

F2F event of the Swiss NGO DRR Platform

Integrated floods management: Acting locally, linking beyond!

Report F2F - November 2015

1. Introduction

Water-related disasters account for 90% of all disasters in terms of number of affected people. At smaller scale, so-called extensive disasters of low impact, but high frequency are often even more relevant than rare big scale events, though less noticed. These hit local communities as well as private sector and literally wash away not only lives but also livelihoods assets, infrastructure and long-term efforts of local actors, development and humanitarian agencies, hampering a sustainable development. Nevertheless...

- Flood risks are relatively easy to be identified and communicated.
- Floods are often well documented, analysed and can be forecasted on different scales of time and space.
- Flood losses, especially from extensive events, can be efficiently reduced with simple measures.
- Floods, especially at concise scale, are manageable.

Flood risks and impacts might be significantly reduced by making use of according expertise of science and private sector and by mobilising synergies between different communities of practitioners. This shall be addressed through the following guiding questions of the workshop:

- Which kind of **information, tools and expertise of science and private sector** exist to limit and prevent floods and water related risks?
- What are **potentials and limitations** for its translation it into practice?
- What are **best practices** for more integral considerations, linking management of water as resource and disaster risk?
- How can water and DRR practitioners make better use of **synergies**?

2. Structure of the F2F event

The yearly F2F is the main event of the Swiss NGO DRR Platform. The event offers practitioners and interested experts to exchange good practices, to identify synergies and entry points for improvements to broaden the focus of local projects for a more integrated approach.

The event was structured into two parts

- I. A **workshop event** (one half-day, 10th and 11th Nov.):
 - Public: practitioners in DRR, WASH, water etc.
 - Content: presentation and discussion sessions.
- II. A **public event** (half day, 11th Nov.)
 - Public: anyone interested; representatives of key institutions of government, science, private sector, international community and civil society.
 - Content: Presentation by WMO, moderated panel discussion.

3. Documents and links

The following summary refers to key elements of the workshop with references (→) for further information, including [hyperlinked documents](#) for download from the Platform's website:

<http://www.drrplatform.org/index.php/11-events/28-f2f-registration>

Practitioners workshop: Day 1, 10th November 2015

1. Introduction

a) **Opening** by Kaspar Schmidt, Helvetas

b) **Presentation of participants**

- 43 participants from 20 Organisations registered for the practitioners' workshop.
- 8 member organisations of the Swiss NGO Platform were represented at the F2F
- 6 participants from abroad mainly from Asia (Pakistan, Nepal, Bangladesh, NL) participated
- With regards to the background the participants represented a balanced mix of about one third DRR practitioners, wash/water experts and others.

→ [Programme, participants' list, profiles of all participants and panellists](#)

c) **Introduction** presentation by Eveline Studer Helvetas

- Objectives and programme of the workshop
- Background on water related disasters, particularly floods

→ [Presentation](#)

2. The broader context

a) Potential and limitation of science and technology related to **meteorology/climatology**

By Paolo Ambrosetti, senior expert meteorology, climatology

- Different scales of time and space for models and forecasts
- Technical and cooperation aspects of early warning systems
- Aspects of climate change

→ [Presentation](#)

b) Potential and limitation of science and technology related to **hydrology, debris flow**

By Markus Zimmermann, senior expert DRR/NDR GmbH

- Interaction between hazard processes
- Social aspects of risk perception and reaction
- Reference examples from Tajikistan

→ [Presentation](#)

3. Approaches and examples for integrated floods management

a) **Associated Floods Management Project (AFMP)**

By Giacomo Teruggi, scientific officer Hydrological Forecasting and Water Resources Division WMO

- Example of an integrated floods management project at watershed level
- Website with publication material
- Help desk for advice and capacity building on specific topics

→ [Presentation](#)

→ www.apfm.info

→ www.floodmanagement.info

b) **Private sector expertise:** Examples and experience

by Christoph Haemmig, project manager GEOTEST

- Experience related to risk assessment, early warning systems and monitoring
- Examples from Georgia and China

→ [Presentation](#)

