HGCC Competition

Hult International Business School



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AGENDA

- Water Org Objectives & Challenges
- The Synergy, Idea in Brief
- 3 Pain Chain
- Timeline Activities, Finances & Challenge of Space
- 5 References

Key Objectives & Challenges

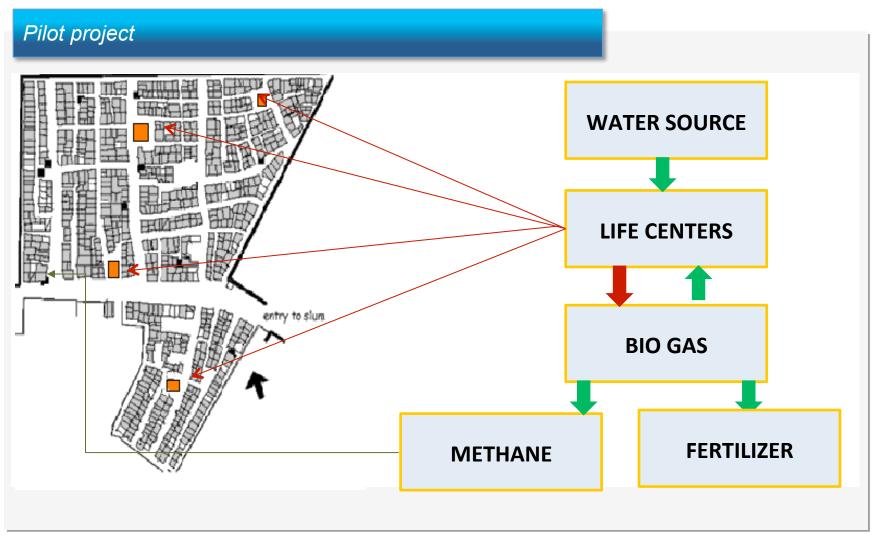
Key objectives

- Affordable and safe water and sanitation to the BOP
- Move beyond WaterCredit (i.e. microfinancing)
- Find bigger and bolder solutions to achieve growth beyond 10 million people in 5 yrs
- Leverage business models from industries outside watsan
- Explore franchise solutions for entrepreneurs at the BOP to deliver water profitability
- Connect innovations in new ways to create sustainable solutions

Key Challenges

Cheap, Simple, Sustainable, Scalable and Transferrable

Feasibility Study

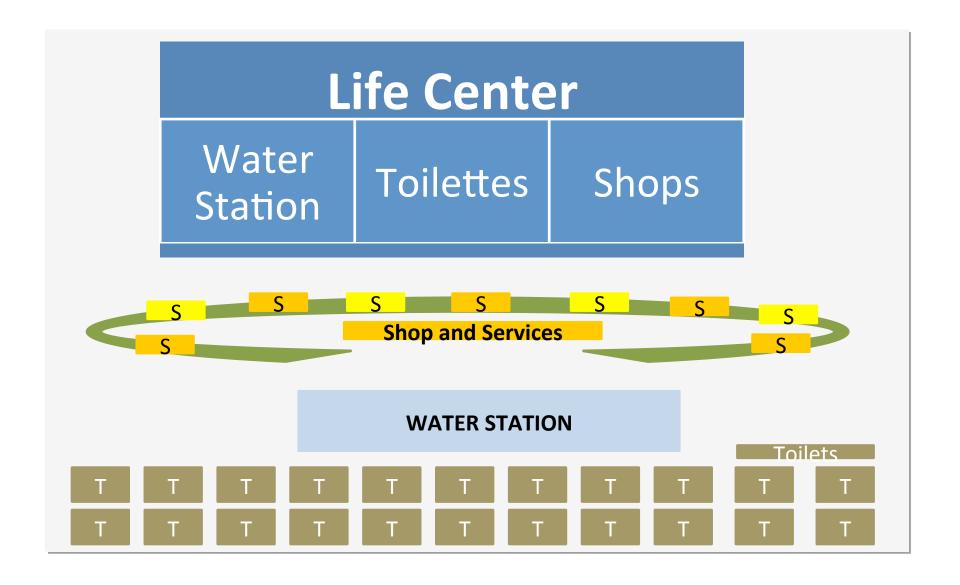


Sen, S & Hobson, J. (2005). The Pune Slum Census. Shelter Associates, Pune. India. Retrieved on February 28, 2011 from http://en.wikipedia.org/wiki/Pune

