



**UNITED NATIONS
ECONOMIC
COMMISSION FOR
EUROPE**

**WORLD HEALTH
ORGANIZATION
REGIONAL OFFICE FOR
EUROPE**

**Meeting of the Parties to the Protocol on Water and Health to
the Convention on the Protection and Use of Transboundary
Watercourses and International Lakes**

Working Group on Water and Health

Fifth meeting

Geneva, 11-12 October 2012

Item 5 of the provisional agenda

Information paper 5

Progress report on the work on small scale water supplies and sanitation

Prepared by the lead Parties of the activity

The cross-cutting issue “Small-scale water supplies and sanitation” was approved by the second Meeting of the Parties to the Protocol on Water and Health to the Convention on the Protection and Use of Transboundary Watercourses and International Lakes (MoP) in Bucharest(23-25 November 2010), as part of the work programme of the Protocol for 2011-2013. The activity, as outlined in the programme, focuses on 4 activity areas:

- Development of a policy and guidance document
- Improvement of the evidence base on the current status of small-scale water supplies
- Water safety plans and water and sanitation plans for schools
- Networking and sharing of experience.

Germany, the Czech Republic and the non-governmental organisation Women in Europe for a Common Future (WECF) lead this activity.

I – Dissemination of questionnaire on small scale water supplies

Based on the comments received during and after the last meeting of the Working Group on Water and Health (WGWH) in November 2011, the lead Parties finalised a questionnaire for requesting information on small scale water supplies from countries in the pan-European region by 2 February 2012.

The Regional Office for Europe of the World Health Organization (WHO EURO) and the United Nations Economic Commission for Europe (UNECE) agreed on the distribution mechanism of the questionnaire, and drafted cover letters for the distribution. WHO EURO facilitated translation of the

questionnaire into Russian and disseminated it to ministries of health, ministries of the environment, and WHO Country Offices of the European region in June 2012. The deadline for responding to the questionnaire is 10 October 2012.

As dissemination of the questionnaire, which was initially planned for February 2012, was delayed, completion of data analysis and assessment is now assumed to be completed by mid-2013.

At the time of writing this progress report, 16 questionnaires have been returned. A copy of the final questionnaire is annexed to this briefing note (Annex I).

II – Drafting of the policy document

Based on the comments received during and after the last meeting of the Working Group on Water and Health in November 2011, the lead Parties further developed the outline of the policy guidance document “Small-scale water supplies and sanitation (SSWSS) in the pan-European region: Policy instruments and programs towards improvement”. Members of the expert groups on drinking water and sanitation, which were established at the extended lead Party meeting (Berlin, June 2011) have started drafting chapters for this document, and the development of chapter texts and case studies is ongoing. Collaboration has been established with the programme areas on equitable access and on target setting and reporting. Representatives of those activities are also actively contributing to the development of the policy guidance document.

Lead parties are still seeking contributions to the document, particularly case studies for sharing positive experiences of policy instruments already applied to improve the situation of small scale water supplies and sanitation. They would like to invite and encourage members of the WGWH to provide such text contributions.

Since this activity started, progress has been slower than initially expected. Lead Parties of the activity assume that this is, amongst other reasons, due to a lack of resources which makes voluntary contributions of members of the expert groups challenging. The lead Parties of this activity would like to thank all those who contributed to the development of the document.

Since the last WGWH, no further expert group meeting was conducted. Currently, the lead Parties are seeking funding options for holding a next expert group meeting in the first quarter of 2013. At this meeting, the draft of the policy guidance document is to be critically reviewed and the steps towards final publication defined.

Lead Parties envisage that a consolidated peer reviewed draft of the policy guidance document will be presented to the next Meeting of the Parties to the Protocol in 2013.

The current table of contents of the policy guidance document is annexed to this briefing note (Annex II).

III – Translation of WHO guidance on Water Safety Planning for Small Community Water Supplies

In July 2012, WHO headquarters published the guidance document *Water Safety Planning for Small Community Water Supplies. Step-by-step risk management guidance for drinking-water supplies in small communities* in English. The manual is designed to engage, empower and guide rural communities in the Water Safety Plan (WSP) development and implementation process, and to capacitate responsible government institutions to support WSP. The WSP approach, as recommended by the *WHO Guidelines for Drinking-water Quality*, presents the most effective means of consistently ensuring the safety of drinking-water supplies.

