

Vulnerability and inclusion

Poor living conditions, inadequate infrastructure, a lack of income diversification and limited access to basic services, especially education and information, ensure that the poorest and most marginalised people are disproportionately affected by disasters. The equal participation of all groups in DRR decisions and a commitment to address the root causes of disasters will help to address their underlying vulnerability, increase capacities to cope with the effects of natural hazards and facilitate empowerment. The post-2015 framework on DRR must recognise and build upon the strengths of such vulnerable groups.³⁹

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Marginalised groups are more likely to suffer the effects of disasters



POVERTY

The poorest suffer disproportionately from disasters



NEPAL 1993 GDP PER CAPITA \$608

The homes of poor people were more than

5 times

the homes of the rich; those whose homes were swept



THE PHILIPPINES, LUZON **TYPHOON 2004**

I ,UUU people

and floods were formerly

Millions live in poverty and with disaster risk

Up to 325m

extremely poor people will be living in the 49 most hazard-prone countries in 2030, the majority in South Asia and sub-Saharan Africa.40



Some of the countries with the highest of people living below the

\$1.25 -a-day threshold.41

4 times

150 times

more likely to be affected by disaster.⁴²

Disaster-related mortality is worse in poor countries





138,000 people

MYANMAR 2008 CYCLONE NARGIS 43 people

UNITED STATES 2012 HURRICANE SANDY GDP PER CAPITA \$51,749⁴⁴



222,570 people HAITI 2010

7.0 MAGNITUDE QUAKE GDP PER CAPITA

5,268 people

CHILE 2010 8.8 MAGNITUDE GDP PER CAPITA \$12,640⁴⁶

Pregnant women and those with young children account for a high proportion of affected populations



Disasters usually mean

higher mortality for

women than for men

55%

population

I killed I

who

were

women

GENDER

INDIA EARTHQUAKE 1993⁵⁰

57%

JAPAN EARTHQUAKE 1995⁵¹

77%

NORTH ACEH, INDONESIA **TSUNAMI 2004**52

61%

MYANMAR CYCLONE NARGIS 200853

Inequality exacerbates vulnerability, affecting capacity to cope with disaster

- Food security: It is estimated that
- the chronically hungry globally.⁵⁴
 Livelihoods: In South Asia and sub-Saharan Africa, more than 80% of women work in informal employment ⁵⁵
- employment.⁵⁵
 Burden of workload: Women in sub-Saharan African spend 3–5 times longer than men on domestic activities.⁵⁶
- Wage inequality: In the majority of countries, women earn 70–90% of men's wages, with even lower ratios observed in Latin America.⁵⁷

EARTHQUAKE, 2010: 009

and lactating women

- PAKISTAN, EARTHQUAKE, 2005: The estimated number of pregnant w in the affected areas was 40,000.⁵⁹
- SOUTHEAST ASIA, TYPHOON HAIYAN, 2013: 14.1 million people were affected; 250,000 were pregnant women and nearly 170,000 were



AGE

Children are at high risk of hunger and malnutrition, which is often exacerbated during disasters, particularly drought

SAHEL IN 2014 AN ESTIMATED

1.5m

3.3m

Children, young people and the elderly make up a large proportion of those affected

FLOOD FATALITIES. NEPAL 1993:

Pre-school girls were five times more likely to die than adult men.63

GREAT EAST JAPAN



EARTHQUAKE 2011

+65YR

related deaths, were people aged 65 years and over.⁶⁴

NUMBERS OF CHILDREN AFFECTED

1990s

2000s

SRI LANKA POST-**TSUNAMI, 2004**

Mortality among children living in evacuation camps was 3-4 times greater than among young adults; mortality for children under five was double that for adults over 50; and mortality for females of all ages was double that for males.⁶⁷



1YR-5YR

DISABILITY



An estimated 15%

million people) live with some form of disability.⁶⁹

GREAT EAST JAPAN EARTHQUAKE, 2011

The death rate amongst the total population of Miyagi prefecture was disabled persons it was 3.5%.68

HURRICANE KATRINA, 2004

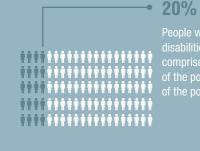
21.3-27.1%

DISABILITY INTERSECTS WITH POVERTY



80%

of all disabled



Disasters exacerbate vulnerabilities and social inequalities



POVERTY

The poorest countries suffer the most

Economic losses due to 'natural' disasters can be 20 times greater (as a percentage of GDP) in developing countries than in developed countries.⁷³

