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Feed the Future Rwanda *Hinga Weze*

Supporting Smallholder Farmers to Access Small Scale Irrigation Technology

March 20, 2019



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CONTENT

- 1. Hinga Weze project: Goal & Components**
- 2. Hinga Weze targets**
- 3. Presentation's objectives**
- 4. Challenges of SSIT**
- 5. Irrigation equipment to be financed**
- 6. Irrigation finance actors**
- 7. Open co-funding model to access irrigation equipment**
- 8. Hinga Weze and RAB co-financing model**
- 9. Hinga Weze and RAB design**





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FEED THE FUTURE RWANDA *HINGA WEZE*



Sustainably increase
smallholder farmers'
income



Improve nutritional
status of Rwandan
women and children



Increase the resilience of
the agriculture and food
systems to the changing
climate.





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HINGA WEZE COMPONENTS



Component 1:

Agriculture productivity
sustainably increased



Component 2:

Farmers' market access
improved



Component 3:

Nutrition outcomes of
agriculture interventions
improved



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TARGETS OF HINGA WEZE UNDER C1

200,000 farmers

that have increased their agricultural productivity (yield) by 50%

4,000 hectares

of terraces developed

600 hectares (Grant)

of farmland irrigated by activity-funded irrigation infrastructure

535,000 farmers

and others that applied improved technologies or management practices



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Objective: Support Access to Small Scale Irrigation Technology (SSIT)

- Mobilize financial and non-financial support for SSIT development
- Engage private institutions for irrigation investment
- To discuss and develop models for supporting access irrigation equipment
- Support small holder farmers near water bodies to produce more with irrigation (SSIT)
- Improve the technical model to be more sustainable, environmental friendly and affordable for small holder farmers





Challenges in SSIT

- Higher cost of available irrigation equipment in Rwanda (some of them are imported)
- Lack of information on the access to the irrigation equipment and financing opportunities
- Higher cost of operating energy (electricity and fuel)
- Market availability of the irrigation equipment (supply and demand)
- Low level of skills and technologies in irrigation
- Lack of mobilization of irrigation funds (banks and donors)
- Climate changes effects (shocks) in agriculture
- Lack of improved technical model to be more sustainable, environmental friendly and affordable for small holder farmers
- Lack of infrastructures in rural areas (roads and electricity)





Irrigation equipment to be financed

Investment line

Water intake:

Intake channel/Drilling
Panels/Electricity/Fuel
Fuel motor pumps
Solar motor pumps
Control units

Water distribution system:

Pipe networks
Hydrant
Drip
Sprinkler
Hose pipe

Water storage:

Dam sheet reservoir
Clay rip-rap reservoir

Running line

Operation cost/year:

