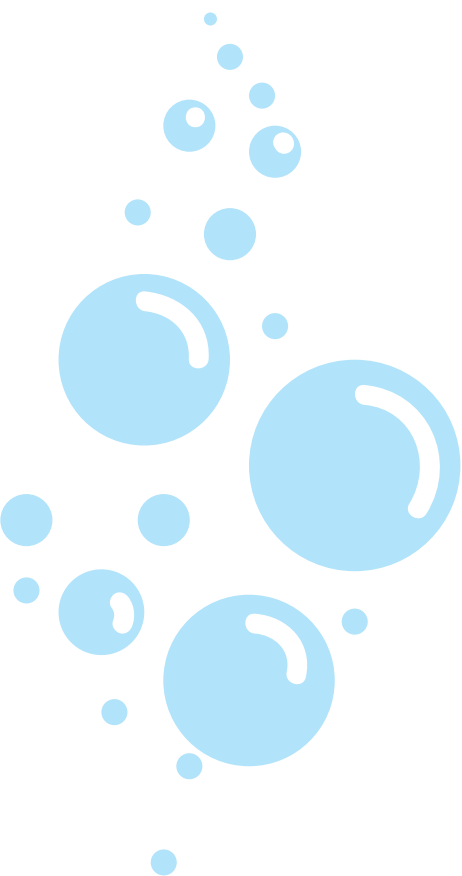




GROUP PROJECT

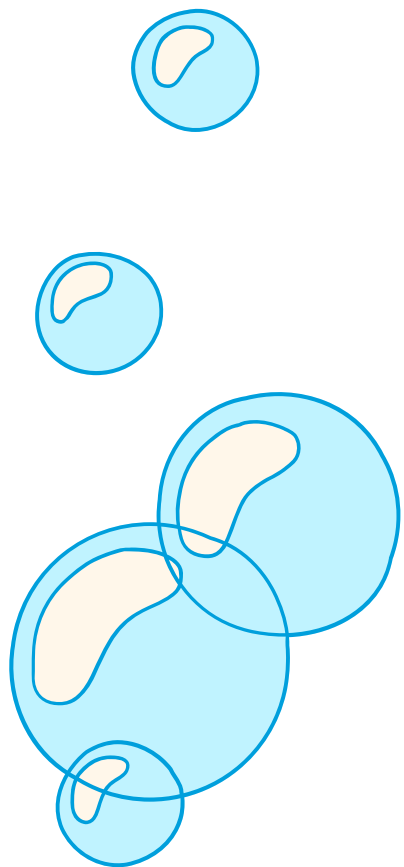
By Ketut Susilo and Team





Introduction

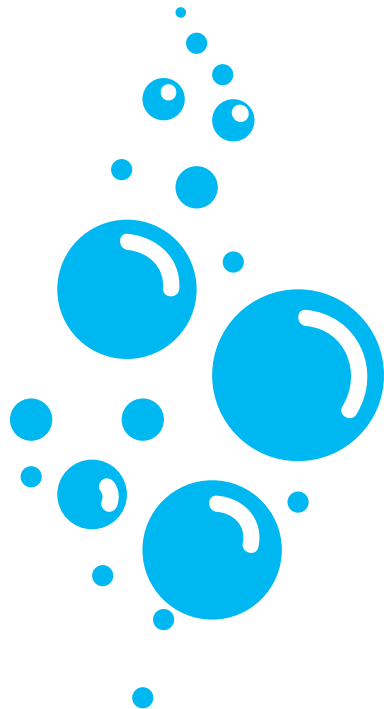
A basic human right, access to clean water and sanitation is a precondition for health, dignity, and development. It is also a need for social progress. Nevertheless, regular access to clean water sources continues to be a problem for millions of people all over the globe. This poster addresses Sustainable Development Goal 6: Clean Water and Sanitation, focusing on a small-scale community solution to this global issue. The initiative explores innovative yet achievable ways to ensure clean water access, especially for underserved communities, within a realistic budget of £1,000–£1,200.