→ www.geotest.ch/en/kompetenzen/naturgefahren.html

4. Case studies: Best practice examples for integrated approaches and its lessons learnt

a) Community based flood forecasting and early warning dissemination

by BMM Mozharul Huq, Secretary General Bangladesh Red Crescent Society

- Institutional arrangements with local actors for a local early warning system
- Communication and information dissemination

→ [Presentation](#)

→ [Poster day 1](#)

b) Water User Master Plan (WUMP) a participatory planning tool to manage development and risks related to water

By Niraj Acharya, Water and Infrastructure Coordinator Helvetas

- Water User Master Plan as tool for integrated water resource management
- Integration of DRR/ACC aspects for sustainable management of local water resources.
- 5 phases: preparation, capacity building, assessment, planning and implementation.

→ [Presentation](#)

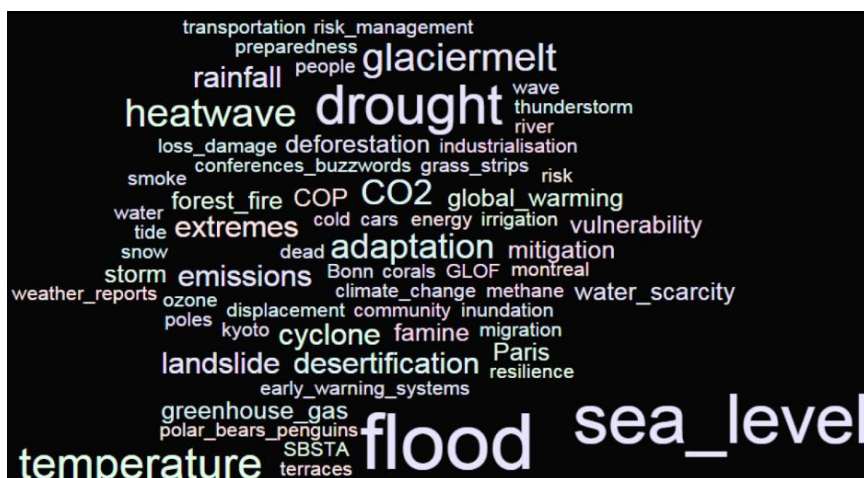
→ [Water Resources Management Programme, Helvetas Nepal](#)

→ [Factsheet WUMP](#)

5. Snap word exercise

by Knud Falk, Senior Technical Advisor Red Cross Climate Center NL (RCCC)

Counted words associated with the term "climate change".



6. Market place

Method: Participants could choose between two to three parallel poster presentations.

During sessions of 15 minutes a (project related) experience was presented with an according poster. Thereafter participants could ask questions and provide feedback in small group discussions with the presenters.

Day 1	Poster Title and presenter
Session 1	1.1.A. Integrated Water Resource Management Project (IWRM) Project in North West Bangladesh (Eva Syfrig, SRC)
	1.1.B. Mainstreaming DRR in WASH in Nicaragua (Sergio Perez Leon, SDC)
	2.2.C. How can we ensure Community Level DRR is Climate-Smart? Guiding Minimum Standards (Knud Falk, Red Cross Red Crescent Climate Centre)
Session 2	1.2.A. Flood hazard mapping (Neumann Ali, SDC)
	1.2.B. DRR in the blue diamond / IWRM (result of Aguasan 2015) (Agnès Montangero, Helvetas)

	1.2.C Early Warning system Bangladesh (BMM Mozharul Huq, Red Crescent Society Bangladesh)
Day 2	Poster Title and presenter
Session 1	2.1.A. DRR and Integrated Watershed Management in Muminabad, Tajikistan (Jana Junghardt, Caritas)
	2.1.B. Swiss Water and Sanitation Consortium (Agnès Montangero, Helvetas)
	2.1.C. Emergency flooding in refugees camp in Ethiopia- GIS (Andrea Cippà, SDC/SKH)
Session 2	2.2.A. Child-Centred Climate Change Adaptation (4CA) Southeast Asia Region (Isabel Sommer, Plan International)
	2.2.B. Evaluating DRR Projects; experiences with participatory approaches (Ana Maria Behn-Eschenburg, Innovabridge)
S 3	2.3.A. Community based DRR – resilience, Pakistan (Bilal Qureshi, SDC)
	2.3.B. Watershed management and development in Switzerland (Lukas Hunzinger, Flussbau AG)

