

2017

ANNUAL REPORT

adpc



Asian Disaster
Preparedness
Center



**Asian Disaster
Preparedness Center**

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ADPC Board

ADPC is governed by the Board that is responsible for policy-setting and oversight of the organization's operations according to its objectives and under its charter and bylaws. Under the Chairship of Prof. Dr. Krasae Chanawongse, the Board guides ADPC to respond to the needs of countries in Asia and the Pacific to building safer communities and supporting resilient development.



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Foreword

Dear readers,

It is my great pleasure to present to you the ADPC's Annual Report 2017. The Annual Report 2017 provides a summary of our contributions to making Asia and the Pacific safer. It has been one year since Mr. Hans Guttman joined ADPC as its Executive Director, and I am glad to note that the organization has taken a strategic shift towards a more inclusive and holistic approach to Disaster Risk Reduction (DRR) and Climate Resilience (CR) under Mr. Guttman's leadership.

As ADPC comes closer to becoming an Intergovernmental Organization, we see how far we have come growing from a training center providing capacity building programs to a resilience building partner in the region with over 100 staff (60 percent of them women) coming from 19 countries, and eight project offices located across Asia.

In 2017, we were able to contribute to DRR and CR through a variety of initiatives: making NASA's publically available data understandable for the lower Mekong region with help from USAID; preparing communities and humanitarian organizations for better response in several countries with support from Bill & Melinda Gates Foundation; building the capacity of health professionals in South Asia; making climate information available to decision makers in Bangladesh, Nepal and Myanmar; and strengthening risk governance in Asia and the Pacific.

ADPC has played its modest role in facilitating the advancement of DRR and CR in the region; we will continue to support the implementation of national and regional priorities for action outlined in the Sendai framework for Disaster Risk Reduction (SFDRR) in 2018 and beyond.



"On behalf of the Board of ADPC, I would like to express my sincere gratitude to all our partners for extending their continued support to ADPC and enabling us to undertake the planned activities in 2017."

Sincerely,

A handwritten signature in blue ink that reads 'K. Chanawongse'.

Prof. Dr. Krasae Chanawongse
Chairman
Asian Disaster Preparedness Center

Dear readers,

The year 2017 was marked by a strategic shift for ADPC through the implementation of the revised ADPC Strategy 2020 aimed at guiding the organization's work towards achieving globally-agreed goals for DRR and CR. ADPC continued to enhance its experiences in rights-based approaches alongside gender equality and diversity.

The year also witnessed the establishment of ADPC's thematic departments in line with the revised Strategy 2020. The new structure consists of six departments—Risk Governance, Climate Resilience, Preparedness for Response & Recovery, Health Risk Management, Urban Resilience, Geospatial Information and ADPC Academy—and three cross-cutting Committees on Gender and Diversity, Poverty and Livelihoods, and Regional and Transboundary Cooperation.

Through this new set up, we are supporting countries in Asia and the Pacific to augment regional cooperation for the implementation of the global frameworks for disaster risk reduction and climate resilience. In 2017, we brought together public and private sectors for knowledge exchange; facilitated dialogue between science communities and policymakers; established multi-stakeholder networks at the regional and national level; and organized conferences between NASA and government agencies on utilizing publicly available data for drought and flood mitigation.

Through the SERVIR-Mekong project—a partnership between USAID and NASA—we saw significant progress on governmental capacity to incorporate user-tailored geospatial decision-support tools on climate-sensitive sectors such as agriculture, water management, ecosystem protection, and land use. One of the examples is bringing together officials from the Mekong River Commission and the Viet Nam Academy for Water Resources in co-developing the SERVIR-Mekong Drought and Crop Yield Monitoring system to improve drought early warning and food security in the region.

Integrating the concerns of vulnerable groups in our DRR programs remained on top of our strategic agenda. We recently launched an initiative on building resilience through inclusive and climate-adaptive disaster risk reduction in Asia-Pacific, supported by the Swedish International Development Cooperation Agency (Sida). This five-year program aims to protect developmental gains while enhancing regional cooperation for gender-responsive risk reduction measures.



"On behalf of ADPC, I would like to thank national governments and development partners for supporting our efforts and making it a productive year regarding strengthening DRR and CR in the region."

Sincerely,

A handwritten signature in blue ink, appearing to read "Hans Guttman". The signature is fluid and cursive, written on a white background.

Hans Guttman
Executive Director
Asian Disaster Preparedness Center

Introduction & Background

Our combined efforts can reduce global disaster mortality and the number of affected people globally by 2030. Even small initiatives at any level to protect people and the planet from the impact of climate change and disasters contribute to accomplish the Agenda 2030 and priorities of the Sendai Framework for Disaster Risk Reduction (SFDRR).

Home to 60 percent of the world's population, Asia and the Pacific continued to bear the brunt of disaster damages and losses in 2017—43 percent of disasters reported globally occurred in this region. Of the top ten disaster-affected countries in the world, six are located in this region, which include India, China, Sri Lanka, Bangladesh, Viet Nam, and Thailand. Moreover, India and China, alone, were categorized as the most disaster-affected countries in terms of the number of deaths and people affected. Disasters killed 2,300 people and affected 22.5 million in India. China suffered 25 events of disasters affecting 140 million people.

In 2017, ADPC continued to work with governments, development partners and communities in Asia and the Pacific in line with global frameworks for disaster risk reduction and climate resilience. Our Annual Report of 2017 provides a summary of our contributions to achieving the targets of the SFDRR under different priority areas and targets at regional, national and subnational levels.

