Ahmedabad

SECTION 1 - The following section contains items for informed consent for participants taking part in the survey questionnaire of Akshay Anand, Ph.D. researcher, Department of Urban and Regional Planning and Geo-information Management, Faculty of Geoinformation Science and Earth Observation, ITC, University of Twente, The Netherlands.

* I have understood the study information document, or has been read to me. I have been able to ask questions about the study, and my questions have been answered to my satisfaction. Consent of Participation
Ок
* I consent voluntarily to be a participant in this study and understand that I can refuse to answer questions and I can withdr from the study at any time without having to give a reason. Consent of Participation
Ок
* If recorded, I agree to participate in audio recording and I have been informed that the recorded data will be transcribed as text for analysis. Adding to that, I agree to my responses being manually noted down by the researcher
Consent of Participation OK
* I understand the risks and discomfort that taking part in the study may involve my personal opinions and preferences on the study subject getting revealed to close personal/community/work acquittance(s) and time-consuming stressful interview **Consent of Risk and Discomfort**
Ок
* I have been informed about the right to withdraw consent at any time with erasure/rectification of my participation by contacting the researcher via email/phone
Consent of Rights and Retention of Data OK
* I understand that taking part in the study involves sharing personal information such as name, email address, phone number and work information with the researcher and that my responses may also be recorded with my permission **Consent of Rights and Retention of Data** OK
* I have been informed that the personal information will be pseudonymized for analysis and has a retention period of 10 ye which can be accessed by an affiliate University of Twente (UT) credentials on UT data servers and are with GDPR complian Consent of Rights and Retention of Data OK
* I understand that the information I provide will be used for analysis and the outcome of which will be published and presented in academic/scientific journals, conferences, data repositories as well as in the PhD thesis of the researcher. * Use of data from the survey OK

2/01/2024, 14.52	Amicaload
What is your age?	
18 - 29 years	
30 - 39 years	
40- 49 years	
50 - 59 years	
Above 60 years	
Please select your gender	
Male	
Female	
Other	
Prefer not to say	
Date	
yyyy-mm-dd	
Place Approximate Area/Village/Region of residence	
latitude (x.y °)	
longitude (x.y°)	
altitude (m)	
accuracy (m)	

What is y	our highest level of education?
\bigcirc N	lo Formal Education
O P	rimary School
Он	ligh School
O Te	echnical or Vocational Training
O U	Iniversity Bachelors
O P	ostgraduation
O D	Poctorate
What is y	your primary occupation?
O Se	ervice/Job
O P	rivate Business/Consultant/Self-employed
O D	Paily Wage
○ St	tudent
Он	lousehold Activities
\bigcirc R	etired
O 0	Other
Specify (Other)
What is y	our professional background?
Please in next sect	ndicate how many lakes you visit often or have visited recently. You can point to these lakes on the map in the tion
	or 3 then press enter.
How ofte	en do you visit the lakes you mentioned in the previous question?
O E	veryday
\bigcirc M	Veekly
\bigcirc N	lonthly
O Ir	n six months probably
\bigcirc N	lay be once a year
Which la	ke do you know the best?
Enter 1.2	3 or mention Lake 1 Lake 2 Lake 3 etc

During	which seasons do you most frequently visit the lake you best?
Check a	ll that apply
	Spring
	Winter
	Summer
	Monsoon
	Autumn
	Prevernal season (end of winter beginning of spring)
How fa	or do you travel to reach this lake?
	0 - 0.2 Kms
	0.2 - 0.5 Kms
	0.5 - 3 Kms
	3 - 5 Kms
	5 - 10 Kms
	More than 10 Kms

_	your visits to the lake, what purposes or activities have you observed that people engage in? eselection. Contextualized and derived from - https://www.millenniumassessment.org/
Multiple	Enjoy nature
	Observing and study nature
	Fresh air and better climate
	Cultural, spiritual or historical place
	Quite Place or Privacy
	Picnic with friends and family
	Water sports, boating, swimming, kayaking or shore cycling
	Attractive gardens and waterside fountains
	Exercise, walk or active health routine
	Fishing, fodder collection, harvesting, farming
	Water Use - drinking, bathing and washing clothes.
	Livestock rearing, grazing or bathing
	Fetching silt clay or sedimentary soil for construction mortars
	Cremation or Burial
	Toilet, open defecation
	Feeding birds, fish or other species
	Fairs, festivals or mythological events
	Environment Awareness event or lake cleaning or related activities
	Community- group meetings
	Playground
	Other
Specify	(Other)

