

WE ARE

An interdisciplinary program of the Stanford Woods Institute for the Environment that links water, health and development research conducted at Stanford University. Working with partners in Asia, Africa and the Caribbean, researchers from the Program on Water, Health and Development (WHD) are identifying ways to expand access to and increase the sustainability of water supply and sanitation service delivery, while also enhancing capacity for sustainable water and wastewater management in developing countries.

WE REACH

- Faculty and students at Stanford and partner universities
- Collaborators in government, nongovernmental organizations, development agencies and the private sector
- Households and communities in low- and middle-income countries

WATER, HEALTH & DEVELOPMENT

Worldwide, about 800 million people lack access to improved water supply services, and almost 3 billion lack basic sanitation. The economic and public health impacts of this access gap present a crisis. In sub-Saharan Africa, for example, people spend more than 40 billion hours hauling water each year. Around the world, diarrheal diseases, resulting principally from poor sanitation and water supply, claim the lives of 1.8 million people each year, virtually all of them children under the age of 5 who live in low- and middle-income countries.

Mission

The Program on Water, Health and Development is working to improve the health and well-being of households while enhancing capacity for sustainable water and wastewater management in some of the world's poorest countries.

Goals

We work with partners in low- and middle-income countries, primarily in Asia and Africa, to:

- Identify effective strategies for expanding access to and increasing the sustainability of water supply and sanitation services
- Strengthen the scientific basis for decision-making in the water and sanitation sector, particularly with reference to non-networked populations
- Enhance capacity within developing countries for sustainable water and wastewater management
- Provide unique training and learning opportunities for faculty and students at Stanford and partner universities



WHD researchers address issues ranging from water quality and quantity to resource recovery for energy and food production. The program's four focal areas are:

Expanding Access

We are researching the effectiveness of several strategies designed to expand access to water and sanitation services. These strategies include the development and testing of low-cost technologies; policies that encourage small-scale, private service providers; and the provision of earmarked microfinancing for household water and sanitation investments.

Sustainable Service Models

Designing interventions – whether infrastructure investments, information campaigns or institutional innovations – whose benefits are sustained over the long term is a major challenge. We are exploring different ways of operationalizing sustainability and identifying the conditions under which particular interventions are more likely or less likely to realize sustainability goals.

Water, Sanitation and Health

WHD researchers are employing both experimental and nonexperimental approaches to evaluate the health impacts of improvements in water supply and sanitation services, as well as in hygiene behaviors.

Water, Sanitation and Hygiene (WASH) and Development

We are exploring the impacts of productive use of domestic water supplies and household waste on both livelihoods and infrastructure sustainability. We are also identifying and testing entrepreneurial opportunities for delivering decentralized water and sanitation services.

For more information:

Jenna Davis, Faculty Lead Phone: (650) 725-9170 Email: davisjen@stanford.edu water.stanford.edu