The report is divided into five brief sections described below:

Tackling Underlying Disaster Risk Drivers

This section demonstrates our contributions to SFDRR's targets of making data, satellite imagery and other climate and disaster related information available to decision-makers.

Improving Preparedness for Disaster Response

This section demonstrates our contributions to the SFDRR's priorities and targets to improve national coordination and prepare all stakeholders for disaster response at all levels.

Developing Resilience to Reduce Disaster Damage

This section demonstrates ADPC's contributions to reducing disaster damage to critical infrastructure and disruption of basic services.

Mainstreaming Disaster Risk Reduction into Strategies

This section demonstrates our contributions to SFDRR's target of increasing the number of countries with national and local DRR strategies by 2020.

Enhancing Regional Cooperation to Implement SFDRR

This section demonstrates our contributions to the SFDRR's target of enhancing regional cooperation and complementing national actions of countries in Asia and the Pacific for the implementation of SFDRR's priorities.

ADPC at its Core

ADPC is an Intergovernmental Organization that works to build the resilience of people and institutions to disasters and climate change impacts in Asia and the Pacific. Established in 1986, as a technical capacity building center, ADPC has grown and diversified its expertise across social and physical sciences to support sustainable solutions for risk reduction and risk management across a broad range of specialist areas.

ADPC develops and implements cross-sectoral programs and projects on the strategic themes of risk governance, urban resilience, climate resilience, health risk management, preparedness for response and resilient recovery. Our strategic themes are complemented and underpinned by the cross cutting themes of gender and diversity, regional and transboundary cooperation as well as poverty and livelihoods.

The ADPC Academy designs and delivers specialized capacity-building and training courses on various topics related to DRR and CR. It also helps governments in building capabilities of national training centers on disaster-related topics.

The headquarters in Bangkok, country offices in Myanmar, Bangladesh, and Sri Lanka; and country representation in Cambodia, Indonesia, India, Nepal, Pakistan, and the Philippines host experts who work towards inclusive development goals across our strategic areas as well as cross-cutting themes.

Our Vision

Safer communities and **sustainable development** through **disaster risk reduction**.

Core Principles

ADPC's efforts to strengthen disaster and climate risk management systems in Asia and the Pacific are anchored in three principles:

Science. Systems. Applications.

These principles encompass the **utilization of scientific knowledge** and technology **to better understand risk**, the institutionalization of systems **to build resilience**, as well as the application of risk-reduction measures across a range of development sectors and different national contexts within Asia and the Pacific.

Regional Consultative Committee on Disaster Management (RCC)

ADPC has been supporting the RCC since 2000 as its secretariat. Comprised of 26 countries in Asia and the Pacific, the RCC is a unique forum that brings together National Disaster Management Organizations (NDMOs) of member countries regularly. The RCC meetings serve as a platform for member countries to share good practices, to learn from each other's experiences, and to jointly explore how to transform the global frameworks into national policy and practice for equitable and resilient development outcomes. One of the key objectives of the RCC is to promote regional cooperation in disaster and climate risk management and to enhance the resilience of those most at risk.



RCC Members 26 Countries



2017 at a Glance

ADPC contributed to DRR and CR through programs and activities carried out by its seven departments—Risk Governance, Urban Resilience, Climate Resilience, Health Risk Management, Preparedness for Response and Recovery, Geospatial Information and ADPC Academy. Three committees on cross-cutting themes—gender and diversity, poverty and livelihoods, and regional and transboundary cooperation—supported our departments to ensure all initiatives are inclusive.



5,000

People trained across several areas of engagement



16

Countries reached

2,000



3,000



1,500

Events organized across Asia and the Pacific



55

Projects implemented



\$ 9.4 million
Total cost of projects implemented

ADPC reviewed and revised its Strategy 2020. Originally launched in 2011 at the 25th anniversary of ADPC, the strategy guided the organization to provide comprehensive disaster risk reduction support to countries and communities in Asia and the Pacific. The revised strategy aims to align ADPC's work with the new priorities and areas of focus in line with the global frameworks for DRR and CR. It consists of six distinct strategic themes and three cross-cutting themes, which aim to ensure continuing support to both countries as well as development partners, and to address multiple and complex challenges related to disaster and climate risk.