Problem Statement

The United Nations estimates that more than two billion people do not have access to drinks that are handled in a safe manner. For women and children in particular, inadequate access to clean water may result in poor hygiene, an increase in the transfer of diseases, and a reduction in the possibilities available for education and economic advancement.

In many urban and semi-urban areas, marginalized communities rely on shared water sources, which are often contaminated. The Shepherd's Bush Community Fridge poster example demonstrates a clear link between SDGs and local community problems. Inspired by that model, this report proposes a portable water purification and storage system for local use in low-income neighborhoods.



Link to SDG 6

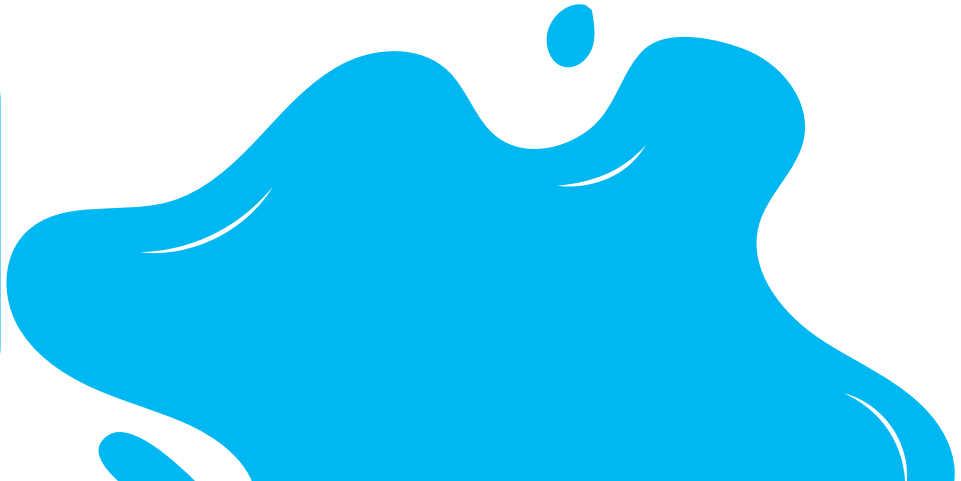
SDG 6 aims to “ensure availability and sustainable management of water and sanitation for all” by 2030. Key targets include:

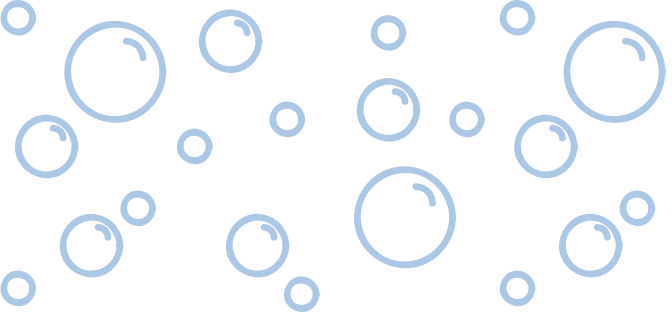
·6.1: The goal is to provide everyone with access to drinking water that is both safe and inexpensive.

6.2: It is imperative that sanitation and hygiene be improved, particularly for women and other vulnerable groups

6.b: Support community participation in water and sanitation management.

The solution that has been offered is in perfect alignment with these aims because it gives communities the ability to take control of access to clean water by using technology that is cheap and easy to maintain.