Operator

Energy bills

Maintenance cost/year

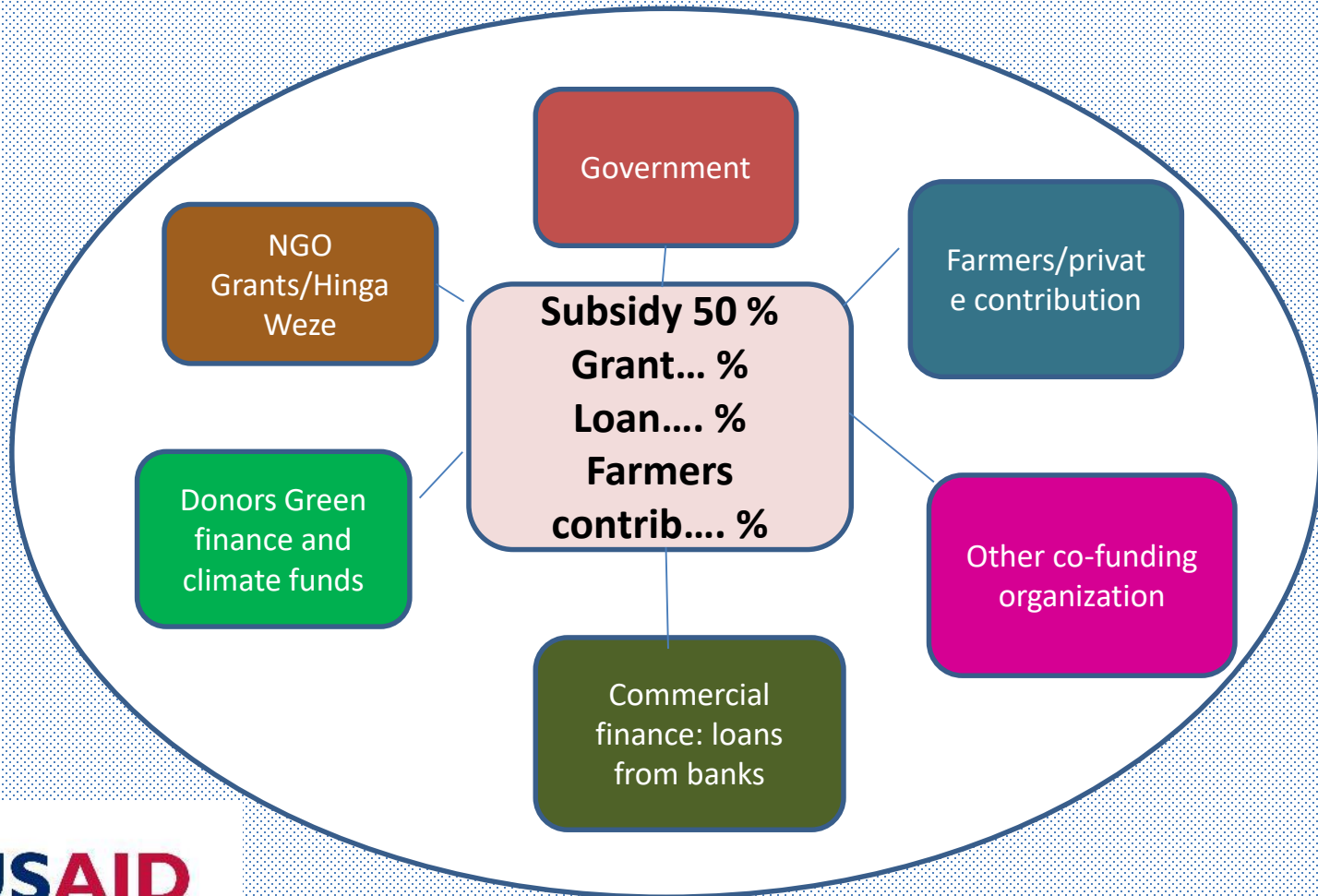
Repair and replacement

Daily routine maintenance





Irrigation finance actors

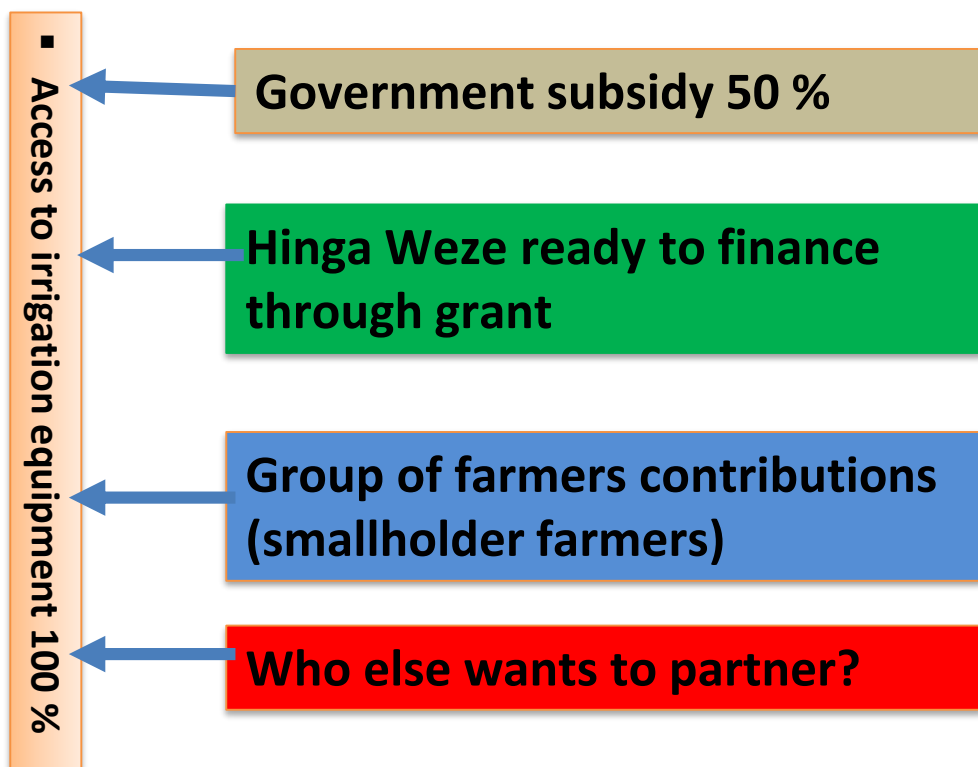