ADPC's strategic focus & cross-cutting themes



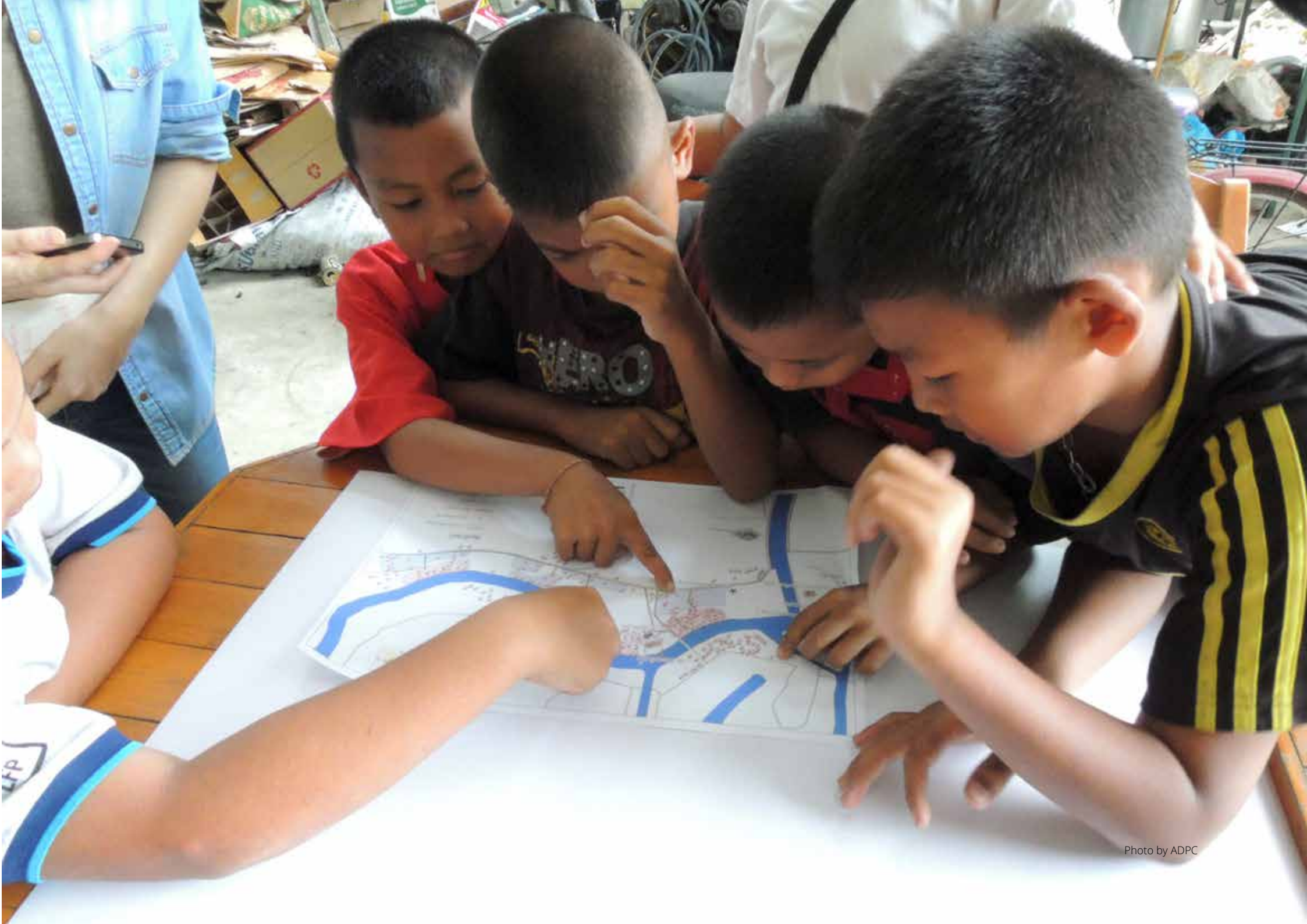


Photo by ADPC

Tackling Underlying Disaster Risk Drivers

Availability of information combined with the capacity to use it is essential to tackle underlying disaster risk drivers. ADPC provides governments and other stakeholders with critical information and useful tools for data-driven decision making in different areas of DRR and CR.

Integrating Earth Observations and Geospatial Technology into Decision-making Tools

Through a unique partnership between the U.S. Agency for International Development (USAID) and the U.S. National Aeronautics and Space Agency (NASA), SERVIR-Mekong is harnessing space technology and open data to help address developmental and environmental challenges in the Lower Mekong region.

SERVIR-Mekong's third year of implementation was centered on building capacity of governments, researchers and youth to use Earth Observations and geospatial technology as decision support tools for climate resilience and disaster risk reduction. SFDRR encourages the sharing and use of publicly available data, geospatial and space-based technologies and related services to provide necessary information to decision-makers. Hosted by ADPC, SERVIR-Mekong is one of four SERVIR hubs that streamlines access to data and imagery from satellites. Analysts integrate this information into tools and services accessible to decision-makers to act on climate-sensitive issues such as disasters, agriculture, water, ecosystems and land use.

Drought and Crop Yield Monitoring system

Through capacity building training, we saw significant progress on governmental understanding and uptake of user-tailored geospatial decision support tools. These were co-developed with various stakeholders including local technical partners to empower decision-makers to act on climate-sensitive issues pertinent to countries in the Lower Mekong Region. One such example is the hands-on engagement of officials of the Mekong River Commission (MRC) as well as the Vietnam Academy for Water Resources in co-developing the SERVIR-Mekong Drought and Crop Yield Monitoring system. These efforts have led to significant services providing early warnings and forecasting drought events and enabling enhanced food security in the region.

Field in Focus

Mitigating forest degradation through Google Earth Engine in Viet Nam

Mr. Pham Ngoc Hai is a researcher at the Vietnam Remote Sensing and Information Technology Center (RITC), who became an expert on Google Earth Engine after engaging in training conducted by ADPC's SERVIR-Mekong program. He further applied his knowledge and skills to develop methods for identifying hot-spot areas of forest degradation. After serving as a trainer at the Vietnam Academy for Water Resources workshop, he started an informal network of Google Earth Engine users across technical agencies to share advice on capturing field measurements from 200 forest ranges on tree types and changes within forests. They now have better capability to track forest change in Viet Nam.

Tracking the impact of flooding on school drop out rates in Cambodia

As part of the SERVIR-Mekong's grants program through the USAID, seven non-governmental organizations, universities and scientific institutes in Cambodia, Thailand, and Viet Nam received training to enhance their research skills and capacity to manage grants adequately. The training topics included stakeholders' engagements, mainstreaming gender into research, capacity building, monitoring and evaluation alongside communication.