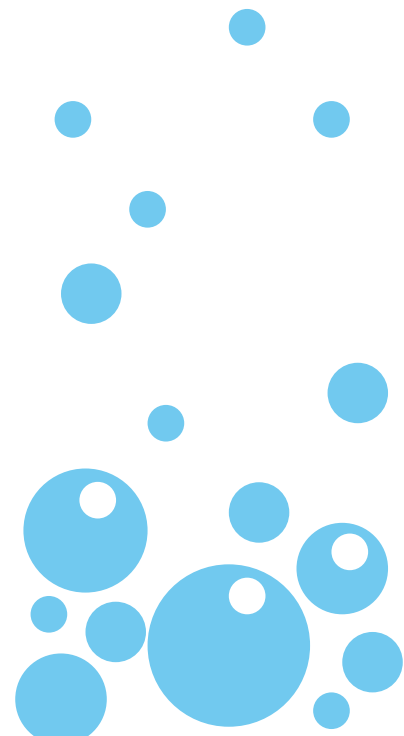
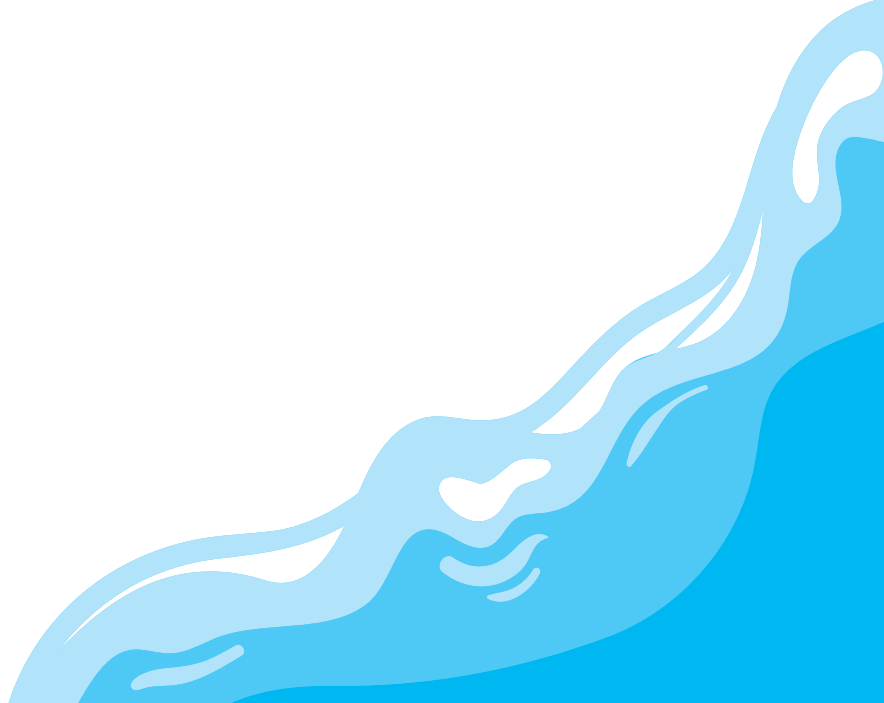
Proposed Solution

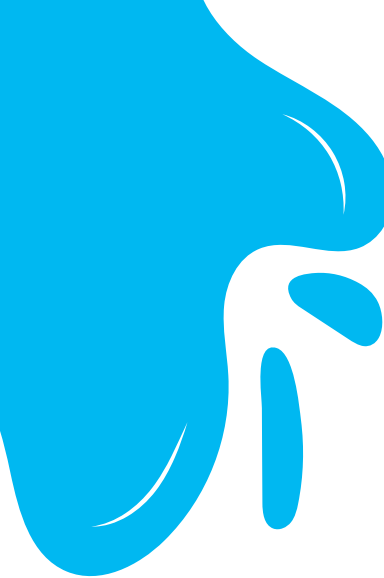
Community-Based Portable Water Filtration Unit

Description: A low-cost, solar-powered water purification system using a combination of ceramic filters, activated carbon, and UV disinfection.

Target Audience: Residents of informal housing or temporary shelters who lack consistent access to municipal water.

Key Features:

