

# Small-scale Water Supplies and Sanitation

Oliver Schmoll and Bettina Rickert

Germany

Frantisek Kozisek

Czech Republic

Sascha Gabizon and Margriet Samwel

WECF



# Small-scale water supplies: Work programme 2007 - 2009



- Assess problems and health-related risks
- Share experience and information
- Identify good management practices
- Recommendations for future action



# Small-scale water supplies: Workshop in Bad Elster (Nov 2008)



- **Backbone** of water supply in rural areas
- Common **challenges**:
  - Lack of political attention
  - Differently regulated
  - Poor compliance
  - Sense of responsibility
  - Lack of access to support networks
  - Limited resources



# Small-scale water supplies:

## Workshop in Bad Elster (Nov 2008)



- Positive **cost-benefit ratio**
- **Water Safety Plan (WSP)** is a viable management approach
- Need for **guidance and advocacy** materials





# Small-scale water supplies: Awareness raising document



- What are small-scale water supplies?
- Why are small-scale water supplies important?
- What are the challenges?
- What is the evidence?
- What are the cost and benefits of interventions?
- How can Water Safety Plans support improvement?
- How can an enabling environment be created?
- Networking and resource materials

## Small-scale Water Supplies and Sanitation – Slide 5

Second Session of the Meeting of the Parties to the Protocol on Water and Health  
(Bucharest, Romania, 23 – 25 November 2010)

# Small-scale water supplies

## WG Water and Health



- **2nd meeting** (July 2009):
  - Continuation of work endorsed
  - WG entrusted Germany with preparing a proposal for the Programme of Work for 2011-2013
- **3rd meeting** (May 2010):
  - Draft work programme endorsed
  - Czech Republic announced co-lead for the activity
- Re-iterated and confirmed in **Parma**

# Work programme 2011 – 2013:

## Programme area 3



- **„Cross-cutting“ issue:** Small-scale water supply and sanitation
- **Lead Parties** and organizations:
  - Germany and Czech Republic
  - Women in Europe for a Common Future (WECF)
- **Responsible bodies:**
  - Expert group approach
  - Close collaboration with Task Forces

# Work programme 2011 – 2013:

## Water Supply



- Proposed **activity areas**:
  - Development of policy and guidance documents
  - Improvement of evidence base
  - Supporting the application of WSPs
  - Facilitating enhanced regional networking
- **Complementary** to ongoing WHO activities and programs



# Work programme 2011 – 2013:

## Sanitation



- Proposed **activity areas**:
  - Development of guidance documents
  - Water and Sanitation Plans for Schools
  - Facilitating sharing of experience and networking

# Policy advice material:

## Water supply

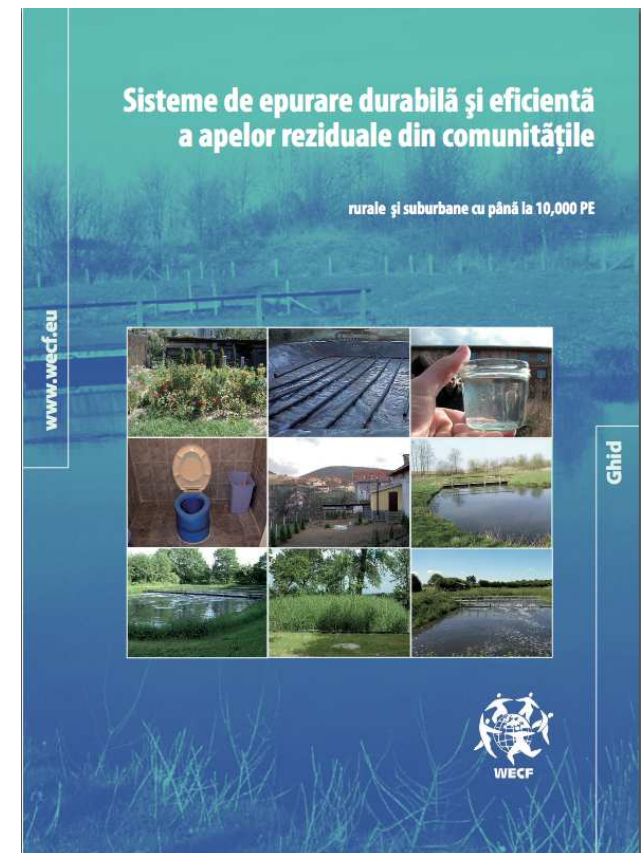


- Area for **target setting** under Article 6
- Development of effective & resource-sensitive **surveillance** approaches
- „Roadmap“ for introduction of the **WSP into policy frameworks**
- **Capacitating national institutions** to play their role in providing technical & managerial support
- Inter-institutional & inter-sectoral **communication**