Through the grant on "Use of Google Earth Engine to Play a Role in Gender Equality and Education in Flood-Prone Areas", Open Development Cambodia (ODC) has achieved significant progress in tracking the impact of flooding on school drop out rates along the Tonle Sap Lake. ODC used web-based technology—Google Earth Engine—to evaluate the consequences of a flood on school drop out rates in the selected area. The research findings, supported by visual maps and data, will help in raising awareness of the impact of floods on children's education which can result in a more significant change—mainstreaming DRR and CR into the education sector at all levels.





Photo by ADPC

Connecting youth to science for resilience in Mekong region

Children and youth are agents of change; without their active participation in DRR initiatives, the Agenda 2030 and SFDRR's targets cannot be achieved. Raising awareness of disaster preparedness has proved an effective way to ignite interest among the younger generations. Throughout the year, we engaged with youths through activities to familiarize them with geospatial technology and the role of space data in preparedness for response to DRR, by holding an essay competition in a number of Myanmar's universities.

Students learned the basics of geographic information system (GIS) by putting together puzzle pieces at ADPC's booth during the Science & Engineering Festival Exposition and Workshop (CSEF) in Cambodia. With 250,000 attendees, the festival provided an ideal atmosphere for raising awareness. Students played the role of a satellite by putting together a puzzle of Phnom Penh National Stadium, the festival venue. They could see and point out landmarks and different landscapes which helped them understand the immense potential of satellite data for development.

In another event, we showcased SERVIR-Mekong's work at Thailand's National Science and Technology Fair. Interactive activities attracted a large number of students to our booth. The students learned how to use geospatial technologies to identify different geographic features such as rivers, forests and urban regions. The booth also featured a demonstration of Google Earth where students could locate their towns, schools and homes to learn about mapping technologies.

Using GIS for evidence-based decision making

The Department of Disaster Management of Myanmar conducted field-level, household data collection in Taung U village, in Northwestern Myanmar, after attending a series of training workshops on Geographic information technology (GIT) for disaster management. The field data was later converted to a GIS to carry out flood risk assessment of the village. Communities and local authorities now have scientific information and know-how to draw flood mitigation and preparedness plans. The training was supervised by an expert from the Yangon Technological University and supported by the Royal Norwegian government and its technical partner, UNOSAT.

Improving climate services in Bangladesh and Myanmar

ADPC continued taking and supporting different initiatives aimed at enhancing the quality of climate services and information in Asia and the Pacific. In Bangladesh, climate predictions of up to the year 2100, as well as historical meteorological observed data are now available through the Bangladesh Climate Data Portal. Thanks to relevant analytical tools accompanied by the portal, climate services provided by the Bangladesh Meteorological Department (BMD) have been significantly improved. All sector-based agencies, development projects and other users in Bangladesh now have easy access to historically observed meteorological data and future climate change scenarios.

Building on our previous work, we continued to engage with the Department of Meteorology and Hydrology, Myanmar, to strengthen flood Early Warning Systems. Various flood forecasting capacity tools were introduced to 578 meteorologists, climatologists, hydrologists, agriculturists, researchers, and scientists in Myanmar, Bangladesh and Nepal.

In Nepal, we built the capacity of climate information providers. As a result, they can now produce more localized, timely and accurate information on climate variabilities. Generating climate information is more effective when it reaches out to those who need it the most. Throughout 2017, we worked to institutionalize two-way communication between producers and end-users of the information to build the resilience of communities to hydro-meteorological disasters.

Building capacity on agro-ecosystem resilience in Sri Lanka and Viet Nam

Since agricultural systems are mostly rural, they are vulnerable to pest-attack, diseases, and increased climate variability. Special protective measures are further required to improve coping abilities and resilience of agricultural systems, farmlands, livestock, and aquaculture in case of disasters or other shocks.

Government officials and organizations learned skills to build agro-ecosystem resilience in their respective areas in Sri Lanka and Viet Nam through “Agro-ecosystem Resilience in a Changing Climate” training workshops. The training introduced government officials to the links between climate change, risk management, and project design to formulate agro-ecosystem resilience projects at national and local levels.

The capacity building courses are a part of the project “Mainstreaming Weather and Climate Information Application for Agro-ecosystem Resilience in a Changing Climate”, funded by Asia Pacific Network (APN).

Helping farmers by Telemetric Weather Stations for agricultural early warning in India

ADPC assisted the Department of Agriculture, Bihar State, India, in conceptualizing the ‘Meghdoot’, a new initiative that aims to provide early warnings to help farmers better manage farming activities. We carried out a detailed scoping study to understand the needs of the farmers and identify gaps in the current setup. Through this tool, a vast network of Telemetric Weather Stations and Telemetric Rain Gauges at block (250 sq. km. coverage) and *gram panchayat* level (25 sq. km. coverage) have been established for collecting high resolution weather parameters that provide early warning and advisory services on agricultural activities. Following training, local functionaries are now capable of installing early warning equipment in three pilot districts of the state.

The equipment helps in collecting weather parameters, particularly, rainfall, wind speed, and temperature. Based on the reliable and timely information, farmers can adjust their crop calendars—planning, sowing, harvesting—according to the weather forecast which is a significant factor in getting a good crop and better yield.

Improving Preparedness for Response

Increasing unpredictability of disasters, often exacerbated by climate change, necessitates more and resilient investment into preparedness. Adding new features to traditional disaster preparedness methods is critical to make it more gender inclusive in anticipation of ever changing nature of hazards, frequency of disasters, and impact on vulnerable groups including women, children and the elderly.