- Easy to assemble and maintain.
 - Mobile and adaptable to different environments.
 - Includes visual infographics for usage instructions.
 - Community-led monitoring and refill schedule.
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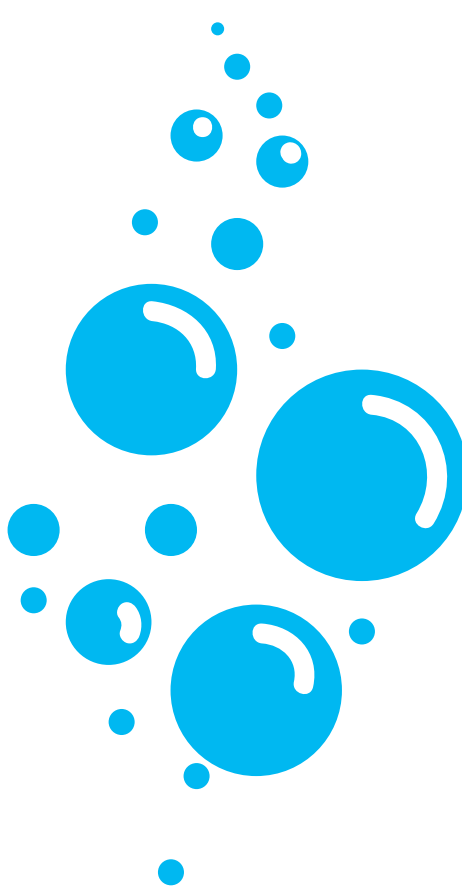


Project Costs (Budget Breakdown)

Item	Estimated Cost (£)
Ceramic filter units (x5)	£200
UV light purifier (solar)	£300
10L food-grade containers (x10)	£150
Outreach materials (leaflets/posters)	£50
Training workshop costs	£100
Transportation & logistics	£100
Contingency (10%)	£100
Total	£1,000

This budget aligns with the grant limitation and provides room for adaptability based on local pricing and donations.





Community Engagement and Impact

Workshops will be held with community members to demonstrate the use of the filter and hygiene practices.

Feedback will be collected to assess user satisfaction and areas for improvement.

Expected outcomes include:

- 50+ individuals with daily access to clean water.
- Reduction in waterborne diseases.
- Empowerment through community-led health practices.



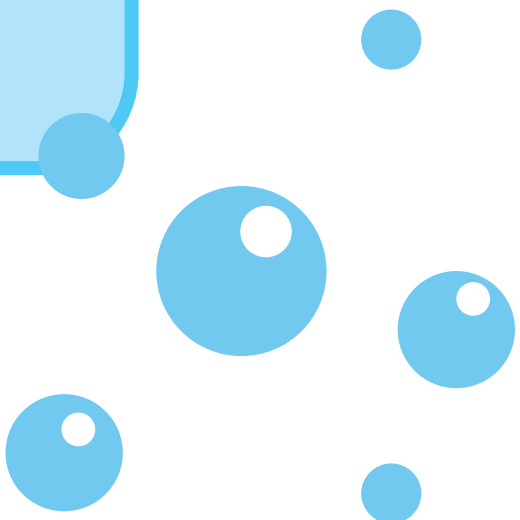
Supporting Evidence and Data

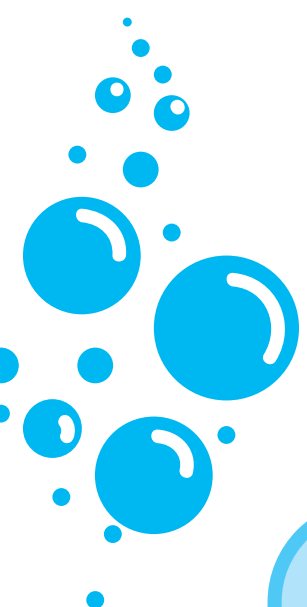


UNICEF (2023): 297,000 children under 5 die annually due to diarrheal diseases caused by unsafe water and poor sanitation.

WHO (2022): Every £1 invested in water and sanitation generates £4.30 in economic returns through reduced health costs and increased productivity.

Case study: Similar models have been piloted successfully in Kenya, Bangladesh, and Brazil with significant health improvements.

