drought	Start Network	Plan International; CAFOD; Tearfund; GOAL; Action Against Hunger	594,933	13,681
	Zimbabwe	Drought	Start Network	Welthungerhilfe; Tsuro Trust; Action Against Hunger; Nutrition Action Zimbabwe; Trócaire; Caritas Bulawayo	741,843	9,919
June	Cape Verde	Economic crisis	FAO	FAO	400,000	15,000
	Guatemala	Flood	Start Network	CADENA	364,800	24,648
	Kenya	Drought	Start Network	Welthungerhilfe; PACIDA; ACTED; SAPCONE; TUPADO; Oxfam; MID-P	656,788	7,560
	Nepal	Flood	OCHA	UNFPA; UN Women; WFP	3,186,691	154,000
	Pakistan	Heat wave	Start Network	Care International	68,846	82,750
	Pakistan	Heat wave	Start Network	Help Foundation	42,210	186,775
July	Kenya	Electoral violence	Start Network	Christian Aid; Oxfam	487,120	47,478
	Kyrgyzstan	Heat wave	IFRC	Red Crescent Society of Kyrgyzstan; German Red Cross	218,300	10,500
	Pakistan	Heat wave	Start Network	HelpAge International	43,841	16,040

 ^{*} FAO entries are without targeted people and available budget.
 † Figures in other currencies are converted using the average exchange rates for 2022: GBP 1: 1.2369 USD; CHF 1: 1.0481 USD. Source: www.exchangerates.org.uk

Anticipatory action in 2022: a global overview

Anticipatory action in 2022: a global overview

Month	Country	Hazard	Coordinating organization(s) / funding organization	Implementing organization(s)	F	unding (US\$)*	People reached (targeted)**
August	Ethiopia	Drought	WFP	WFP		2,175,381	137,151
	Madagascar	Drought	WFP	WFP		1,154,200	62,210
	Nepal	Landslide	Start Network	CRS		34,944	1,289
	Niger	Drought	OCHA; FAO; WFP; UNFPA; UNHCR; WHO; UNDP	OCHA; FAO; WFP; UNFPA; UNHCR; WHO; UNDP		9,500,000	151,656‡
	Niger	Riverine flood	IFRC	Red Cross Society of Niger; Belgian Red Cross		256,150	406
	Nigeria	Flood	Start Network	Christian Aid		349,440	19,948
September	Iraq	Drought	FAO	FAO		625,000	6,780
	Madagascar	Drought	FAO	FAO		900,000	20,000
	Mali	Riverine flood	IFRC	Mali Red Cross; The Netherlands Red Cross; Danish Red Cross		212,885	1,000
	Nepal	Landslide	Start Network	Cordaid		43,059	774
	Viet Nam	Typhoon	FAO	FAO		38,627	3,600
October	Dominican Republic	Flood	WFP	WFP		80,000	2,280
	Guatemala	Cyclone/Typhoon/Hurricane	IFRC	Guatemalan Red Cross; German Red Cross		478,557	15,000
	Honduras	Cyclone/Typhoon/Hurricane	IFRC	Honduran Red Cross; German Red Cross		360,650	13,500
	Kenya	Drought	Kenya Red Cross Society	Kenya Red Cross Society; British Red Cross; The Netherlands Red Cross		141,384	100,000
	Mexico	Conflict	Start Network	CADENA		230,300	18,415
	Nepal	Flood	WFP	WFP		2,713,972	86,677
	Philippines	Cyclone/Typhoon/Hurricane	IFRC	Philippine Red Cross		16,973	500
	Rwanda	Drought	FAO	FAO		500,000	14,000
November	Uganda	Epidemic (Ebola)	Start Network	CAFOD; BRAC International		316,861	37,657
December	Senegal	Drought	Start Network	Action Against Hunger		399,366	8,000
	Syrian Arab Republic	Storm	Start Network	CAFOD; HelpAge International UK		438,011	41,000
					Total	53,772,705	3,625,493

^{*} Figures in other currencies are converted using the average exchange rates for 2022: GBP 1: 1.2369 USD; CHF 1: 1.0481 USD. Source: www.exchangerates.org.uk

Table A3. Anticipatory action frameworks under development in 2022

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners*	Starting year (FY)
Afghanistan	Drought	UN	FAO	FAO	n/a
Argentina	Riverine flood	RCRC	IFRC	Argentine Red Cross; German Red Cross	2021
Bangladesh	Heat wave	RCRC	IFRC	Bangladesh Red Crescent Society; German Red Cross; American Red Cross; Swiss Red Cross	2021
	Flash flood	UN	FAO	FAO	2021
	Cyclone/Typhoon/Hurricane	NGO	Start Network	Action Against Hunger; IRB; World Vision Bangladesh; Caritas Bangladesh; CNRS; DAM; Friendship; Nabolok; Shusilan; Uttaran; LEDARS; Nowabenki Gonomukhi Foundation; ActionAid Bangladesh; Christian Aid; Muslim Aid; Save the Children; AVAS; Jago Nari; NSS; Plan International Bangladesh	2022
Burkina Faso	Flood	RCRC	IFRC	Burkinabe Red Cross Society; IFRC; Red Cross Red Crecent Climate Centre	n/a

^{**} When no data were available for people reached, the number of people targeted (given in italics) is used as an estimate.