➔ [Posters day 1](#); [Posters day 2](#)

7. World café

Method: Two sessions of world café were organized on the first and second day. For each session the participants could choose between four different table topics:

- Challenges & opportunities related to DRR-projects
- Adjustments & recommendations related to DRR-projects
- Challenges & opportunities related to water-projects
- Adjustments & recommendations related to water-projects

Based on a set of guiding questions, facilitated by a table moderator the groups discussed:

- How to integrate water resource management aspects into DRR projects?
- How to integrate DRR into water projects?

The key elements of the discussion was summarized on paper and its findings were represented on the second day in plenary and shared thereafter at the public event.

Findings: The following table summarizes the key elements of the world cafe discussions.

Challenges	Opportunities	Recommendations
<ul style="list-style-type: none"> • Need for more precise data, but also need for simple data for local understanding; • Different tools and approaches in water and DRR projects; • Conflicting interest which compete; • Different wording in DRR and water 	<ul style="list-style-type: none"> • Water is a hazard but also a service. • Local people's focus is naturally on a watershed level • Define incentives in DRR projects to bring communities to DRR activities • Co-benefits between DRR and livelihoods can contribute to sustainability 	<ul style="list-style-type: none"> • Risk assessment before implementation, linked to a flexible planning • Tools for implementation on awareness, information on floods and guidance for capacity building • Entry points: <ul style="list-style-type: none"> - Co-benefits (needs DRR elements) - Tactical entries (needs strategies) - Local skills (needs expertise) • Funding needs to diversified • Multiple partners should be involved • Longer time frames for DRR interventions • Use live cycle (long term) analysis to demonstrate positive effects of intervention • At local level: include a watershed approach • At village level: include interaction with semi-urban context • At community level: include local governments

Key elements of the discussion:
 Coping capacities
 Sustainability
 Resilience

The two table sets, which discussed “challenges & opportunities” and the others “recommendations” came up with very similar conclusions for DRR- and water projects: Concluding that there is scope for closer exchange and collaboration between DRR and water practitioners.

→ [Results of world café group discussions \(pictures\)](#)

8. Interactive decision-game “Paying for Predictions”

Evening session facilitated by Knud Falk, Senior Technical Advisor Red Cross Climate Center NL (RCCC)

- Speculation and investments in preparedness, forecasts and prevention measures
- Linking science, practice and fun!

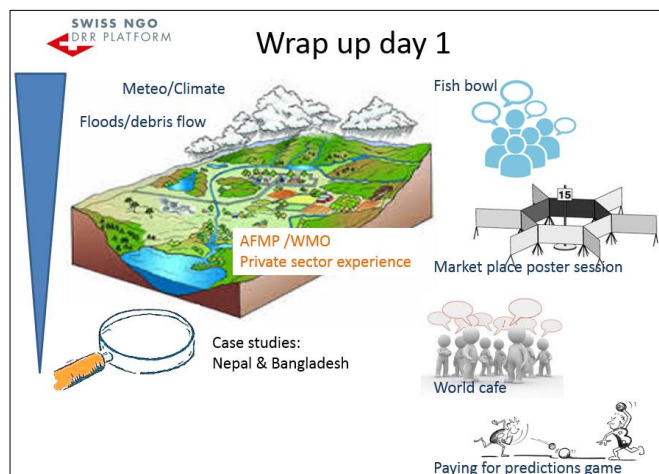
→ [RCCC](#)

→ <http://climatecentre.org/games>

→ [Paying for Predictions game](#)

Practitioners workshop: Day 2: 11th November 2015

9. Wrap up day 1



10. Experience sharing linking practice with science

By Knud Falk Senior Technical Advisor Red Cross Climate Center NL (RCCC)

- Wrap up of experience from paying for prediction game session
 - Experience in linking science, policy and practice
- <http://www.climatecentre.org/>
- <http://www.climatecentre.org/resources-games/minimum-standards>
- [Poster day 1](#)
- [Presentation](#)

11. Platform outlook 2016

Planned activities of the Swiss NGO DRR Platform; open to Platform members and any other interested institutions. F2F 2016 will be on DRR in Urban areas.

