Gender Vulnerability, Risk Prevention and Resilience Building

Úrsula Oswald Spring UNU-EHS, MunichRe Chair CRIM/UNAM, Mexico

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1.1 Focus of the Talk and Main Questions

- Why are women and other social vulnerable groups so highly exposed to natural risks and hazards?
- What are the possible policies and measures to improve resilience for these social groups and to reduce their risks?

2. Basic Concepts and Focus of the Talk: Gender Security, Identity, Capacity Building and Resilience



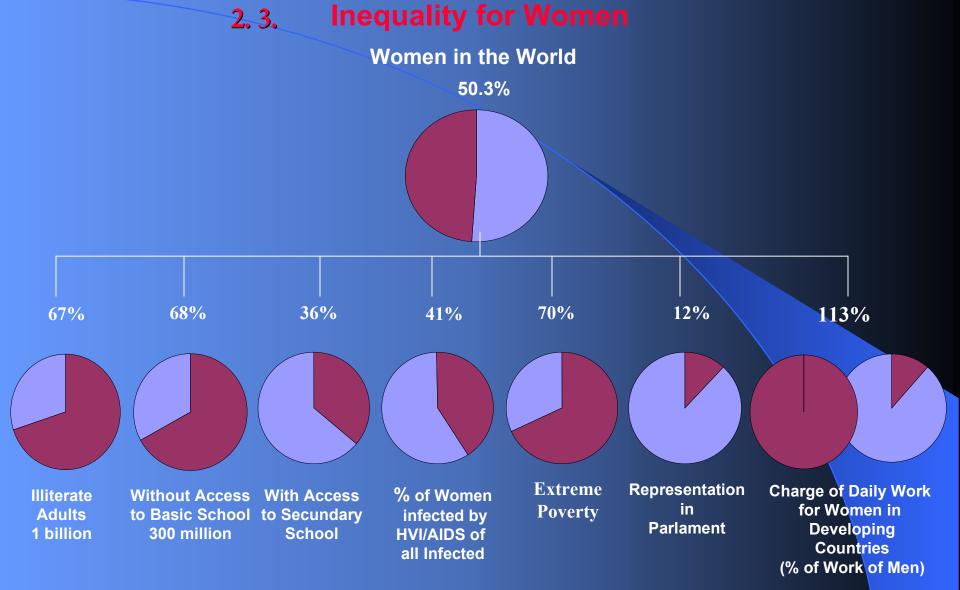
2.1. Gender Security and Identity

- Gender security refers to the process of raising consciousness to be a human being as a man or a woman or a bisexual, depending on the position in the social structure.
- Gender security is normally taken for granted. The relationship to the model of reference is linked to the status as gender—understood as indigenous, poor, minority, women, elders and children.
- Equity and identity are values at risk. The source of threats emerges from the patriarchal, hierarchical and violent order, characterized by exclusive and totalitarian institutions such as non-democratic governments, churches and élites.
- The symbolic distribution assigns to the man the public space: production, *res publica*, *homo sapiens*; and to the woman the private one: reproduction, home, *homo domesticus*.
- The distribution of power acquires also generic forms. Men exercise a hierarchical and vertical power of domination and superiority.

2.2. Human, Gender and Environmental Security (HUGE)

Level of expansion	Determination Which security?	Mode of expansion Reference object Security of whom?	Value at risk Security of what?	Source(s) of threat Security from whom or what?
Without expansion	National security (political, military dimension)	The State	Sovereignty, territorial integrity	Other States, terrorism, sub-state actors, guerrilla
Increased	Societal security	Nations, social groups	National Unity, national identity	(States), Nations, Migrants, Alien cultures
Radical	Human security	Individuals (Humankind)	Survival, quality of life, cultural integrity	The State, globalization, nature, GEC, poverty, fundamentalism
Ultra-radical	Environmental Security	Ecosystem, urban and agricultural system	Sustainability	Nature Humankind
Trans-radical	Gender security	Gender relations, indigenous, minorities	Equity, identity, social relations	Patriarchy, totalitarian institutions (élites, governments, religions, culture), intolerance

Source: Bjørn Møller, 2003:279 and Úrsula Oswald, 2001, 2004



Source: UNIFEM, 2000 and UNAIDS, 2000 90% of all Maternal Deads ocurs in Developing Countries: (500,000 deads/year)

2.4. Main Attributes of Social Identity

Thousands of years of experience have created a society in a specific socio-historic environment where symbolic elements have developed -class, ethnicity, age, religion, race, nationality, professional attribution, political ideology, education, etc. However, they are permanently changing, but its main attributes -gender, sex and race- and the socioeconomic conditions -rich, poor- are stable (Habermas). Each process of classification implies relations of identity; inclusion or rejection and exclusion, what constitutes the basis of any power exercise.