# Policy advice material: sanitation

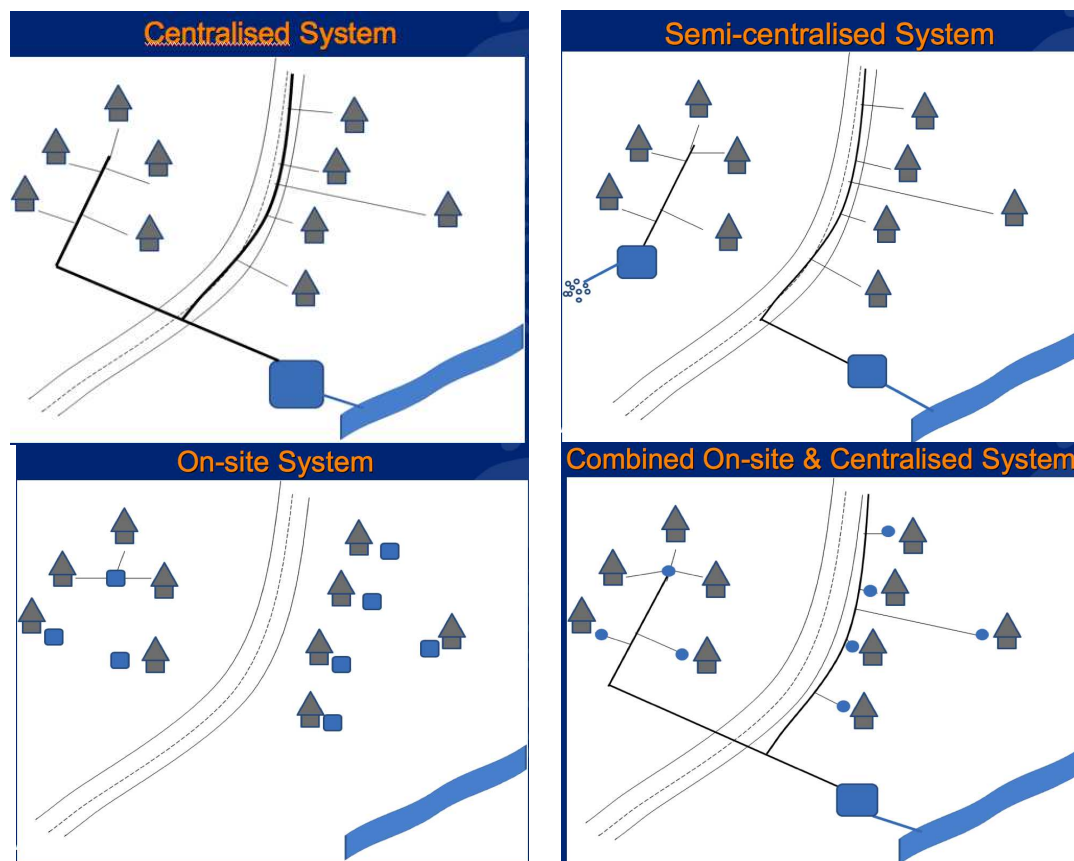


- Policy, institutional and technical **guidance documents** for sustainable waste water treatment and sanitation systems:
  - For municipalities below 10,000 population equivalents
  - To be used for target setting
- **Cost-benefit-analysis** of waste water and sanitation systems
- In Russian and English



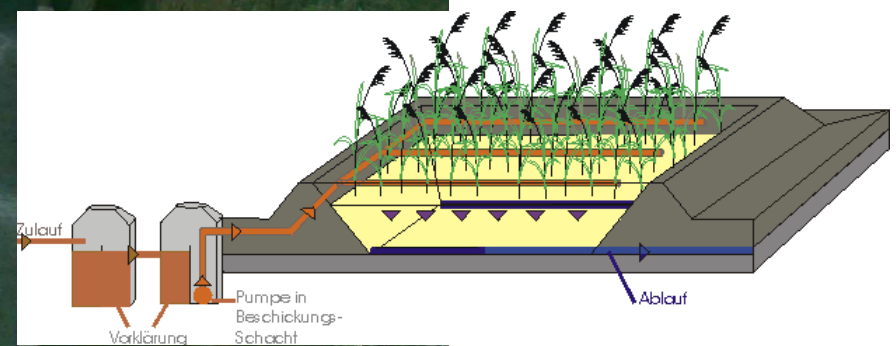
# Options for field work: Sanitation

- **Pilot small-scale sanitation** systems to demonstrate benefits & costs





## Pilot example: 1st Constructed Wetland in Bulgaria



### Small-scale Water Supplies and Sanitation – Slide 13

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**Pilot example:  
Modern dry sanitation in areas without reliable water  
supply – school sanitation Vrata, Romania**



