





Project for Strengthening Institutional and Policy Framework on DRR and CCA Integration [CN20 Project]

Senior Official-Level Forum

16 November 2017, Jakarta, Indonesia

Expected Outputs of the CN20 Project

Expected output	Activity
1. Documentation of good practices in institutional strengthening and policy development on linking DRR and CCA in ASEAN Member States	 1.1. National workshop on good practices in integrated plan and policy development, funding mechanisms; and risk assessments for DRR and CCA in the Member States 1.2. Identification of common approaches to strengthen institutional and policy development for DRR and CCA 1.3. Synthesis, analysis and recommendations 1.4. Drafting and publication of One Against Disaster and Climate Risks
2. Assessment of the implementation of national action plans on DRR and CCA and the effectiveness of national platforms	 2.1. National workshop to review the progress of the implementation of the national action plan on DRR and CCA 2.2. Organisation and conduct of a regional forum on the progress and lessons learned by the Member States 2.3. Documentation of the outcomes of national workshops and the regional forum
3. Senior official-level roundtable discussions on policy and programme interventions to strengthen the connection and coherence of DRR and CCA efforts at all level	 3.1. Preparatory meetings for the senior official-level forum, including arrangement with media 3.2. Holding of the senior official-level forum with broadcast media coverage

Objectives of the CN20 Project

The aims of the project are:

- (i) Strengthen institutional and policy frameworks for DRR and CCA;
- (ii) Enhance the integrated planning for DRR through the implementation of national development plans and action plans that integrate DRR and CCA at all level; and
- (iii) Build partnership in linking DRR and CCA at all levels.

The specific objectives are:

- (a) Promote the development of umbrella laws and regulations that govern the integration and synchronisation of DDR and CCA in Member States;
- (b) Foster relationships between national ministries and agencies responsible for DRR and CCA;
- (c) Facilitate the establishment of a clear institutional and policy framework on DRR and CCA integration in Member States;
- (d) Strengthen participatory **risk assessment**, incorporating disaster and climate risks as a basis for decision-making;
- (e) Promote the development of joint funding mechanisms for both DRR and CCA at the national level; and
- (f) Support joint training, meetings, and other opportunities for increased interaction and cooperation.

Implementation Flow of the CN20 Project

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2 nd Project Steering Comm	iittee	July 27, 2016, Bangk	ok	[Inception F	Report]
1 st Field Study	Aug 1-	12, Thailand ; Aug 15-	26, I	Lao PDR	Baseline
2 nd Field Study	Sep 19	9-30, Myanmar ; Oct 3-	-14,	Cambodia	study
3 rd Field Study		1-25, Viet Nam ; Nov 2 9, Singapore ; Dec 12-			ı;
3 rd PSC Meeting	Dec 7,	Vientiane			
4 th Field Study	Jan 9-2	20, 2017, Indonesia ; Ja	an 2	3-Feb 3, the P	Philippines
4 th PSC Meeting	March	1, Bangkok	[1	Draft Progress	s Report]
30 th ACDM Meeting	April 4	, Vientiane	[1	Progress Repo	ort]
National Workshops	May 3	1, Myanmar; July 6,	Vie	t Nam; July 1	2, Philippines
5 th & 6 th PSC Meetings	July 6	& Sep 4, Bangkok			
Regional Forum	Sep 5-	-6, Bangkok	Dra	aft Work Plan	
31st ACDM Mtg, 5th AMM	1DM	Oct 17-19, Lao PDR	En	dorsement of	the Work Plan
7 th PSC Meeting		Nov 15, Jakarta		We are here!	
Senior Official-Level For	um	Nov 16, Jakarta	[Pı	ublication of G	Good Practices]
8 th PSC Meeting		Dec, Bangkok	[Di	raft Final Repo	ort]