Establishing inter-agency networks for Preparedness for Response

The Regional Consultative Committee on Disaster Management (RCC), established by ADPC in 2000, has created an enabling environment at national levels to involve multi-stakeholders in preparedness for response. Moving forward, we are reaching out to networks of local humanitarian organizations, governments, media and the private sector under the 'Strengthening Emergency Response Capacity of Local Humanitarian Actors in Asia' program, supported by Bill & Melinda Gates Foundation.

In 2017, ADPC carried out a baseline assessment of the humanitarian ecosystem in five Asian countries, followed by the establishment of Asian Preparedness Partnership (APP)—an inter-agency platform of NDMOs, civil society organization networks, and the private sector from Cambodia, Myanmar, Nepal, Philippines, Pakistan and Sri Lanka. APP also promotes partnerships and regional cooperation to strengthen preparedness for response & recovery at the regional level by creating a bridge between participating countries to exchange knowledge, good practices, and lessons. An online 'One Stop Knowledge Hub' is being administered by APP as a knowledge sharing platform for APP member countries.

Strengthening the functionality of Emergency Operation Centers of Bihar, India

In collaboration with the Bill & Melinda Gates Foundation, ADPC continued to support the Bihar Roadmap for Disaster Risk Reduction 2015–2030, the agenda from the Government of Bihar, India to reduce disaster-related deaths by 75 percent within 2030. ADPC has strengthened the functionality of Emergency Operation Centers (EOC) of Bihar, including the State Emergency Operations Center and 38 District EOCs by building institutional capacity for emergency response.

Similarly, with ADPC's technical support, the Department of Health, Bihar, developed a "Hospital Emergency Response Plan" for three government hospitals through stakeholder consultations. The Emergency Response Plans were tested for effectiveness through mock drills with local stakeholders engaged in managing mass casualty events; 480 hospital team members, benefitting 256,000 persons across three districts, were given orientation for hospital emergency preparedness. Thirty-eight districts of the state are now following Standard Operating Procedure (SOP) for Mass Casualty Management developed by Health Department officials and active participation of the local, national and international experts.

Field in Focus

Integrated Preparedness for response in Ayutthaya, Thailand

Ban Mai Patthana, a small village of 650 people in Tha Rua District of Ayutthaya, Thailand won the “Baan Suay Muang Suk Project” awarded by the Ministry of Interior. The reward celebrates the village’s demonstration of comprehensive community preparation and self-sufficiency in submitting their CBDRM activity plan to the program committee.

It is the result of the “Program for Reduction of Vulnerability to Floods” which mobilized villagers, the private sector, and government agencies to promote long-term flood mitigation and preparedness measures across three provinces in Thailand. With a focus on strengthening Community-Based Disaster Management (CBDRM), the programme ran for five years between 2012 and 2017. The programme was supported by USAID’s office of Foreign Disaster Assistance.

It was observed that communities continued CBDRM activities started by ADPC in the earlier phase of the programme. Communities were also less affected by localized hazards where CBDRM committees were established, hazard maps were drawn, flood risk reduction plans were developed, and community early warning systems were put in place.

The sustainability of industrial areas and livelihood of the Bangpain community is strongly interdependent on Hi-Tech Industrial Estate (Ayutthaya) due to a large number of community members being employed by enterprises based at the site. The formation of a public-private committee in the area boosted cooperation among the community, local governmental administration, private sector enterprises, and government departments for improved disaster risk reduction. As a result of this partnership, Hi-Tech Industrial Estate integrated the safe site selection and shelter management into Industrial Estate Flood Response Plan. They also provided fire extinguishers and life jackets to the pilot community as part of their corporate social responsibility.

Over 244 children at Wat Thanon School, Ang Thong province, learnt how to be prepared and remain safe during disaster. Save the Children Thailand acknowledged Wat Thanon School as a model school and one of the best practices in the country.

Community firefighters saved lives and properties

The Ban Koh Pra is an island village in Ayutthaya, Thailand, with houses built from wood. Despite the imminent fire hazard, inhabitants previously relied solely on traditional methods of controlling a fire breakout. This is no longer the case. ADPC, together with private sector partners in the area provided the local community with fire extinguishers and trained them to use the equipment. In October 2017, a fire erupted putting the skills of Community Action for Disaster Response (CADRE) volunteers to the test; they skillfully controlled it with the help of extinguishers before it could reach nearby wooden houses and cause damage. The community’s level of confidence in firefighting has enhanced after 12 volunteers received hands-on training in disaster response.



Developing Resilience to Reduce Disaster Damage

The cost of disaster response and time for recovery can be significantly reduced through development of community resilience. Through different activities, ADPC assists governments in building resilience of public and private sector to disasters and climate change. We also carry out multi-hazard risk assessments and make essential information understandable for decision-makers to develop resilient infrastructure.

Creating an enabling environment for business resilience

The iPrepare business facility of ADPC has been working to engage the private sector as a key stakeholder in DRR as set out in the SFDRR. In 2017, we continued to strengthen the resilience of Small and Medium Enterprises (SMEs) through partnerships and technical assistance. We also supported governments in improving the environment by promoting risk sensitive and informed investments by the private sector.

A regional two-day Asia Leadership Forum for Business Resilience brought together 70 participants from the private sector, alongside governments and development partners from ASEAN, South Asia and beyond. The leadership forum increased understanding and interest in implementing business resilient activities, through potential partnerships, among the executive leadership from both public and private sectors, particularly NDMOs and chambers of commerce in respective countries. The forum was supported by the Royal Norwegian Ministry of Foreign Affairs, Bill & Melinda Gates Foundation, and the Global Initiative on Disaster Risk Management managed by Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ).