Disasters trap people in poverty⁷⁴



DROUGHT, 1984: The income of the poorest third of rural households dropped of rural nouseholds dropped by 50% in some areas.⁷⁵



EARTHQUAKE, 2010: Between 2001 and 2010 the number of poor people fell by 8%, but after the earthquake numbers after the earthquake numbers were back to 2001 levels.⁷⁶



TYPHOONS ONDOY AND PEPENG, 2009: These nearly doubled poverty in Rizal province in just three years, from 5.5% to 9.5%.⁷⁷





proportion of people living below the poverty line in Aceh from 30% to 50%.⁷⁹

Development is set back by disasters

in Africa, Zimbabwe's GDP declined by⁸⁰

HURRICANE MITCH (1998) SET BACK DEVELOPMENT



GENDER

The economic divide can widen

WOMEN'S increased by 3.7% from AVERAGE Katrina hit New Orleans in INCOMES 2005, while men's incomes

of women's earnings



Levels of gender-based violence (GBV) can increase



against women were recorded in relief camps in the first 150 days following the earthquake.⁸⁴



MIAMI, UNITED STATES

NEW ORLEANS, UNITED STATES

amongst women displaced to trailer parks was 53.6 times higher than the highest baseline rate for Mississippi in 2004; the incidence of partner rape was 16 times higher than the US yearly rate.⁸⁶

There are differentiated health impacts



HURRICANE KATRINA, 2005: Women



AGE

Children who are separated from their parents after a disaster are more prone to illness, malnutrition and abuse, and may suffer lifethreatening consequences due to deprivation.89

Drought seriously affects children's growth and nourishment⁹⁰



ETHIOPIA: Children aged five or younger are 36% more likely to be malnourished and 41% more likely to be stunted.

KENYA: The likelihood of increases by 50%.

NIGER: Children aged two or under are 72% more likely to be stunted.

THE 2005–2006 DROUGHT IN THE HORN OF AFRICA

increased child wasting by up to 8%, and by up to 25% in pastoralist communities.91

Disasters prevent children from going to school, affecting their education and exacerbating their vulnerability



CHINA, SICHUAN EARTHQUAKE, 2008 7,000 classrooms were destroyed.92

MYANMAR, CYCLONE NARGIS, 2008

More than 4,000 schools (over 50% of the total) in affected areas were many more losing learning materials,

HAITI, EARTHQUAKE, 2010

4.992 schools (23% of the total) were damaged or destroyed, and



DISABILITY

Disasters disable



HAITI EARTHQUAKE, 2010 Approximately 200,000 people are expected to live with long-term disabilities as a result of their injuries.⁹⁵



20%

INDIAN OCEAN TSUNAMI. 2004 increase in the number of persons with disabilities in affected areas.⁹⁶

and resources for people with disabilities

ORISSA, INDIA, 1990, SUPER-CYCLONE

MORE THAN

of disabled persons faced food shortages post-disaster, due to a lack of clear information



BANGLADESH. **CYCLONES**

Lack of adequate support, information and protection limits post-disaster services

55%

of people with disabilities (in particular women and girls) avoided shelters because of a lack of accessibility and



BANGLADESH, **FLOODING** AT LEAST

nco/

of people with disabilities interviewed reported facing difficultie in accessing safe drinking water and particularly latrines during floods.99

Vulnerable groups tend to be excluded from DRR decision-making, thus making them even more vulnerable to the impacts of disaster

Gender equality in DRR does not receive adequate attention

HFA

progress reports demonstrate that the two gender equality indicators are the lowest-



Platform for DRR explicitly mentioned the need to further integrate women, as well as children, Korea, Nigeria, Norway and Sweden). 101

Marginalised groups are not systematically involved in DRR decision-making







report that they are excluded from emergency preparedness and response programmes.¹⁰⁴





ENGAGING CHILDREN

directly in the design and delivery of DRR activities is not yet understood or mainstreamed within DRR policy and practice.¹⁰⁵

IN POST-TSUNAMI RECONSTRUCTION

in 2004, the exclusion of people with disabilities from disaster management processes in affected areas led to their further exclusion, resulting in slow, ineffective or non-existent relief. 106

Disaster planning does not systematically address the different needs of those disproportionately affected



CHILDREN REMAIN AT THE MARGINS

The heightened vulnerability of children is not planned for in emergencies; the HFA does not specifically refer to child protection before,

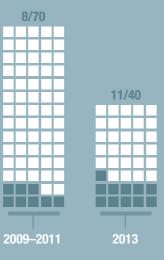
sangladesh are overlooked luring disaster situations ¹

DISABLED PEOPLE ARE FORGOTTEN

People living with disabilities report that they are rarely consulted about their needs. Evacuation in the event of a sudden disaster is



DRR monitoring and evaluation processes lack information based on data disaggregated by sex, age and disability



REPORTING SHOWS LITTLE IMPROVEMENT

In 2009–2011, eight out of 70 countries reported collecting gende disaggregated vulnerability and capacity information; in 2013, the figure was 11 out of 40 countries.



