



Strengthening Irrigation Systems with Integrated Disease Control

Irrigation is essential for food security and economic growth, supporting millions of farmers in sub-Saharan Africa.

Key Facts

Irrigable area in sub-Saharan Africa can be expanded by 40 million hectares, particularly in countries like Malawi, Ethiopia, Zambia, and Swaziland.

irrigation schemes have raised concerns about the steady transmission, and amplification, or introduction of new vector-borne infectious diseases in the areas involved

How Irrigation Can Create Conditions for Vector-Borne Diseases

Factors That Worsen the Vector-Borne Disease Burden

Stagnant water in irrigation canals, reservoirs, and rice paddies creates ideal breeding sites for vectors

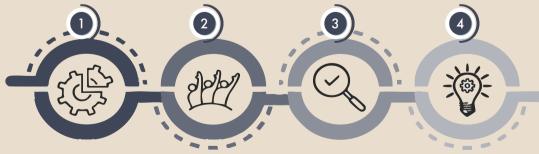
Expanding irrigation increases exposure—farmers, labourers, and rural communities face a higher risk of malaria, schistosomiasis, and other waterborne diseases.

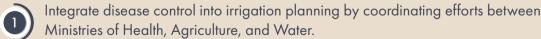


Lack of integrated health policies in irrigation projects means VBD control is often overlooked in agricultural planning.

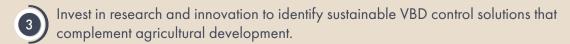
Climate change can worsen the problem, altering rainfall patterns and expanding the geographic range of vector-borne diseases into new irrigation zones.

Policy Recommendations













ABOUT

The Shire Valley Vector
Control Project (Shire-Vec) is
a is a research collaboration
investigating vector borne
diseases (VBDs) in emerging
agricultural systems in
Malawi. Communities
within the Shire Valley
Transformative Project
(SVTP) area are the primary
beneficiaries.













