

MARGIN Project

Thank you for participating in the MARGIN project survey on groundwater sustainability in urban areas. Your insights are crucial to understanding and addressing the impacts of climate change and urbanisation on groundwater resources.



Before you start, please note that:	
MARGIN focuses on issues related to changes in the quantity and quality of groundwater resources, as we to ecosystem health; its first approach does not consider hydrochemical issues, groundwater pollution ar groundwater from agriculture.	
Please answer the questions in detail to help us develop effective solutions.	
Thank you for your valuable contribution.	

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Section A: Knowledge of existing groundwater data

Question 1: Participant Information
Do you agree to share your personal data for the purpose of this survey?
No, I prefer to remain anonymous
Yes
Name (Voluntary)
Institution
City name/country
Personal background/ profession
Contact information
City name/country
Question 2: Which of the following topics is relevant to your city? Please rank its relevance for your city from 1 (low) to 5 (high). Please note that 0 = not affected / not relevant
High groundwater Levels
Flooding cellars
City name/country Question 2: Which of the following topics is relevant to your city? Please rank its relevance for your city from 1 (low) to 5 (high). Please note that 0 = not affected / not relevant. High groundwater Levels

Flooding of terrain by groundwater	
Low groundwater levels	
Negative influence on utilisations	
*Info: Negative influences on utilisations may include impacts on pumping wells used for drinking water s processes, or heat pump operations.	upply, industria
Land subsidence	
Thermal groundwater use	
Heat energy planning	
Increasing groundwater temperatures through geothermal utilisations	
Decreasing groundwater temperatures / too low temperatures	
Interference (negative influence) management	
*Info: conficts or restrictions of utilisation	

Groundwater quality and ecosystem health

• Groundwater temperature	
• Ecosystem analysis	
Groundwater quality	_
Others: Please specify other r	
	g with groundwater related topics?
Which city departments are involved in Climate and/or environmental	n groundwater issues or use groundwater data in your city?
Construction	
City Planning	
Urban drainage	
Energy planning	
Other	
Other (Specify):	
Are there other stakeholders involved i	in groundwater issues or use groundwater data in your city?
Are there other stakeholders involved in Regional water management office	
	е
Regional water management offic	е
Regional water management offic Regional authority for environmen	е
Regional water management offic Regional authority for environmer National authorities	e nt

Question 4: Is the groundwater monitored in your city?

Please	select:
	Yes
\bigcirc	No
Is ther	e a main city department in charge of monitoring ?
	Yes, there is a main department
	No
	There are several departments
Please	, specify which is the main city department
Please	, specify which are the different city departments
Do oth	er institutions conduct groundwater measurements?
	Regional/National authorities
	Water supply services
	Industry/companies
	Others:
Others	
Which	data is collected?
	1) Groundwater level time series
	2) Groundwater temperature time series
	3) Groundwater temperature vertical profiles
	4) Ecosystem data
	5) Chemical data, groundwater quality
	6) Amount of water used / groundwater discharge / water demand
	7) Climate observations / rainfall
	Others:
Please	, specify:
Are the	ese data digitally available?
	Yes, all
	Yes, partially
	None

Please introduce the which ones: (Enter the numbers from the previous list)
Are some of the data online available?
Yes, all
Yes, partially
None
Please introduce the which ones : (Enter the numbers from the previous list)
Question 5: Do groundwater maps exist?
Please select one of the following options:
Yes
○ No
» Which maps exists?
Groundwater table contour maps
1) Average level
2) High level
3) Low level
Other:
Other:
Hydrogeological maps
4) Groundwater bodies
5) Hydraulic conductivity /permeability coefficient
6) Permeability coefficient
7) Groundwater depht to surface
8) Aquifer thickness
9) Thickness of saturated zone
10) Basis of aquifer
11) Groundwater discharge
Other:
Specify:

Section B: Existing strategies and measures	
Question 6: Strategies and Measures	
Based on your priorities in Section A-Q2, what strategies and measures will you use to leverage address current problems and future challenges?	exi
Sponge city concept / rain water management	
Building design criteria (e.g. reduction of impounding through orientation of subsurface building	ng)
Maximum groundwater impounding	
Maximum temperature thresholds or spread	
Restrictions for operation of systems	
Numerical modelling (e.g. calculation of groundwater impounding for large constructions)	
Thermal utilisations of groundwater in district heat planning	
Climate adaptation concept	
Potential analysis for thermal utilisation of groundwater	
Water level criteria for constructions	
Other:	
Specify:	

Question 7: Benefits and effectiveness

Please describe the benefits and effectiveness of chosen strategies and measures	
Are effectiveness and benefits measured?	
Yes	
○ No	
How?	
Who is responsible for the implementation of above strategies and measures in your city?	
Can you identify gaps in existing strategies that significantly affect the effectiveness and benefit measures? Please, describe	ts of the mitigation
Thank you for your valuable input to the MARGIN Survey! Your feedback is critical in our understanding groundwater sustainability in urban areas, in the context of climate change and urbanisation. We appropriate the contribution to this important initiative.	•
Please feel free to provide any additional comments, suggestions, or feedback in the space below	w.