2.5. Social Representations

- "Systems of values, ideas and practices" simultaneously creating a system of order, are able to offer a person the possibility to get familiar with the social and material world. The communication within a community offers a code of common social interchange, where several aspects of life, personal and collective history are classified without ambiguity (Moscovici, 1976; xiii).
- Therefore, social representations originate in daily life, where society is the thinking and acting system.
- The theory of social identity establishes a continuum between personal and social identity with a *processual*, relational, multidimensional, contextual and essentialist character.

2.6. Social Identity

- Tajfel (1979:31) affirms that social identity is generated in a world where processes of unification and diversification are occurring with giant steps, faster than ever in history.
- Hogg and Abrams (1988: 78) argue that persons have a basic necessity to simplify and order reality, where the categorization of the social environment is elaborated by social comparison, basically to improve self-esteem.
- Social representation of gender is specifically charged with stereotypes, to be weak, incapable, dependent and vulnerable. These are social categories that are rich and complex in a symbolic system that has been socially and dialogically constructed (Habermas, 1998, 2000, 2001). Both are part of an inalienable collective life, enriched by ideologies, rites, beliefs and daily practices.

2.7. Characteristics of Social Identity

Social identity is:

- processual resulting from and leading to permanent change;
- relational due to its transformation linked to interaction;
- multidimensional operating inside, between individuals, groups and ideologies (Doise, 1986);
- contextual forging relationships in specific contexts;
- essential due to the diversity and complexity of social interactions that are sustained and transformed by identity processes (Serrano, 2004, 2005).



3.1. Vulnerability



- Results from "poverty, exclusion, marginalization and inequities in material consumption" O'Riordan (2002: 369).
- "The conditions determined by physical, social, economic, and environmental factors or processes, which increase the susceptibility o a community to the impact of hazards" (ISDR, 2004: 7)
- "Is conceptually located at the interaction of nature and culture" that also links "social and economic structures, cultural norms and values and environmental hazards" (Oliver-Smith, 2004:11).
- Increases the empowerment of victims. Wisner (2004: 194-205) distinguishes four approaches for dealing with social vulnerability: demographic, taxonomic, situational, contextual or proactive.



3. 2. Challenges, Capacity and Resilence

- Challenges are a combination of potential and real institutional, societal, economic and political processes, that are able to deal with risks, fears and hazards.
- Capacity is "a combination of all the strengths and resources available within a community, society or organization that can reduce the level or risk, or the effects of a disaster." (ISDR, 2004: 2)
- Protection and to improve risk reduction measures." (ISDR, 2004: 6)

3.3. Risks



- Risk= Hazards x Vulnerabilities (sometimes mulitiplied by Exposure to a physical threat, Segob, Mexico); H and V are estimated probabilistically; E in money.
- "The probability of harmful consequences or expected losses —deaths, injuries, property, livelihoods, economic activities, resulting from interaction between natural or human-induced hazards and vulnerable conditions" (ISDR, 2004: 6).
- Social contexts can change the perception of risks and their underlying causes.



4.1. Elements of Vulnerability Assessment

- Vulnerability assessment requires collecting and analyzing data linked to building consciousness on:
- Types of hazards and frequency
- Elements at risk and how to reduce them
- Socioeconomic conditions and types of shelter
- Gender and family structure
- Genuine coping strategies
- Mapping specific hazard prone locations
- Learning from previous disasters and coping strategies
- Training for evacuation
- Resettlement of people at risk
- Evaluation of training and hazard mitigation process

4.2. Women and Disasters Management

Water and food production in hand of women:

- Under normal conditions women produce half of world food; in developing countries even 60% to 80%;
- But women in México only own 17% of their land and in Africa 2 %;
- Women practice survival strategies in coping with long-term disasters such as economic crises and famine.
- They contribute in Africa to:
 - 33% of the paid labor force
 - 70% of agricultural labor days
 - 60-80% of subsistence production
 - 100% of food transformation
 - 80% of food storing
 - 90% of spinning and weaving
 - 60% of harvesting and market activities
 - 2% own land or have land rights (FAO, 2002)