New toilet  
building  
attached to  
the school



UDD  
toilets  
and  
urinals





## Pilot example: Learning from cost comparisons



<b>ANNEX 2    Running costs (BGN)</b>				
<b>SEWERAGE NETWORK</b>				
Description	quantity	expenses / month		expenses / year
Maintenance Technician (part time)	month	133,33	12,00	1600,00
Maintenece -Unclogging	month	1500,00	12,00	18000,00
Maintenece - Manholes cleaning	month	500,00	12,00	6000,00
Maintenece -Disinfection of Pipes	month	33,33	12,00	400,00
Total cost		2566,67	12,00	30800,00
Total annual				30800,00
<b>WASTEWATER TREATMENT FACILITY (LAGOONS)</b>				
Description	quantity	expenses / month		expenses / year
Maintenece Technician	month	300,00	12,00	3600,00
Sludge Removal	month	183,33	12,00	2200,00
Repairing embankments		83,33	12,00	1000,00
Total annual				6800,00

# Improvement of evidence base: Water supply



- Inter-country collaboration for systematic **data collection** plus gap analysis
- Continuation of systematic **literature review** on diseases
- *If additional funding becomes available in due course:*  
Targeted **rapid assessments** of drinking water quality in small-scale supplies



# Supporting the application of WSP: Water supply



- Translation of existing **WHO WSP guidance** into Russian (e.g. SCWSM Network)
- *If additional funding becomes available in due course:*  
Gain practical field experience and support „pioneers“ through **WSP pilot projects**



# Supporting the application of WSSP: sanitation



- **Water and sanitation safety plans (WSSP) manual** for schools and Local Authorities with small-scale water supplies and small-scale sanitation
  - educational materials on sanitation and hygiene
  - risk assessment and minimizing risk
  - mapping of sources of pollution from waste water/sanitation
  - Water protection zone inspection
  - Planning of sanitation improvement (e.g. school action to buy soap)
- Development of **best practice document**

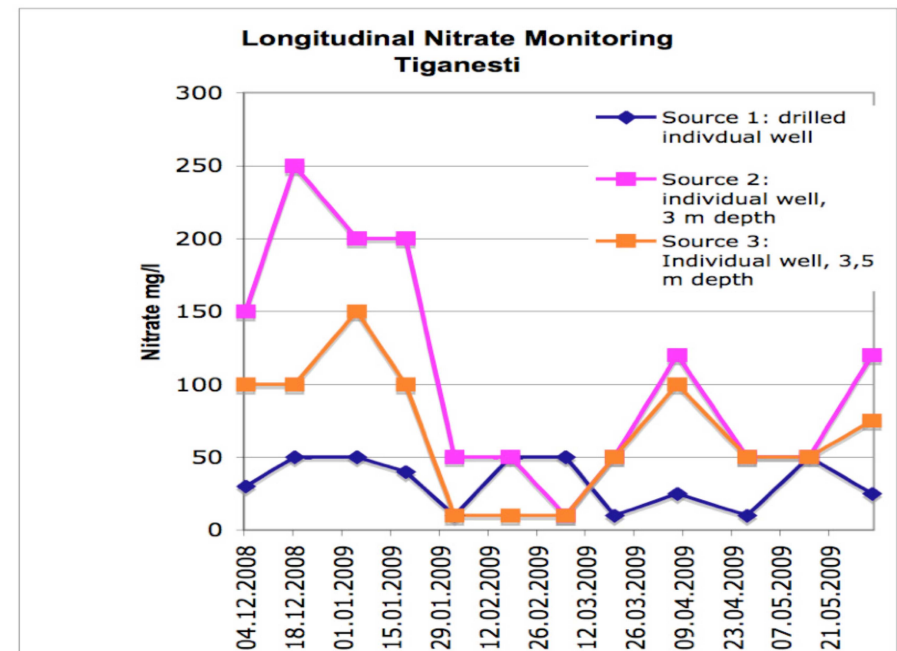






# Pilot example: Water and Sanitation Safety Plans involving schools

Goal of WSSP = Identification and elimination of all possible  
risks in water supply and sanitation system



Developing WSSP means also  
*cooperation and no confrontation with all stakeholders*

# Enhanced regional networking:

## Water supply



- **Regional workshop** to further exchange information and experiences
- Building and strengthening **collaboration** with WHO-led SCWSN Network



# Enhanced regional networking: sanitation



- Facilitating sharing of experience and networking
- **Web platform** in Russian and English with several functions:
  - Database providing information
  - Discussion forums
  - Policy section (WHO guidelines, EU directives, national examples)
  - E-learning training in Russian and English for technical personnel

**DANKE**  
**THANK YOU**  
**СПАСИБО**  
**MERCI**

