3rd Meeting Task ForceWater & Climate UNECEWater Convention Geneva May 12th, 2010

The issue of water supply and sanitation in adaptation strategy to water cycle change

Luciana Sinisi, Italy

Chair

Task Force Extreme Weather Events

Protocol Water and Health to the UNECE Water Convention





THIS PRESENTATION

-TO SHARE LESSON LEARNED on GUIDANCE DEVELOPMENT:

- WHY WE NEED IT
- HOW WE DID IT
- WHAT DOES THE GUIDANCE ADDRESS

Guidance on Water Supply and Sanitation in Extreme Weather events

Task Force Extreme Weather events

Protocol on Water And Health to the UNECE Water Convention

LEADERSHIP: Italian Ministry of Environment

CHAIR: L. Sinisi, ISPRA Italy

Task Force Protocol W&H mandate: Work programme 2007-2009 Protocol Water & Health

- A) Share experience on the safe operation of facilities for, and maintenance of adequate, water supply and sanitation in short-term critical situations (e.g. floods and extreme given prevalent local conditions temperatures) and develop guidelines to respond to such situations.
- B) Develop strategies to satisfy water supply and sanitation needs in the long term, given the potential impacts of climate change and the need for adaptation and mitigation programs.

Further mandate by Joint Bureaux:

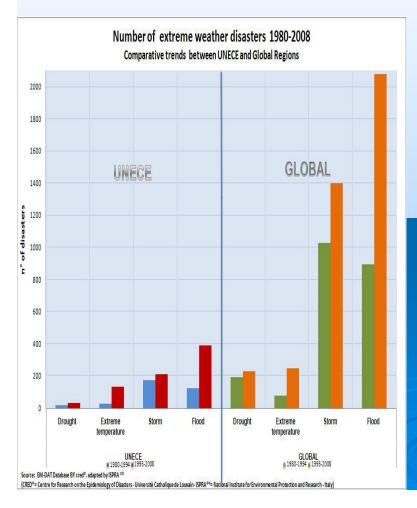
Cooperation with UNECE Task Force Water and Climate

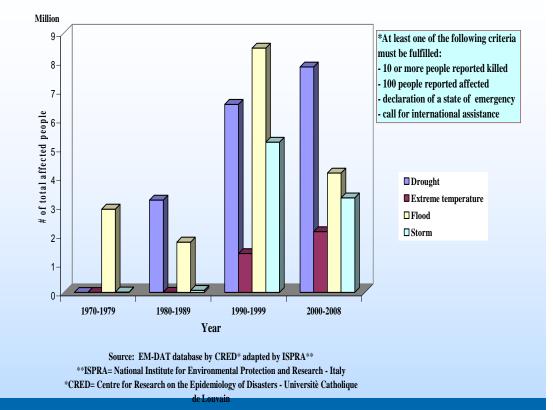
Development of guidance on water supply and sanitation in extreme weather events

- April 2008, 1st Task Force meeting, Rome
- October 2008, Madrid First meeting of the ad hoc Drafting group
- February 2009, Rome Second meeting drafting group
- May 2009 1st draft of the guidance to be translated in Russian
- July 2009 presentation of the guidance to the Protocol WG Water and Health
- → July Sept 2009 Circulation of the draft for comments and review
- → October 2009 Document discussion at the Second Meeting of the Task Force
- → November 2009 Presentation Guidance EUWI ECCA meeting, Bucharest,
- January 2010 Guidance discussion EUREAU water and climate experts, London
- March 2010 . Presentation of the Guidance (working Document) to the Environment and Health Ministerial Conference
- May 2010 Presentation at Protocol Working Group Water & Health
- ▲ 30 June 2010 Deadline for final comments/additions
- ▶ Fall 2010 Final Endorsement 2nd Meeting of the Parties (Protocol)

>WHY WE DID IT

EXTREME EVENTS are hitting the Region





Extreme events in the Region: trends and social impacts

38 millions of people affected in the past 20ys - disasters ONLY

WATER SUPPLY & SANITATION in EXTREMES

- (largely) affects environmental water(<u>s</u>) protection and management policies
- Is a crucial environmental health determinant under climate variability
- high vulnerability of technical performance in extremes, including transboundary impacts
- Is still a main & costly challenge in EU and the Region
- Water & climate challenges are shared with private sector





WATER QUALITY

WATER & FOOD
RELATED
DISEASES
PREVENTION

It is not just a delivery service issue

L. Sinisi, ISPRA

>HOW WE DID IT

Looking for partnership in adaptation

- 1. Integration with IWRM policies & planning on the field
- 2. Integration with health professionals in adaptation planning (emerging health risk, public communication, vulnerability of health services)
- 3. Involvement of utilities managers in disaster preparedness (early warning, land use, capacity building, personnel training, Technology investments & choice)
- 1. IWRM: partnership TF Water & Climate of UNECE Water Convention
- 2. Health sectors & WHO among contributors
- Emerging health risk management as key issue in adaptation measures
- 3. UTILITIES managers as main target audience
- Utilities directly involved in drafting, key chapters on adaptation measure

WHAT DOES THE GUIDANCE ADDRESS

ADAPTATION VULNERABILITIES & CHALLENGES

Address management "system" vulnerabilities

Address risk management issues

- CHALLENGES AWARENESS
- KNOWLEDGE/TECHNOLOGY TRANSFER & IMPLEMENTATION
- SUB REGIONAL DIFFERENCIES in CLIMATE VARIABILITY
- EMERGING NEW environment and health RISK
- MANAGEMENT IN EXTREMES:
 e.g. link to IWRM, land use

"In the countries of Eastern Europe, Caucasus and Central Asia problems of access to water services are rooted in the history of that Region"

Source: "Financing water supply and sanitation in EECCA Region" Nov 2005, Armenia (OECD, 2005))

Guidance structure

- > RISK MANAGEMENT
- Environmental vulnerabilties
- Health vulnerabilities

- > WSS SYSTEM
 VULNERABILITY
- > Utilities management
- > Preparedness
- Communication and information

Three rules management

IMPROVE WHAT YOU'RE DOING

PROTECT WHAT YOU HAVE

MANAGE WHAT YOU DON'T HAVE

Guidance brochure at 5th Ministerial E&H Conference – Protocol Day





GUIDANCE ON WATER SUPPLY AND SANITATION IN EXTREME WEATHER EVENTS



CONCLUSIONS

- Recurrent adverse weather events are hitting the Region
- Water quality/availability impacts are strictly linked to WSS
- WSS should be included in adaptative risk reduction strategies and water management adaptation strategy
- Technology transfer and implementation is an urgent issue
- Utilities managers should get involved in the overall process



WATER SUPPLY AND SANITATION

UNDP 2006 Human Development Report (HDR).

more action to realize the MDG 7 target 10 about water and sanitation..)

"Like hunger, it is a silent emergency experienced by the poor and tolerated by those with the resources, the technology and the political power to end it"

Thank you luciana.sinisi@isprambiente.it