Multiple selection. Contextualized and derived		nillenniumassessn	nent.org/		
Enjoy nature	,		Ü		
Observing and study nature					
Fresh air and better climate					
Cultural, spiritual or historical place	2				
Quite Place or Privacy					
Picnic with friends and family					
Water sports, boating, swimming, k	kayaking or shore cy	cling			
Attractive gardens and waterside for	ountains				
Exercise, walk or active health rout	ine				
Fishing, fodder collection, harvestir	ng, farming				
Water Use - drinking, bathing and v	washing clothes.				
Livestock rearing, grazing or bathir	ng				
Fetching silt clay or sedimentary so	il for construction n	nortars			
Cremation or Burial					
Toilet, open defecation					
Feeding birds, fish or other species	;				
Fairs, festivals or mythological ever	nts				
Environment Awareness event or la	ake cleaning or relat	ed activities			
Community- group meetings					
Playground					
Other					
Specify (Other)					
Have you noticed any changes in your p What according to you, could be the rea Some pattern or event that triggers this chang	son for this change			o, please descri	be.
On a scale, how would you rate the ecological state of the lake?	Very Poor	Poor	Fair	Good	Very Good
Current Ecological State of the Lake					
In last 5 years	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Before 10 years					\bigcirc
Before 20 years					

Can you specify why? How long have you been aware of the existence of the lake? 0 - 5 years 05 - 10 years 10 - 20 years 20 - 30 years 30 - 40 years More than 50 years In your view, which factors have a significant impact on the ecological state of the lake? **Declining Lake Levels** Contaminated Lake Soil Quality Poor Lake Water Quality Loss Aquatic and Bird Habitats **Encroached Lake Edge Conditions** Pollutants from surrounding area Other Specify (Other) Regional climate crisis, disaster or any other conditions/events... What steps would you like to see taken at the lake to keep it safe and healthy? Do you think, as a user/resident you may have influence to positively affect the ecological condition of the lake? Yes No Not Sure Why do you think so? Do you believe you have the ability to take action on decisions/situations to make a positively impact on the ecological condition of the lake? Yes Not Sure Can you elaborate briefly, how?

Yes	tivities aimed	at safeguarding	the ecological c	ondition of the	e lake?
No No					
Can you describe these efforts and activitie	es?				
Can you specify any reason? Or what kind of activities you would be interested.	in.				
Do you think you have a role in contributing	g to the protec	ction and prese	vation of the lak	xe?	
Yes					
No					
Not Sure					
Why do you think so?					
Role					
Government					
Non-Government Organisation/Non-Pr	rofit Organisati	on/Trust/Commu	inity Group		
Individual/Resident/Villager					
Private Business					
Capacity					
SECTION 2 - ACTOR SPECIFFIC QUESTIONS Nested question based on the selection of the 'Ro	ole', in a previous	response.			
Please select the appropriate response for the following sentences.	Strongly Disagree	Disagree	Can't Say	Agree	Strongly Agree
The environmentally sensitive peri-urban lakes should be identified, especially in climate-sensitive zones.					
Peri-urban lakes have huge potential to become regional nature parks and recreation as well as public space.					
Peri-urban lakes can provide many shared benefits for rural, urban and the peri-urban region.					
We should prioritise on developing the peri-urban lakes in the outskirts to reconnect nature to avoid encroachments.					

Peri-urban lakes are often at risk, affecting public health, hygiene and cleanliness.					
The financial partnership models for lake rejuvenation like, public-private partnership (PPP), Corporate Social Responsibility (CSR), Corporate Environmental Responsibility (CER) can bring promising outcomes for lake conservation and restoration initiatives.					
Depending on the size, area and catchment, peri-urban lakes can provide for increasing regional water supply demand for irrigation and domestic use.					
Integrated land use, infrastructure, and multi-modal connectivity are key challenges for peri-urban areas. Peri-urban lakes can serve as vital nodes, enhancing neighborhoods with gardens, nature amenities, and public spaces, adding aesthetic value					
Certain peri-urban lakes have the capacity to facilitate groundwater recharge, retention, and water treatment facilities.					
The administrative transition of a rural lake into a peri-urban or urban setting also changes the lake ecological as well as socially on how it is used.					
The goals of various departments within the state, parastatal, regional, urban and municipality differ in scale, work cycle and policies and interests hence there are some overlapping issues with respect to peri-urban lakes.					
Do you believe that the goals of various state departments, parastatal organizations, regional bodies, urban authorities, and municipalities differ in terms of their boundaries, scale, jurisdiction, working styles, policies, and interests, which may potentially leave peri-urban lakes in a state of uncertainty or neglect?					
Please select the appropriate response for the following sentences.	Strongly Disagree	Disagree	Can't Say	Agree	Strongly Agree
Lake ecosystem express a sense of unity, of circularity, of internal relationship among inhabitant species, of common tie to their own waters and to the flora and fauna.					
Peri-urban lakes form a micro-climate to produce cooling effect in the region.					

