Serving the BOP:

The WaterMarket

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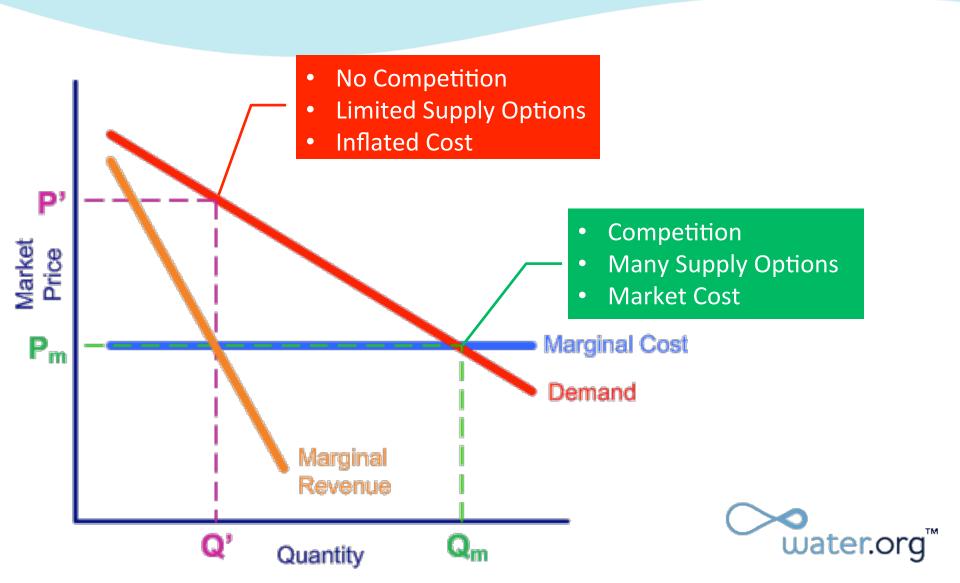


The Current Water Market





The Current Market for Water





Three Purposes of WaterMarket



- To match buyers and sellers of water supply
- To expand microfinance opportunities
- To provide health advice regarding water and water related diseases



WaterMarket Menu

WaterMarket

The daily local water market information



Get your Own Hookup

Information about
Microfinancing and Savings
Plans that enable users to
obtain Personal Water
Access and Sanitary Devices

Facts about Water



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Find the best water option for the day

Compare prices

Compare distances



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Deposit into savings for personal hookup

View promoted loan options



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Get your Own Hookup

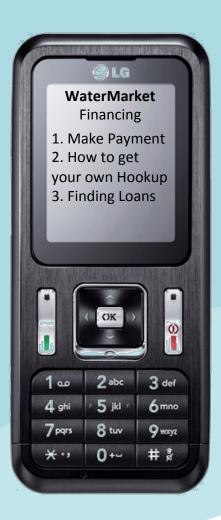
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Learn about financing a water hookup or toilet