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Open co-funding model = Access to irrigation equipment



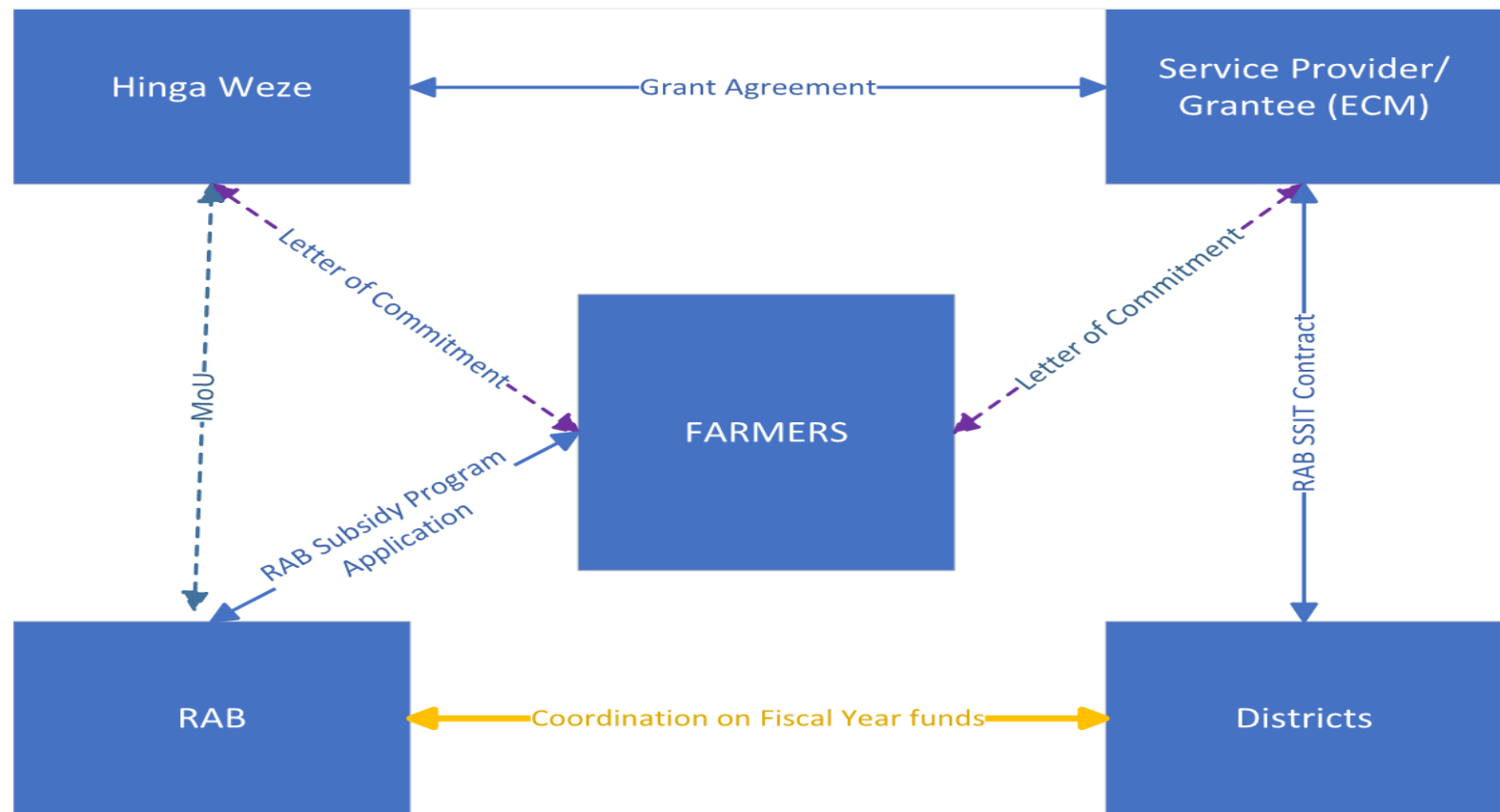
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Hinga Weze and RAB co-financing model