Assessment Framework of DRR and CCA Integration

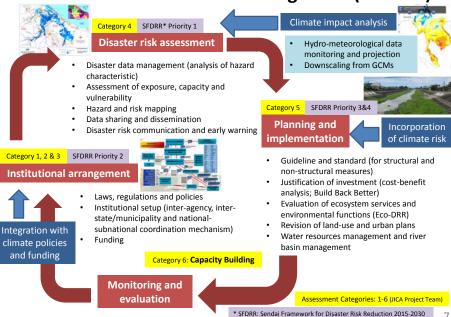
A33C33111	cht Hamework	of Ditti and CCA integration
Asse	ssment category	Evaluation criteria
1. Laws, regulations and policies	 National development plan DRR laws CCA laws Relevant sectoral laws 	 DRR and CCA concepts are incorporated DRR, CCA and relevant sectoral laws, regulations and policies are enforced DRR and CCA are mainstreamed in each ministry's policies
2. Institutional arrangement	 National DRM system National CCA system Transboundary DRM 	 National DRM and CCA committees have been set up for inter-ministerial coordination A multi-stakeholder transboundary DRM system has been set up
3. Financial arrangement	 Funding for DRR Funding for CCA Payment for ecosystem services (PES) 	 Funds are allocated for DRR and CCA activities with a monitoring and tracking system PES is implemented based on the economic evaluation
4. Risk assessment	 Disaster database Hydro-meteorological data management and climate risk analysis Hazard and risk mapping Data sharing and dissemination 	 Disaster database is recorded and used for science-based analysis Climate risk is analysed based on hydrometeorological data monitoring and downscaling from Global Climate Models Hazard and risk maps are prepared by assessing the damages of past disasters and the capacity and vulnerability of local authorities

Assessment Framework of DRR and CCA Integration

Assessment category		Evaluation criteria
5. Planning and implementation	 Guideline and standard Land-use and urban planning Disaster-resilient Investment Drought risk reduction 	 Guidelines and standards incorporating disaster and climate risk are developed and used Land-use and urban plans are prepared by incorporating disaster and climate risk and with evaluation of ecosystem services Public and private investments are channelled to strengthen resiliency of critical facilities, including schools, hospitals, evacuation facilities, roads and transport, river and coastal dykes, reservoirs and irrigation networks, forests and retardation areas, etc., and they are implemented in a stage-wise manner Drought risk reduction measures including water resources management and agricultural measures are implemented
6. Capacity building	 DRR and CCA training Sector-wise training 	 DRR and CCA trainings for national and local government officials and other stakeholders are provided Special training programmes are implemented for specific purposes such as a climate school for farmers

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Framework of DRR and CCA integration (for DRR)



Main Findings of the Field Study in ASEAN (1)

Category	Evaluation (and issues)
1. Laws, regulations and policies	 DRR and CCA concepts are incorporated individually in national development plans except in the Philippines and Lao PDR wherein both concepts are integrated Legal framework for DRR and CCA is composed of several legal documents but not integrated in all Member States.
2. Institutional arrangement	 Vertical and horizontal DRM systems and CCA systems and related legal frameworks have been developed in all Member States. However, integration of those systems and legal frameworks is lacking or insufficient. Indonesia and Malaysia have better conditions in these aspects.
3. Financial arrangement	 Funding for DRR and CCA activities is insufficient in general. Better countries are Indonesia and the Philippines for DRR and CCA and Viet Nam for forest management.
4. Risk assessment	 Some countries have developed <u>disaster database</u> including Cambodia, Indonesia, Malaysia, the Philippines, Thailand and Viet Nam. All Member States have hydro-meteorological data management system. However, some counties have a problem of insufficient coverage of the observation stations such as in upstream river basins and rural areas. Countries of better condition are Malaysia, Singapore, Thailand and Viet Nam. <u>Hydro-meteorological data sharing of international rivers is insufficient</u> (except in the Lower Mekong River).

