

Programme Area 7 – Increasing resilience to climate change

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Protocol on Water and Health



1. Why is this area of work important for the pan-European region

The protection of health and the reduction of water related diseases would require:

Improving the resilience of communities to water related disasters (droughts and floods) and water scarcity. Including by

- ✓ Building evidence
- ✓ Contingency Planning to prevent health emergencies.
- ✓ Response preparedness to deal with health emergencies
- ✓ Building awareness and capacities
- ✓ Taking specific measures such as improving efficiency, surveillance and Wastewater reuse
- ✓ Other

Links to other work

- * Links to previous and current Protocol work
 - * *“Guidance on Water Supply and Sanitation in Extreme Weather Events”*
 - * *WSP and SSP approaches to extreme events in programme area 5 and dealing with health outbreaks in programme area 2.*
- * *Links to other work*
 - * *EU Guidance/Good practices compendium on wastewater reuse*

Link with the SDGs

- ✓ Target 6.3 to increase recycling and safe reuse of wastewater
- ✓ Target 6.4 to increase water use efficiency, ensure sustainable withdrawals and supply of freshwater to address water scarcity
- ✓ Target 11.5 to reduce the number of deaths and the number of people affected and decrease the direct economic losses caused by disasters, including water related disasters, with a focus on protecting the poor and people in vulnerable situations.
- ✓ SDG13 to combat Climate Change and its impacts

In agreement with the Sendai Framework on Disaster Risk Reduction, the Paris agreement and the outcome of the Marrakesh COP 22.

Impacts beyond Protocol work

✓ Identified

- Synergies with the ECE Committee on Housing and Land Management on resilience and healthy human settlements.
- Adaptation to CC in transboundary water of the UNECE Water Convention
- Activities under the European Environment and Health Process on Cities and CC
- WHO Healthy Cities Network

✓ Others

- Cities and Climate Change Initiative/City Climate Action – UN-Habitat

Possible Partners

- * European Commission
- * International Water Association (IWA)/Eurau/National utilities associations
- * Water Convention
- * ICLEI
- * OECD
- * UN- Habitat
- * UN-ISDR
- * WHO
- * WMO and national meteorological authorities
- * Others ???

2. Major milestones in this area under the Protocol

1 *Building Capacity to deal with water scarcity and its health impacts*

- * Regional Workshop: a) collect evidence of water scarcity b) Identify good practices and LL in WRM including g wastewater reuse (Inst, policy, scientific, technological) 2017.
- * Links to programme area 5.

2 *Exchanging Experience on Building Resilience and Climate Change in Urban Areas*

- * Joint Symposium with programme area 5 – Holland April 2017
- * Preparatory or follow up meeting/workshop in Madrid (Spain),
- * Regional Conference, Venice 2017 under the G7 umbrella (Italy and Spain, et al)

What contributions from the programme area

- * 1 Analysis of the relationship between water quality parameters and extreme events and in the context of Climate Change (irregularity and variations).
 - * Develop a survey template (to be discussed in Holland)
 - * Statistical analysis (to be discussed at the prep meeting)
 - * Evidence data base (Venice meeting)
 - * Cases

- * 2 Approaches to introduce specific elements related to CC resilience in WSP
 - * Integrate CC related hazards in the Risk Matrix of WSP
 - * Including control, planning and response measures – through case studies-

- * 3 Evidence base on Financial impacts for WSS systems

- * 4 UNECE Strengthen synergies with other relevant initiatives and programme areas of the protocol on resiliency of water systems to CC related events. For example + water efficiency, ww reuse criteria/practices

Estimated costs

| <i>Fraction of staff time^a</i> | <i>Item</i> | <i>Estimated costs</i> |
|---|--|------------------------|
| | Organization of a regional workshop on water scarcity and water resources management, including water reuse | 50 000 |
| | Organization of a regional workshop on increasing the resilience of cities to water-related disasters (disaster preparedness and response, adaptation, wastewater management, recycling and reuse) | 50 000 |
| 0.30 | ECE P-3 staff time per year for three years | 166 300 |
| 0.10 | ECE G-4 staff time per year for three years | 42 800 |
| 0.02 | WHO/Europe P-5 staff time per year for three years | 14 600 |
| 0.02 | WHO/Europe P-4 staff time per year for three years | 12 300 |
| | | 336 000 |

3. Suggestions for the future work in this area

Your suggestions?
Your involvement?

Tentative agenda for Venice meeting

Day 1

Morning

- * Intro on CC and meteorology
- * Political steps and SDGs
- * Institutional set up and extreme events
- * Financial impacts

Afternoon

- * Evidence on relationships between extreme events in the context of CC
- * Data base and statistic analysis results
- * Case studies

Day 2

Morning

- * Approaches on control, and response measures
- * Specific approaches such as Wwreuse

Afternoon

- * Case studies
- * Closing

Tentative contents for the prep-meeting

- * Agree modifications to the survey template (including financial impacts)
- * Agree on sample and stratification (i.e: small scale systems, et al).
- * Agree on outcomes and process.
- * Select and discuss case examples
- * Agree on partners and organization of work
- * What info would be useful from and for other programme areas