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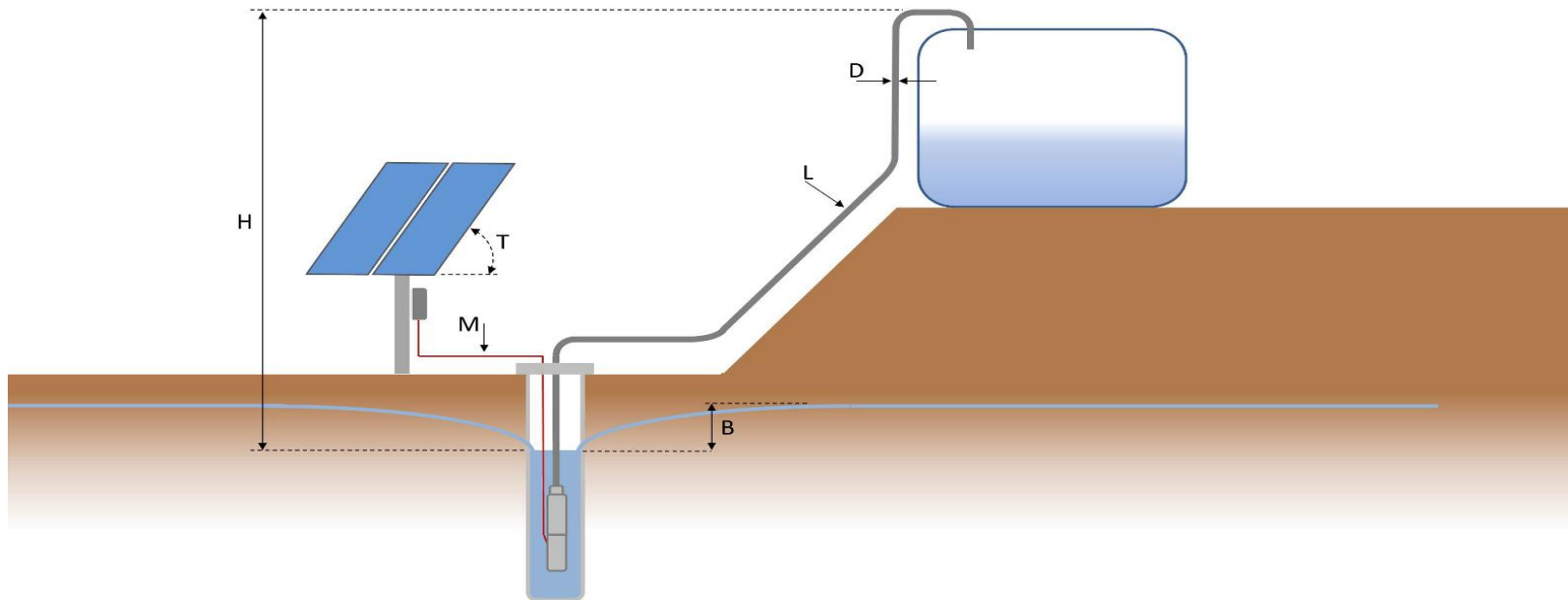


