

## Barriers and Challenges of Implementing Sustainable Sanitation Practices within the WHOEuro Region

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Bucharest, 16 June 2010





### Awareness Raising and Public Participation by WECF and Partners

тися еко-туалетом

Сеча не повинна

Сеча не поеинна потрапляти до відсіку з калом! Користуйтеся



Marketale decarbosal realizat de Cisida Wei disid, Universitatea Telvical Hamburg, Germaila

Після відвідування туалету добре мийте руки з милом!!!







### Sustainable Sanitation Projects by WECF and Partners





### School Sanitation Implementation based on UDDT by WECF and Partners







### Treatment of Wastewater by Constructed Wetlands/ Soilfilter and/ or Biogas Plants



### Barriers of implementing new sanitation systems

- Considered as low-tech and not modern
- Not accepted by the authorities
- Not known in the population
- Worries about hygienic problems
- Lack of regulation on re-use of water and nutrients (in spite of WHO guidelines)

### How to make sanitation successful? Definition Sustainable Sanitation

(www.SuSanA.org)

- (1) Health and hygiene
- (2) Environment and natural resource
- (3) Technology and operation
- (4) Financial and economic issues
- (5) Socio-cultural and institutional aspects

#### Technology and operation

Lack of knowledge on decentral and onsite sustainable sanitation systems



#### Financial and economic issues

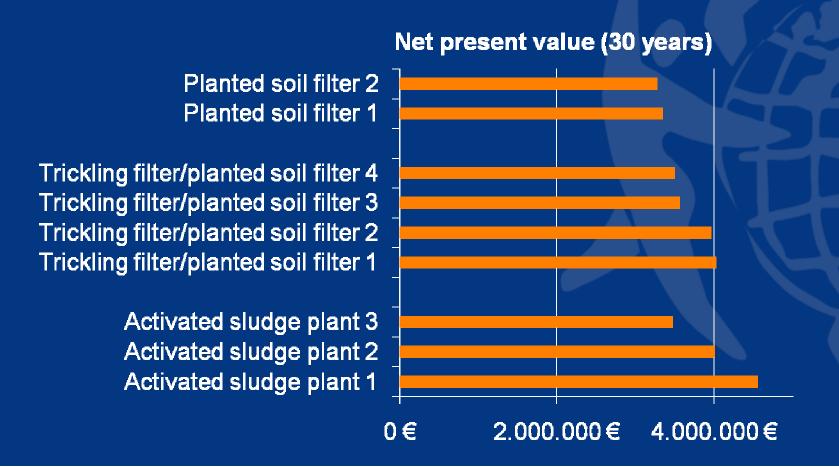
Sanitation has not the first priority in household budget

Lack of finances: a new toilet is for many families not affordable

No proper cost-benefit analysis is carried out comparing different scenarios for sanitation (decentralised versus centralised, technical versus natural systems)

### Comparative cost benefit analysis based on discounted cash flow – Case study 1

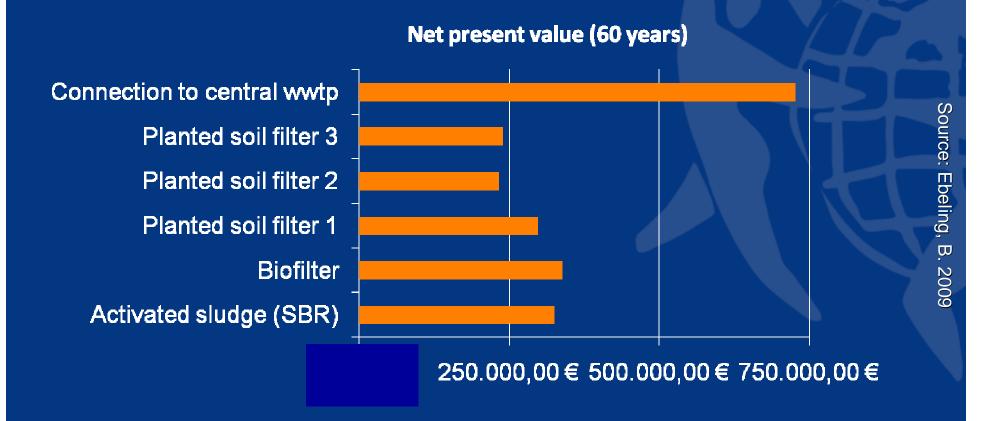
Renovation of an existing wastewater treatment plant for 4,150 PE (Germany)



Source: Ebeling, B. 2006

### Comparative cost benefit analysis based on discounted cash flow – Case study 2

Small wastewater treatment plant (200 PE) versus sewerage connection to the next big treatment plant (Germany)





#### Socio-cultural and institutional aspects

Lack of public interest in sanitation

Lack of regulation to promote sustainable sanitation on national and EU level

-> Both bottom up and top down approaches needed





#### Recommendations

- Awareness raising to set sanitation higher on the political agenda (multi stakeholder processes, education)
- Demonstration projects needed
- National state of the art /regulations/incentives missing
- Full cost-benefit analysis to compare different scenarios



# Thank you for your attention!

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