Main Findings of the Field Study in ASEAN (2)

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Category	Evaluation (and issues)
4. Risk assessment (cont.)	 Some countries have downscaled from GCMs including Indonesia, Malaysia, the Philippines, Singapore and Viet Nam. There are no standard values of climate change impacts set in the Member States yet. Flood hazard maps or risk maps without incorporating climate risk are prepared in Brunei Darussalam, Malaysia, the Philippines, Thailand and Viet Nam, but their resolution is insufficient for DRR and preparedness planning in general. Malaysia and Viet Nam have prepared flood hazard maps with climate change impacts in some areas. Hazard maps or risk maps of landslide are generally insufficient (relatively better countries: Indonesia, the Philippines and Thailand). Storm surge and drought hazard maps or risk maps are generally insufficient.
5. Planning and implementation	• <u>DRR planning and implementation</u> without considering CC impacts are insufficient in general (better country: Malaysia). DRR planning and implementation with CCA is lacking or insufficient in general (countries with good practices or potential good ones: Brunei Darussalam, Indonesia, the Philippines, Singapore and Viet Nam). Guiding tools for planning and implementation including the related risk assessment etc. is lacking.
6. Capacity building	 Integrated DRR and CCA training is rarely conducted except in Indonesia. Community-based DRM are conducted in most Member States. Climate field schools which train farmers to use weather forecast for agriculture are successful in Indonesia, Myanmar and the Philippines.





Results of the National Workshops Myanmar – May 31 Viet Nam – July 6 Philippines – July 12 and the Regional Forum, 5-6 Sep 2017





Main outputs of the National WS in Myanmar (May 31, 2017)

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Key issues and necessary actions in Myanmar	Expectations to ASEAN			
 Laws/ Regulations/ Policies Integration of DRR and CCA policies and plans Development of relevant sectoral laws and regulations 	Clarification of the effect of DRR and CCA integration in other ASEAN countries			
 Institutional Arrangement National coordination mechanism (weak coordination and cooperation among implementing activities, 	Coordination mechanism for DRR and CCA integration			
particularly for river basin management from upstream to downstream to manage flood, drought and landslide risks and sedimentation) Mainstreaming DRR and CCA in each ministry (by	Knowledge sharing on good practices of policies, institutional arrangement and funding			
 appointing a focal unit in each department exchanging staff between the RRD and line ministries Strengthening the functions of committees at district and township levels to deal with DRR and CCA issues 				
Funding	September 1			
 Insufficient funds for DRR activities (the National Disaster Management Fund is mostly for response, recovery and reconstruction; not for prevention and mitigation) Lack of funds for CCA 	 Resource mobilisation methods in other ASEAN counties Fund raising by an ASEAN-wide approach 			
 Budget tagging of DRR and CCA expenditures No payment system for environmental conservation 	A CONTRACTOR OF THE CONTRACTOR			

Risk Assessment

- Integration of disaster database with all sectors
- Improved hydro-met monitoring system for flood and drought (incl. groundwater monitoring)
- Climate risk analysis capacity incl. downscaling from **GCMs**
- Monitoring system for landslide
- Insufficient hazard maps and risk maps
- Improved data accuracy and reliability
- Dam safety against floods; flood risk assessment for
- Improved early warning and communication systems at
- Require cost-benefit analysis of DRR and CCA expenditures to justify the investment

- Data sharing among ASEAN countries with a unified standard (by establishing a regional responsible body) Regional climate models for ASEAN
- Hazard mapping and risk assessment technology
- Flood risk assessment for dam safety
- Salinity intrusion monitoring and analysis
- Cost-benefit analysis of DRR and CCA **expenditures**

Justification of DRR and **CCA** investment

Planning and Implementation

- Sectoral planning capacity of each ministry
- Climate and disaster resilient design of infrastructures (for reducing the long-term maintenance cost)
- Urban and land-use plan with DRR and CCA
- Slope protection methodology
- Catchment (river basin) management against drought; water storage facilities
- Climate smart agriculture, crops diversification
- To develop guiding tools for integrating DRR and CCA (and build capacity by implementing a pilot project using it) Slope protection pilot projects

Training and capacity building Technical

Climate smart agriculture

Guiding tools for climate and disaster resilient design

Capacity Building

- Education of DRR and CCA: development of curriculums
- Public awareness with easy to understand materials
- Training of trainers and experts Usage of ICT equipment