FOLLOWING THE 2004 INDIAN OCEAN TSUNAMI.

a lack of data on prevented an accurate ssessment of numbers disabilities also tended

Vulnerable groups should be included in DRR as active agents of change if resilience is to be effective and equitable

Vulnerable groups have capacities that DRR planners should recognise, build upon and strengthen



YOUNG PEOPLE ACT AS KEY INFORMANTS,



OLDER PEOPLE CONTRIBUTE

to household security through accumulated knowledge of disasters, traditional knowledge of natural resources and provision of childcare. In Darfur, 29% of 4,000 older people surveyed looked after orphans – most caring for two or more children.¹¹¹



PEOPLE WITH DISABILITIES ARE BEST PLACED TO ASSESS

with altered and difficult physical and environmental limitations are crucial, and should be utilised.¹¹²

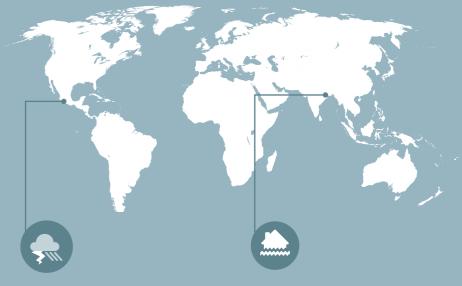
Local, traditional and indigenous knowledge helps save lives



Only seven people out of a population of 78.000

of the Indonesian island of Simeulue were killed by the Indian Ocean tsunami in 2004, despite the island's location only 40km from the epicentre of the earthquake. The story of a previous devastating tsunami in 1907 had been passed down through generations, helping islanders to recognise warning signs and to know what to do to survive. 113

Gender-sensitive DRR enhances community capacity and resilience and tackles gender-based inequalities



damage evaluations and reconstruction proposals. Data was differentiated, gender addressed (including violence and illiteracy)
Women now get better information about prevention, preparedness, response and reconstruction, and have increased decision making power through occupying positions in local risk management structures.¹¹⁴

in Samadhan, Nepal consulted with women and men, promoted girls' leadership and more involved. According to UNISDR, 'The project set up family friendly scheduling, childcare, and female role models. When floods occurred, the communities showed a new collective strength that saved lives and assets '115

Child-centred initiatives can strengthen adaptive capacity and empower children as agents of change¹¹⁶



GAMES IN MOZAMBIOUE

A child-focused programme called the 'River Game' enabled children to navigate their way down the Zambezi River, looking for hazards and assessing how they would deal with them. They then went home and taught their families what they had learned. Following floods in early 2008, communities along the Zambezi demonstrated better risk-avoiding behaviour. 113



THEATRE IN THE PHILIPPINES

Street theatre written and performed by children has been used to communicate the importance of DRR and the right to protection. Stories have acted as a form of recovery and stress release for many children who have suffered from disaster, and have also been shared with the wider community through Disability-inclusive DRR helps make action more equitable and more responsive to the needs of people with disabilities



LEARNING FROM OTHER RISKS

The Associated Blind Organisation, based on the 2001 attack.119

VILLAGE RISK MANAGEMENT IN VIETNAM

implemented in 50 villages, involving tailored early warning and priority evacuation assistance. Activities and training have been adjusted to the needs of people with disabilities and care-givers, and this has of their capacities and limitations. 120

SUMMARY OF RECOMMENDATIONS

The lack of attention to social and cultural dimensions, including gender, age, disability and other factors of social marginalisation, undermines the effectiveness and sustainability of DRR. The post-2015 framework on DRR needs to 'incorporate activities and outcomes that are based on context-specific analysis of the different needs, vulnerabilities, expectations and existing capacities of all population groups'. 121 The contribution and participation of these groups remain 'largely isolated from government, private sector and multi-stakeholder decision-making' in DRR. 122 making it essential that these aspects are considered in the successor to the HFA.

- DRR practices must promote and monitor activities and outcomes that are based on context-specific analysis of the differential needs, vulnerabilities, expectations and existing capacities of all groups.
- The post-2015 framework on DRR must advocate for DRR practices that reduce people's vulnerability to shocks and stresses, by promoting human rights, fostering community participation, valuing local and indigenous knowledge and ensuring equitable access to assets and resources.

