Climate Change and Children: A Human Security Challenge

unite for children



1. Climate change, human security and the world's children

1.1 Human security and climate change

- Human security is complementary to national security.
 It is a <u>unifying concept</u> that bridges notions of security at all levels, from the individual/local to the national and global
- Human security offers a valuable lens through which to <u>examine the impacts</u> of climate change on children, and to integrate the climate change and development agendas

1.2 Climate change in developing countries

- Developing countries will be worst hit by changes in rainfall patterns, greater weather extremes and increasing droughts and floods (IPCC, 2007).
- The <u>achievement of MDG's</u> is critically important for both, the lives of children today and the world we leave to future generations

1.3 IPCC Assumptions of climate change, 2007

Risks	Impacts
Sudden-onset disasters	•Destroy familiar surroundings
	•Undernutrition, disease, injuries
Gradual systemic change	•Worsen situation of the most marginalized children.

1.4 Why Children? (I)

- Over 1.2 billion people in the world are 9 year old or younger.
- Over 1.2 billion people are between 10 and 19 years old.
- About 85% of the world's youth live in developing countries.
- About 87% live in countries affected by poverty, hunger, disease and violence.

Why Children? II

- As a group the <u>vulnerability and experience</u> of children comprise a crucial component of human security
- Many of the main killers of children are <u>highly sensitive</u> to climatic conditions
- Children are <u>more susceptible</u> to adverse effects of environmental degradation
- Experiences of children today set the stage for <u>human</u> security in the future

1.5 Children as researchers and as agents of change

- They can be extraordinarily <u>resilient</u>
- They can be valuable <u>agents for social change</u>, economic development and technological innovation
- They are better on touch with their physical environment
- They can be engage trought <u>participatory approaches</u> to community research and development

1.6 Complexity and Integration

Impoverished populations without access to clean energy

The rural-urban divide

Age and Gender

International and Intergenerational justice

2. Impacts of	climate	change	on childre	en

2.2 Key climate changes

- Rising sea levels and shrinking glaciers
- Heavy precipitation, flooding and water security
- Rising temperatures, droughts and desertification
- Extreme weather events
- Deforestation
- Biodiversity

2.3 Implications of climate change

Climate changes	Impacts	
	Health and well being	Social and economic
Rising sea levels and shrinking glaciers	-Food security and undernutrition	-Decline in children access to education
Heavy precipitation, flooding and water security	-Water security, diarrhoea and other waterbone diseases	-Displacement and migration of families, trafficking and maltreatment
 Rising temperatures, droughts and desertification 	-Malaria and other vector-borne deseases	-lincrease poverty rates
Extreme weather events	-Death and illnesses from use of biomass fuels indoors	- Loss of livelihoods for millions of families and thus rise of child mortality rates

2.3.1 Implications for child health and well-being

- Food security and undernutrition
- Water security, diarrhoea and other waterbone diseases
- Malaria and other vector-borne diseases
- Death and illnesses from use of biomass fuels indoors

2.3.2 Food security and undernutrition

- Undernutrition is the underlying cause of 3.5 millions death anually, and more than one-third of deaths in children under five years of age
- Food production could decline by as much as 50% by 2020 due to droughts, floods and diversion of grains for biofuel

2.3.3 Water security, diarrhoea and other waterbone diseases

- Diarrhoeal disease cause almost 2 million deaths a year, of which are mostly young children.
- As the temperatures rise, the replication of the pathogens that water carries (protozoa, bacteria and viruses) will also increase.

2.3.4 Malaria and other vector-borne deseases

- Malaria causes more than a million deaths each year, up to 80% of which are amongst children under five
- With increasing temperatures malaria is returning to places where it was once eradicated

2.3.5 Death and illnesses from use of biomass fuels indoors

- It is estimated that 2.1 million children under five die from acute respiratory illnesses.
- Increase in burning fosil fuels drop air quality in rural and urban areas.

2.4 Impacts from the breakdown of economic and social structures

Social

Decline in children access to education

 Displacement and migration of families, trafficking and maltreatment

Economic

- A climate driven reduction in GDP would increase poverty rates
- Loss of livelihoods for millions of families and thus rise of child mortality rates

3. The bases for action: Rights, institutions and guiding principles

- I. The 1972 Conference on the Human Environment Declaration
- II. Convention on the Rights of the Child
- III. The Aarhus Convention
- IV. Art 6 Convention on Climate Change
- V. Hyogo Framework for Action
- VI. The Millennium Development Goals
- VII. Partnerships with faith-based organizations
- VIII.Partnerships with youth organizations

I. Agenda 21 and the Rio Conventions

- Adopted by more than <u>178 governments</u> in 1992
- Principle 10 "environmental issues are best handled with participation of all concerned citizens, at the relevant level"

II. Convention on the Rights of the Child (CRC)

Pertinents articles

- Art 2. Protection of children from any form of discrimination
- Art 3. The best interest of the child
 - Art 6. Promotion of the child right to life, survival and development
- Art 12. Respects of the view of the child
- Art 24, 2(c) adequate nutritious foods and clean drinking water
- Art 24, 2(e) Access to educ. health & nutrition

Measures of implementation

- Development of an effective legal system
- Independent child rights institutions
- Strategic national agendas
- Effective governmental coord.
- Allocation of resources
- Monitoring tools
- Educ., Information & awareness raising
- Involvement of civil soc.

