

Flagship 4: Community Based Disaster Risk Reduction

Operationalizing the 9 minimum characteristics of a disaster resilient community in Nepal

Example Indicators

Since the 9 minimum characteristics were agreed too, implementing agencies have taken different approaches to including the characteristics into their intervention strategies. Stakeholders have been keen to hear how organisations are operationalizing the characteristics, including what basic elements are being incorporated to meet the characteristics. With this in mind, and to aid discussions about the minimum characteristics with other sectors, the example indicators have been developed.

The indicators presented represent current conventional wisdom and attempt to provoke discussion on what is needed to build disaster resilience at the local level in Nepal.

Parameters

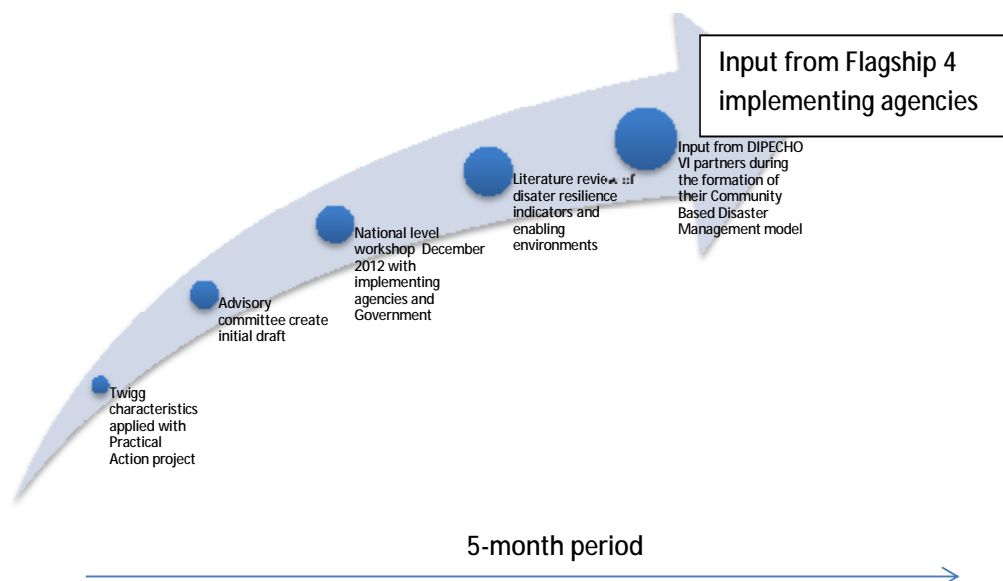
The indicators, are at the level of outputs, providing guidance on how to operationalize the characteristics at the VDC/municipality and community levels. Characteristic 5, however does include two outcome indicators. Outcome and impact indicators for the other characteristics will developed at a later stage. The indicators have been developed primarily for the rural context, and it is expected that additional indicators will need to be developed for the urban context.

All indicators have been developed in line with the Government of Nepal's Local Disaster Risk Management Planning guidelines (LDRMP), recognising that the development of these plans at VDC/municipality level plays a crucial role in the sustainability of disaster risk management activities at the local level.

Development process

The development of indicators as a measurement tool for disaster resilience at the community level has been a complicated process that has occurred over a 5 month period. The following diagram outlines the process of development.

Development of Example Indicators to date



The literature review included the following:

- Ministry of Federal Affairs and Local Development 2012 *Local Disaster Risk Management Planning guidelines*
- ADPC 2006, *Critical Guidelines: Community-based disaster Risk Management*
- DFID 2011 *Defining Disaster Resilience: a DFID approach*
- Sudmeier-Rieux, Jaboyedoff & Jaquet 2013 *Operationalising 'resilience' for disaster risk reduction in mountainous Nepal*
- IFRC 2012 *The road to resilience: Bridging relief and development for a more sustainable future*
- Twigg 2009 *Characteristics of a Disaster-Resilient Community: A guidance note (2nd edition)*
- Hyogo Framework for Action, 2005-2015

The development of indicators is an evolving process and as such if you have developed any indicators or tools which you deem relevant to the characteristics and could be shared with others, please contact Flagship 4.

See Annex 2 for a detailed list of all example indicators developed.

How to use these indicators

When designing a disaster management / risk reduction intervention it is recommended that:

- Interventions aim to include the majority of the indicators into their log frames.
- In some circumstances not all minimum characteristics or indicators will be applicable. In this case, the organisation should attempt to identify how these gaps will be managed (for example forming partnerships with other organisations).