→ [Presentation](#)

→ [Further information online](#)

12. Take home message and closure

Participants’ take home message from the workshop (cf. picture) referred mainly to the following aspects:

- The inclusion of a wider range of **partners** and stakeholders is crucial.
- **Synergies** between different fields and according experts, practitioners are key.
- DRR interventions with **co-benefits** are attractive and should be promoted.

- **Local information, data** and adjusted, simple tools are required.



13. Workshop evaluation

The main elements of the collected feedback forms are summarized in the table below:

Overall satisfaction with the event:	Appreciated elements:	Suggestions for improvement:
<ul style="list-style-type: none"> • 20 participants fully satisfied • 8 participants rather satisfied • 1 participant partially satisfied 	<ul style="list-style-type: none"> • Networking opportunity • Mix of used methods • Logistics / venue 	<ul style="list-style-type: none"> • Longer event • More depth • More result oriented discussions

➔ [Workshop evaluation](#)

Public day: 11th November 2015

1. Summary and feedback from practitioners workshop

- Scope, participants, sessions
- Presentation results of world café (table section 7)
- Presentation take home message

2. Presentation WMO

Water disasters: Challenges and opportunities

by Johannes Cullmann / Director of the Climate and Water Department at WMO

- Disaster facts & figures
- Frameworks
- WMO initiatives
- Reflections on ways forward

➔ [Presentation WMO](#)

3. Panel discussion with interaction with public

- Johannes Cullmann / Director of the Climate and Water Department, WMO
- Andreas Götz / President Swiss National Platform for Natural Hazards (PLANAT)
- Nadia Benani/ Policy Advisor DRR and DRR network focal point at SDC Humanitarian Aid
- Sergio Perez / Programme Manager Water & Climate Change, Latin America and Caribbean Division at SDC Regional Cooperation
- BMM Mozharul Huq / Secretary General, Bangladesh Red Crescent Society.
- Markus Zimmermann/founder NDR consulting GmbH

Moderated by Rupa Mukerji Helvetas.

Key elements of the panel discussion:

- Switzerland's system on natural hazard management was initiated as response to various serious flooding events. It is based on a proactive multi-hazard approach: say-understand-do.
- The Swiss experience is of interest for neighbouring countries as well as developing contexts. For countries with very remote settlements, as Bangladesh, community based approaches proved to be most promising.
- For SDC DRR goes beyond risk reduction aiming at disaster resilient investments, coherent and action oriented frameworks. SDC integrated the DRR in its work of humanitarian aid, regional development and global programmes through DRR considerations in its programmes and projects. Promising experience was gained on the integration of DRR in WASH in Latin America. Knowledge is exchanged is key, based on thematic networks and exchanged amongst with according practitioners.
- The consideration of DRR and risk aware development has to be closely linked with livelihoods needs of local population considering local natural boundaries -such as watersheds. Security is not tangible, co-benefits of DRR interventions need to be identified as incentives, though success finally relays on a strong will from the local population.
- Experts of different sectors, such as DRR and water need to discuss and work together. There is a need for coherent information and frameworks, but also for practitioner oriented data and tools. Responsibilities need to be defined at all levels.
- Risk management goes beyond specific DRR interventions, it considers and deals also with hidden aspects and disaster impacts e.g. related to food security, job safety across sectors of health, agriculture, education, finances etc.