III. The Aarhus Convention

On access to Information, public participation and access to justice in environmental matters

Messages:

- Easy access to information
- Encourage civic participation among the youth

IV. Article 6 of the UNFCCC

Adressess:

Education, training, public awareness, public participation and access to information in relation to climate change

Millennium Development Goal	Climate change link	Adaptation solutions related to children
Goal 1: Eradicate extreme poverty and hunger	 Climate change is projected to reduce poor people's livelihood assets, for example, health, access to water, homes, and infrastructure Climate change is expected to alter the path and rate of economic growth due to changes in natural systems and resources, infrastructure, and labor productivity. A reduction in economic growth directly impacts poverty through reduced income opportunities. In particular in Africa, food security is expected to worsen. 	 Promote alternative livelihood and small-scale entrepreneurship Vocational training for out-of-school youth and women, related to renewable energy technologies, rainwater catchments, groundwater recharge, small-scale irrigation environmental cleanup/reparation Community projects such as canal excavation, reducing water logging, raising of embankments

Goal 2:

Achieve universal primary education

•Loss of livelihood assets may reduce opportunities for fulltime education. Natural disasters reduce children's available time, while displacement and migration can reduce access to education.

- Environmental education
- Youth-led community mapping of risks and disaster preparedness
- School-based early warning
- Awareness and advocacy
- •School gardening programs initiated to support nutrition

Goal 3:

Promote gender equality and empower women

- •Depletion of natural resources and agricultural productivity may place additional burdens on women' health and reduce time to participate in decisionmaking and income-generating activities.
- •Climate related disasters impact more severely on female-headed households.

- •Local community-based water management programs
- Community gardens
- Disaster preparedness and risk reduction
- •Community action to eliminate conflict-inducing environments

Goal 4: Reduce child mortality	 Direct effects of climate change include increases in heat-related mortality and illness associated with heat waves Climate change will likely result in declining quantity and quality of drinking water, which is a prerequisite for good health, and exacerbate undernutrition 	 Access to health services Household water treatment and Oral Rehydration Salts (ORS) Improved access to sanitation and hygiene education
Goal 5: Improve maternal health	Children and pregnant women are particularly susceptible to vector and waterborne diseases	•Strengthening of health services and distribution of malaria pills through schools

Goal 6: Combat HIV/AIDS, malaria and other diseases

- •Climate change may increase the prevalence of some vectorborne diseases and vulnerability to water, food, or person-toperson borne
- Increased vector control and response to waterborne diseases
- Provision of bednets
- Cleaning of stagnant water

Goal 7: Ensure environmental sustainability

- •Climate change will alter the quality and productivity of natural resources and ecosystems, some of which may be irreversibly damaged, and these changes may also decrease biological diversity and compound existing environmental degradation.
- Increased access to water and sanitation
- Tree-planting campaigns
- •School and community gardens
- Mapping of water sources and sanitation promotion
- Demand-led approaches to school WASH

Goal 8:

Develop a global partnership for development

•Global climate change is a global issue and response requires global cooperation, especially to help developing countries to adapt to the adverse impacts of climate change.

- Better information exchange between governments and NGOs
- •Building civil society alliances
- •Initiating discussions on CRC and climate change at all levels

4. Adaptation and mitigation: complementary strategies

4.2 Key adaptation interventions to reduce human security risks to children

- I. Household water supply, sanitation and hygiene (WASH)
- II. Groundwater recharge and watershed remediationation
- III. Disaster risk reduction and preparedness
- IV. Environmental protection and restoration
- V. Renewable energy solutions
- VI. Health-related interventions
- VII. Community capacity building
- VIII. Social protection and psycho-social support

4.3 Adaptation activities involving children and young people

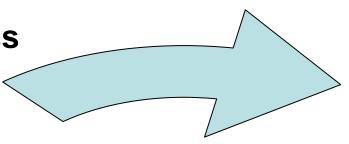
Activities	Location
 Life skills-based intersectoral environmental education relating the child's local environment to her/his life in the context of the education curriculum, including science, mathematics literacy and health community outreach activities led by youth clubs 	• in schools and communities
Disaster risk reduction and preparedness • risk mapping of communities led by youth clubs • tree planting and erosion control activities • preparedness, evacuation	in schools and communities
Vocational training in trades to address environmental degradation to address youth unemployment • to reach out of school youth • to improve access to water • to improve access to energy • ie: forestry, masonry, health care	• in community centres, schools