Future development

Flagship 4 will continue to collect and share lessons about how the characteristics have been applied, as well as seek feedback on the operationalisation of the characteristics and indicators with suggestions for modifications. This will include, but is not limited to:

- Testing how accurately each characteristics promotes the development of disaster resilience at the community level
- Assessing what characteristics and subsequent indicators are missing or need to be reframed, in particular looking at the urban context
- Developing outcome and impact indicators that reflect the efforts and work at the community level.

Characteristic 1 - Organisational base at Village Development Committee/ward and community level

C.1	A functional organisational base at VDC/ward and community level for the implementation and sustainability of DRR, which addresses the issues of protection, social inclusion (including gender balance), community ownership and participation and follows DRR initiatives.	
REF.	Key example Indicators	Verification
C.1.1	VDC/municipality DM committee (LDMC) exists with roles and responsibilities in accordance with the LDRMP guidelines	Minutes of Meeting, ToR of the committee, VDC council minutes of meeting
C.1.2	Community DM committees(CDMC) exist with roles and responsibilities	Minutes of Meeting, ToR of the committee
C.1.3	Decisions by the committees are fed back to all VDC/municipality / community groups and who have rights to modify decisions	Social audit, Posting meeting minutes in public areas
C.1.4	33% Committee membership at VDC / community levels are represented by vulnerable groups, and discussion include issues specifically related to vulnerable groups	Minutes of Meeting
c.1.5	Coaching and support is given to vulnerable groups representatives in the committees, like community leadership training	Minutes of Meeting
c.1.6	% of other established community groups that have disaster risk management as regular agenda item	Minutes of meeting
	Other example indicators	
	Protection issues are discussed in committee meetings at all levels	Minutes of Meeting
	Community is aware of budget and expenditure of DRM/DRR projects	Public audit, KAP

Characteristic 2 - Access to Disaster Risk Reduction Information

C.2	Coordination mechanisms and partnerships to enable access to DRR information involving local, district and national level government structures, civil society organisations, private sector and vulnerable groups, including linkages with key institutions such as schools and hospitals.	
	Key example Indicators	Verification
	Coordination mechanisms and partnerships	
	Community level	
c.2.1	CDMC represented at LDMC by ward level representative	Minutes of meeting
C.2.2	CMDC representative connected to National network CDMC	Certification from national network & participation in network meetings
	VDC level	
C.2.3	Every LDMC has representation at district level DDMC	Minutes of meeting
C.2.4	LDMC have facilitated discussion between neighbouring communities the potential support they can offer each other / receive during a disaster	LDRMP, Minutes of meeting
	Dissemination of information	

c.2.5	Messaging on hazards is consistent with NRRC communications group agreed messaging	Partner report, NRRC Communications group
c.2.6	# communication mediums established by LDMC to reach communities, including identified vulnerable groups	KAP study
c.2.7	Community members aware of their rights and entitlements according to the provision in Natural Disaster Relief Act including rights of socially excluded	KAP study
c.2.8	LDMC connected with VEECCC (Village Energy and Environment Climate Change committee), if established	Partners report, VEECCC
c.2.9	LDRMP / community DRM Plan is disseminated and understood by the community members, including vulnerable groups	KAP study
	Other example indicators	
	Coordination and partnerships	
	DEOC, if established in the district, is linked to NEOC (and link is tested)	Simulation exercise
	DDRC & DPRP outline coordination mechanism and roles with LDMC and CDMC	DPRP
	Disaster information readily available from district information centre established in DEOC / DDC	DEOC
	Disaster management awareness is included into school curriculum and where appropriate extra circulars	School curriculum
	School and health disaster preparedness activities linked with CDMC preparedness activities and included in simulation exercises	LDRMP, simulation exercise
	Civil society coordination and partnerships	
	Community committees exchange information with the LDMC, DDRC and national network of CDMCs	NNCDMC report, simulation exercise
	Dissemination of information	
	Messaging on preparedness activities consistent with other sectorial messaging e.g.. Health contingency plans and school safety plans	Messaging
	Inclusion (including social, disability and gender)	
	Preparedness, early warning and response messages are easily understandable and available in local languages	KAP study