In order to better facilitate the application of the WSP approach in small scale water supplies in the Eastern Europe, Caucasus and Central Asia (EECCA) region, WHO EURO and Germany put efforts

to disseminate the publication in Russian. Germany funded the translation of the document into Russian, as well as the printing and distribution of the document to the countries. The funding was provided under the Advisory Assistance Programme for Environmental Protection in the Countries of Central and Eastern Europe, the Caucasus and Central Asia of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), and realised together with WHO EURO.

Electronic versions of the document can be downloaded in English and Russian at http://www.who.int/water_sanitation_health/publications/2012/water_supplies/en/index.html and http://www.who.int/water_sanitation_health/publications/2012/water_supplies/ru/index.html, respectively.

IV - Field projects and further activities

According to the current Protocol's work programme, it is planned to conduct a number of field projects. However, the lead Parties rate them as optional due to budget constraints. Nevertheless, a number of field projects on small-scale water supplies and sanitation could already be initiated or finalised, respectively.

1. In Georgia, a project on rapid assessment of drinking-water quality in small scale water supplies has been completed in 2012. The project established a baseline analysis with respect to drinking-water quality and sanitary conditions in small-scale water supplies in two pilot districts. As part of this project, local authorities were trained, awareness-building materials developed, outreach programmes to the communities conducted and WHO guidance documents translated and disseminated to relevant stakeholders. The project was funded by the German Advisory Assistance Programme of the BMU, and technically supported by the WHO Collaborating Centre (CC) for Research on Drinking Water Hygiene at the German Federal Environment Agency (UBA). The results of the assessment will serve as an evidence base for future development of legislation and norms on drinking-water quality. They will also be used to bring the issue of capacity building for drinking-water quality surveillance and prevention of water-related diseases, particularly for small-scale water supplies, on the priority agenda of the national and local government.

2. In Tajikistan, a pilot project on implementation of WSP demonstration projects in small-scale water supplies in rural areas has been initiated in 2011 in the frame of the Climate Change and Health project funded by Germany under the BMU project. The demonstration project aims at developing two WSP, building respective capacities in national authorities, training facilitators for further WSP implementation and developing adapted supporting tools for the national context. At the request of WHO EURO and the WHO country office Tajikistan, the WHO CC at UBA provided technical support through on-site missions and trainings for national and local authorities. As a key outcome, a booklet documenting advantages of WSP application and national success stories, as well as providing practical tools supporting WSP implementation, will be developed under the project and distributed in Tajikistan.

3. In Bulgaria, WECF together with Bulgarian partners is implementing a WSP project in 5 Bulgarian villages with the involvement of the local schools and authorities from August 2011 to October 2012. One of the outputs will be a WSP compendium in a ring binder with educational modules. This document will provide detailed background information on several water issues and guidance for the implementation of WSP. The target groups of the project are schools, youth groups and NGOs. At a later stage, the WSP compendium will be adopted for usage by, for example, the administration of small communities and water user unions. The project receives financial support of the German Federal Environment Foundation (Deutsche Bundesstiftung Umwelt - DBU).

In order to facilitate enhanced regional networking among those responsible for regulating small scale water supplies and sanitation, lead Parties are currently exploring options for holding and funding a meeting of the WHO International Small Community Water Supply Network (ISCWSN) in the EECCA region in 2013.

IV - Way forward

The lead Parties ask the WGWH to support completion of the questionnaire in the countries where this has not yet happened.

The lead Parties invite the WGWH to contribute case studies to the policy guidance document.

Lead parties and contributing parties will continue to identify options for funding and hosting of future meetings of the established expert groups.

Lead parties and contributing parties will continue to identify options for funding pilot projects.

Annex I

Protocol on Water and Health

Questionnaire on Small-scale Water Supplies in the pan-European Region

Background

The overall aim of this survey is to improve the evidence base on the current status of small-scale water supplies (SSWS) in the pan-European region. This survey is part of the Work Programme 2011-2013 of the Protocol on Water and Health (details see www.unece.org/env/documents/2010/wat/MP_WH/wh/ece_mp_wh_2010_L1_E.pdf). Through systematic data collection, this questionnaire shall improve current knowledge on the number and status of small-scale water supplies, including data on drinking water quality and regulatory information. Addressees of the survey are countries from within the entire pan-European region which are Parties to the Protocol but also non-Parties. The objective of the survey is **NOT** to compare the situation in single countries against a defined ideal state but to get an overview of the status quo throughout the region.