5.1. Gender, Threats and Disasters

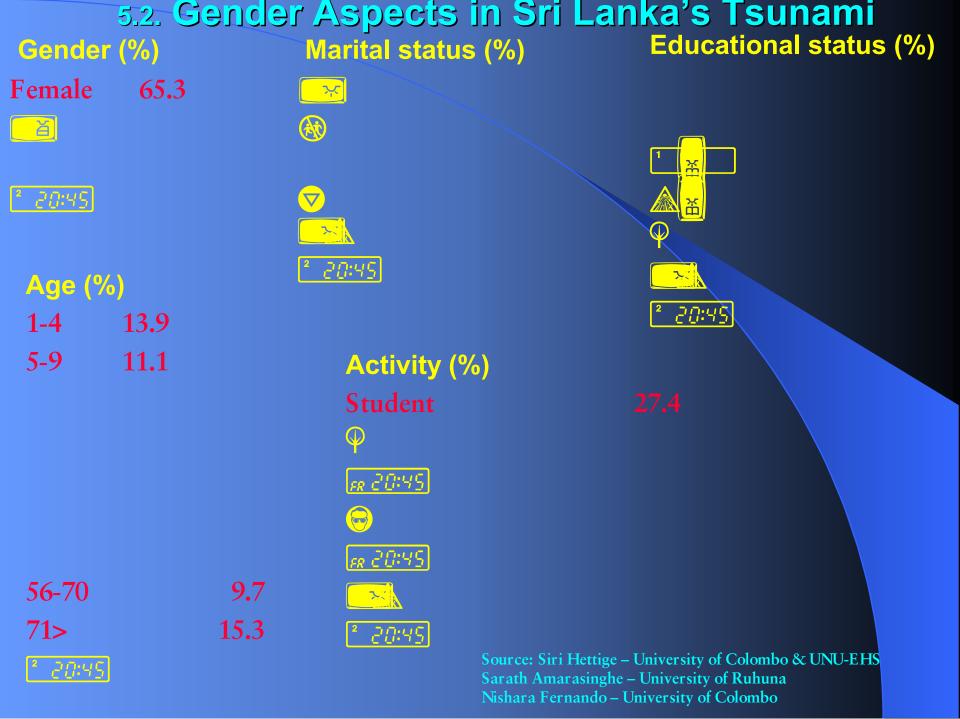
Women contribute subjective and objective values

Subjective values (social identity):

- Caring about their families, children, neighbors and those in need
- Positive self-esteem in crisis situations
- Emotionally stabilizing families before, during and after a disaster
- Guardians of traditions and values
- Locally attached

Objective values (social representation):

- Flexible, adaptable and able to shift activities immediately by diversifying (refugee camps, survival activities, collection, reconstruction, services, agriculture, reforestation, ecotourism,)
- Open to collaborate in rescue activities
- Generate survival strategies in case of disasters
- Contribute to the national economy
- Create local employments, incomes and stabilize emigration
- Generate political stability and conciliate conflicts



5.3. Activity: Gender Sensitive (Unemployed & Poor): %











Unemployed 14.0 Employed 37.3 27.5 21.4

FR 20:45



N/A



7.9

7.6

Income (%)

1-4999

<u>13</u>

43.5

50.8

Source: Siri Hettige – University of Colombo and UNU-EH Sarath Amarasinghe – University of Ruhuna Nishara Fernando – University of Colombo