Annexes

A) Further information related to DRR & water, floods management

cf. Platform web-site:

- [DRR Terminology and concepts, with annexed literature list](#)
- [Practical References](#)
- [Background documents DRR & Water](#)

Institutions and networks

- UN Water <http://www.unwater.org/topics/water-related-hazards/en/>
- WMO DRR Programme <http://www.wmo.int/pages/prog/drr/>
- SDC RéseAU water network <https://www.shareweb.ch/site/Water>
- Swiss Water & Sanitation Consortium <http://waterconsortium.ch/>
- Swiss Water Partnership <http://www.swisswaterpartnership.ch/>

Projects and initiatives

- Aguasan COP workshop 2015 on Disaster Risk Reduction in WASH: Towards Resilience and Adaptive Management in the Water Sector <http://www.aguasan.ch/>
http://www.aguasan.ch/ws2015/AGUASAN_Workshop_2015_Briefing_Note.pdf
- Associated programme on floods management (AFPM), WMO <http://www.apfm.info/>

- http://www.apfm.info/?page_id=48
- Guide on Cities and Flooding: Integrated Urban Flood Risk Management, GFDRR
<https://www.gfdrr.org/sites/gfdrr/files/urban-floods/urbanfloods.html>
- Global floods resilience program Zurich Foundation <https://www.zurich.com/en/corporate-responsibility/flood-resilience>
- For a better livelihood in North western Pakistan - On the Road to Recovery (SDC/UNWFP Project)
<https://www.youtube.com/watch?v=-wnYudbs4XM>
- Water User Master Plan (WUMP), Helvetas Nepal (case study)
https://nepal.helvetas.org/en/programmes_projects/warm.cfm
https://assets.helvetas.ch/downloads/13_waterusemasterplan_wump_blau_final_engl_a4_portrait.pdf

Background documents

- Water and Disaster Risk: a contribution by the UN to the consultation for the 3rd UN World Conference on DRR (2014)
<http://www.preventionweb.net/english/professional/publications/v.php?id=38763>
- World Water Development Report (WWDR), UN World Water Assessment Programme
<http://unesdoc.unesco.org/images/0023/002322/232273e.pdf> (facts and figures 2015)
http://www.preventionweb.net/files/43492_waterfor.pdf (WWDR report 2015)
<http://www.unesco.org/new/en/natural-sciences/environment/water/wwap/wwdr/wwdr4-2012/> (WWDR 2012 Managing Water under Uncertainty and Risk)
- Water and disasters 2000-06, UN water (factsheet)
http://www.unwater.org/fileadmin/user_upload/unwater_new/docs/water_disasters.pdf

General information on DRR

DRR basics:

- Sendai Framework for Disaster Risk Reduction 2015-2030, UNISDR (2015).
www.wcdrr.org/uploads/Sendai_Framework_for_Disaster_Risk_Reduction_2015-2030.pdf
- UNISDR, Terminology on DRR, <http://www.unisdr.org/we/inform/publications/7817>

Country profiles with hazard/risk maps, disaster statistics and other documents on DRR:

- UNISDR Country profiles <http://www.preventionweb.net/english/countries/>
- Prevention web (of UNISDR): <http://www.preventionweb.net/english/>
- Global Assessment Report on DRR (UN ISDR)
<http://www.preventionweb.net/english/hyogo/gar/2015/en/home/index.html>
- World Disasters Report 2015 (IFRC) <http://ifrc-media.org/interactive/world-disasters-report-2015/>

Introduction movies DRR:

- Integrated Disaster Risk Management for A Resilient World: <https://vimeo.com/122963385>
- 10 things you should know about DRR: <https://vimeo.com/142153857>

DRR Networks/Platforms:

- Swiss NGO DRR platform: <http://www.drrplatform.org>
- SDC DRR network: <http://www.sdc-drr.net>
- Global Network of Civil Society Organisations for Disaster Reduction (GNDR) <http://www.globalnetwork-dr.org>