As contribution to the previous Programme of Work 2007-2009 of the Protocol, the Federal Environment Agency (UBA), WHO Collaborating Centre for Research on Drinking Water Hygiene, Germany, hosted a workshop on 'Water Safety in Small Scale Water Supplies in the European Region: Common Challenges and Needs' (Bad Elster, 26-27 November 2008). Based on the workshop recommendations and outcomes, UBA together with WHO and UNECE developed the awareness-raising document "Small-scale water supplies in the pan-European region: Background, challenges, improvements" (available online at www.euro.who.int/_data/assets/pdf_file/0018/140355/e94968.pdf). As part of this document, data on the current evidence base was collected. Whereas data was provided from numerous countries, however, it proved to be not systematic and not easy to be compared.

At this stage, there is no established (mandatory) mechanism within the pan-European region which facilitates systematic collection of information on small-scale water supplies. For successfully rolling-out this exercise, we therefore rely on you as the focal point of a Party to the Protocol or representative of a WHO Country Office, on your input and cooperation, and we are grateful for your support of this exercise.

The results of this questionnaire will be used and published within the context of the Protocol on Water and Health. They will notably feed into a policy guidance document on small-scale water supplies in the pan-European region which is currently being developed as part of the Protocol's Programme of Work. Participation in this survey implies agreement with the making public of the information provided by the questionnaire in a consolidated format, its usage and analysis for the preparation of the policy guidance document.

Completing this questionnaire is an exercise likely requiring inter-sectoral collaboration in the countries, particularly between national and regional authorities, as well as between authorities of the health and environmental sector. You are therefore invited to consult with your respective colleagues to fill in the information.

The following sections of the questionnaire include questions for which the answers can be included in the cells / tick boxes in the respective sections, as well as open questions asking for explanatory text. Please feel free to use additional pages for answering the questions, if required. You are welcome to type the information into the electronic file. For each of the sections II – V, please indicate when requested in the tick boxes whether national data on this area is available.

In case you have data available for your country which does not relate to the categories requested in this questionnaire, or only for parts of your country (e.g. from studies targeted at a limited area or a limited number of supply categories etc.) please do not hesitate to provide this information separately and specify the kind of supplies and conditions this information refers to.

Definitions

For the purpose of this questionnaire, the following definitions apply:

Small-scale water supply (SSWS): all drinking-water supplies serving less than 5,000 persons or supplying less than 1,000 m³ water per day; this category includes both ‘individual supplies’ and small ‘public supplies’ (as per definitions below).

Public water supply: piped drinking-water supplies or non-piped sources (e.g. public wells or springs) which are managed and operated by a distinct ‘organized’ public or private entity, such as water utilities, municipalities, village communities, associations, joint boards or cooperatives, for example, and which are specifically mandated with the task of drinking-water supply as one of their main tasks and which typically employ staff that has a minimum level of professional training. Typically such supplies serve more than 1-2 premises. They may also supply commercial premises (e.g. hotels, restaurants, food production) with drinking-water.

Individual supply: groundwater well or spring source or surface water intake supplying drinking-water to typically 1-2 premises. The supply is typically managed by one individual in his/her own responsibility who is not a water professional. Individual supplies may also serve more than 1-2 premises (e.g. in hamlets). They may also supply commercial premises (e.g. hotels, restaurants, food production) with drinking-water.

Please note that the definitions above are intended to guide understanding and completion of this questionnaire. However, we do appreciate the fact that definitions of small-scale water supplies may vary significantly in the different countries. Therefore you are welcome to specify precise definitions of small-scale water supplies applicable in your country in section I C below.

I. Regulations

I.A What legislation and regulations apply in your country to drinking-water supplies (e.g. regarding quality of drinking-water, surveillance, management, protection of drinking-water resources)? Please name the specific legislation or regulation.

I.B Which institution(s) are responsible for regulating water supply in your country?

- Ministry of Health Ministry of Environment Other

Please specify "Other". Please specify the responsibilities of the different institutions, and approach of coordination between them.

I.C How are small-scale drinking water supplies defined in your country (several of the following tick boxes may apply)?