- DRR practices should also acknowledge and strengthen people's capacities, draw upon their self-identified and prioritised needs and empower socially marginalised groups to participate as active agents of change to prepare for and respond to disasters.
- The post-2015 framework on DRR must promote gender equality as well as social and cultural diversity as fundamental goals to be achieved in their own rights and as key aspects of resilience to disasters.
- Governments must create an enabling environment for socially marginalised people and grassroots organisations to engage in and/or lead decision-making processes and DRR programme design.
- The post-2015 framework on DRR monitoring process must incorporate a social vulnerability dimension in the design of the new set of indicators. Data collection, assessments and analysis should be disaggregated according not only to gender but also to other aspects of social vulnerability, where appropriate, including age, disability, ethnicity and socioeconomic status.

How vulnerability and empowerment are featured in the HFA

Para 13 (d): 'A gender perspective should be integrated into all DRM policies, plans and decision-making processes, including those related to risk assessment, early warning, information management, and education and training.'

Para 13 (e): 'Cultural diversity, age, and vulnerable groups should be taken into account when planning for disaster risk reduction, as appropriate.'

Para 13 (f): 'Both communities and local authorities should be empowered to manage and reduce disaster risk by having access to the necessary information, resources and authority to implement actions for disaster risk reduction.'

Para 16 (iii) (h): 'Promote community participation in DRR through the adoption of specific policies, the promotion of networking, the strategic management of volunteer resources, the attribution of roles and responsibilities, and the delegation and provision of the necessary authority and resources.'

Para 17 (ii) (d): 'Develop early warning systems that are peoplecentered, in particular systems whose warnings are timely and understandable to those at risk, which take into account the demographic, gender, cultural and livelihood characteristics of the target audiences, including guidance on how to act upon warnings.'

Para 18 (i) (a): 'Provide easily understandable information on disaster risks and protection options, especially to citizens in highrisk areas, to encourage and enable people to take action to reduce risks and build resilience. The information should incorporate relevant traditional and indigenous knowledge and culture heritage and be tailored to different target audiences, taking into account cultural and social factors.'

Para 18 (ii) (h): 'Promote the inclusion of disaster risk reduction knowledge in relevant sections of school curricula at all levels and the use of other formal and informal channels to reach youth and children with information.'

Para 18 (ii) (m): 'Ensure equal access to appropriate training and educational opportunities for women and vulnerable constituencies; promote gender and cultural sensitivity training as integral components of education and training for disaster risk reduction.'

Para 18 (iv) (p): 'Promote the engagement of the media in order to stimulate a culture of disaster resilience and strong community involvement in sustained public education campaigns and public consultations at all levels of society.'

Social and economic development practices – Para 19 (ii) (g): 'Strengthen the implementation of social safety-net mechanisms to assist the poor, the elderly and the disabled, and other populations affected by disasters. Enhance recovery schemes including psychosocial training programmes in order to mitigate the psychological damage of vulnerable populations, particularly children, in the aftermath of disasters.'

Para 19 (ii) (i): 'Endeavor to ensure, as appropriate, that programmes for displaced persons do not increase risk and vulnerability to hazards.'

Para 20 (f): 'Develop specific mechanisms to engage the active participation and ownership of relevant stakeholders, including communities, in disaster risk reduction, in particular building on the spirit of volunteerism.'

How vulnerability and empowerment are included in statements and consultations on the successor to the HFA

Mid-Term Review

- 'The idea of incorporating disaster reduction in school curricula has been pursued with great enthusiasm over the past decade. A perception survey of children and young people undertaken in 10 countries indicates that these groups think that most progress has been made in this area. However, there is little evidence in the literature to suggest that this has been done within the framework of strategic educational planning at national levels. The complexity of incorporating new material in school curricula is often underestimated.' (p. 26)
- Another element where progress was noted as still lagging is on the implementation of cross-cutting issues in the HFA: multihazard approach, gender perspective and cultural diversity, community and volunteer participation [...] Inclusion of a gender perspective and effective community participation are the areas where the least progress seems to have been made. Both these points were discussed in the in-depth study commissioned by the Mid-Term Review on the Role of Women as Factor of Change in Disaster Risk Reduction [...] Initial data from the 2009–2011 HFA Monitor indicate that an impressively high number of countries (62 out of 70) do not collect gender disaggregated vulnerability and capacity information.' (p. 44)