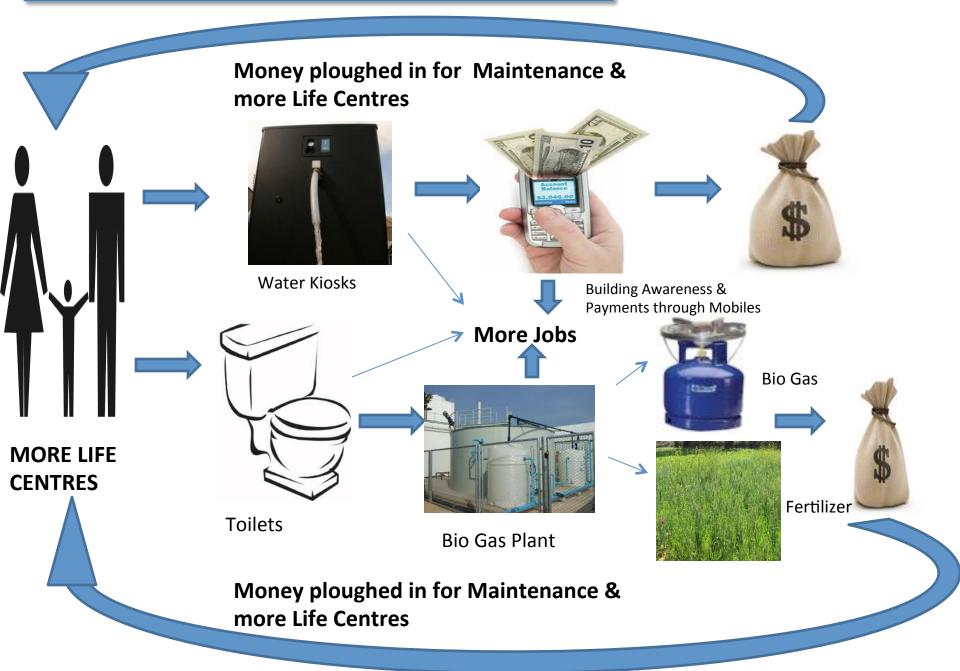
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The Synergy Solution: One-stop shop for community needs



The Business Model



The Solution-Life Centre



The Solution- Affordable Clean Water

Capital Investment

- Raised via Water Credit \$9 per person (existing cost is around \$26// person)
- and combination of community, social venture funds (e.g. Acumen fund, Schwab foundation etc.) and government offset subject to availability

Sustainability

• 10% maintenance fee withheld from each transaction (Price = \$0.0002/Lt)

Create jobs

- Women sell cards for water mobile credit
- Men jobs in day-to-day operations & distribution system (hand-carts)

Risk Assessment

 Similar Installations successfully implemented in Africa and Central America by Grundfos.

Profitability

- EBIT = \$1.2million/year
- ROI = 20%, IRR =19%

The Solution-Free Sanitation

Capital Investment

- \$407,000 (plant) & \$90,000 (1,000 toilettes)
- Funded by:
- 50% of total cost is funded by Ministry of New Renewable Energy, Government (existing scheme)
- Advertising Revenue from the Life Centre

Sustainability

- Profits and maintenance come from sale of bio-gas and fertilizer
- Franchised to local Entrepreneurs

Risk Assessment

- 2 plants already constructed in Haryana with Government funding
- Eco-tact Nigeria

