MARKET DEVELOPMENT & SUSTAINABLE SANITATION SUPPLY STRENGTHENING IN BIHAR, INDIA



Bihar

- 30% have improved sanitation
- 89% pop. live in rural areas; 68% poorest quintile
- 12% of children <5 with diarrhea
- Govt subsidy for sanitation





The Problem

- Insufficient attention paid to consumers
- Fragmented private supply chain
- Ineffective subsidy
- Poor access to credit (for households and biz)



Minimal attention to maintenance



3SI Plan: Supply & Demand

Market-based solutions to sanitation that:

- makes investment attractive to *households*
- makes investment attractive to *private* sector





Implementation





Response 1: Leverage is fundamental

Three "Delivery Platforms" to Leverage

Government: Significant resources available through NBA + NREGA. Discover effective and efficient ways to use those.

Private Sector: Expand service delivery--availability, accessibility, affordability (+desirability).

Communities: Informed consumers drive demand for services, accountability of providers.



Response 2: Innovation vs. Scale



Formative research steps

Sanitation Landscape

Understanding Customer Behavior and Preferences

- Value Chain Analysis
- > Analogous Sustainable Models



Bihar Sanitation Landscape | Sanitation Ecosystem Α



Note: Closeness to centre indicates level of influence on customer, with entities in closer circles having greater influence THK-CLN - Landscaping Phase - Key Findings - 2013-04-24

Bihar Sanitation Landscape | Product Options

Toilets observed in rural Bihar tend to be clustered in two cost segments: below INR 8,000 or over INR 20,000 (USD 160-400)



Note: Exchange Rate: USD 1 = INR 50; Source: Primary Research; Monitor Deloitte Analysis THK-CIN - Landscaping Phase - Key Findings - 2013-04-24

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Customer Behavior | Key Lessons [1/2]

Demand exists – ~84% of households indicate that they want a toilet; 33% have actually researched potential product options before deciding not to purchase due to affordability issues



Source: Primary Research, Monitor Deloitte Analysis THK-CLN - Landscaping Phase - Key Findings - 2013-04-24

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Segmentation Map | Overview



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¹ Includes SECs A1, A2, A3, B1, B2, C1, C2, D1, D2; ² Defined by no. of years in which respondent's block was flooded, over 2001-2010 (Low: 0-2; Medium: 3-5; High: 6+) Note: Details of segmentation approach can be found in the "Segmentation Background & Approach" section of the Appendix

Customer Behavior - Final Report - December 2012

Customer Behavior | Ability to Purchase a Toilet

Across segments, 6-8% of households will be able to purchase a toilet without financing / subsidy, while 10-12% may need financing, and an additional 40-45% may be able to purchase if given part-subsidy



Note: Percentages on a rrow denote percentage of households across rural areas of 8 innovation districts, that fall in each affordability group; pensketches of typical customers in each affordability group are illustrative ¹ Relatively affluent households, owning at least one asset from among TV, fridge, PC / laptop, 2 / 4 wheeler / tractor; ² Other households in affluent SECs (A/B/C/D), or households in SEC E1 with relatively regular incomes (e.g. salaried, traders, shopkeepers, skilled workers); ³ Households that own at least one asset from among mobile phone, ceiling fan, landholding > 1 bigha; ⁴ Households from segments I and J, and remaining population from other segments

Source: Primary Research, Monitor Deloitte Analysis THK-CLN - Landscaping Phase - Key Findings - 2013-04-24

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Value Chain | Player Economics

Sanitation forms a small part of overall business for almost all input suppliers; substantial variation in profit margins and revenue across the value chain



Sanitation-driven Revenue of Value Chain Players

Note: Sanitary Hardware Retailer margins and volumes are only for rural pans; Revenues for Masons, Pit Cleaners (both Mechanized and Manual) are annual wages Source: Primary Research, Monitor Analysis Value Chain - Final Report - December 2012

Value Chain | Entrepreneur Archetypes (2/2)

... Entrepreneurial families represent the most attractive archetype for executing sanitation solutions, given their strong business experience and ability to assess and take advantage of new opportunities





Sanitation Enablers

¹ Small local general store Source: Primarv Research: Monitor Analysis



Dispersed Model | Overview



<u>One-stop-shop</u> that manages supply chain end-to-end, from sales/marketing to toilet construction

<u>Mimics the value chain</u> as it exists with actors like NGOs, MFIs, self-help groups, commercial aggregators and cement ring manufacturers, coordinating value chain functions to deliver the consumer promise



Market development

Effective private sector development generates growth and, in doing so, creates employment and increases incomes

Market systems functioning well create the right conditions for private sector development that is effective and inclusive

Development experience shows that a M4P approach is necessary to bring about inclusive and sustainable systemic change





Springfield Centre | Making markets work



Bringing this to Kochi

New approach; building new expertise

Many opportunities to apply outside of WASH, including social franchising, new products, "outside health", agriculture, social entrepreneurship

Shift in mindset to understand market systems and emphasis on commercial viability

Need to understand finance better, especially how consumer finance helps ensure equity, and role of financiers in market system

