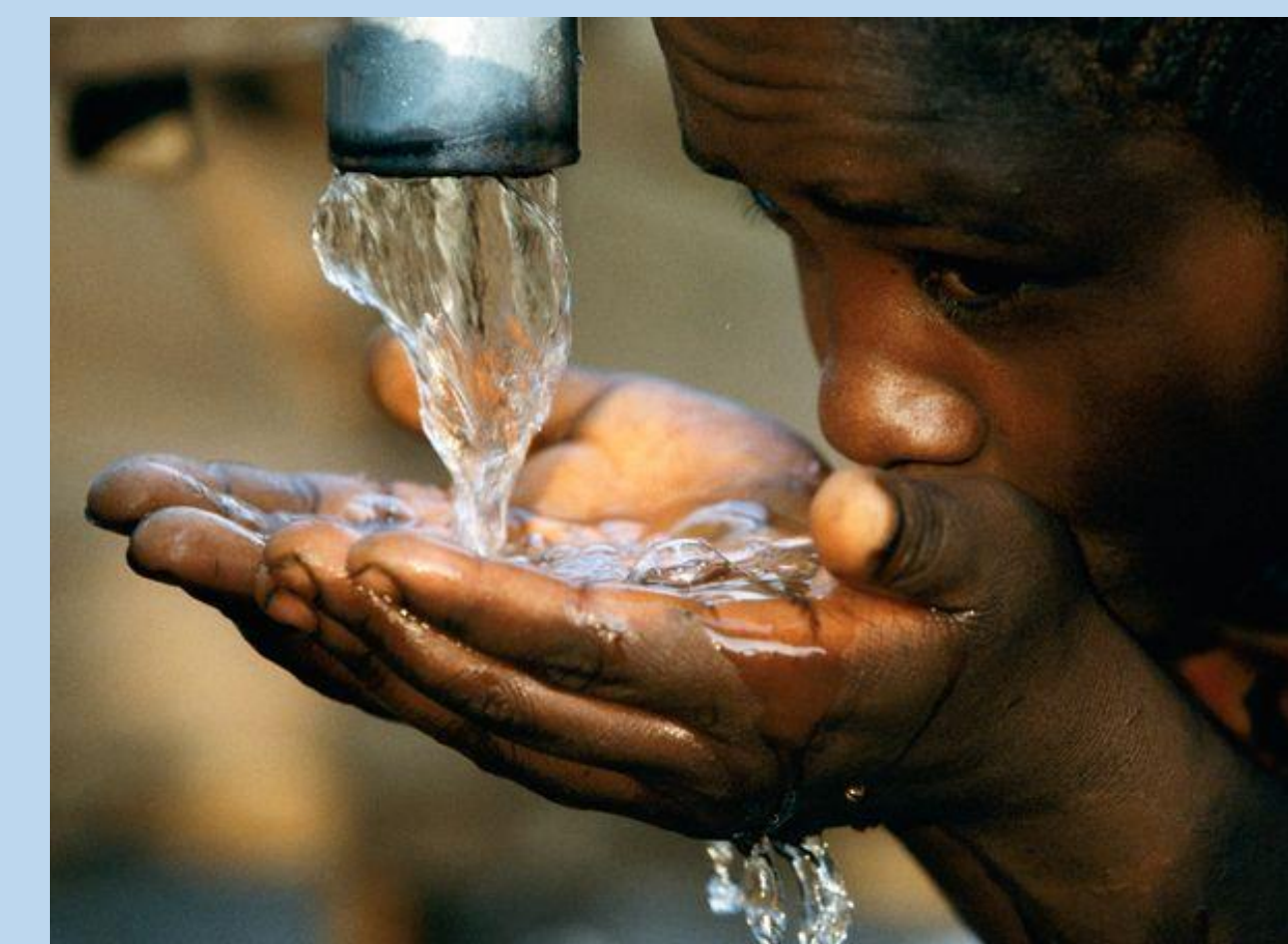


PUBLIC PARTICIPATORY GEOGRAPHIC INFORMATION SYSTEM FOR URBAN WATER IN INFORMAL SETTLEMENTS

Patricia, Edward, Remis, Alain, Susan, Felistas
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Target Group

This “5-Day Summer School” targets 20 master and PhD students who have knowledge in GIS, Remote Sensing, Environmental Science, Water Resources, Natural Sciences, Computer Science. The training will be conducted at Kenyatta University in Nairobi, Kenya.