Exchange program

assistance **Training opportunities;** education and public

awareness

risk

assessment

methods

and

technology

Main outputs of the National Workshops in Myanmar, Viet Nam and the Philippines

Category	Necessary national activities	Expected regional activities
Institutional de	evelopment	
Policies, laws and regulations	 Strict issuances of environment compliance certificate, building permits, no build zones and safe zones; Development of relevant sectoral laws and regulations; 	Share the effects of DRR and CCA integration
	Integration of DRR and CCA policies and plans	
Management system	 Strict implementation of integrated water resources management (IWRM) through coordination of relevant agencies; River basin management for drought, flood and landslide risk and sedimentation management; Coordination between DRR and CCA national committees and the focal points; Mainstreaming DRR and CCA in each ministry by appointing a focal unit; Strengthening the functions of subnational committees for DRR and CCA 	Share coordination mechanisms of DRR and CCA integration
Financial	Increase funds for DRR and CCA activities;	Share resource
arrangement	 Budget tagging of DRR and CCA expenditures; Develop a payment system for environmental conservation 	mobilisation methods; • Fund raising by an ASEAN-wide approach

Data management	Set up a central database and a data sharing system through coordination of relevant agencies; Upgrade and increase the coverage of hydrometeorological monitoring system (groundwater monitoring system too) and mobilise social capital and private funds for that	system; • Share experiences on
Climate risk analysis	Build capacity on sectoral climate impact modelling and socio-economic impact analysis; Improve climate risk analysis capacity including downscaling from global climate models	Share climate risk assessment and modelling methodologies Standardise the methodologies; Develop a regional climate model
Hazard and risk mapping	Integration of climate projections to geo-hazard maps; Provision of high resolution base maps covering the entire country; Provision of simplified guidelines and standards for hazard mapping and risk assessment; Capacitate subnational governments' access and usage of database and tools;	Share hazard mapping and risk assessment technologies; Share salinity intrusion monitoring and analysis system
	Monitoring system for landslide	

Planning and in	nplementation		
Guideline and standard	Update sectoral design, guideline and standard incorporating climate risk; Translate climate projection to flood return periods; Improve dam safety against floods; Train national and local government officials to capacitate designs of water-related structures; Updated training programmes for community-based DRM based on past experiences	•	Share guidelines, standards, planning methods and good practices and benchmark it; Share dam management protocols and flood risk assessment methods; Experts exchange programmes and cross-visits for learning and actual observation
Land-use and urban planning	Strengthen monitoring and evaluation of local development plans in accordance with the comprehensive land-use plan, zoning ordinance and national building code	•	Share monitoring and evaluation mechanism of land-use plan, zoning ordinance and building code
Disaster resilient investment	 Further promotion of forest protection and rehabilitation; Prioritisation of development projects based on risk levels; Cost-benefit analysis of DRR and CCA expenditures to justify the investment 	•	Training for geo-technical measures for flood- and landslide-prone areas; slope protection methods; Capacity building for coastal zone management; Share cost-benefit analysis of DRR and CCA measures 15

Main points discussed at the Regional Forum

Formulation of the Work Plan:

- Objectives
- Roles and responsibilities of:
 - ACDM Working Group on Prevention and Mitigation
 - Each ACDM focal point
- Items to be reported by the ACDM focal point annually
- Immediate collaborative activities
 - What/which good practices is useful for sharing? What do you want to learn from others?
 - What kind of facilitation mechanism do you want? Do you want to visit other Member States? Can you accept requests from others?
 - What kind of capacity building is the priority? What kind of technical assistance is needed?
 - What data sharing is beneficial?
 - What experiences/support/supply you can share?

Work Plan for Strengthening Institutional and Policy Framework on DRR and CCA Integration

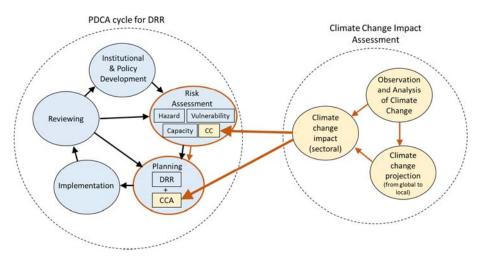
Endorsed by the 31st ACDM Meeting on 17 October 2017 in Luang Prabang, Lao PDR

CHAIRMAN'S STATEMENT OF THE SIXTH MEETING OF THE CONFERENCE OF THE PARTIES TO THE ASEAN AGREEMENT ON DISASTER MANAGEMENT AND EMERGENCY RESPONSE AND THE FIFTH ASEAN MINISTERIAL MEETING ON DISASTER MANAGEMENT