Learn how to find the best rates

View promoted offers

Make a Payment



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Facts about Water

Education, Tips, and Query about Water and Sanitation



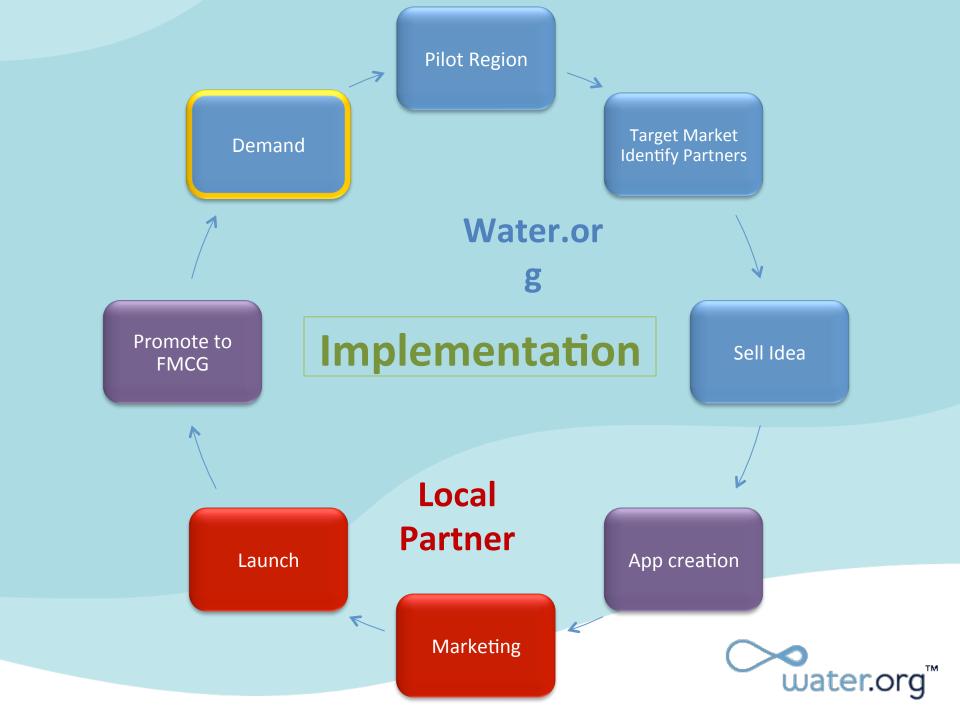
Education on Clean Water

Education on Sanitary Practices & Equipment

Tips on ways to stay Healthy

Query





The WaterMarket

Accessible

Sustainable

Scalable

Why it Works



Widespread & Affordable



- 1 of every 2 people in the world own a cell phone
- There will be 894 million mobile banking users by 2015*
- No requirement for specific technology (i.e. SMS, USSD, 3G)
- Minimal transaction cost to the user



Profit-Based Approach

- Transaction fees
- Market for complementary goods
- Advertising venue
- Market Data