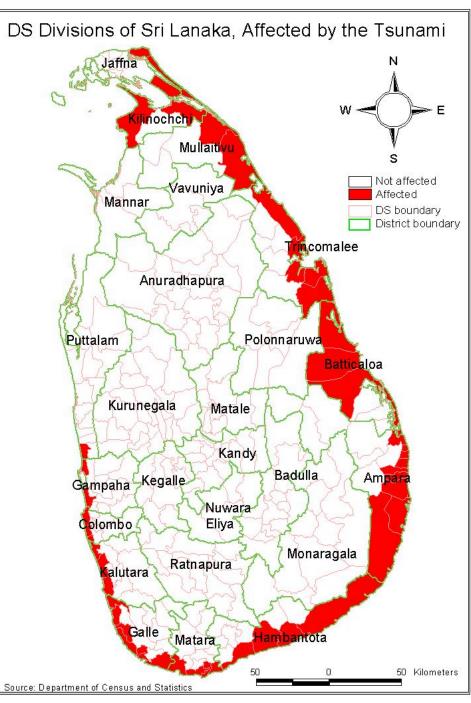




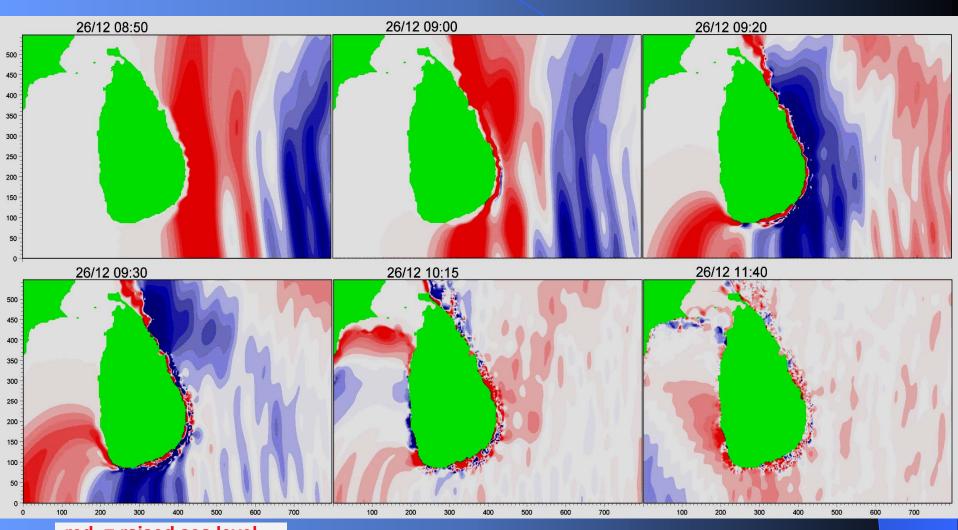
6.1. Case Study on Sri Lanka



Source: Siri Hettige – University of Colombo & UNU-EHS Sarath Amarasinghe – University of Ruhuna Nishara Fernando – University of Colombo



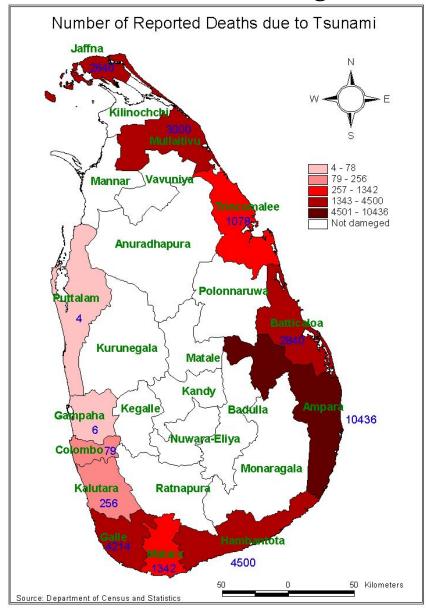
6.2. Variability of Wave Attack (snapshots from a computer simulation)

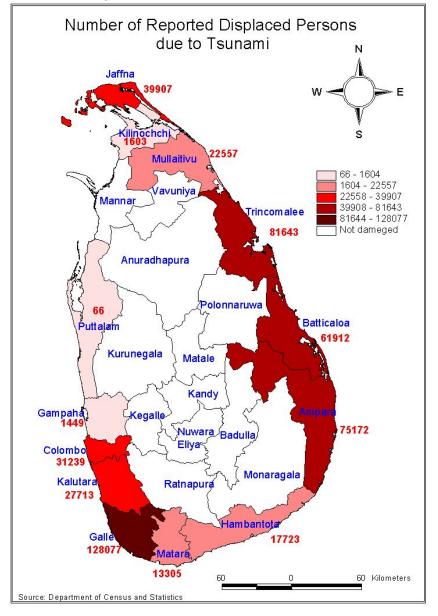


red = raised sea level blue = lowered sea level

by courtesy of DHI Water & Environment

6. 3. Regional Vulnerability in Disasters





Source: Siri Hettige – University of Colombo and UNU-EHS Sarath Amarasinghe – University of Ruhuna Nishara Fernando – University of Colombo

6.4. Environmental and Social Lost in Batticaloa



Source: Siri Hettige – University of Colombo & UNU-EHS Sarath Amarasinghe – University of Ruhuna Nishara Fernando – University of Colombo