- By type of management (public / individual supplies)
 Based on the amount of water supplied
 Based on the population served

Please specify details and give the definitions for small-scale water supply categories.

I.D Please specify in how far legal and regulatory requirements (see I.A) also apply to small-scale water supplies (i.e. individual or public water supplies)?

- All requirements apply to public small-scale water supplies
 All requirements apply to individual supplies
 None of the requirements apply to public small-scale water supplies
 None of the requirements apply to individual supplies
 The following requirements do NOT apply to small-scale water supplies (*please specify*):

I.E In addition to legislation and regulations, what other, non-statutory guidance is in place in your country relevant to drinking-water supply (e.g. technical standards, codes of good practice)? Please name the specific guidance materials.

I.F Is regular independent drinking-water quality monitoring and/or sanitary inspection required for small-scale water supplies (e.g. by mandated public health offices)?

Yes No Only for certain categories of SSWS

Please specify below for which categories monitoring/inspection is required. Please specify requirements per supply category in terms of

- a) Water quality parameters to be monitored and monitoring frequency
- b) Sanitary inspections¹ and their frequency
- c) Authority responsible for the surveillance

Who pays for the surveillance?

Authority Operator

I.G Is regular self-checking by operators of small-scale water supplies required?

Yes No Only for certain categories of SSWS

Please specify below for which categories self-checking is required.

Please specify requirements per supply category in terms of

- a) Water quality parameters to be monitored and monitoring frequency
- b) Sanitary inspections required and their frequency

¹ Sanitary inspections are visual assessments of the infrastructure and environment surrounding a water supply. They assess risk to water safety by taking into account the condition, devices, and practices in the water supply system that pose an actual or potential danger to the health and well-being of the consumers. Sanitary inspections are complementary to water quality analysis.

I.H Is regular reporting on drinking-water quality required for small-scale water supplies at the national level?

Yes No

If yes, please specify for what supply categories reporting is required, and for which parameters.

I.I Are there any regulations for source water protection measures in small-scale water supply catchments?

Yes No

If yes, please specify and include which bodies are responsible for the enforcement.

I.J Do epidemiological data exist indicating outbreaks specifically related to small-scale water supplies?

Yes No

If yes, please provide details on epidemiological data and/or outbreaks.

I.K Is there active coordination and cooperation between the institutions responsible for small-scale water supplies and those responsible for sanitation at national and/or local level?

Yes No

If yes, please specify which institutions are involved, and how this coordination/cooperation mechanism operates.

II. Information on numbers of small-scale water supplies in your country

II.A Information on number of small-scale water supplies (*preferred format*)

Is data on small-scale water supplies available for your country?

Statistical data or expert estimates available No information available

If data for the suggested supply categories below is not available in your country, please go to sections II.B and II.C.

Supply category	Total number of supplies	Total number of persons served
501-5,000 persons		
51-500 persons		
< 50 persons		

What is the basis for the figures given in the table above?

Statistical data Estimates / expert judgment

II.B Information on number of individual supplies

Is data on individual supplies available for your country?

Statistical data or expert estimates available No information available

If data is available, are numbers of individual supplies already included in the figures given in the table in section II.A?

Yes No

In case data is not included in the table in section II A, please include figures in the following table.

Supply category	Total number of supplies	Total number of persons served
Individual supplies		

What is the basis for the figures given in the table above?

Statistical data Estimates / expert judgment

II.C In case you cannot provide data according to the format given in the Tables in sections II.A and II.B above, please provide information on number of small-scale water supplies in any format / category available in your country.

Supply category	Total number of supplies	Total number of persons served
Other category 1:		
Other category 2:		
Other category 3:		

What is the basis for the figures given in the table above?

- Statistical data Estimates / expert judgment

II.D What percentage of the total population of your country is covered by public water supplies (including large AND small-scale water supplies, excluding individual supplies)?

Total population of your country: _____

Percentage of population served by public water supplies (%): _____

What is the basis for the percentage given above?

- Statistical data Estimates / expert judgment

III. Information on raw water sources used by small-scale water supplies in your country

III.A Information on raw water sources used by small-scale water supplies

Is data for small supplies available for your country?

Statistical data or expert estimates available No information available

If no information is available, please go to section III.B. If data is available, please complete the following table, using the 'supply categories' established in sections II.A or II.C, respectively.