Source: Karani (2016)

Definition of the Problem

Water is important for a community to develop. Informal settlements experience water shortages, thus exposed to water borne diseases by using water from unknown water sources. Water resource management needs participation of communities and their involvement in the decision making processes.



Source: UN SDG (2015)



Source: Charity water

Learning Outcomes

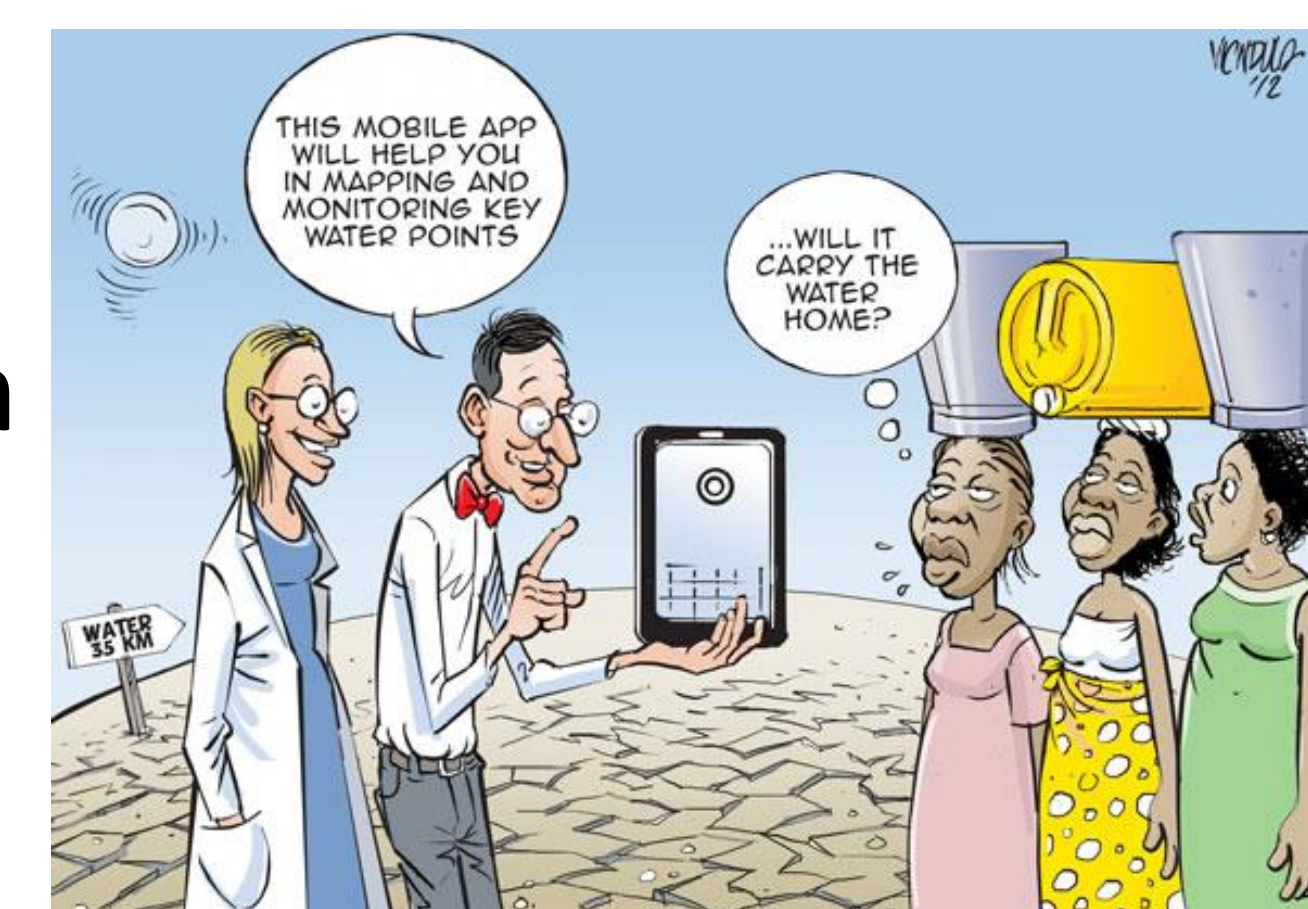
- Have enhanced knowledge and understanding of key principles of PPGIS
- Possess practical skills in geospatial technology for qualitative and quantitative data collection
- Engage communities in mapping using electronic devices
- Hold stakeholders meeting to discuss results and suggest improvements