Profitability

- EBIT = \$118,000/year
- ROI = 40%, IRR =25%

The Solution- Ancillary Services & Advertising Revenue

Advertisements Revenue

- Provide store space to Government for Ration shops
- •Local Entrepreneurs Economic products like homemade sanitary napkins, Tea stalls etc
- •Social Media Advertising in India \$20 million/ year growing @ 10%/ year
- •Negotiate contracts on Countrywide/ State wide or District wide sponsorships.
- •Leverage Water.org contacts with Hindustan Lever, Pepsi Co, Master Card (Kenya) Tie up with Telecom partner IDEA Cellular India

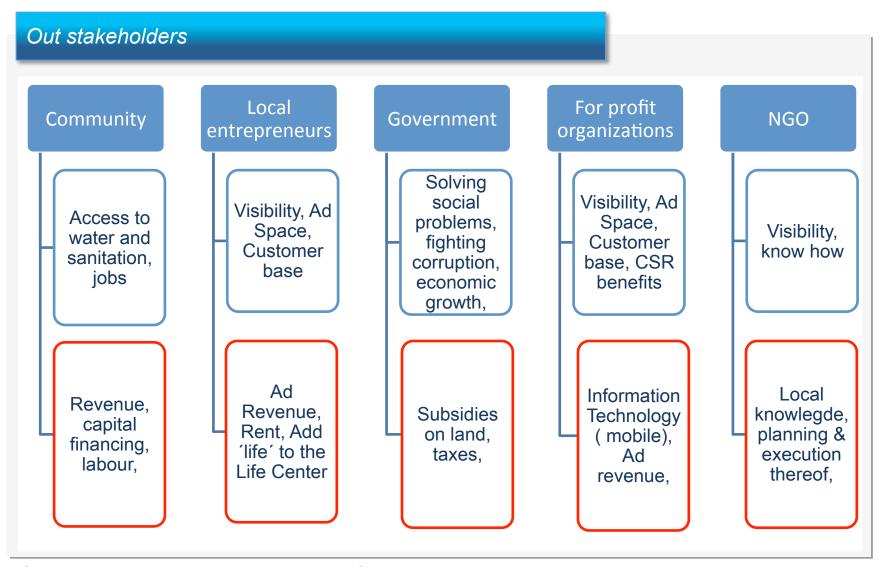


Case Notes: Hult International Business School Publishing. (2011). Accelerating Water.org's vision

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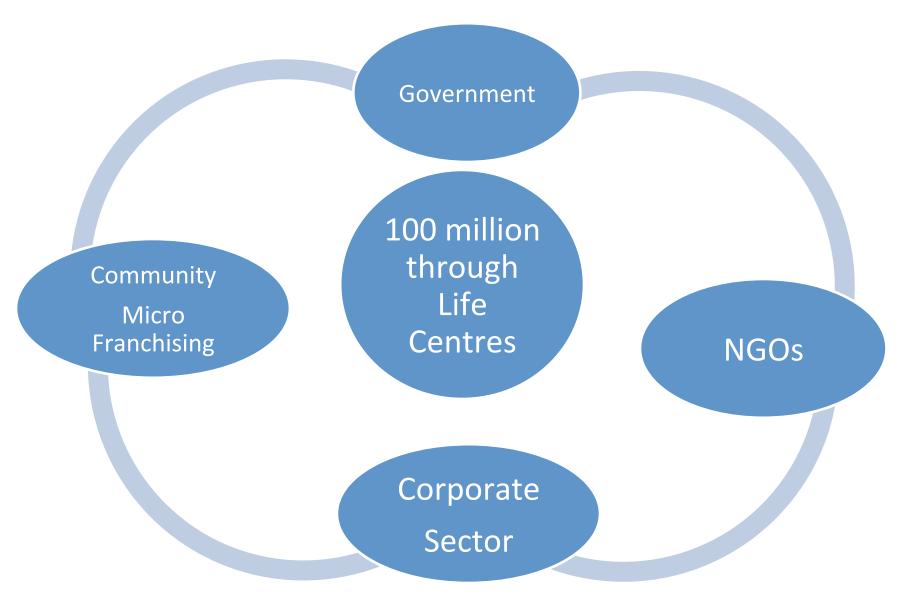
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Pain Chain Chart



