

SYKE is leading WP4: Communications



Our weapon for finding out how to make environmental benefits visible



- Get an understanding on what the majority think and value concerning restoration activities and some other things as well

- Find gaps in knowledge so you can

- better target your future communication and information activities. For instance Inform people about your on-going activities, plans or strategies in an interesting way
- Understand what the people are worried about and what monetary benefit they would get from the environmental improvement

Better understanding can lead to willingness to participate and to pay more attention to water quality also from urban perspective



But often when we suggest: what about a questionnaire, people still wonder. Usual **development** in partners moods concerning our questionnaire:

- Step 1 Puzzled: OK, you want to make a questionnaire. Fine, we can give you some local info, doesn't sound too bad, but don't really see the point in this...
- Step 2 Starting to get interested: Hmm, this actually looks interesting. And hey, we could tell people about this and ask about this... They start seeing the opportunities.
- Step 3 This is usefull stuff for us!: How interesting results! And loads of feed back we've never heard before and now we finally have something concrete to show to the policy-makers to better justify our points of view!!

Surveys can be more than just a method; an asset to **get feed back** but also to **give information** to the citizens.

Our aims Examples of how run-off water is formed and how human	activity af	, i	m	ag	gin	e
	10 How much would you be prepar	red to pay f	or a city bi	rook fee?		
	▶For each amount, indicate how much you would be willing to pay or not pay the amount in question. Take into account in your answer the fact that the money used would be separate from all your other expenses.					
	Monthly fee over the next ten years	l would definitely pay	l would most likely pay	l am not sure I would pay	l would most likely not pay	l would definitely not pay
	0.50 €/month (i.e. 6.00 €/year)					
	1.00 €/month (i.e. 12.00 €/year)					
	2.00 €/month (i.e. 24.00 €/year)					
Topinoja 7	4.00 €/month (i.e. 48.00 €/year)					
Aura River	8.00 €/month (i.e. 96.00 €/year)					
Archipelago Sea	16.00 €/month (i.e. 192.00 €/year)					
 Metals and other hazardous substances from building roofs are released into Litter from waste receptacles may fall into run-off water and be carried alon 	32.00 €/month (i.e. 384.00 €/year)					
 Car washing soaps, among other things, run untreated from residential yard: hazardous to living organisms Oil or other substances can leak from poorly maintained vehicles into run-o Soil from construction work is often carried away by run-off water Pesticides and excess nutrients are easily carried by run-off water into watei Run-off water from drainage pipes usually end up untreated in brooks and river substances are also carried by brooks and rivers into la 	Would you pay more than 32.00 €/ month? If so, how much? €/month					

Questions, pictures and information. In Heawater we also drew storm water pictures for questionnaires.

In the core of our surveys is contingen valuation (method); valuation of non-market benefits. We have described current situation e.g. urban small waters and then we ask to: Imagine that this state could be improved but we need more money to do so. Would you be Willing to pay that the state would improve from current to scenario? If they say yes, we ask how much, for an example y a payment card.





Experts gave information about the area, commented the questionnaire, even helped with mailing!

Why random sample: to generalize the results to the whole population of the city and to avoid biased results.

Paper \rightarrow reminder card (thanks if you answered, you still can) \rightarrow reminder card \rightarrow paper

In FI and SWE paper was much more popular (80% answered there by paper, but in Tallinn 50%-50%)



We had 12 pages of questions, pictures, figures and information Paper \rightarrow many probably looked at the pictures, read the text next to them, also family members

ightarrow a communication wise paper version reaches much more people than

an e-survey



We've finished 3 land reports already and almost finished the 2 summaries. Please, see the SYKEs project web site.



What we found out about the awareness of the residents?

The concept of stormwater was surprisingly familiar in all 3 study areas Residents learnt about stormwater management and local urban waters from these surveys

Info texts and pictures seemed to raise awareness...



Notable majority of the respondents thought that they will pay more attention to the state of urban small waters in the future.



-Next, we will briefly outline our core results in terms of willingness to pay estimates -However, it is good to keep in mind that these are directly related to the scenario presented in the survey.

-And these future changes in urban waters were described in the survey, always relevant to the study area in question

Willigness to pay (WTP)				ould you be prepared to pay?			
 Small differences in responses between different study areas The majority would be willing to consider an annual fee 		TALLINN	23%	47%	30%		
		SÖDERHAMN	20%	38%	42%		
		000211111111	2070	30/1			
		TURKU	14%	46%	40%		
STUDY AREA	MEAN WTP (std dev.), €/person/year		Yes Maybe No				
TALLINN	10.9 (20.0) - 23.7 (29.1)		 Average willingness to pay 				
TURKU	12.2 (23.7) - 32.0 (40.2) highest in Söderhamr		öderhamn				
SÖDERHAMN	25.9 (60.6) - 54.6 (66.2)					

We used the contingent valuation method, which is one of the most common non-market valuation methods and used worldwide; We asked willingness-to-pay for improved water status and stormwater management of small urban rivers
Some differences were shown in responses; However, a clear majority of respondents in each country, were at least willing to consider paying, and Additionally, a clear majority of respondents chose some positive fee from the list of shown payments

- We calculated the mean annual willingness-to-pay per person, and these value ranges are shown in this table

- From eleven to 24 euros per person per year in the Tallinn study area, and from 26 to 55 euros in Söderhamn, and estimates in Turku were between these

Aggregated benefits of improving small urban rivers

		Mean WTP, €/year	Aggregated WTP €/year	
	TALLINN	10.9 - 23.7	0.85 – 1.29 million	
	TURKU	12.2 - 32.0	1.83 – 2.75 million	
	SÖDERHAMN	25.9 - 54.6	0.41 – 0.51 million	
European Union				

The mean willingness to pay values can be used to determine the overall benefit of the proposed improvement in small urban rivers.

Total willingness to pay - that is, aggregate benefit - is affected not only by the average willingness to pay, but also by the size of the adult population in the study area

Aggregate willingness to pay varied by study area from about half a million euros to about three million euros per year



Why should we make environmental benefits visible?

-To compare social benefits with social costs; Cost-benefit analysis is used for identifying whether a government plan or policy is efficient, thus whether it should be undertaken or not

-Making the benefits of more visible, will help in formulating more effective plans or policies with increased public support

-In the Heawater project we showed that: there was uncertainty in the cost estimates; yet we can state that, the annual benefits to the study area residents were higher than the costs of improving small urban rivers, in each study area!

- This was briefly from me. Next, Sari will talk about what is still coming from us related to stormwater communication



Collection of storm water pictures made in Heawater will be completed with couple of more drawings still.



All drawings will be put **online** (in Finland to Vesi.fi web sites) with some small animations and info texts.

The last ones illustrate how storm **water may accumulate** and cause problems and how **nature based solutions** can help.

We hope that all these pictures will keep on living after the project ends and be part of this projects communicational legacy.



As a finishing touch here are some quotes from the questionnaires. And with these we want to stress that even though they are called "questionnaires", when well made, they can be a powerful tool for both **communicating to citizens** but also to comprehensively **collect** citizens views and attitudes and **get very concrete** and useful tips from them.