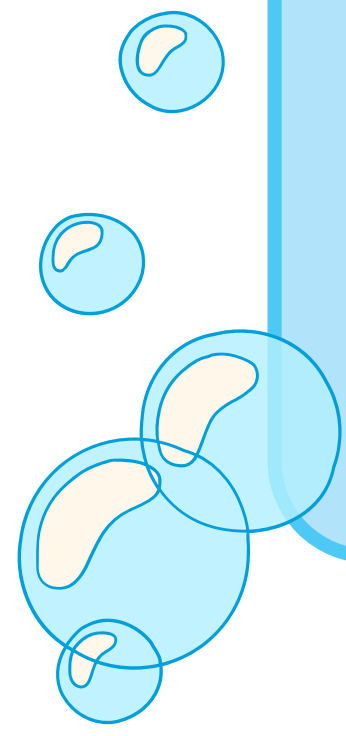




Strength and Improvement

Strength

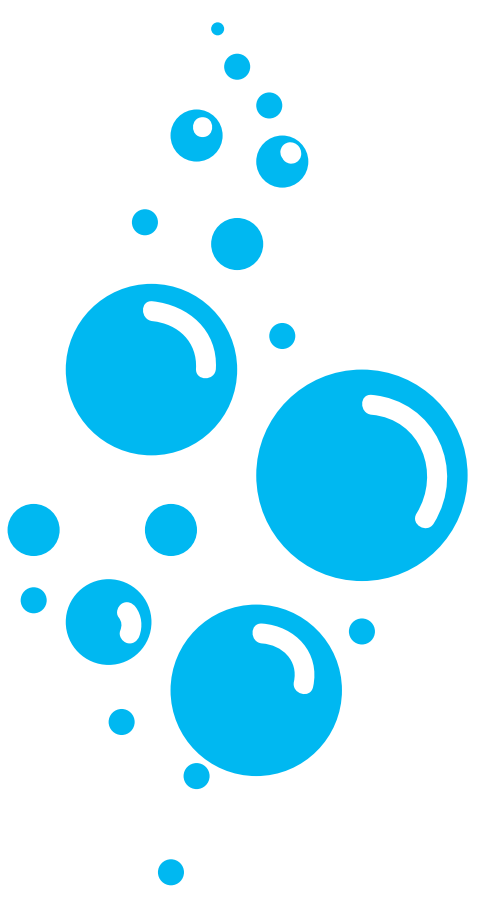
·The project's greatest strength lies in its cost-effectiveness and community ownership. Designed within a small budget, it uses affordable technologies like basic filtration systems and hygiene education to create lasting change. It empowers the community to take responsibility for maintaining water access and sanitation, fostering long-term sustainability. The project directly supports SDG 6, while also contributing to SDG 3 (Good Health) by reducing waterborne illnesses, and SDG 4 (Education) through awareness initiatives. By involving locals in planning and execution, it builds resilience, strengthens local capacity, and ensures the solution is culturally relevant and widely accepted within the community.



Improvement

Future campaign iterations might involve local government-NGO collaborations to boost efficacy and scalability. These partnerships may provide resources, technical experience, and funding. Rainwater collecting systems are useful in areas with unreliable water supplies. These solutions might improve infrastructure, water supply, and climate resilience. Councils may give regulatory support and greater implementation, while NGOs may provide training and monitoring. Such an agreement might duplicate the project regionally or nationally, not just in one city.





Conclusion

This poster provides a feasible and long-term water accessibility strategy for low-income regions. Linking the program to SDG 6 and sticking to a budget shows how innovative problem-solving and community engagement can pay off. With local engagement and understanding, this effort might be replicated in similar circumstances worldwide.





References

- UNICEF. (2023) Water, sanitation and hygiene. Available at: <https://www.unicef.org/wash> (Accessed: 13 July 2025).
- World Health Organization (WHO). (2022) Drinking-water. Available at: <https://www.who.int/news-room/fact-sheets/detail/drinking-water> (Accessed: 13 July 2025).
- United Nations. (2023) Goal 6: Ensure access to water and sanitation for all. Available at: <https://sdgs.un.org/goals/goal6> (Accessed: 13 July 2025).
- Smith, J. and Khan, A. (2021) Innovative solutions to water scarcity. London: WaterAid Publications.

The image features a central white rectangular box with rounded corners and a blue border. Inside the box, the words "THANK YOU" are written in a bold, blue, sans-serif font. The background is white and decorated with various blue water-themed elements: a cluster of bubbles of different sizes in the top-left corner, a large splash in the bottom-left corner, and a series of drips in the top-right corner. In the bottom-right corner, there are a few more bubbles of varying sizes.

THANK YOU