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Hinga Weze and RAB design

Promoting Smart Irrigation Solar Pump



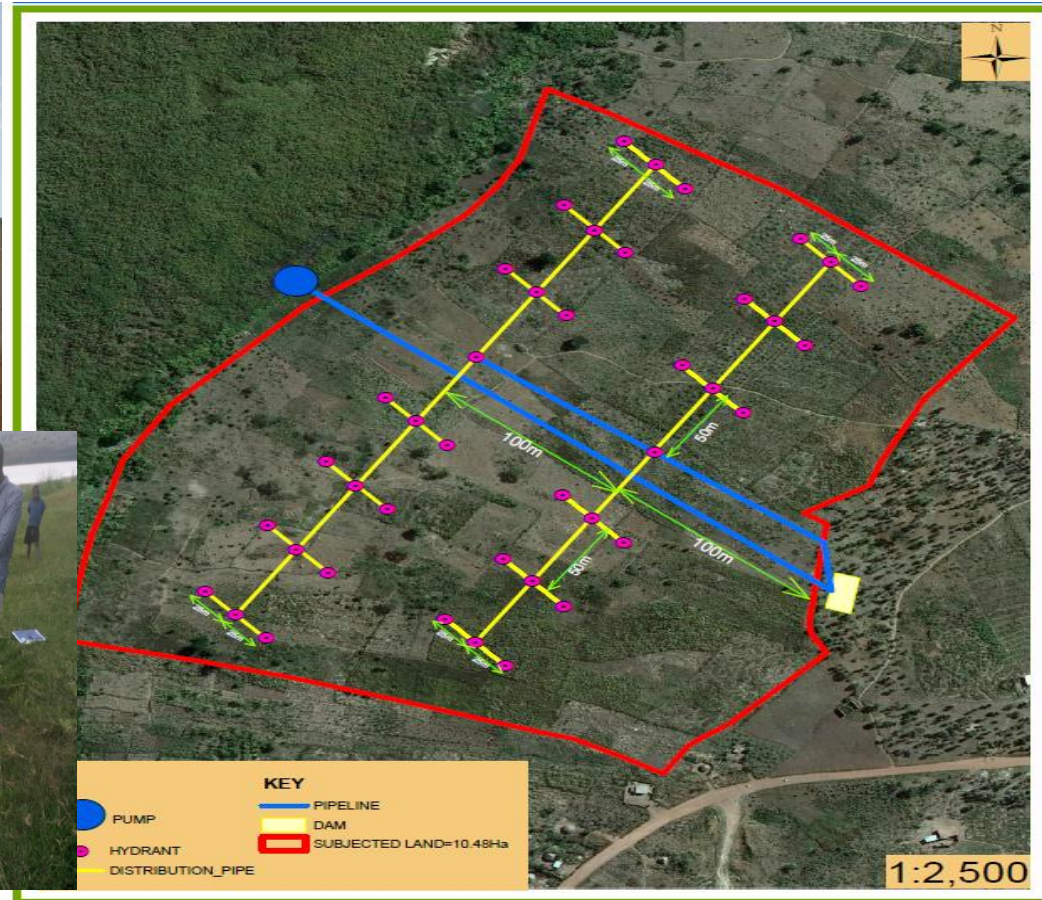
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Irrigation reservoir under Hinga Weze



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Questions?

Suggestions?



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Way forward?



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