The year 2017 saw a large private automotive company invest in strengthening its supply chain resilience and that of its suppliers due to the enabling environment created in the past. Through capacity building and awareness, 172 representatives (98 men and 74 women) of Isuzu Motors Co., Thailand, Tier-1 suppliers enhanced their skills in business continuity and resilience. The suppliers were guided through a series of workshops to develop practical and standardized Business Continuity Plans (BCPs). Notably, a number of suppliers engaged in the program have taken structural and non-structural mitigation measures to prepare for both man-made and natural hazards. The project is delivered in partnership with GIZ within the framework of the Global Initiative on Disaster Risk Management.

Strengthening Earthquake Resilience in Bangladesh

Under the USAID's "Strengthening Earthquake Resilience in Bangladesh" (SERB) initiative, we continued to strengthen the capacity of health professionals and urban community volunteers to respond effectively and efficiently during any catastrophic event. Through a series of training programs, 200 urban community volunteers of the Bangladesh Fire Service and Civil Defense received extensive training on collapsed structure search and rescue, fire fighting and first aid techniques along with simulations, bringing the total number of volunteers trained under the program to 1350.

Child-Centered Recovery and Resilience

ADPC led an evidence-based research and provided impact evaluation of a three-year safe school program for Plan International, implemented in disaster-prone areas of Bangladesh and the Philippines. It contributed to addressing gaps in programing and improving knowledge-based, child-centered and community-led disaster risk management.



Mainstreaming Disaster Risk Reduction into Strategies

ADPC supports countries to mainstream DRR, gender and CR into development planning. It also engages with NDMOs to integrate the SFDRR's priorities and targets into their national development and preparedness plans at national and sub-national levels. Keeping in view the local context, we develop guidelines and frameworks for governments in Asia and the Pacific to update or develop national and sectoral strategies in line with the global frameworks.



Building climate resilience in Papua New Guinea (PNG)

Together with the United Nations Development Program (UNDP), we worked with PNG's Climate Change and Development Authority (CCDA) to strengthen the institutional capacities of five provinces in climate change adaptation (CCA).

Through a series of consultations with provincial authorities and other partners, ADPC developed CCA plans for key priority sectors—Agriculture and Livestock, Fisheries, Health, Education, Division of Planning, Forestry and Conservation, and the Provincial Disaster Management Centers. With sectoral CCA plans in place, PNG is now on the road to take key actions outlined in the SFDRR and the Paris Agreement to build community resilience and protect livelihoods.

Developing country-level status reports for implementing SFDRR

We led the process of producing country-level status reports for implementing SFDRR in Viet Nam, Thailand and Bangladesh. The reports spell out the current status of DRR and the future priorities for these countries. Details are used by national governments and development partners in identifying DRR priorities and monitoring the progress against the SFDRR. At the same time, the process of developing the DRR status reports helped a range of stakeholders come together, discuss, and understand the current state, existing gaps and the future needs of DRR. In 2016, Bhutan's status report was developed to assess the country's efforts to implement the SFDRR.



Supporting Sri Lanka to develop a national landslide disaster risk management plan

We assisted Sri Lanka in developing a comprehensive framework and a long-term action plan for national landslide disaster risk management through capacity building of government officials. In a training course, conducted earlier this year, 20 members from the National Building Research Organization (NBRO) – a mandated agency for landslide risk management in Sri Lanka – built their skills in risk mapping and run-out area assessment. The program is focused on establishing a comprehensive framework and developing a long-term action plan for national landslide disaster risk management.

Technical assistance was provided in partnership with the Norwegian Geotechnical Institute (NGI) under the Community Landslide Risk Mitigation Project, funded by the World Bank.

The course participants extended their knowledge of run-out area assessment, risk mapping, selection of mitigation options, and cost-benefit analysis. Based on a theoretical description of mass movement, landslide run-out models were used to understand the behavior of the actual flow phenomenon to help map out landslide paths.

Enhancing Regional Cooperation to Implement SFDRR

ADPC promotes regional cooperation on DRR and CR to facilitate coherence of national actions with global frameworks. Through Regional RCC and other forums, we bring public and private sectors, science community, and policymakers and NDMOs together to share good practices.



Enhancing cross-departmental coordination on DRR and CR in Pakistan

As a result of a World Bank-funded project, cross-departmental coordination, cooperation and technical knowledge sharing is strengthened among different departments responsible for DRR and CR in Pakistan. Through national and international high-level training and dialogues and knowledge exchange with other countries in the region, Pakistani senior government officials from the National Disaster Management Authority, Provincial Disaster Management Authorities, Climate Change Ministry, Planning Commission, Finance Ministry, and the Provincial Planning and Development Departments are able to integrate risk information into development plans of their respective institutions. High-level exposure visits helped them learn from their peers and consider budgetary requirements for risk-sensitive development and long-term preparedness plans. The government officials are now better equipped with skills and knowledge to incorporate resilience considerations into wider investment frameworks and preparedness measures.

Strengthening Partnerships

ADPC formed and strengthened various partnerships in 2017 covering preparedness for response, climate resilience and transboundary and regional cooperation. We participated in the 2nd Experts Group Meeting of the Economic Cooperation Organization (ECO), held in Ankara, Turkey and contributed in finalizing the Regional Framework for Disaster Risk Reduction for member countries - Afghanistan, Azerbaijan, Iran, Kazakhstan, Kyrgyz Republic, Pakistan, Tajikistan, Turkmenistan, Turkey, and Uzbekistan. We also harnessed our connection with the Turkish Disaster and Emergency Management Authority (AFAD) and discussed the opportunities to bring Turkey's technical expertise, especially in the area of earthquake risk mitigation, to other countries in Asia.