Breached sand dunes



7.1. Empirical Data with Household Characteristics of

Local Population

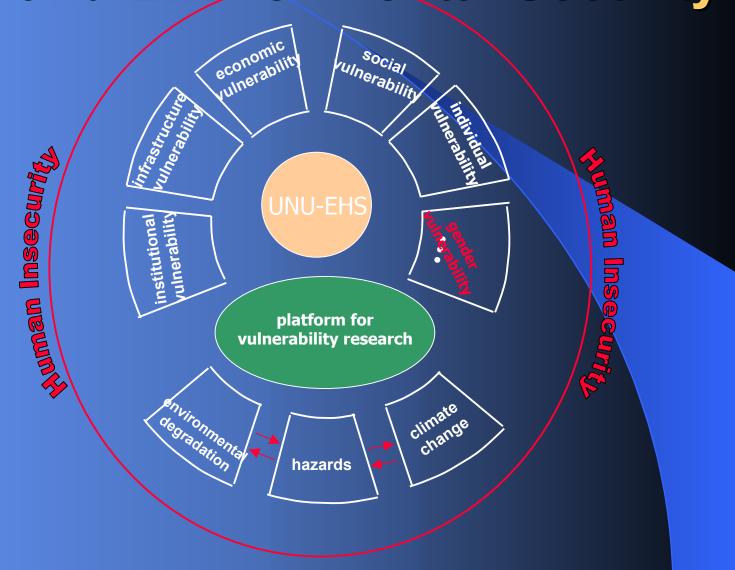


Source: Siri Hettige – University of Colombo Sarath Amarasinghe – University of Ruhuna Nishara Fernando – University of Colombo

7. 2. Do you agree to move to a safer place vacating the present coastal residence by "risk zone" (Gale District, Sri Lanka)											
100 meters	Owned	Encroached		Joint owner- ship		Official house	Total				
Yes	268	43	17	4	5	3	340				
	78.8%	12.6%	5.0%	1.2%	1.5%	.9%	100				
	66.5%	75.4%	85.0%	50.0%	100.0%	75.0%	68.4				
No	135	14	3	4		1	157				
	86.0%	8.9%	1.9%	2.5%		.6%	100				
	33.5%	24.6%	15.0%	50.0%		25.0%	31.6				
Total		57	20	8	5	4	497				
	81.1%	11.5%	4.0%	1.6%	1.0%	.8%	100				

Source: Siri Hettige – University of Colombo and UNU-EHS, 2005 Sarath Amarasinghe – University of Ruhuna Mishara Fernando – University of Colombo

7.3. UNU-EHS Working Areas: Human and Environmental Security

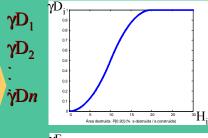


7.4. HAZARDS

Hi (I (t),t) | i = 1, 2,..., m

EXPOSED ELEMENTS (COMPLEX DYNAMIC SYSTEM)

VULNERABILITY FACTORS $V(\gamma D_i(t), \gamma F_i(t), \gamma R_i(t), t) = 1, 2, \dots, n$



Exposure and Physical Susceptibility hazard dependent

Physical Damage $D_{\varphi}(\gamma D_{i})$

Gender coping training

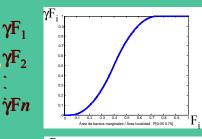
first order impact

CORRECTIVE AND PROSPECTIVE INTERVENTION

ACTUATION SYSTEM

- ✓ Risk Identification
 ✓ Risk Reduction
- Disaster Management
 - Risk Transfer

Risk Gender Bias



 γR_1

 γR_2

γRn

Social and Economic Fragilities

non hazard dependent

Gender Specific Management

Lack of Resilience or Ability to Cope and Recovering

non hazard dependent

Gender Specific Education

Impact Factor

RISK

 $R\left(D_{\omega}, I_{f}\right)$

 $I_f(\gamma F_i, \gamma R_i)$

second order impact

second order impac

Source: Cardona, 2005

CONTROL SYSTEM

RISK MANAGEMENT SYSTEM



8. Conclusions

- All existing statistics on disasters of the World Bank, UN system, Red Cross, MunichRe, except some anthropological local studies do **not distinguish** between different grades of vulnerability within regions, social groups and gender.
- Women, children, elders and other social vulnerable groups are highly exposed to natural risks and hazards due to their cultural accepted social identity and social representation, developed within their cultural systems.
- The possible policies and measures to improve resilience for these social groups and to reduce their risks are:
 - compiling gender sensitive statistics;
 - training specifically and gender sensitively people for disasters and risk reduction;
 - using the gender potential represented in subjective and objective values to improve human and environmental security.