Peri-urban lakes support aquatic biodiversity with diversified flora and fauna. Hence, they are good places to observe nature, birds for education and awareness.					
Peri-urban lakes are a form of climate amenity and an important ecological asset/climate goods.		\bigcirc			
Lakes gives natural beauty and aesthetic value and ecological continuity in the neighborhood as well as in the peri-urban landscape.					
Lakes are stimuli of historicity with spiritual and cultural values. They represent real deposits of memories, of culture, of traditions associated with the lakes.					
Lakes can potentially improve quality of life of residents in the region.					
Lake is a public good, hence it should be equitable and accessible to all, which includes the land covered by it, the water it stores and the public space around it.					\bigcirc
The environmentally sensitive peri-urban lakes should be identified, especially in climate-sensitive zones.		\bigcirc			
Peri-urban lakes have huge potential to become regional nature parks and recreation as well as public space.		\bigcirc			
Peri-urban lakes are often used by heterogeneous users - farmers, local residents, villagers, migrant workers, users or visitors for different activities and purpose.					
Peri-urban lakes are an economic source for many of these users which are dependent on lake for the livelihoods.					
A degraded or polluted lake puts public health and hygiene at risk.					
Please select the appropriate response for the following sentences.	Strongly Disagree	Disagree	Can't Say	Agree	Strongly Agree
Peri-urban lakes are a source of livelihoods for local communities.					
The environmentally sensitive peri-urban lakes should be identified, especially in climate-sensitive zones.		\bigcirc			
Peri-urban lakes should be accessible to all, but some user groups have more control and influence.		\bigcirc			
Peri-urban lakes have special cultural and historical attachment with the local communities.					

Lakes gives natural beauty and aesthetic value and ecological continuity in the neighborhood as well as in the peri-urban landscape.					
Lake garden projects or lake precincts development should be in consultation with the preferences of local user groups and communities.					
Lake is a public good, hence it should be equitable and accessible to all, which includes the land covered by it, the water it stores and the public space around it.					
A degraded or polluted lake puts public health and hygiene at risk.					
Peri-urban lakes have huge potential to become regional nature parks and recreation as well as public space.					
Peri-urban lakes are an economic source for many of these users which are dependent on lake for the livelihoods.		\bigcirc			
Ownership of the lake and influence over its management decisions should primarily belong to the community.		\bigcirc			
Lake community groups/NGOs provide an essential momentum for public awareness and education for the protection of lake ecosystem					
Lake community groups play an important role in generating public awareness and providing education for the conservation of the lake ecosystem.					
Community groups have members who may have influence of local politicians or powerful local leaders to leverage collective action for a cause.					
Please select the appropriate response for the following sentences.	Strongly Disagree	Disagree	Can't Say	Agree	Strongly Agree
Investments around lakes may provide long term strategic and economic advantages.					
Business have experienced economic benefits from investments around periurban lakes.					
Incorporating surrounding lake into design and planning of large projects may enhance property value of the proposed project.					
Businesses see potential for innovative, lake-centric real estate development that benefit both residents and the environment.					

The financial partnership models for lake rejuvenation like, public-private partnership (PPP), Corporate Social Responsibility (CSR), Corporate Environmental Responsibility (CER) can bring promising outcomes for lake conservation and restoration initiatives.				
Business should seek opportunities for corporate partnerships/schemes related to peri-urban lake conservation and development.				
Have you contributed to any such CER/CSR a	ctivity with t	he government?		
Yes				
No				
Name of the lake				
Can you identify for which lakes you contrib	uted?			
latitude (x.y°)				
longitude (x.y°)				
altitude (m)				
utitude (III)				
accuracy (m)				
Lakes are an attractive feature for development in the peri-urban area.				
Peri-urban lakes have huge potential to become regional nature parks and recreation as well as public space.				
Peri-urban lakes are often at risk, affecting public health, hygiene and cleanliness.				
Businesses should engage in partnership or collaboration with government, local village and residents to ensure responsible and sustainable development in the peri-urban area.				

22/01/2024, 14:52 Ahmedabad Businesses that operate near the lakes, serve the needs of lake visitors or residents. Lakes attract a significant portion of customer/visitor base. Businesses should consider the environmental impact of their activities on lake and aim to minimize waste and pollution. Businesses must participate in community events and initiatives related to peri-urban lakes. Lakefront or lake development projects improves the economic land value of the surrounding area. Our business ensures responsible lake use and conservation in recreational or other activities around the lake. Our nursery engages in community outreach to raise awareness about the importance of peri-urban lakes in gardening We are aware of the environmental and social responsibilities associated with our activities/investments around the lakes. The environmentally sensitive peri-urban lakes should be identified, especially in climate-sensitive zones. From your viewpoint, who has higher potential to effectively safeguard and conserve the ecological state of the lake?

From your viewpoint, who has higher potential to effectively safeguard and conserve the ecological state of the lake?

Multiple selection

	Relevant Government Department/Authority/Environment Enforcement Agency
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Collective Actions/Community Groups/NGOs/NPOs/Research Organisations

Individuals Actions from Local Residents/Users/Environment Activists

Conservation efforts with financial Support from Corporate Social Responsibility (CSR)/Corporate Environment Responsibility (CER) Schemes with Business/Industries