

"Integrated Water Management Assessment from a Social Perspective at the University of Indonesia"



1. INTRODUCTION



At the moment, the GGI Project is being carried out between the universities of Florida, Indonesia and Cardiff, which are studying at their respective locations how to develop innovative approaches for the implementation of **green infrastructure** in order to improve **urban sustainability**.

From this project, several research questions have arisen, one of which is related to the **water resource management**.

In order to **understand better the context** and to be able to generate better green and sustainable solutions for urban sustainability, the present field practice was carried out for which **water resource management** is investigated from the perspective of inhabitants of the zone.

2. LOCATION

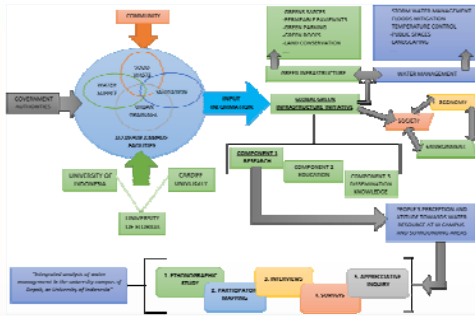


Indonesia → Jakarta → Depok

3. RESEARCH QUESTIONS

- Do people in this area **value** water resource? How much do they realize of its **importance**?
- How people's **perception** about water resources can affect **urban sustainability**?
- How this perception can affect **urban Green infrastructure**?

4. CONCEPTUAL FRAMEWORK



5. OBJECTIVES

GENERAL OBJECTIVE: Enhance understanding of current water management practices such as water perception, uses, pollution and flooding response at UI

SPECIFIC OBJECTIVE 1: Enhance understanding about water uses and its valorization at UI

SPECIFIC OBJECTIVE 2: Enhance understanding of water pollution and its causes at UI

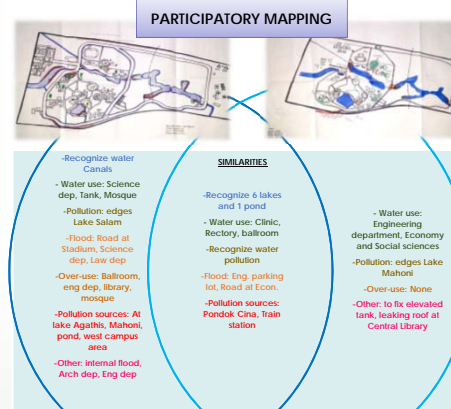
SPECIFIC OBJECTIVE 3: Enhance understanding of flooding and people's response to it, at UI



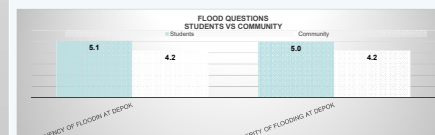
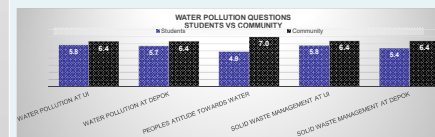
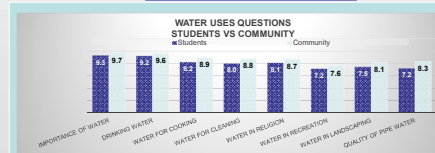
6. METHODS

- ETHNOGRAPHIC STUDY** • 7 sites of observation + 12 questions
- PARTICIPATORY MAPPING** • 8 students – 2 maps
- SURVEYS TO STUDENTS** • 98 UI students
- SURVEYS TO COMMUNITY** • 75 UI surrounding community
- INTERVIEWS** • 8 professors + 2 students + 1 staff + 1 gov off

7. RESULTS



SURVEYS



8. CONCLUSIONS

• According to the information collected, it was found that fresh water is highly used at the university of Indonesia, for different purposes, likewise its **valuation is high** among students and community individuals.

• Inside and outside UI, was found evident water **pollution caused mainly by solid wastes**, which reflects a deficient solid waste management in Depok area, and low people's awareness about it.

• Although critical episodes of flooding have occurred in the area, according to results, the UI campus and its surrounding areas of Depok, **do not suffer of severe floods** during the rainy season, what can be attributed to the existing green infrastructure.



9. RECOMMENDATIONS

• It would be useful to complement the present practicum with **more research about water pollution** as well as for the precipitation levels at in the area of study.

• For completing the contribution to the GGI, it would be useful to **research more about the existing Green infrastructure** at UI campus.

• It is recommended to **improve education** at UI and its community about **water resource dynamics and importance**, as well as **solid waste management**.