B) Programme F2F event 10/11th November 2015

Time	Content	Comments
Practitioners workshop		
10 Nov.	Tuesday	
9.00 - 9.45	<i>Introduction: setting the frame</i> <ul style="list-style-type: none"> Opening, presentation of participants (Kaspar Schmidt, Helvetas) Introduction to the workshop (Eveline Studer, Helvetas) 	
09.45 - 10.45	<i>The broader context: Potential and limitation of science and technology related to...</i> <ul style="list-style-type: none"> ...meteorology/climatology (Paolo Ambrosetti, senior expert meteorology, climatology) ...hydrology, debris flow (Markus Zimmermann, senior expert DRR/NDR GmBH) 	Presentations 20' Q&A 10'
30'	Network break	
11.15 - 12.15	<i>Approaches and examples for integrated floods management:</i> <ul style="list-style-type: none"> Associated Floods Management Project (AFMP) (Giacomo Teruggi, Scientific Officer, Hydrological Forecasting and Water Resources Division, WMO) 	Presentations 20' Q&A 10'

	<ul style="list-style-type: none"> Private sector expertise: Examples and experience (Christoph Haemmig, project manager GEOTEST) 	
12.15 - 12.30	Plenary discussion: Feedbacks and amendments related to science, technology and private sector.	Feedback and comments from participants
90'	Lunch	
14.00 - 15.00	<u>Case studies: Best practice examples for integrated approaches and its lessons learnt</u> <ul style="list-style-type: none"> Community based flood forecasting and early warning dissemination (BMM Mozharul Huq, Secretary General, Bangladesh Red Crescent Society) WUMP a participatory planning tool to manage development and risks related to water (Niraj Acharya, Water and Infrastructure Coordinator, Helvetas) 	Presentations 20' Q&A 10'
15.00 - 15.30	Fish bowl / plenary discussion: From a perspective of practitioners, field workers, beneficiaries...	
30'	Network break	
16.00 - 16.30	<u>Market place session 1 – rounds a, b</u> Two parallel presentation sessions, participants chose which one to join.	Cf. separate list with poster topics & schedule
16.30- 17.25	<u>World café round 1</u> - potential & challenges - adjustments & recommendations for DRR-projects and water-projects	4 groups elaborate on a set of questions
17.30	Pre-closure of day	
18.00	Dinner	
19.30- 20.30	<u>Interactive decision-game “Paying for Predictions”</u> http://www.climatecentre.org/resources-games/paying-for-predictions (introduced by Knud Falk, Senior Technical Advisor Red Cross Climate Center NL)	Game including elements of science, DRR, early warning
11 Nov. Wednesday (morning)		
8.30 - 9.15	Wrap up / introduction day 2 <u>Experience sharing linking practice with science</u> (Knud Falk, RCCC) <ul style="list-style-type: none"> Conclusions of game session day 1 Experience of Red Cross Climate Center NL 	Summary Plenary discussion Presentation RCCC
9.15- 10.00	<u>World café round 2 (rotation)</u> Rotation of groups, conclusion with key messages	preparation of public event
30'	Network break	
10.30 - 11.00	Feedback to plenary	
11.00 - 12.00	<u>Market place session 2 – rounds c, d, e</u>	continuation day 1
12.00 - 13.00	Take home message F2F workshop evaluation & closure of the workshop part	Feedback wall Evaluation spider
90'	Lunch	
11.11. Wednesday afternoon: Public event		
14.30- 15.00	Opening and wrap up of workshop findings (Rupa Mukerji, Helvetas)	
15.00 – 15.30	<u>Keynote presentation</u> Challenges and ways forward related to the nexus of disasters and water, its implication for practitioners by Dr Johannes Cullmann / Director of the Climate and Water Department at WMO	
15.30- 16.45	<u>Panel discussion</u> (incl. interaction with public): <ul style="list-style-type: none"> Johannes Cullmann / Director of the Climate and Water Department, WMO Andreas Götz / President Swiss National Platform for Natural Hazards (PLANAT) Nadia Benani/ Policy Advisor DRR and DRR network focal point at SDC Humanitarian Aid Sergio Perez / Programme Manager Water & Climate Change, Latin America and Caribbean Division at SDC Regional Cooperation BMM Mozharul Huq / Secretary General, Bangladesh Red Crescent Society. Markus Zimmermann/founder NDR consulting GmbH Moderation: Rupa Mukerji, Co-head advisory service and member management board of Helvetas	
17.00	Closure and apero	