Characteristic 3 Multi hazard risk and capacity assessments

C.3	On-going, systematic, participatory, multi-hazard risk and capacity assessments which enable the monitoring and evaluation of DRR at VDC and community level and which link into district and national monitoring and evaluation systems.	
	Key example Indicators	Verification
C.3.1	Skills to carry out community VCAs are established and maintained through support and training	Partners report, KAP
C.3.2	VCA conducted in accordance to the LDRMP guidelines	Partners report, LDRMP
C.3.3	VCA's are conducted by community members and include people from vulnerable groups.	KAP study, LDRMP
c.3.4	Climate variability or climate change projection information considered in community risk assessment	LDRMP
	Other example indicators	
	On-going, systematic, participatory Multi hazard risk and capacity assessment	
	Baseline survey at the start of community DRR projects	Partners report
	links with other sectors / systems	

	Assessment of possible impact on food supply during emergency assessed	LDMRP
	Public health related issues and causes during disaster are identified	LDRMP
	Risk assessment identifies vulnerable Livelihood and option identified for livelihood diversification	LDRMP
	WASH infrastructure at risk due to hazards identified	LDRMP
	Participatory Monitoring and Evaluation system established	LDRMP
	Inclusion (including social, disability and gender)	
	Differences in gender roles/relations and local power dynamics that increases risk are recognized in risk assessment	LDRMP

Characteristic 4 - Community preparedness/response teams

C.4	Community teams which are trained and equipped to provide hazard warning and evacuation information, light search and rescue and basic first aid.	
REF.	Key Example Indicators	Verification
c.4.1	# of task forces established at community / ward level	LDRMP, Simulation exercise
c.4.2	Task forces formed according to LDRMP guidelines (with roles and responsibilities) trained in preparedness and response, composing of at least 33% vulnerable groups	LDRMP, Simulation exercise
c.4.3	Trained task forces have been acknowledged by VDC and district, with names and contact details included in respective DRM plans	LDRMP / DDMP / DPRP
c.4.4	Community and taskforces receive support from security forces in preparation for and during emergencies	LDRMP, Simulation exercise
	Other example indicators	
	Community teams trained (such as Search and rescue and First aid)	Training documentation, pictures
	First Response teams are aware of response plan and most vulnerable households who require specific assistance emergencies	KAP, training reports, post emergency protection survey

Characteristic 5 - Disaster Risk Reduction/ management plan at Village Development Committee/Municipal Level

C.5	A DRR/M plan at VDC level which meets the Flagship 4 minimum characteristics and is regularly updated, implemented and tested.	
REF.	Key Example Indicators	Verification
c.5.1	LDRMP based on results of VDC's multi hazard risk and capacity assessment	LDMRP
c.5.2	LDRMP planning sub committee includes at least 2 representative from the most vulnerable groups	LDRMP
c.5.3	LDRMP has been completed at VD/municipality level and linked to DDRMP (if exists)	LDRMP
c.5.4	Community DMR plan completed and linked to VDC DRM Plan	CDRMP
c.5.5	A minimum of 5% of DRM activities identified by the LDMRP, and cover the DRM cycle (preparedness, response, recovery and mitigation) are implemented, and include activities that specifically address the needs of the most vulnerable groups	MoUs for activities, pictures of activities
c.5.6	LDMRP and Community DRM plans are regularly updated	LDRMP
c.5.7	# simulation exercises takes place to test VDC / municipality / community's DRM plan	Partner reports

	Outcome indicators	
c.5.8	# DRR activities prioritised and mainstreamed in District Development Plan by DDC	DDP
c.5.9	At least 5% of VDC budget allocated to implement DRR activities	VDC council minutes, VDC budget
	Other example indicators	
	LDRMP planning subcommittee understands the rights of socially excluded.	Minutes of meeting
	DRM plan in place	
	Disaster risk reduction activities identified in LDRMP included in ward level planning workshop (as part of participatory district planning process).	Minutes from Ward level meeting
	LDRMP / community DRM plans link with other sectorial contingency plans e.g.. Health and education	LDRMP

Characteristic 6 - Disaster Risk Reduction Funds

C.6	Funds accessible to communities for priority disaster risk reduction activities which are available at VDC/ward level and/or through community resource mobilization efforts.	
REF.	Key example indicators	Verification
C.6.1	Emergency Management Fund exists at VDC / municipality / community level to implement activities that cover the disaster risk management cycle (preparedness, response, recovery and mitigation)	Social / public audit
c.6.2	Fund management committee established by the LDRMP has at least 1 representative from a vulnerable groups	Social / public audit
c.6.3	# mechanisms established to ensure awareness of fund use, transparency and distribution	LDRMP, Social / public audit
	Other example indicators	
	% fund expended per year	End of year report