Source: Google Images & edited by author

Educational Concern

- Bottom-up approach rather than top-down approach in problem solving
- Sharing knowledge acquired in the class environment with communities
- Integrating technology in problem solving
- Implement projects together with communities and not in isolation



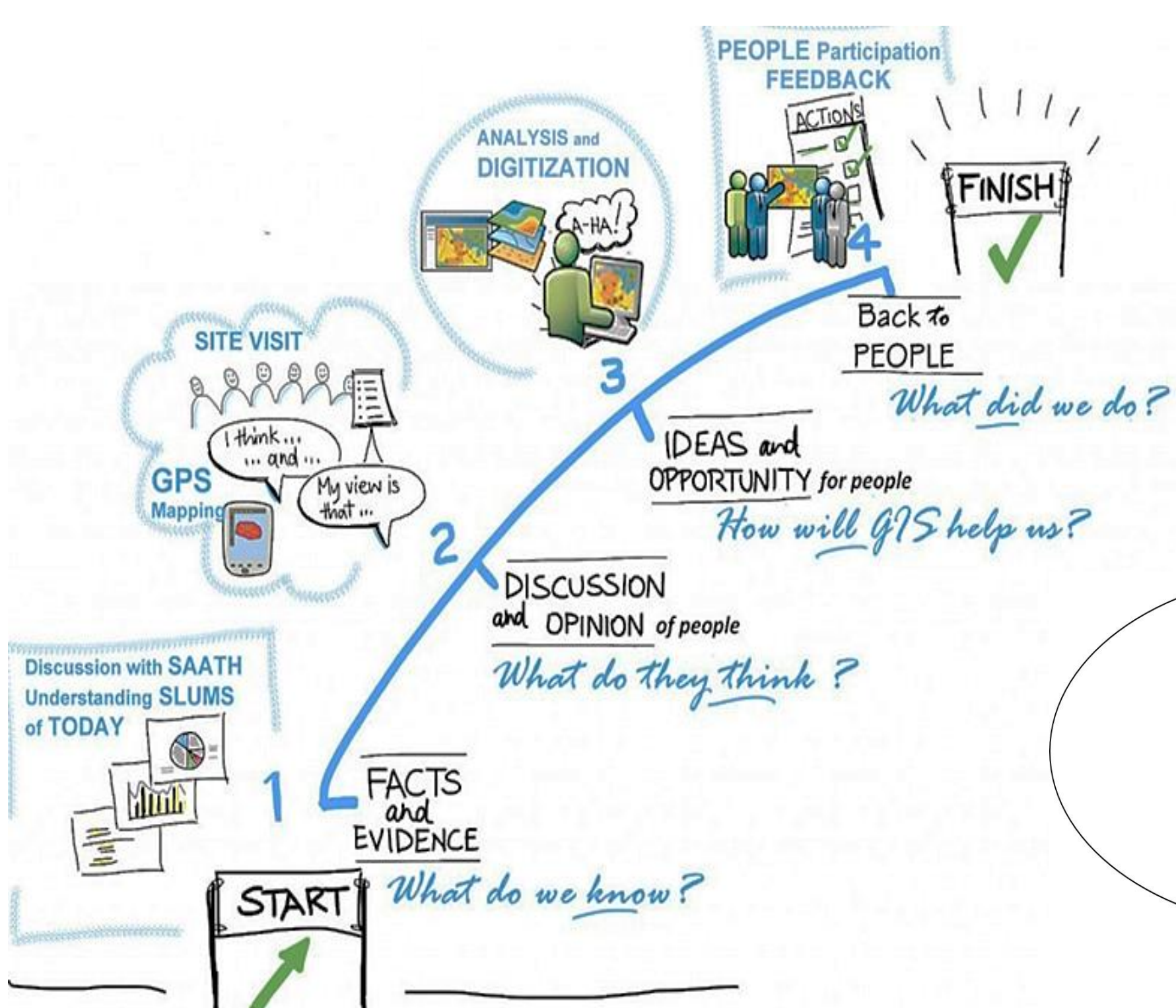
Source: Water & Sanitation Program (2013)