[‡] This figure includes the WFP activation mentioned in the case study (Box 2).

[§] Under this activation in Somalia, two sets of actions were carried out, in February and in August.

Anticipatory action in 2022: a global overview

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners*	Starting year (FY)
Burundi	Drought	RCRC	IFRC	Burundi Red Cross	n/a
	Flood; Drought	UN	WFP	WFP	2020
Cambodia	Drought	UN	FAO	FAO	2021
	Flood	UN	WFP	WFP	2022
Chad	Riverine flood	RCRC	IFRC	Red Cross of Chad; French Red Cross	2022
	Rain flood	RCRC	IFRC	Red Cross of Chad; French Red Cross	2022
	Drought	RCRC	IFRC	Red Cross of Chad; French Red Cross	2022
	Flood	UN	ОСНА	n/a	2021
Colombia	Flood	UN	FAO	FAO	2022
	Hurricane	UN	FAO	FAO	2022
	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Colombian Red Cross; German Red Cross	2022
	Epidemic	RCRC	IFRC	Colombian Red Cross; German Red Cross	2022
	Conflict and violence	NGO	Start Network	ActionAid	2022
Costa Rica	Volcanic ash	RCRC	IFRC	Costa Rican Red Cross; German Red Cross	2022
	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Costa Rican Red Cross; German Red Cross	2021
Democratic Republic of the Congo	: Epidemic	RCRC	IFRC	Red Cross of the Democratic Republic of the Congo; French Red Cross	n/a
Djibouti	Riverine flood	RCRC	IFRC	Red Crescent Society of Djibouti; IFRC	2022
	Drought	UN	WFP	WFP	2020
Dominican Republic	Drought	UN	FAO	WFP	2021
Ecuador	Flash flood	RCRC	IFRC	Ecuadorian Red Cross; German Red Cross	2021
El Salvador	Drought	UN	FAO	FAO	2022
	Drought	RCRC	IFRC	Salvadorean Red Cross Society; German Red Cross	2022
	Drought	UN	WFP	WFP	2022
Eswatini, Kingdom of	f Drought	RCRC	IFRC	Baphalali Eswatini Red Cross Society; British Red Cross	2020
Ethiopia	Epidemic	RCRC	IFRC	Ethiopian Red Cross Society; The Netherlands Red Cross; IFRC	n/a
	Drought	RCRC	IFRC	Ethiopian Red Cross Society; The Netherlands Red Cross	2022
Guatemala	Drought	RCRC	IFRC	Guatemalan Red Cross; German Red Cross	2020
	Cyclone	RCRC	IFRC	Guatemalan Red Cross; German Red Cross	2021
	Drought	UN	FAO	FAO	2022
	Drought	UN	WFP	WFP	2022
	Drought	UN	OCHA	n/a	2021
Haiti	Flood; Cyclone/Typhoon/Hurricane	UN	WFP	WFP	2020

