Scaling self-supply with the SMART approach A promising development in Zambia

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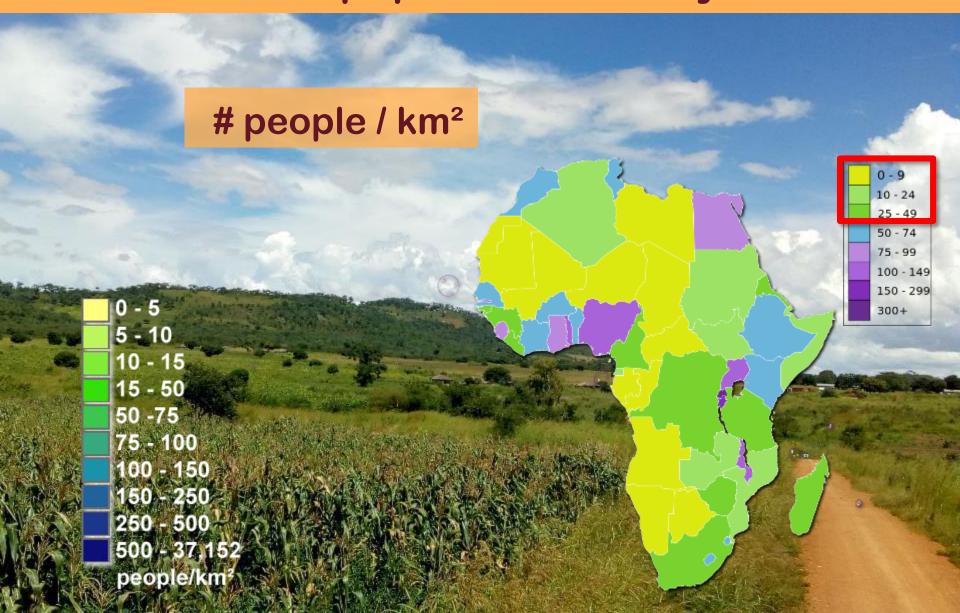
The SMART approach

Simple, Market-based, Affordable, Replicable, Technology

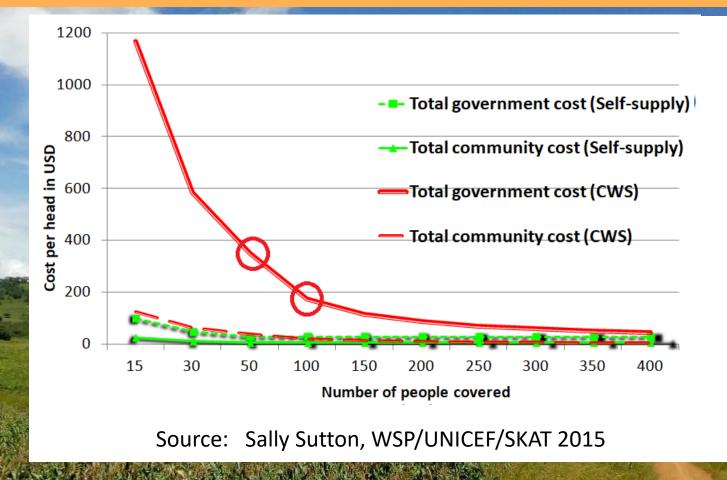
Focus on:

- 1. Cost reduction. local production, innovation
- 2. Business development. Train local private sector
- 3. Productive use. Family systems, Self-supply
- 4. Household Water Treatment. Filters