Learning Environment

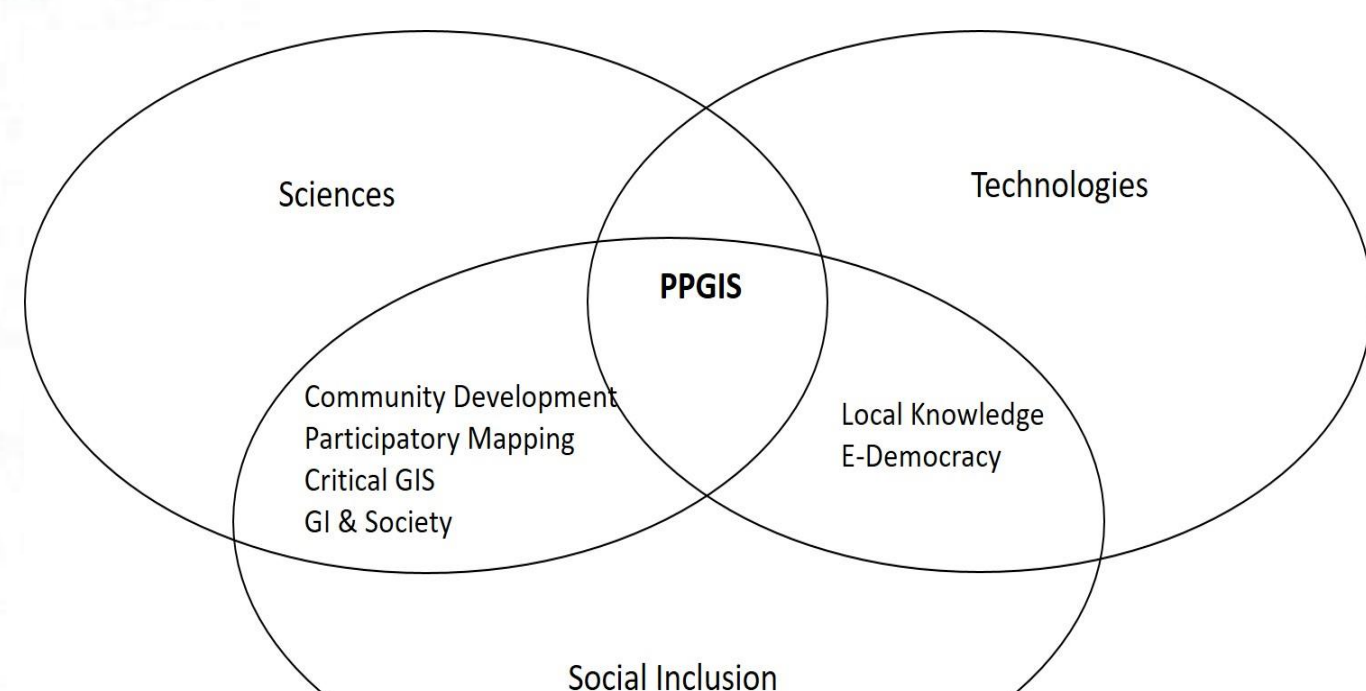
- Teaching will involve learner centered lectures, group work, videos, literature
- Problem-based approach, service learning
- Support video, internet literature will help student to share information with the community members especially leaders

Literature

- Aberley, D., & Sierber, R. (2002, July 22). *PPGIS.net*. Retrieved from About PPGS: <http://www.ppgis.net/the-practice/about-ppgis/>
- Landscape Values & PPGIS Institute. (2017, September 28). *Landscape Values & PPGIS Institute*. Retrieved from : <https://www.landscapemap2.org/>



Source: CEPT Portfolio (2015)



Source: Université Laval (2008)