



**REPUBLIC OF RWANDA
RWANDA AGRICULTURE AND ANIMAL
RESOURCES DEVELOPMENT BOARD (RAB)
Office of the Director General
KIGALI-RWANDA**



Water efficiency promotion

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Introduction

- Water efficiency is a multi-faceted concept.
- It means “doing more and better with less”
- Obtaining more value with the available resources;
- Reducing the resource consumption;
- Reducing the pollution and environmental impact of water use;
- Increasing water productivity;
- improving the allocation of water among competing water users improving the allocation of water among competing water users;
- obtain greater socio-economic value per drop of water.

Domestic Water use efficiency

- Installing water-saving devices and repairing leaky pipes, faucets, and toilets could save thousands of gallons of water per person each year;
- The installation of indoor plumbing fixtures that save water the installation of indoor plumbing fixtures that save water;
- Low-flush toilets, Toilet dams and displacement devices, Low-flow showerheads, Faucet aerators, Pressure reduction, Washing machines, Greywater;
- Change water wastage behaviours (during car washing, crop watering etc...)

Water use efficiency in Agriculture

- Agriculture is the largest consumer of water and total evapotranspiration from global agricultural land could double in next 50 years;
- There is an imminent need to improve the water use efficiency or more importantly the water productivity,
- Climatic conditions, soil type and structure, plant type, and the irrigation techniques applied are among the main factors that influence the efficiency and effectiveness of irrigation practices.

Water efficient use common practices

- Drip Irrigation. Drip irrigation systems deliver water directly to a plant's roots, reducing the evaporation that happens with spray watering systems. ...
- Capturing and Storing Water. ...
- Irrigation Scheduling. ...
- Drought-Tolerant Crops. ...
- Dry Farming. ...
- Rotational Grazing. ...
- Compost and Mulch. ...
- Cover Crops.

Water efficiency promotion achievements

- Completed large scales irrigation projects(GFI-Nyagatare and Kirehe, Buffet, BRAMIN);
- **Studies:** Gabiro NETAFIM, Cyohoha, Rweru, Gashora
- National target: 100,000Ha by 2020
- Small scale Irrigation Technologies: Subsidized program
- Water Users Organizations: 110 nationwide in both marshlands and hillsides irrigation schemes

Irrigation Water Users Organization (MO 001/11.30 of 23-11-2011)

- National: IWUAs Support Unit/RAB;
- District: District Irrigation Steering Committee (DISC);
- Scheme: Scheme Irrigation Steering Committee (SISC), IWUA General Assembly;
- IWUAs Executive, Audit, conflict resolution , zonal committees;
- Technicians (irrigation engineering, security, finance....)
- Farmers cooperative**

Water efficient use in Kagitumba irrigation scheme



Water use efficiency technologies-SSIT Program RAB



Water use efficiency technologies-SSIT Program-RAB



Water saving- Soil plastic cover-Water melon



Water saving technologies-Soil plastic cover/Green houses



Indoor cultivation for water saving



Conclusion

- Water use efficiency equals greater socio-economic value per drop of water;
- Requirement of multi-stakeholders engagement in all water use domains;
- Water use efficiency requires skills development and behaviour change for different water users;

LEAVING NO ONE BEHIND.