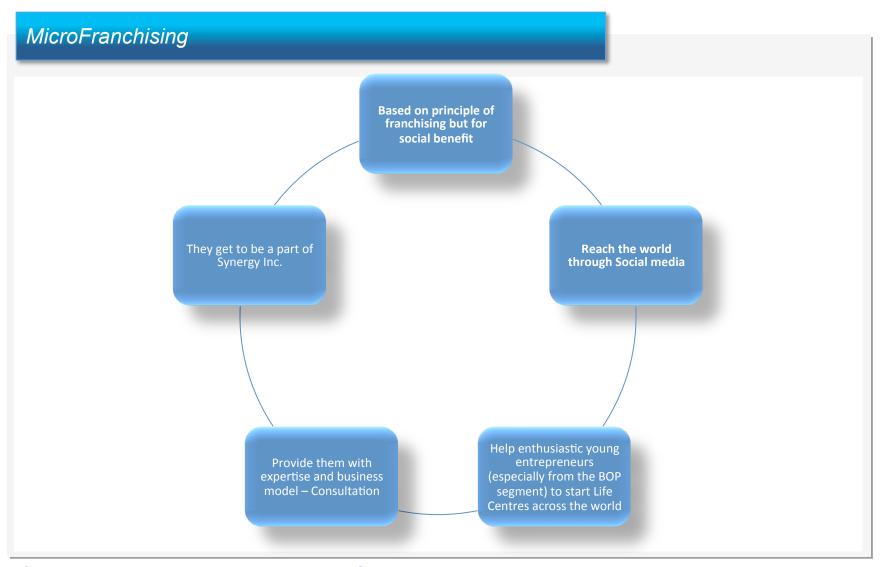
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Out stakeholders





The Solution- MicroFranchising



Case Notes: Hult International Business School Publishing. (2011). Accelerating Water.org's vision

The Solution – Mobile Banking

Mobile banking

Partnership with local telecom and bank the community member will receive water banking services via their mobile phones. (EXAMPLE: 'Obopay' in Mumbai). The water money can be simply re-loaded and paid by customers through a simple text message.

Water credit is deposited in a bank account



Each bank account is connected to a MOBILE NUMBER



Unique mobile
payment system (MPESA) and a pre-paid
FOB key (with Radio
Frequency
Identification
Technology) is used

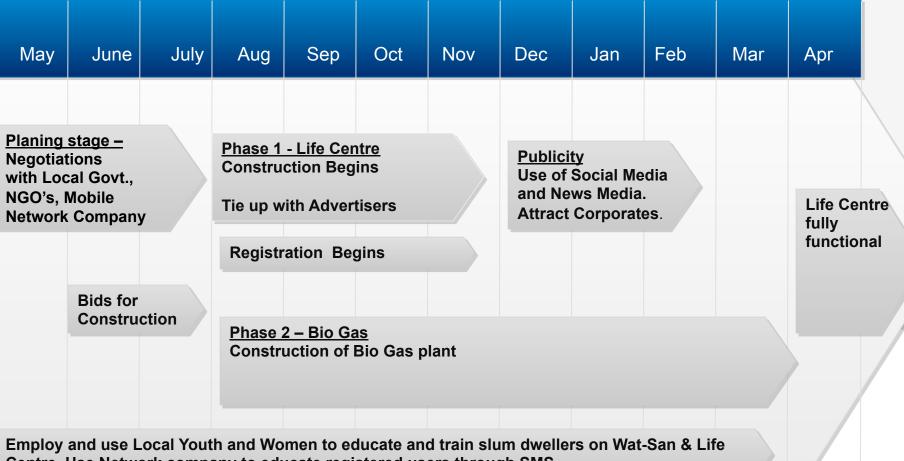
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TIMELINE Activities