Development **Partners** in 2017

ASEAN Secretariat
Asian Development Bank (ADB)
Asia-Pacific Network for Global Change Research (APN)
Bill & Melinda Gates Foundation
Deltares Netherlands
Department of Foreign Affairs and Trade (DFAT)
Department of International Development, United Kingdom (DFID)
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
Government of China
Isuzu
Japan International Cooperation Agency (JICA)
Margaret A. Cargill Foundation
Ministry of Civil Affairs, People's Republic of China
Plan International
Rockefeller Foundation
Royal Norwegian Ministry of Foreign Affairs

Save the Children
Stockholm Environment Institute (SEI)
Swedish International Development Cooperation Agency (Sida)
The Asia Foundation
The China Association for Science and Technology
The JTI Foundation
United Nations Development Program (UNDP)
United Nations Human Settlements Programme (UN-HABITAT)
United Nations International Children's Emergency Fund (UNICEF)
United Nations Office for the Coordination of Humanitarian Affairs (OCHA)
United States Agency for International Development (USAID)
USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)
World Bank
World Vision, Thailand

Financial Summary 2017

ADPC carried out **55 projects** across Asia and the Pacific and contributed to making communities resilient to the effects of disasters and climate change in line with the SFDRR and the Agenda 2030.

Total USD 9.4 million



ADPC Projects in 2017

2017 China ASEAN Forum on Disaster Prevention and Mitigation & Sustainable Development in Nanning, P.R. China

2017

Development Partner: The China Association for Science and Technology

Country: China

A South- South Exchange Program in Disaster Risk Management (DRM) in Thailand and Lao PDR

2017

Development Partner: Government of China

Country: China

A training course on Child Centered Disaster Risk Management (CCDRM) exercise in Fuzhou, P.R. China

Development Partner: Save the Children, Fuzhou University, Sichuang Software Company of Fujian Province

2017

Country: China

A training course on Training of Trainers: Community-based Disaster Risk Management (TOT for CBDRM) in Beihai, Guangxi Zhuang Autonomous Region, P.R. China

2017

Development Partner: Government of China

Country: China

Applying Bihar Recommendations: Building Stage Level Emergency Response Capacity

2015-2018

Development Partner: Bill & Melinda Gates Foundation

Country: India

ASEAN Safe School Initiative Thailand Project with World Vision Foundation of Thailand

2016-2017

Development Partner: World Vision, Thailand

Country: Thailand

Building Capacity in Gender-Inclusive Disaster Risk Reduction Policies and Practice

2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs

Countries: Bangladesh, Myanmar

Building Climate Change Resilience in Asia's Critical Infrastructure

2017-2018

Development Partner: Asian Development Bank

Countries: Sri Lanka, Viet Nam, Indonesia

Building Resilience through inclusive and climate-adaptive Disaster Risk Reduction in Asia-Pacific (BRDR Program)

2017

Development Partner: Swedish International Development Cooperation Agency (Sida)

Countries: Papua New Guinea, Nepal, Philippines

Child-Centered Recovery and Resilience

2014-2017

Development Partner: Plan International, Margaret A. Cargill Foundation

Countries: Bangladesh, Philippines

Chinese Civil Society Organization (CSO) technical exchange at ADPC

2017

Development Partner: United Nations Office for the Coordination of Humanitarian Affairs, The Asia Foundation

Country: Thailand

Coastal Community Resilience and Risk-Sensitive Land Use Planning in Viet Nam

2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs

Country: Viet Nam

Community Based Disaster Risk Management

2016-2017

Development Partner: The JTI Foundation

Country: Thailand

Conducting of Business Continuity Awareness and Capacity Building Activities for Suppliers of Isuzu Motors Co. (Thailand) - Phase 1

2016-2018

Development Partner: Isuzu

Country: Thailand

Develop a portion of the course material of Post-Disaster Recovery and Reconstruction Course (PDRC)

2017

Development Partner: Government of China

Countries: Thailand, China

Developing a Climate-Inclusive Potential Loss and Damage Assessment Methodology for Flood Hazards

2014-2018

Development Partner: Asia-Pacific Network for Global Change Research (APN)

Countries: Nepal, Sri Lanka, Thailand

Enhancing Adaptive Capacity of Communities to Climate-Change Related Floods in the North Coast and Island Regions of Papua New Guinea - Phase 2

2017

Development Partners: United Nations Development Program (UNDP)

Country: Papua New Guinea

Exchange Program in Beijing and Shanghai, China, for an Ethiopian Government Delegation

2017

Development Partner: World Bank

Country: China

Expansion Module Training Course on China's National Disaster Management (CNDMC-week1)

2014-2018

Development Partner: Government of China

Country: China

Flood Risk Assessment for Colombo Metropolitan Region

2016-2017

Development Partners: Deltares Netherlands, Central Engineering Consultancy Bureau (CEBC), Sri Lanka

Country: Sri Lanka

Host Nation Support Guidelines - Pakistan Heart of Asia on Disaster Management Confidence Building Measures
2016-2017

Development Partner: Department of Foreign Affairs and Trade (DFAT)
Country: Pakistan

Improving Flood Forecasting Capacity of DMH to Strengthen Flood Early Warning System in Myanmar
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs
Countries: Myanmar, Bangladesh, Viet Nam

Improving Seismic Monitoring and Data Integration Capability
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs
Country: Myanmar

Increasing Technical Capacity of National and Local Governments in Utilizing Satellite Technology to Enhance Disaster Preparedness
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs
Countries: Myanmar, Viet Nam, Bangladesh