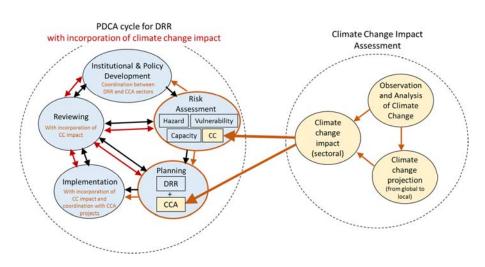
19 October 2017 Luang Prabang, Lao PDR

4. The Ministers noted with satisfaction the accomplishment across all the priority programmes of the AADMER 2016-2020 Work Programme that include the adoption of the Risk and Vulnerability Assessment Guidelines, the AADMER Monitoring and Evaluation Framework, the convening of the 1st ASEAN Recovery Forum, the Framework for ASEAN Standardisation and Certification for Expertise on Disaster Management (ASCEND), the completion of the Disaster Emergency Logistic System of ASEAN (DELSA) Phase I Project, completion of the ASEAN Disaster Risk Financing and Insurance (DRFI) Programme Phase 1, Development of the Guideline for Urban Resilience, the Work Plan for Strengthening Institutional and Policy Framework on Disaster Risk Reduction and Climate Change Adaptation, as well as the convening of the 2017 ASEAN Strategic Policy Dialogue on Disaster Management.

Schematic Image of DRR and CCA Integration

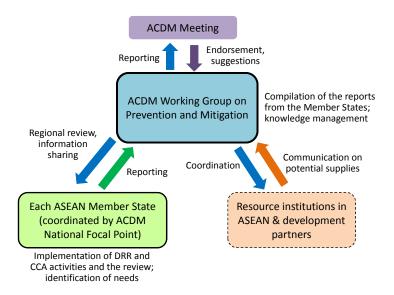


Schematic Image of DRR and CCA Integration



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Implementation Structure of the Work Plan



1. Institutional and policy development

1-1 Policies, laws and regulations

Category	Review point	Status and progress
National socio-	DRR and CCA concepts are incorporated in the	
economic	national socio-economic development plan	
development plan	and the prospect in a new plan	
DRR and CCA laws	DRR-related laws and regulations are enacted	
and regulations	and enforced with consideration of CCA;	
	DRR is mainstreamed in each ministry's	
	policies	
	CCA-related laws and regulations are enacted	
	and enforced with consideration of DRR;	
	CCA is mainstreamed in each ministry's	
	policies	
DRR and CCA related	DRR and CCA concepts are incorporated in	
sectoral laws and	relevant sectoral laws and regulations	
regulations	pertaining to land-use and urban plans,	
5 4 4 4 4 4 4	building codes, water resources and river	
	basin management, forestry management,	
	etc.	

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1-2 Management system

Category	Review point	Status and progress
National and sub-	A national DRM committee has been setup	
national DRR and	for inter-ministerial coordination which also	
CCA management	coordinates with the national CCA committee	
systems	A national-subnational DRM system has	
Systems	been setup for integrated DRM;	
	Number of local governments that integrate	
	DRR and CCA in their development plans	
	A national CCA committee has been setup	
	for inter-ministerial coordination which also	
	coordinates with the national DRM	
	committee	
	A transboundary DRM system has been	
	setup for flood, storm, landslide and drought	
	by engaging multiple agencies and local	
	governments	

1-3 Financial arrangement

Category	Review point	Status and progress
Regular budgetary	Regular budget is sufficiently allocated for	
arrangements of line	DRR and CCA activities in each	
ministries for DRR	ministry/agency;	
and CCA	A budget tagging or monitoring system for	
and cen	DRR- and CCA-related expenditures is	
	introduced	
Special funds for local	Special funds are allocated for local and	
and community-	community-based DRR and CCA activities	
based DRR and CCA		
activities		
Payment for	PES is implemented based on the economic	
ecosystems (PES) and	assessment (relevant regulations; number of	
insurance scheme	sites; budget; engagement of the private	
	sector and communities, etc.)	
	Insurance scheme for agricultural products is	
	implemented based on the economic	
	assessment (number of the schemes;	
	coverage areas; budget, etc.)	