The first 12 Months

2011 2012



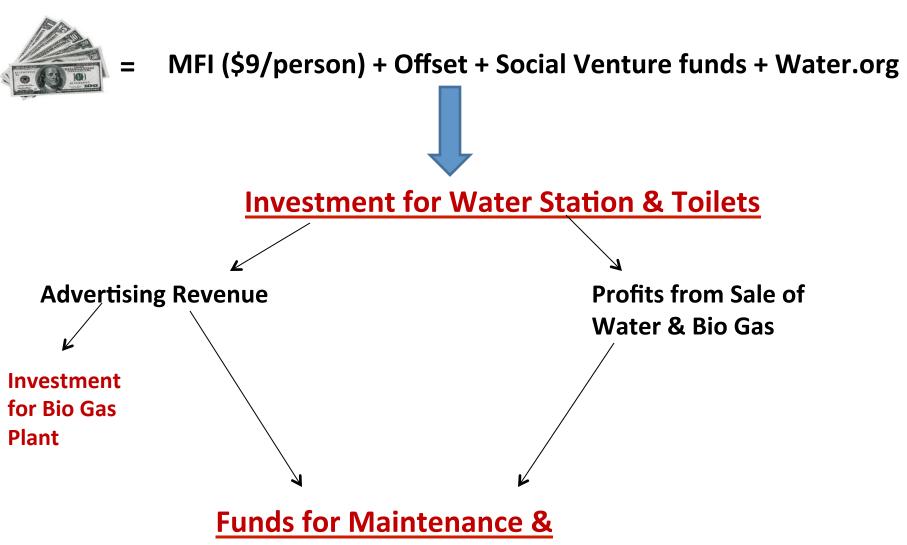
Centre. Use Network company to educate registered users through SMS.

Financial Information

Clean Water: Funds Raised by WaterCredit	
Cost of Life Centre Water Station (includes borehole, UV, pumping system, solar panels, mobile banking and training)	\$9.0 per person
Price of water per liter	\$0.0002
Revenues per year (average consumption 100lt per day)	\$7.3 per person
Profit per year (assuming 30% operating expenses and 10% maintenance costs)	\$4.4 per person
ROI	49%
Sanitation & Biogas Production: Funds Raised from Advertising Revenues in Life Centers	
Cost of Biogas Plant (daily capacity of 1000m³)	\$403,000
Ministry of New Renewable Energy, Government of India will fund 50% of the total project cost	-\$201,500
Cost of toilettes (1,000 per community) installed at Life Centers	\$90,000
Total cost of Sanitation and Biogas Plant - Covered by Advertising Revenue	\$291,500
Revenues from selling 800m³ of biogas (200m³ of biogas used to power plant)	\$116,168
Revenues from selling 3.96 tones of fertilizer to farmers	\$80,819
Total Revenues from selling methane and fertilizer	\$196,987
Profit per year (assuming 40% operating expenses and rebates for grey water returned)	\$118,192
ROI	41%

The profits from selling clean water & biogas are loans that will be given to local entrepreneurs that wish to set up franchises in other locations

Growth Chart: Millions of People over 5 years



Investment for more Life Centres

What is Offset?

Offset

An offset agreement is a stipulation made between a foreign supplier and a company which requires the supplier to purchase a certain amount of goods/ or investment in a national project from that country in exchange for a contract (on average 8%).

SOURCE: http://www.wisegeek.com/what-is-an-offset-agreement.htm

Offset

Offset 26,340,000 USD

Initiatives in India from foreign investments	Defense Deal	Infrastracture Investment
Amount of USD invested	17,000,000,000 USD	308,000,000,000 USD
Offset % requirement (8%)	1,360,000,000 USD	24,640,000,000 USD
Investment time	4 years (2011-2015)	5 (2012-2017)
Amount of USD per year	340,000,000 USD	4,928,000,000 USD
Amount for SYNERGY (0,5%)	1,700,000 USD	24,640,000 USD
Source:	http://news.in.msn.com/national/ article.aspx?cp-documentid=4969480	http://www.khl.com/magazines/ international-construction/detail/ item61858/India-plans-US\$-308-billion- infrastructure-investment/

The Solution- Training & Education

Training and Education

- Leverage the power of Information & Communication Technology (ICT) along with a huge installed base of mobile phones.
- Use the toilets to showcase eye catching posters on safe water usage and importance of sanitation.
- Periodic SMS's using the mobile network company on sanitation in local language!