Characteristic 7 - Access to community managed Disaster Risk Reduction resources

C.7	Access to community-managed resources such as human and materials at VDC/Ward levels for DRR initiatives.	
REF.	Key Example Indicators	Verification
	Human and material resources	
c.7.1	VDC / municipality / community are aware of any technical DRR resources (at the district level) and have access to these (such as engineer or DRM specialist)	Participation in DMC by technical person
c.7.2	Any response equipment is maintained by the community / VDC	Simulation exercise
c.7.3	Regular community and stakeholder updates on the DRR resources are made available to all community members	Included in posted CDMC minutes
	Community resources allocated to DRM	
c.7.4	# of community managed resources contributing to disaster risk management activities e.g. Forestry resources, sand mining, stone mining, local taxes etc	LDMRP
c.7.5	% of VDC / municipality budget allocated to maintaining and upgrading community DRR resources	VDC budget
	Other example indicators	

	Access to resources	
	Preparedness & response equipment incorporate needs of vulnerable groups (including assistive devices specific to vulnerable groups)	LDRMP
	Pre identified safe water sources to be used in emergencies are known and able to be accessed by all	KAP study
	Management of resources	
	Emergency supplies (buffer stocks) in place, managed by community, alone or in partnership with other local organizations (including grain/seed banks)	KAP study

Characteristic 8 - Local Level risk/vulnerability reduction measures

C.8	VDC/Ward level initiatives on identification, prioritization and application of local level risk/vulnerability reduction measures.	
REF.	Key Example Indicators	Verification
c.8.1	Safer places are identified, agreed and disseminated to the community, of which at least 1 is tailored to vulnerable groups of the community	DRM plan, Kap survey
c.8.2	Evacuation routes have been identified and at least 1 is able to be used by vulnerable groups and pre-identified assistance addressing the accessibility of the routes has been completed	DRM plan, Kap survey
c.8.3	VDC / municipality and community aware of best practices leading to and maintaining good health e.g. aware of disease prevention activities	Health contingency plan
c.8.4	# DRR/M trainings conducted to build awareness on disaster risk reduction and preparedness	LDRMP, KAP surveys
	Other example indicators	
	VDC / municipality and community aware of link between natural environment, ecosystems and disasters and take measures to incorporate sustainable environmental practices	KAP survey
	% of agricultural land that have adopted hazard-resistant agricultural practice for food security	DOA report
	% of VDC's drinking water / sewage / waste water systems retrofitted / implemented to be flood resilient	WASH plan
	Establishment of emergency food grain storage and seed bank at community level (either in cash or food)	
	Access to and provision of crop/ livestock/ enterprise insurance schemes or other micro-finance schemes at the community level	VDC level report
	# of structural mitigation measures in place to protect against major hazards including retrofitting	LDRMP
	# of non-structural mitigation measures in place to address disaster risks	LDRMP
	Establishment and maintained a socially inclusive community emergency shelter	LDRMP
	Building codes are incorporated into all new building structures	VDC report
	Development and implementation of risk sensitive land use planning	VDC report

Characteristic 9 - Community based early warning system

C.9	Inclusive, community based early warning systems which are integrated with VDC/ward, district and national early warning systems.	
	Key Example Indicators	Verification
	mechanisms for emergency information	
C.9.1	VDC / municipality / community is linked to a Early Warning system (for appropriate hazards)	LDRMP / DDMP, simulation exercise
c.9.2	At least 2 channels (paths) for communicating early warning messages established (from information source to community such as Gauge reader to community)	LDRMP / Community DRMPan, simulation exercise
	At least 2 mediums (mechanisms) established so information reaches all groups, including isolated& most vulnerable groups E.g. Flags, radio, telephone	KAP study, simulation exercise
c.9.3		
	Links to emergency stakeholders	
c.9.4	VDC / municipality and Community is linked to relevant line agency department to receive hazard information, including DEOC (if exists). Links are tested regularly	Minutes of Meeting of DDRC, ToR of District EWS committee, Simulation exercise
	Where appropriate specific hazards are monitored and EWS dedicated personal appointed to monitor hazard & disseminate messages	LDRMP / Community DRMPan
c.9.5		
c.9.6	Early warning messages are contextualised and community understands and practices actions to be taken	KAP study, simulation exercise