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2. Risk assessment

2.1 Climate change impact assessment

Category	Review point	Status and progress
Observation and	Disaster data is recorded and used for	
analysis of hydro-	science-based analysis (data sharing and	
meteorological data	monitoring system; number of hydro-	
meteorological data	meteorological observation stations and	
	their coverage; manual, automatic or	
	telemetric system)	
Climate change	Climate risk is analysed based on hydro-	
projection	meteorological data monitoring and	
,	downscaling from Global and Regional	
	Climate Models (GCMs and RCMs)	
	Scenario for climate change (rainfall, sea	
	level rise, etc.) is developed	
Standard values of CC	Standard values of climate change impact is	
impact	determined with the aerial coverage	

2.2 Hazard and risk mapping

Category	Review point	Status and progress
Hazard and risk	Hazard maps and risk maps for flood, storm	
mapping of flood,	surge, landslide and drought are prepared by	
storm surge,	assessing the damages of the past disasters,	
landslide and drought	the capacity and vulnerability of local	
	authorities and communities, and the climate	
	risk and these maps are provided with high	
	resolution for local land-use planning	
	(coverage area; scale; accuracy; with/without	
	climate change impact assessment)	

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3. Planning and implementation

3.1 Disaster risk reduction

Category	Review point	Status and progress
DRR plans and	DRR plans for flood, storm and landslide are	
projects for flood,	developed and implemented with structural	
storm, landslide and	and non-structural measures with	
drought with	incorporation of climate change impact	
incorporation of	assessment	
•	Land-use and urban plans are prepared by	
climate change	incorporating disaster and climate risk and	
impact assessment	with an assessment of ecosystem services	
	Public and private investments are	
	channelled to strengthen resiliency of critical	
	facilities, including schools, hospitals,	
	evacuation facilities, roads and transport,	
	river and coastal dykes, reservoirs and	
	irrigation networks, forests and retardation	
	areas, etc., and they are implemented in a	
	stage-wise manner	
	Drought risk reduction plans including water	
	resources management and agricultural	
	measures are implemented	

3.2 Standard guidelines for disaster and climate risk assessment and planning

Category	Review point	Status and progress		
Standard guidelines	Guidelines and standards incorporating			
for disaster and	disaster and climate risk are developed and			
climate risk	used for planning			
assessment and				
planning				

4. Monitoring and evaluation

4.1 Data management

Category	Review point	Status and progress
Data management	Basic disaster, hydro-meteorological, risk,	
	vulnerability and socio-economic data are	
	updated periodically and shared with	
	relevant agencies for synthetic analysis and	
	decision-making	

4.2 Reviewing

Category	Review point	Status and progress
Reviewing	DRR and CCA related plans and activities are	
	periodically reviewed for close coordination	
	and knowledge sharing among relevant	
	agencies	

4.3 Capacity building and needs assessment

Category	Review point	Status and progress
Capacity building and	Based on the reviewing results, capacity	
needs assessment	building needs are identified and	
	corresponding training programmes are	
	arranged using domestic resources; other	
	required external technical assistances and	
	identified resource institutions and agencies	
	possible to provide capacity building services	
	regionally are reported to the ACDM Working	
	Group on Prevention and Mitigation	

Work Plan: Agreed immediate collaborative activities

Knowledge sharing and training on:		Planned activities	
(Possible contribution and expectation)		2018	2019- 2020
Capacity building for planning and implementation of measures for flood, storm, landslide and drought hazards with focus on spatial approaches for risk assessment and risk mapping at the local level			
Integration of DRR and CCA laws and regulations , where applicable, with coordination of relevant agencies for the effective implementation at the national and sectoral level			
Building capacity for accessing regional and global funds for integrating DRR and CCA			
Measures to share skills, knowledge and data on climate change impacts, implementation of river basin management, countermeasures for climate change impacts including policies			
Developing guidelines and tools with indicators for monitoring and evaluation of programmes, policies and projects on integration of DRR and CCA			

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