Did you wash your hands today?

- Visits to schools Spread the message to the families through students.
- Leverage the power of women groups to spread these messages
- Encourage the use of Life Centres for new business opportunities

The Challenge of Space (Land)

Our goal is to start Life Centres on Government Land, given by the local government on lease, at subsidised rates

Why would the Government give us the Land?

- Cleaner peri-urban areas; Change the 'Unhygienic' perception of Slums.
- Reduced corruption and crime
- More jobs and Economic development
- Popular support for the Government.

Renovate the existing Sanitation structures

- Make use of existing, unmaintained public wat-san infrastructure.
- Build Multi-Storey Life Centres to make maximum use of available land.
- Percentage of Revenue for the Government; Facilities for the people!
- Saves costs on negotiations and construction

Case Notes: Hult International Business School Publishing. (2011). Accelerating Water.org's vision

The Synergy Solution meets the Criteria

Accessibility

- 0.5km distance
- Clean water for \$0.0002/Lt (vs. \$1 currently)
- Free sanitation

Availability

- 24/7 access to clean water and sanitation
- Groundwater: Partner with NGOs for infrastructure
- Underground water: Drill boreholes

Drinkability

- Simple and inexpensive UV technology
- Water quality meets minimum WHO standards

Sustainability

- Educate, train and empower the community to grow and maintain the project
- Maintenance fund sufficient for at least 20years

The Synergy Solution meets the Criteria

Demand-driven approach

- The community has access to safe water/sanitation
- The investors achieve ROI
- The corporate sponsors get access to a \$4billion market of BOP consumers

Create jobs

- Create 1,000s of jobs and give people time
- Improve quality of life
- Increase Purchasing Power of BOP consumers

Scalability

- Reinvest profits from project
- Raise corporate capital (sponsorships, advertising)
- Government funding (bio-gas funding & offsets)
- Micro-franchising

Summary - What have we achieved?

Summary

- Affordable Clean Water (\$0.0001/Lt) within 0.5km reach of the community & distribution system
- Free Sanitation (1,000 Toilettes)
- A Sustainable Solution with Annual Profits of \$984,039 per project
- 335% ROI (Water.org investment required: \$293,500 per project) No Dependence on Charity
- A simple solution that can be scaled according to demand not supply

Partnerships with:

- 1. NGOs to deliver infrastructure (wherever necessary) train & educate people
- 2. **Telecom & Banking** for the mobile banking system
- **3. Government** funding for bio-gas energy plant & potential offsets

Franchise options for entrepreneurs at the BOP:

- 1. Energy Company for the production of biogas from human waste
- **2. Water Station** for the supply of clean water
- 3. Shops at Life Centre

Created thousands of jobs for the community

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- 5 References Our reseach based on reality & not perceptions

'Dreams cannot be realized if they are not based on reality!'

We based our idea on the following recommendations:

Rasoul Dashtbani Mikkelsen

FUNDING + PARTNERSHIP MANAGER GRUNDFOS

Ammar Lahham

ANALYST BLOOMBERG

David Kuria (Entrepreneur of the Year 2010)

FOUNDER OF ECOTACT

Patrick Onyango

SUSTAINABLE SANITATION ALLIANCE IN KENYA

Syddon ChackoBPG ADVERTISING

Ed Kuzniarski

TRADE OFFSET PROGRAM (Kuwait example)

Syddon ChackoBPG ADVERTISING

Chhaya Waghmare

PUNE'S SLUM RESIDENT