Synthesis Report

- · 'Addressing risk beyond 2015 also calls for attention to societal change and anticipating the influence of the changing role of women, the pressure and demographics of youth as change agents, the dynamics of new family and community structures that underpin resilience, and the role of social networks for sharing information and increasing accountability.' (p. 6)
- 'Building Women's Leadership: Large numbers of women are working collectively to combat the adverse effects of disasters and build resilience in urban and rural areas. However, family and income-generated responsibilities, coupled with, limited access to basic services, property rights, and quality employment, are still in many countries, constraining women and girls from participating in public decision-making processes such as framing priorities and investments in disaster risk reduction.' (p. 11)
- 'Consultations reaffirmed [...] the determination of women to assume leadership in promoting disaster risk reduction locally and nationally. Specific actions recommended through the International Day for Disaster Reduction and the HFA2 meetings include recognizing the potential and current contributions of women's organizations, strengthening their capacities and coordination and promoting institutional commitments and accountability to gender-equitable risk reduction and sustainable development.' (p. 12)
- · 'Related issues of community participation were repeatedly highlighted. Specific attention was given to the importance of ensuring community involvement in decision-making processes

and building partnerships with community-based or grassroots associations of youth, women, informal settlers, farmers, pastoralists, fisher-folk, indigenous peoples, local religious groups, among others. Stakeholders urged more support for capacity-building and awareness at the local level for the HFA2 [...]. Others emphasized the importance of engaging communities and facilitating their participation.' (p. 13)

- 'Inclusive approaches to disaster reduction were encouraged [...] with an emphasis on empowering women and youth to participate and lead. In particular, concern with children's survival, well-being and protection emerged in many of the consultations. Emphasis was placed on school safety, education, and ensuring children and youth's participation in risk analysis and resilience-building initiatives.' (p. 13)
- 'Disability was recognized as an issue that has received far too little attention with the consequence of increasing exposure of the people with disabilities and missing the opportunity to draw on their unique capacities, including the physically disabled, the blind and deaf. This has been identified as a priority for concerted action in the HFA2 with calls for their necessary participation in decision-making processes for disaster risk management.' (pp. 13-14)
- 'Specific actions recommended [...] included the provision of demographic and sex-disaggregated data assessments of disaster risk and losses and clarifying responsibility for implementing and monitoring sex-disaggregated indicators.' (p. 16)

Chair's Summary

'Focus was placed on efforts to ensure that all schools and hospitals are built to resilient standards, that all necessary school and hospital preparedness measures are in place and that attention has been given to the needs of persons with disabilities.' (p. 2)

'Engaging communities achieves results: Approaches that are culturally sensitive and based on the principles of inclusiveness, participation and empowerment have been identified as a means of ensuring sustained impact in building resilience. Women are a driving force for resilient societies. Indigenous peoples, displaced persons, youth and children's groups, elderly, persons with disabilities and the vast array of voluntary associations each demonstrated how they have taken action to reduce disaster risk. Respecting local cultural heritage can build community resilience. [...] Systematic and meaningful inclusion of communities in planning, decision-making and policy implementation is a must.' (pp. 2-3)

'There is strong evidence that empowerment of communities and local governments to identify and manage their everyday risks, and to engage in the development of disaster risk reduction strategies, programmes and budgets provides a sound basis for building resilience.' (p. 3)

Elements Paper

Despite previous recommendations as detailed above, there is no mention of gender aspects or of any other social aspects of vulnerability in the Elements Paper. There is no reference to the importance of gender-disaggregated information in the proposed set of indicators either.

RECOMMENDED READING

Learning from the local level for effective DRR:

Huairou Commission (2013) What communities want: putting community resilience priorities on the agenda for 2015. Huairou Commision.

For a brief synthesis of recommendations to make resilience gender-sensitive:

GenCap Advisers, IASC GSWG and OCHA (2013) Key messages on a gender perspective of resilience.

Research commissioned by UNISDR on the Role of Women as Factor of **Change in Disaster Risk Reduction:**

Gupta, S. and Leung, I. (2011) Turning Good Practice into Institutional Mechanisms: Investing in Grassroots Women's Leadership to Scale Up Local Implementation of the Hyogo Framework for Action. An in-depth study for the HFA Mid-Term Review. United Nations Strategy for Disaster Reduction, Geneva.

A useful resource to explain disability-inclusive DRR:

Handicap International (2008) Mainstreaming Disability in Community Based Disaster Risk Reduction. A Training Manual for Trainers and Field Practitioners. Handicap International India, New Delhi.

For an exhaustive compilation of articles addressing the social vulnerability and capacity dimension of DRR:

Wisner, B., Gaillard, J-C. and Kelman, I. (2012 The Routledge handbook of hazards and disaster risk reduction. London: Routledge.