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners*	Starting year (FY)
Honduras	Population movement	RCRC	IFRC	Honduran Red Cross; German Red Cross	2022
	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Honduran Red Cross; German Red Cross	2021
	Drought	UN	FAO	FAO; German Red Cross	2022
	Drought	UN	WFP	WFP	2022
India	Riverine flood	RCRC	IFRC	Indian Red Cross Society	n/a
	Flood	NGO	Start Network	Save the Children	2022
	Cyclone/Typhoon/Hurricane	NGO	Start Network	SEEDS	2022
Indonesia	Riverine flood	RCRC	IFRC	Indonesian Red Cross Society; Australian Red Cross; British Red Cross; IFRC	2019
	Flood	UN	WFP	WFP	2022
Kazakhstan	Cold wave	RCRC	IFRC	Red Crescent Society of the Republic of Kazakhstan; IFRC	2022
Kenya	Drought	RCRC	IFRC	Kenya Red Cross Society; The Netherlands Red Cross; British Red Cross; Danish Red Cross	2018
	Drought	UN	WFP	WFP	2020
Kyrgyzstan	Mudflow	RCRC	IFRC	Red Crescent Society of Kyrgyzstan; German Red Cross	2022
	Drought	UN	WFP	WFP	2022
	Flood	UN	WFP	WFP	2022
Lao People's Democratic Republi	Flood c	UN	WFP	WFP	2022
	Flood	UN	FAO	FAO	2021
	Drought	UN	FAO	FAO	2021
Lebanon	Winter storm	RCRC	IFRC	Lebanese Red Cross; German Red Cross	2021
Lesotho	Drought	UN	WFP	WFP	2020
Madagascar	TBD	RCRC	IFRC	Malagasy Red Cross Society; German Red Cross	2022
	Epidemic	UN	OCHA	n/a	2021
Malawi	Riverine flood	RCRC	IFRC	Malawi Red Cross Society; Danish Red Cross; WFP	2021
Mauritania	Drought	RCRC	IFRC	Mauritanian Red Crescent; French Red Cross; British Red Cross	2022
Mongolia	Epidemic	RCRC	IFRC	Mongolian Red Cross Society; Australian Red Cross	2022
Morocco	Cold wave	RCRC	IFRC	Moroccan Red Crescent; German Red Cross	2021
Mozambique	Epidemic	UN	ОСНА	n/a	n/a
	Drought	RCRC	IFRC	Mozambique Red Cross Society; German Red Cross; Belgian Red Cross	2019
Myanmar	Heat wave	RCRC	IFRC	Myanmar Red Cross Society; Finnish Red Cross; German Red Cross; American Red Cross	2022
	Riverine flood	RCRC	IFRC	Myanmar Red Cross Society; Finnish Red Cross; German Red Cross; American Red Cross	2022
Namibia	Drought	RCRC	IFRC	Namibia Red Cross; German Red Cross; British Red Cross	2019
Nepal	Riverine flood	RCRC	IFRC	Nepal Red Cross Society; Danish Red Cross	2018
	Cold wave	NGO	Start Network	CARE International	2022

Country	Hazard	Organizational type	Coordinating organization(s) / funding organization	Implementing organization(s) and partners*	Starting year	ear (FY)
Nicaragua	Drought	UN	WFP	WFP	2022	2
	Drought	UN	FAO	FAO	2022	2
	Tropical storm	RCRC	IFRC	Nicaraguan Red Cross; German Red Cross	2022	2
	Drought	RCRC	IFRC	Nicaraguan Red Cross; German Red Cross	2022	2
Niger	Flood	UN	OCHA	n/a	2022	2
Pakistan	Flood	RCRC	IFRC	Pakistan Red Crescent; German Red Cross	2022	2
	Flood	UN	FAO	FAO	2022	2
Palestine	Cold wave	RCRC	IFRC	The Palestine Red Cresecent Society; Danish Red Cross	2019	9
Philippines	Drought	RCRC	IFRC	Philippine Red Cross; German Red Cross; Finnish Red Cross	2022	2
Somalia	Drought	RCRC	IFRC	Somali Red Crescent Society; German Red Cross	2022	2
South Sudan	Flood	UN	FAO	FAO	2022	2
Sudan	Riverine flood	RCRC	IFRC	The Sudanese Red Crescent; Danish Red Cross; German Red Cross	2021	1
	Riverine flood	UN	WFP	WFP	2021	1
Tajikistan	Cold wave	RCRC	IFRC	Red Crescent Society of Tajikistan; German Red Cross	n/a	l
	Mudflow	RCRC	IFRC	Red Crescent Society of Tajikistan; German Red Cross	2022	2
Tanzania, United Republic of	Flood	RCRC	IFRC	Tanzania Red Cross National Society; German Red Cross	2022	2
Uganda	Drought	UN	WFP	WFP	2020	0
	Flood	UN	WFP	WFP	2020	0
	Drought	RCRC	IFRC	The Uganda Red Cross Society; The Netherlands Red Cross	2021	1
Uzbekistan	Mudflow	RCRC	IFRC	Red Crescent Society of Uzbekistan; German Red Cross	2022	2
Viet Nam	Cyclone/Typhoon/Hurricane	RCRC	IFRC	Viet Nam Red Cross Society; German Red Cross	2021	1
	Cyclone/Typhoon/Hurricane	UN	FAO	FAO	2021	1
Yemen	TBD	RCRC	IFRC	Yemen Red Crescent Society; IFRC; British Red Cross	2021	1
	Drought	UN	FAO	FAO	2022	2
	Flood	UN	ОСНА	n/a	2022	2
Zambia	Drought	RCRC	IFRC	Zambia Red Cross Society; The Netherlands Red Cross	2022	2
				Total nu	mber of frameworks under development 97	,
				Framework	cs under development since January 2022 51	i

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Photos

Cover photo: The Kenya Red Cross Society, as part of its EAP for Drought, distributes seeds in Kwale. © Denis Onyodi / Kenya Red Cross Society Inside cover (page 4): FAO Bangladesh simulates the dissemination of early warning messages in a flood-prone village of Kishoregonj district in August 2022. © FAO

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