Can we reach SDG6 in remote areas? Low population density



Costs of machine drilled borehole and imported pumps per person



100 users costs: 180 \$ /person

50 users costs: 370 \$ /person

Community owned

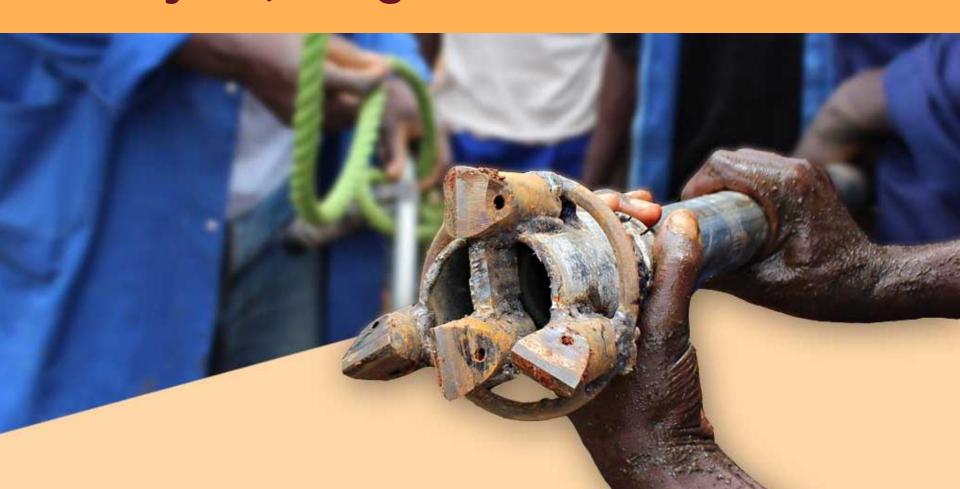
Family owned



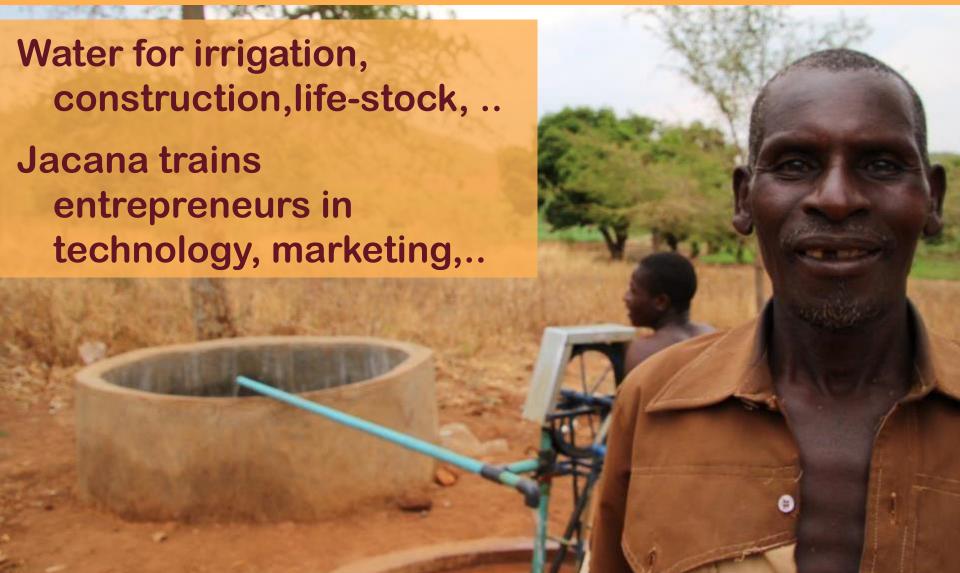
Approach of the Jacana SMART Centre Zambia

- Show case areas, subsidies for xx pumps
- Pumps installed at families; Family based management instead of Community Based
- Families only get subsidy for a pump if they can prove they make profit with it

Entrepreneurs for water Drilling companies make profit Hard layers, Tungsten bits

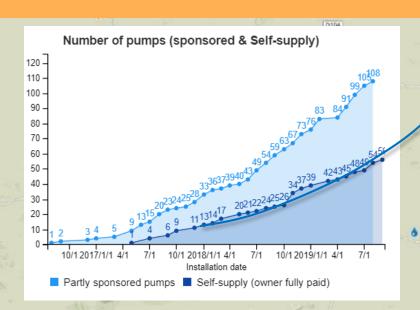


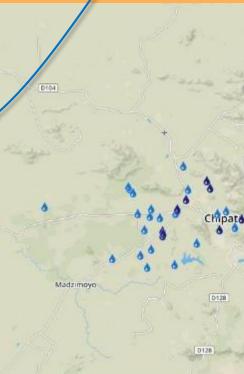
Water for Entrepreneurs Water users make profit



Results







11 pump fabricators

12 drill companies

164 pumps (9,553 people)

Entrepreneurs go on after training

www.jacana.help/mwater

Mchinji

Rope pump, who paid for the pump'

- The owner (not sponsored)
- Partly sponsored

Results



Conclusions SMART approach

- Subsidised pumps create market for self-supply
- Self-supply pumps go on after program stops
- Convenience + profit = guarantee for maintenance
- 5 SDGs for the price of 1!!
 1.Poverty, 2.Food, 3.Health, 6.Water, 8.Employment





Scale up?

Most important condition; the 3 Ts

- 1. Training
- 2. T...
- 3. T...



Training in technologies for self-supply? SMART Centres in 5 countries