Water source	Supply category	Proportion of supplies (%) ²	Proportion of persons served (%) ³
Groundwater ⁴			
Spring water ⁵			
Surface water (incl. lakes, rivers, reservoirs)			
Other (please specify)			

What is the basis for the figures given in the table above?

Statistical data Estimates / expert judgment

² Proportion of total number of supplies given in tables in sections II.A or II.C, respectively.

³ Proportion of total number of persons served given in tables in sections II.A or II.C, respectively.

⁴ Water contained beneath the surface in rocks and soil and that accumulates underground in aquifers, typically abstracted through dug wells, boreholes and tubewells.

⁵ Springs are places where water that has been filtered through soil and rock reappears from underground.

III.B If no data can be provided in section III.A, please give information on raw water sources used by all water supplies.

Water source	Proportion of supplies (%)	Proportion of persons served (%)
Groundwater ⁶		
Spring water ⁷		
Surface water (incl. lakes, rivers, reservoirs)		
Others (<i>please specify</i>)		
Others (<i>please specify</i>)		

What is the basis for the figures given in the table above?

Statistical data

Estimates / expert judgment

⁶ Water contained beneath the surface in rocks and soil and that accumulates underground in aquifers, typically abstracted through dug wells, boreholes and tubewells.

⁷ Springs are places where water that has been filtered through soil and rock reappears from underground.

IV. Information on operators and organization of small-scale water supplies in your country

IV.A Qualification

- i. Are there any minimum qualification or competence requirements for operators of small public water supplies?

Yes No

If yes, please specify.

If yes, please estimate the proportion of small public water supplies that are managed and operated by qualified personnel meeting the minimum requirements:

Proportion of supplies (%): _____

Proportion of population served by these supplies: _____

- ii. Are there any relevant qualification or training programmes for operators of small public water supplies?

Yes No

If yes, please specify.

IV.B Please give an estimate of the percentage of small public water supplies in your country managed and operated by a public or private entity (such as water utilities, municipalities, associations, joint boards, cooperatives).

Statistical data or expert estimates available No information available

Proportion of supplies (%): _____

Proportion _____ of _____ population _____ served by these supplies: _____

What is the basis for the figures given above?

Statistical data Estimates / expert judgment

V. Information on the quality of drinking-water provided by small-scale water supplies in your country

The table below is an optimum format for quality data requested, and we are aware that country data will not always be available in this format and level of detail. Therefore, please feel free to provide data in any alternative format. For example, you may provide summary data for several years or several categories of supply sizes, estimates of data ranges for parameters (minimum, maximum, average value) etc. We appreciate any information we get!

For each parameter, please specify the year given data refers to, the size category of supplies sampled (please specify [persons supplied] or [m³/day]), the total number of supplies in this category which were sampled, the number of analyses, national standard values and the level of compliance with parametric values applicable in your country.

Please report at least on parameters that are of major concern in your country. Further parameters may be added to the table below.

In case you do not have any quality data for small-scale water supplies, please indicate this.

Statistical data or expert estimates available No information available

Parameter	Reference year(s)	Supply size category ⁸	Number of supplies ⁹	Number of analyses ¹⁰	National standard value ¹¹	Level of compliance with national standard in supply size category (%) ¹²	Level of compliance with national standard for all water supplies in country (%)
Escherichia coli ¹³							
Enterococci							
Fluoride (F)							
Nitrate (NO ₃)							

⁸ Please specify for which supply size category the given data set was collected. Please also specify supply size category by persons supplied or volumes served per day (m³/day).

⁹ Please specify the number of supplies subject to this data set. Do NOT provide the total number of supplies of this category present in your country, unless all supplies are covered by the data set.

¹⁰ Please provide the total number of samples analyzed within this data set. This figure may differ from the figure given for 'number of supplies'.

¹¹ Please give the national standard value for the parameter that compliance was compared against. Please also give the unit of the value.

¹² Please provide the percentage of samples analyzed which meet the national standard value given for the respective parameter.

¹³ If another faecal indicator is applied for identification of faecal contamination (e.g. thermotolerant coliforms, faecal coliforms), please specify. Please then also provide the respective national standard value and level of compliance with this value.