Knowledge Manager of Building Resilience and Adapting to Climate Extremes and Disasters Programme (BRACED)
2014-2018

Development Partner: Department of International Development, United Kingdom (DFID)
Countries: Nepal, Myanmar

Mainstreaming Weather and Climate Information Application for Agro-Ecosystem Resilience in a Changing Climate
2016-2018

Development Partner: Asia-Pacific Network for Global Change Research (APN)
Countries: Sri Lanka, Viet Nam, Nepal, Thailand

Mental Health and Psychosocial Support (MHPSS) in Emergencies
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs
Countries: Myanmar, Viet Nam

Module Training course on China's National Disaster Management (CNDMC-week 2)
2014-2018

Development Partner: Government of China
Country: China

Myanmar Consortium for Capacity Development on Disaster Management
2015-2017

Development Partner: United Nations Human Settlements Programme (UN-HABITAT)
Country: Myanmar

Organization of National Level Dialogue for Disaster Risk Management Country Status Report
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs
Countries: Bangladesh, Viet Nam

Power Vulnerability and Agency in Disaster Risk Reduction: A Knowledge Exchange for Sustainable Development in Asia
2016-2017

Development Partner: Stockholm Environment Institute (SEI)
Countries: Bangladesh, Cambodia, Lao PDR, Myanmar, Nepal, Philippines, Thailand, Viet Nam

Preparation of Strategy Document for 100 Resilient Cities "Bangkok Resilience Strategy"
2016-2017

Development Partner: Rockefeller Foundation
Country: Thailand

Program for Improved Disaster Management and Resilience against Natural Disasters in Rakhine State, Chin State and Kalay Township in Sagaing Region, Myanmar
2014-2018

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)
Country: Myanmar

Program for Reduction of Vulnerability to Floods in Thailand
2012-2017

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)
Country: Thailand

Public Health in Emergency Management in Asia and the Pacific (PHEMAP)
2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs (USAID/OFDA)
Countries: Myanmar, Viet Nam

Public Policy on Disaster Risk Financing and Insurance
2016-2017

Development Partner: ASEAN Secretariat (DFRI Programme)
Country: Thailand

SERVIR-Mekong

2014-2019
Development Partner: United States Agency for International Development (USAID)
Countries: Myanmar, Thailand, Lao PDR, Cambodia, Viet Nam

Strengthening ADPC's Communication Capacity and Media Engagement

2015-2017
Development Partner: Royal Norwegian Ministry of Foreign Affairs
Region: Asia and the Pacific

Strengthening Disaster Resilience of Small and Medium Enterprises (SME) in Asia
2014-2017

Development Partner: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
Countries: Thailand, Viet Nam, Philippines, Indonesia

Strengthening Disaster Risk Management and Urban Flood Resilience in Lao PDR
2017

Development Partner: World Bank
Country: Lao PDR

Strengthening Earthquake Resilience in Bangladesh (SERB1)
2013-2018

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)
Country: Bangladesh

Strengthening Emergency Response Capacity of Humanitarian NGOs in Cambodia
2012-2018

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)
Country: Cambodia

Strengthening Emergency Response Capacity of Local Humanitarian NGOs in Asia

2016-2019

Development Partner: Bill & Melinda Gates Foundation
Countries: Nepal, Pakistan, Sri Lanka, Myanmar, Philippines, Cambodia

Strengthening Hospital Preparedness for Emergencies in South Asian Countries (HOPE-SA)

2016-2018

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)

Countries: Afghanistan, Bangladesh, India, Nepal, Pakistan, Sri Lanka

Strengthening Institutional Capacity and Preparedness for Emergency Response in Ethiopia Program

2016-2019

Development Partner: Bill & Melinda Gates Foundation
Country: Ethiopia

Strengthening Institutions for Developing Resilience in Pakistan

2017-2018

Development Partner: World Bank
Country: Pakistan

Strengthening of Landslide Risk Management Practices

2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs

Countries: Myanmar, Bangladesh, Viet Nam, Nepal, Thailand

Strengthening School Disaster Preparedness (SLCDR)

2017-2018

Development Partner: United Nations Children's Emergency Fund (UNICEF)

Country: Sri Lanka

Strengthening the Disaster Resilience of Small and Medium Enterprises in Asia

2014-2017

Development Partners: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Asian Development Bank (ADB)

Countries: Indonesia, Philippines, Thailand, Viet Nam

Strengthening the Technical and Organizational Capacity of BNPB Training Center in Indonesia

2016-2017

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)

Country: Indonesia

Strengthening the Technical and Organizational Capacity of BNPB Training Center in Indonesia

2016-2017

Development Partner: USAID's Office of U.S. Foreign Disaster Assistance (USAID/OFDA)

Country: Indonesia

Strengthening Weather and Climate Services of Myanmar, Bangladesh and Viet Nam to deal with Hydro-Meteorological Hazards

2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs

Countries: Myanmar, Bangladesh, Viet Nam

Technical Assistance and Capacity Building for the Ministry of Civil Affairs of China, and Other National Agencies, Government Agencies at Provincial and Local Levels, Civil Society, and Community Members on Disaster Risk Management and Child-Centered Disaster Risk Management

2013-2017

Development Partner: Ministry of Civil Affairs, People's Republic of China

Country: China

Training Capacity Building Program in Myanmar

2015-2017

Development Partner: Royal Norwegian Ministry of Foreign Affairs

Country: Myanmar

Urban Building Safety - 02

2016-2017

Development Partner: Japan International Cooperation Agency (JICA)

Country: Bangladesh



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