Adaptation activities involving children and young people

Promotion of alternative energy for electrification of rural schools and health centres • Working with GEF, CDM, PEI and others	• in schools, health centres
Water source and micro-watershed protection/remediation • river clean-up campaigns • monitoring and maintenance of water points • fencing/hedging	in schools, households, communities and micro- catchments
Alternative water source development • rooftop rainwater harvesting • unoff collection (micro-dams, sub-surface dams, pond construction)	in schools, households and micro-catchments
Alternative energy for water lifting • solar pumping (where handpumps not appropriate) •wind pumping (as above)	mainly in schools

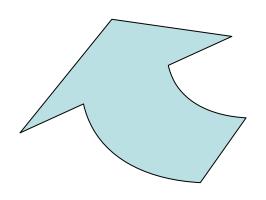
4.4 Needs of children in local adaptation strategies

Planning process

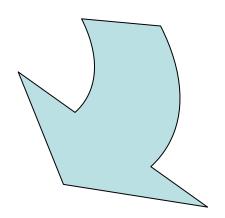


IMPACTS ON CHILDREN
DOCUMENTED
AND
SUPPORTED BY DATA

CHILDREN INVOLVED AS LOCAL PARTICIPANTS



TESTING OF PLANS
BEFORE IMPLEMENTATION

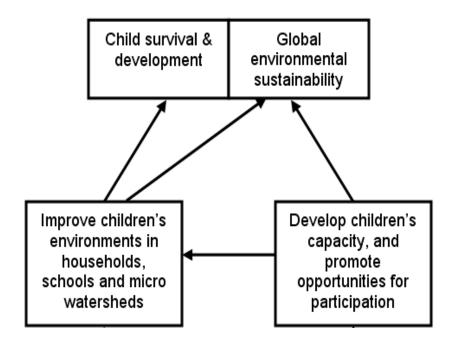


4.5 Community development

Participatory approach:

- Economic opportunity
- Vulnerability reduction
- Empower the most marginalized

Environmental education



4.5.1 Nairobi Work Programme

Goal

Help countries to improve their understanding of CC impacts and vulnerability and how to adapt successfully.

Children can be included in the development of responses in four areas:

- 1. Methods, tools used for impact, vulnerability and adaptation assessment
- 2. Climate related risks and extreme events
- 3. Socio-economic information
- 4. Adaptation planning and practices

4.6 Frameworks for action (I)

FRAMEWORK	ACTIONS
National Adaptation Programmes of Action (NAPAs)	identification of priority activities that respond to immediate needs and concerns for adaptation to climate change
	 grassroots strategies, use of relevant traditional knowledge
	and practice
The Hyogo Frameworks 2005-2015	 Disasters affect everyone and are everybody's business Action Priorities for disasters strong institutional basis for implementation. Identify, assess and monitor and enhance early warning. Use knowledge, innovation and education to build resilience Reduce the underlying risk factors. Strengthen disaster preparedness
Roll Back Malaria	encourage regional and inter-sectoral collaboration, both public and private, at all levels, especially in education, agriculture, economic development and the environment to advance malaria control objectives

Frameworks for action (II)

FRAMEWORKS	ACTIONS
Sub-national and municipal frameworks	 Child Friendly City Initiatives (CFCIs) Strength the links between CC concerns and CFCIs to strength local capacity, adaptation & preparedness.
Local adaptation strategies and local action	 Reducing vulnerability and increasing local capacity Improving infrastructures Increasing awareness Strengthening organizational cooperation

5. Implications and Conclusions

5.1 Implications

- Centrality of children to the discussion of climate change and to human security
- 2. Children's issues are not yet well recognized or incorporated in environmental agendas
- 3. Children are key agents for social change
- Climate change is inextricably linked to the broader sustainable development agenda for children, poverty reduction and the MDGs
- 5. Lack of accurate age-specific data on children
- 6. Much of the health risk posed by climate change is avoidable or curable

5.2 Conclusions (I)

- 1. A <u>human rights-based approach</u> necessitates inclusion of children's issues
- Need to integrate the <u>children's agenda</u> into relevant intergovernmental processes
- 3. NAPAs and other regional and municipal adaptation plans should incorporate a children's dimension
- 4. Many <u>opportunities</u> exist for the international community to generate support for community empowerment, shared learning between countries and communities and field activities designed for results.

5.2 Conclusions (II)

- 5. Support is needed for improved <u>energy efficiency</u> and <u>conservation</u> and increased access to <u>clean household</u> <u>energy</u>
- 6. Partnerships are key
- 7. Need for <u>donor support</u> for the local actions of children and young people
- 8. Investment in infrastructure is essential
- 9. Further <u>approaches to research</u> on climate change and children should be explored

THANK YOU.

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