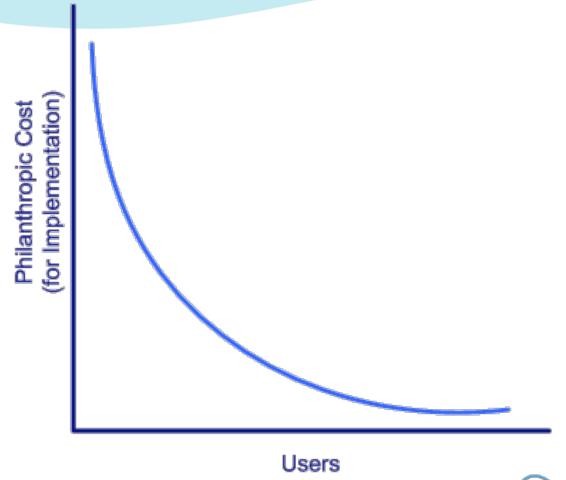


- Time
- Access to water
- Reduced water cost
- Education

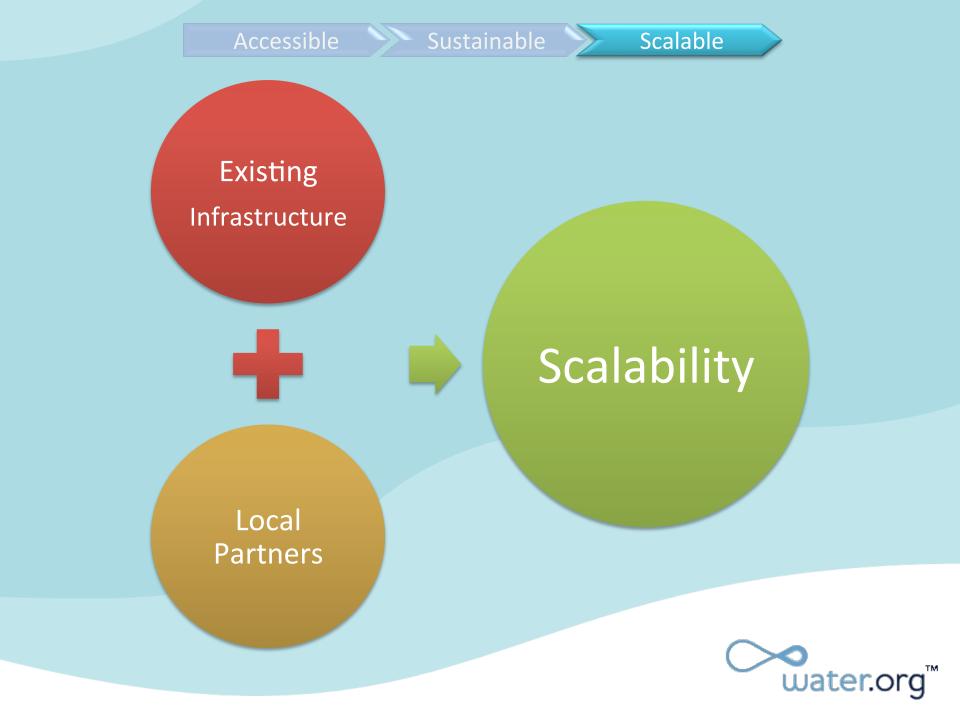
- Job opportunities
- Increase in income



Philanthropic Cost per Person







Mechanisms serving the BOP



QUESTIONS



BACKUP SLIDES



WaterMarket Risks

Risk	Analysis
Insufficient Demand	Low cost for Failure
Exploitation of BOP through B-Market	Mitigate with Purchase Limits
Difficulties in finding mobile banking and cellular service partners	Low cost for Failure
Contaminated water in market	Mitigate with initial water test for seller



User Costs

- .03 USD per 20 sec session USSD [South Africa] https://www.vodacommessaging.co.za/tariffs_ussd.asp
- .12 USD for money transfer to registered user(.60-1.21), .91 USD for non-user (1.21-30.21) [Kenya]

http://www.safaricom.co.ke/index.php?id=255



Unstructured Supplementary Services Data (USSD)

- Uses a session approach rather than a save & send approach like SMS
- Used for menu-based applications
- Used for location-based applications
- Phase 2 USSD allows a "push" application where the network can initiate a session
- Real Time
- Cheaper than SMS
- Supported by the same handsets as SMS (GSM)
- Communicates directly to the Home Location Register (HLR), so the services are the same even when in roaming
- Allows for voice channels?
- USSD is supported by WAP, SIM Application Toolkit and CAMEL enabling scope for many applications



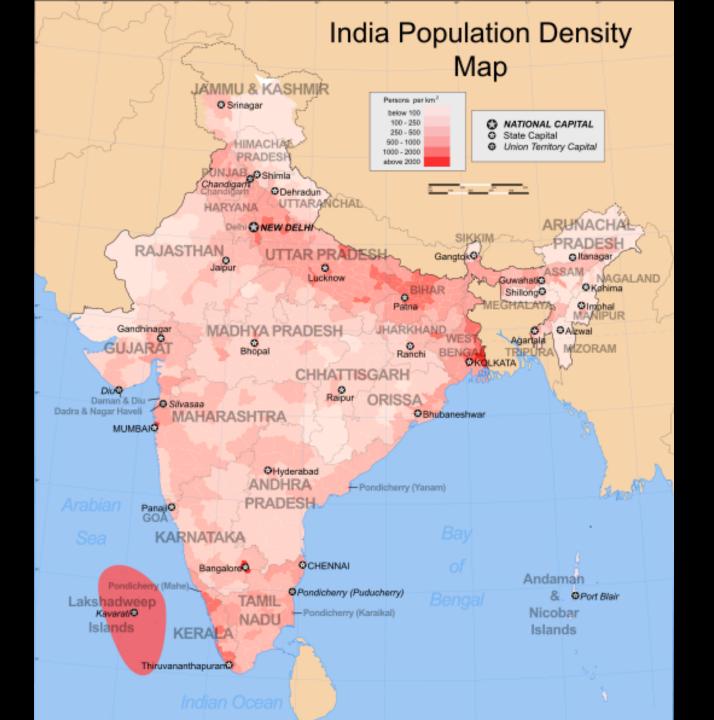
Water Market Pilot:

The case for India

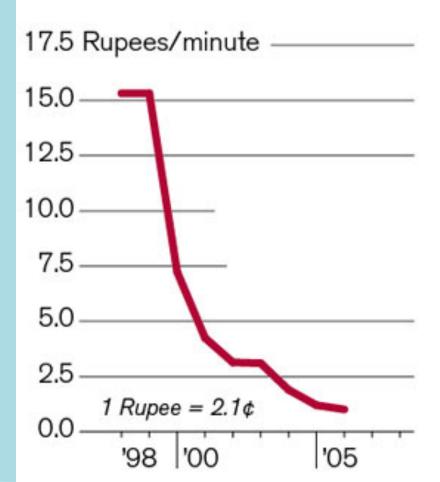


- Projected 97% cell phone use by 2014
- Large megacities
- 52% live in poverty
- An estimated 21% of the country's diseases are water related
- 128 million without water
- 839 million without sanitation

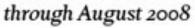




Mobile charges in India



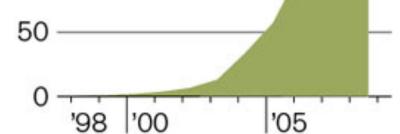
Mobile subscribers in India



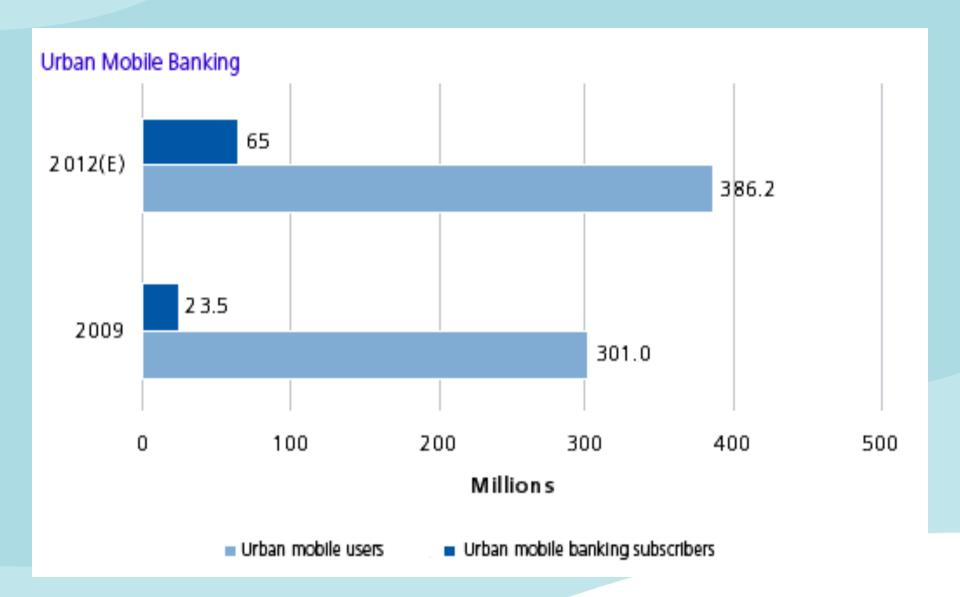














Water Testing

- Bacteriological medium is combined with a water sample
 - » Does not need to be boiled
 - » Does not need to be autoclaved

 Will cost under \$1, and possibly even as low as 10 cents



Initial Implementation

Educate existing SHGs to publish rates

Encourage SHG's to educate communities

Create a network effect