Parameter	Reference year(s)	Supply size category ⁸	Number of supplies ⁹	Number of analyses ¹⁰	National standard value ¹¹	Level of compliance with national standard in supply size category (%) ¹²	Level of compliance with national standard for all water supplies in country (%)
Arsenic (As)							
Iron (Fe)							
Manganese (Mn)							
Other (please specify):							
Other (please specify):							
Other (please specify):							

What is the basis for the figures given in the table above?

Statistical data

Estimates / expert judgment

VI. Additional information

If you wish, please include any additional information you would like to communicate with respect to small-scale water supplies in your country, including, for example,

- particular challenges with respect to the implementation of the existing regulations;
- ‘success stories’ with respect to institutional coordination towards improving small-scale water supplies;
- currently planned changes of legislation;
- national or regional programmes;
- national or regional priorities for improving the situation of small-scale water supplies.

VII. General information

Country concerned	
Name of contact person	
E-mail address	
Telephone number	
Organization	
Position within organization	

Signature

Please return a signed copy of the questionnaire by mail and a scanned electronic copy by e-mail at the latest by 31 August 2012 to:

Bettina Rickert

E-mail: bettina.rickert@uba.de

Phone: +49 (0) 37437 76 256

Fax: +49 (0) 37437 76 219

Federal Environment Agency (Umweltbundesamt - UBA)

Section II 3.1: General Aspects of Drinking-Water Hygiene

WHO Collaborating Centre for Research on Drinking-Water Hygiene

Heinrich-Heine-Strasse 12

08645 Bad Elster, Germany

If you have any questions, please do not hesitate to get in contact.

Thank you very much in advance for your input and support!

Annex II

Small-scale water supplies and sanitation (SSWSS) in the pan-European region Policy instruments and programs towards improvement

1. Background information

- 1.1. Definitions of SSWSS
- 1.2. The Protocol on Water and Health
- 1.3. Small-scale water supply and sanitation: current challenges and barriers
- 1.4. Equitable access to drinking water and sanitation

2. This document

- 2.1. Target groups: who are the primary addressees?
- 2.2. Scope, goal and application of the document: what can you expect from it?

3. Explicit policy

- 3.1. Responsibility of policy makers
- 3.2. Need for explicit policy statement on SSWSS
- 3.3. Legislation and regulations as policy instruments
- 3.4. Baseline analysis
 - 3.4.1. Review of current evidence base
 - 3.4.2. Review of existing measures and instruments
 - 3.4.3. Stakeholder mapping
- 3.5. Continuous inter-institutional and inter-sectoral communication process
- 3.6. Target setting under the Protocol

4. Water and Sanitation Safety Plans: aim and vision

5. Individual policy instruments and programs for small-scale water supplies (SSWS)

- 5.1. Need for developing resource-sensitive and effective ongoing/routine drinking-water quality surveillance strategies (including monitoring, reporting, inspection and advice towards improvement)
 - 5.1.1. Description of key principles of element
 - 5.1.2. Benefits and advantages reported
 - 5.1.3. Success factors and implementation challenges
 - 5.1.4. Case examples (country specific)
 - 5.1.5. References to further reading and technical guidance
- 5.2. Incentive programs, credit/loan schemes and financial aspects of SSWS
Sub-structure: see chapter 5.1
- 5.3. Provisions for local resource protection (including cooperation agreements between farmers and water suppliers) and respective regulations

Sub-structure: see chapter 5.1

- 5.4. Awareness raising and outreach programs to local population

Sub-structure: see chapter 5.1

- 5.5. Cooperation: partnership arrangements, regional associations, professional national and international networking

Sub-structure: see chapter 5.1

- 5.6. Ongoing education and qualification programs for operators, managers and inspectors of SSWS (including certification programs of operators)

Sub-structure: see chapter 5.1

- 5.7. Requirements for capacitating of local, regional and national institutions to provide technical and managerial support to SSWS

Sub-structure: see chapter 5.1

6. Individual policy instruments and programs for small-scale sanitation

- 6.1. Policies for planning process

6.1.1. National planning of onsite and semi-collective sanitation

6.1.2. Local planning of onsite and semi-collective sanitation

- 6.2. Policies for institutional capacity

6.2.1. Certification, labeling and evaluation of efficiency

6.2.2. Training, demonstrations and institutions

- 6.3. Policies for wastewater operators

- 6.4. Policies for funding / fiscal incentives