

6 3R/MUS approach

One of the tools in the Hydrological Toolbox to make the 3R and MUS approaches more practicable. It provides a spreadsheet based framework to determine the number of strategic interventions up to parish/village level required to bridge the calculated water gap. Based on MUS and RIDA, the tool assesses the resources and infrastructure on the one hand, and water demand and access on the other. Acquired information should then be verified with 3R and deep groundwater potential maps to determine the locally most suitable intervention opportunities. This should always be followed by an on-the-ground field assessment of the selected site(s). In this way the 3R and MUS-based tool contributes to well-informed decision making, strategic planning and a sustainable investment of water source interventions.

MUS

MUS stands for Multiple Use water Services. It takes water demand as the starting point for an assessment of the needed quantity, quality and distance of the water supply. The 'Use' is seen as different purposes: for example, drinking, cooking and bathing.

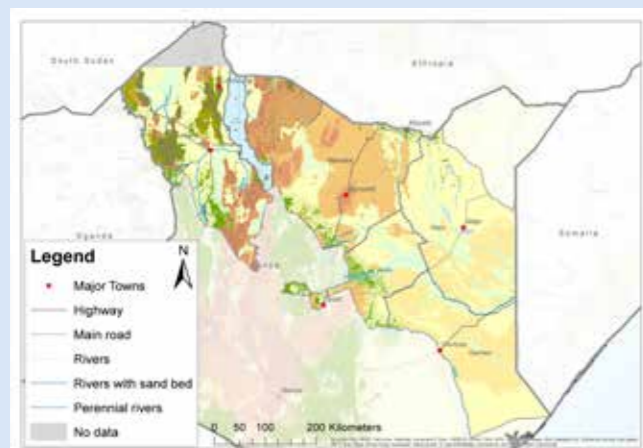
3R

The 3R approach stands for 'Retention, Recharge and Reuse of water', which aims to store water when it is plentiful. 3R technologies are often low-cost, making use of natural available materials, whilst the implementation of multiple, cascading interventions will increase water storage efficiency in a larger area.



7 Knowledge transfer and dissemination

The tools will assist the counties to design the governance framework. The county government will be strengthened by providing a combination of a policy framework data and tools. All recommendations are based on 3R and deep groundwater potential, MUS and IWRM to increase their knowledge and capacity to make better, well-informed decisions. Eventually increased access to water for drinking, other domestic uses, livestock and other productive activities in a sustainable manner is the goal.



3R potential Map of the 5 Northern counties

KENYA RAPID

The hydrological component

Colophon

Acacia Water
www.acaciawater.com
info@acaciawater.com
 +31 182 686424

Van Hogendorplein 4
 2505 BM Gouda
 The Netherlands

Authors:
 Stefan de Wildt
 Tine te Winkel
 Dr. Arjen de Vries



