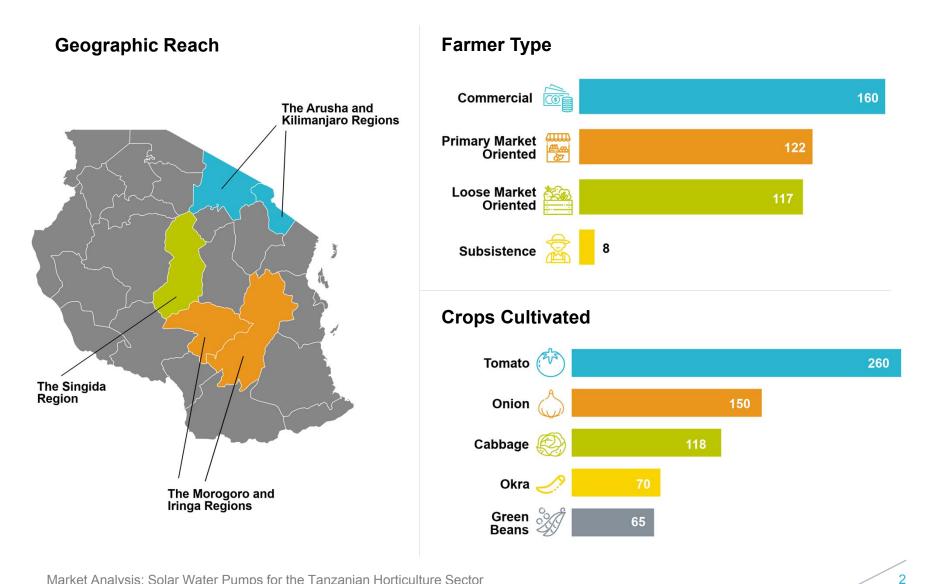


Market Analysis: Solar Water Pumps for the Tanzanian Horticulture Sector

Makena Ireri, CLASP 19 January 2019

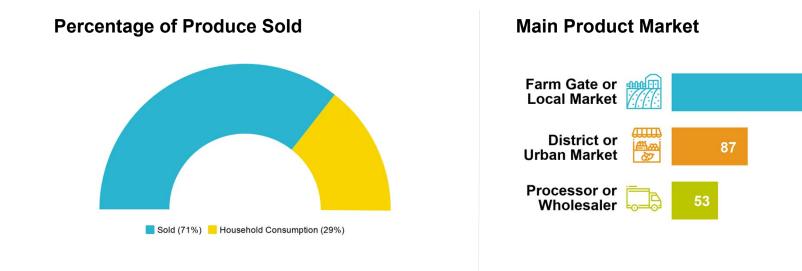


Farm and Farmer Characteristics

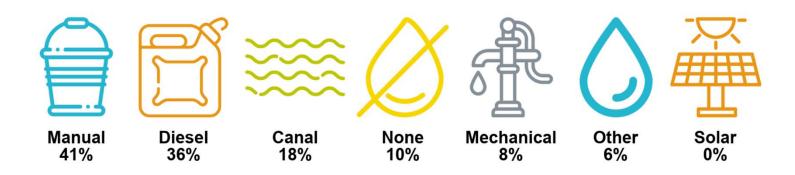


Market Analysis: Solar Water Pumps for the Tanzanian Horticulture Sector

Farm and Farmer Characteristics



Technology Used



Market Analysis: Solar Water Pumps for the Tanzanian Horticulture Sector

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Market Size and Farmer Typologies

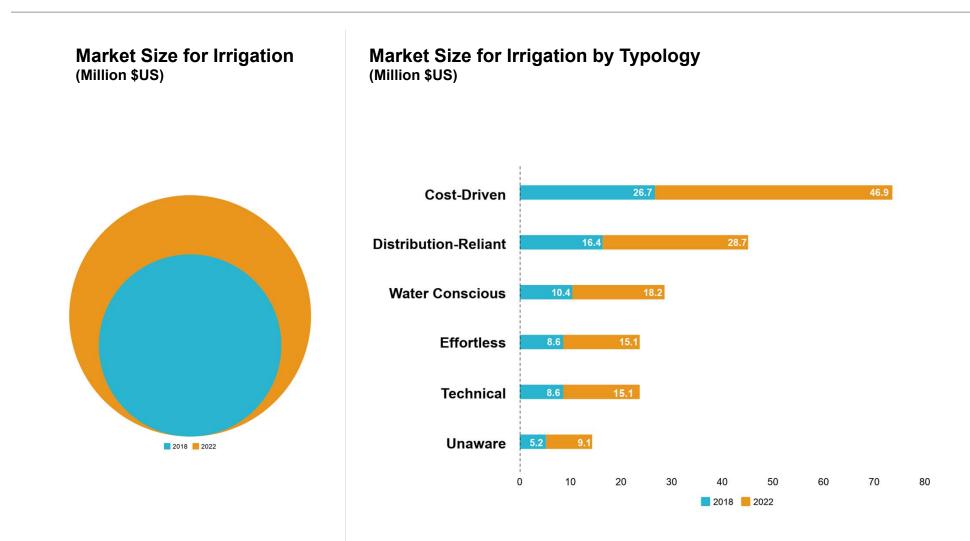
- Top-down approach to calculate the market size and potential for SWPs
- Developed two *a-priori* segmentation models
 - Market orientation approach
 - Current irrigation technology
- After carrying out the two a-priori approaches
 - Not enough differentiation between groups
 - Both methods underestimate the impact of purchase drivers
- Constructed six typologies from purchase driver analyses



Farmer Typologies

Segment	Market value (%)	Avg. Inc. (\$US)	CapEx (\$US)	Tech	Area (Acres)	Needs (L/hour)	Satisfied (%)	Channel(s)
Cost-Driven Farmer	31	2,044	32	Manual	0.7	2,216	47	Farm gate; local market
Distribution-Reliant Farmer	19	2,305	127	Diesel	0.8	1,961	40	Farm gate; wholesalers
Water Conscious Farmer	12	3,000	60	Canal	1.0	3,026	42	Farm gate; wholesalers
Effortless Farmer	10	2,174	79	Mechanical Manual	0.8	2,453	31	Farm gate; local market
Unaware Farmer	6	2,652	165	Canal	0.9	1,870	44	Wholesalers; farm gate
Technical Farmer	10	2,913	123	Diesel	0.8	2,655	55	Farm gate; local market

Market Size



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Off-grid Cold Chain Challenge



- Off-grid cold storage companies have the potential to:
 - prevent food spoilage

Appliances that Drive Economic Growth

- raise incomes and increase food security
- The OGCCC will try to bridge technology gaps and reward promising business models
- First stage of challenge completed and 10 Finalists selected



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Finalist- Off-grid Cold Chain Challenge



Appliances that Drive Economic Growth

Questions?

