

World Water Week

Building Inclusive, at Scale Enterprises Fecal Sludge Capture and Transport







• Welcome

- Dive into the world of business models
- Small group discussions around one model or an alternative model!
- Wrap up and closure

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- Partner spotlight
- Designing Inclusive solutions
- Barriers to Creating Inclusive, Sustainable FSM Businesses
- Key Question

- Partner spotlight
 - Bill & Melinda Gates Foundation
 - IRC
 - Ennovent
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Bill & Melinda Gates Foundation

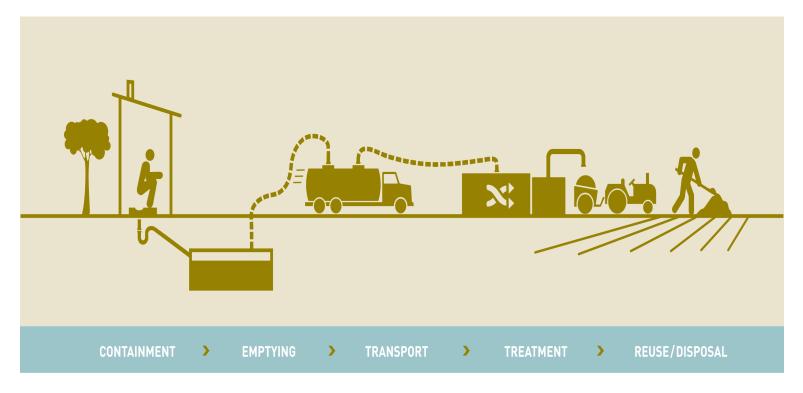
WSH Team's Vision

The universal use of sustainable sanitation services

To <u>contribute</u> to this outcome, we make investments, forge partnerships, and advocate for opportunities that have the potential to make quality sanitation technologies and services safe and affordable for everyone.

Our ideal role is to <u>catalyze</u> high-impact investments that would not otherwise happen.

Focus across the Sanitation Service Chain

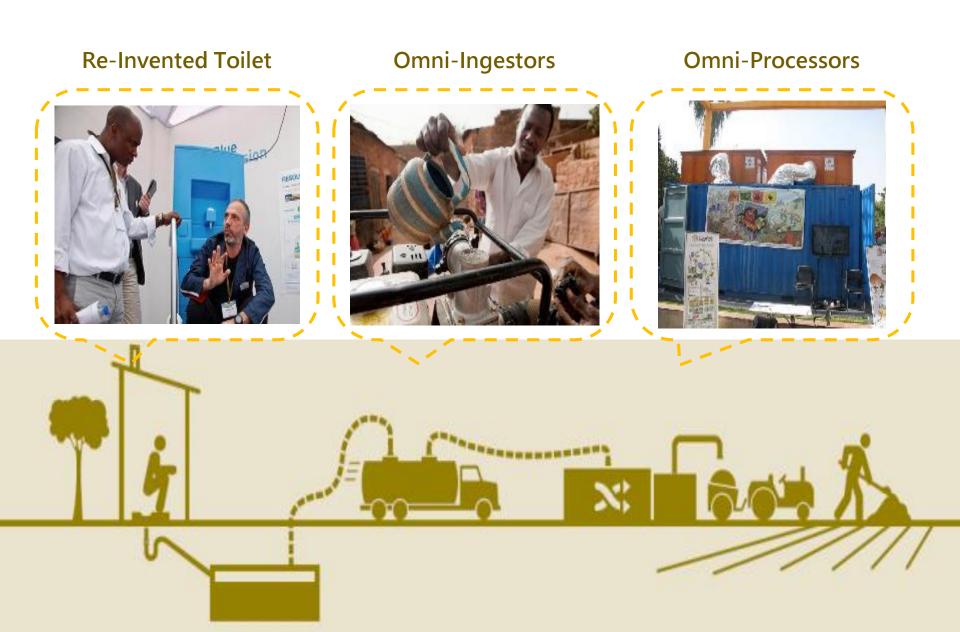


Focus on two fundamental sanitation challenges:

- Expanding and improving <u>sanitation without central sewers</u>, because this is and will be by far the most common type of sanitation service used by the poor
- 2. Making sanitation services <u>safe and sustainable</u> by addressing the failure to effectively transport, treat, and reuse waste captured in on-site facilities

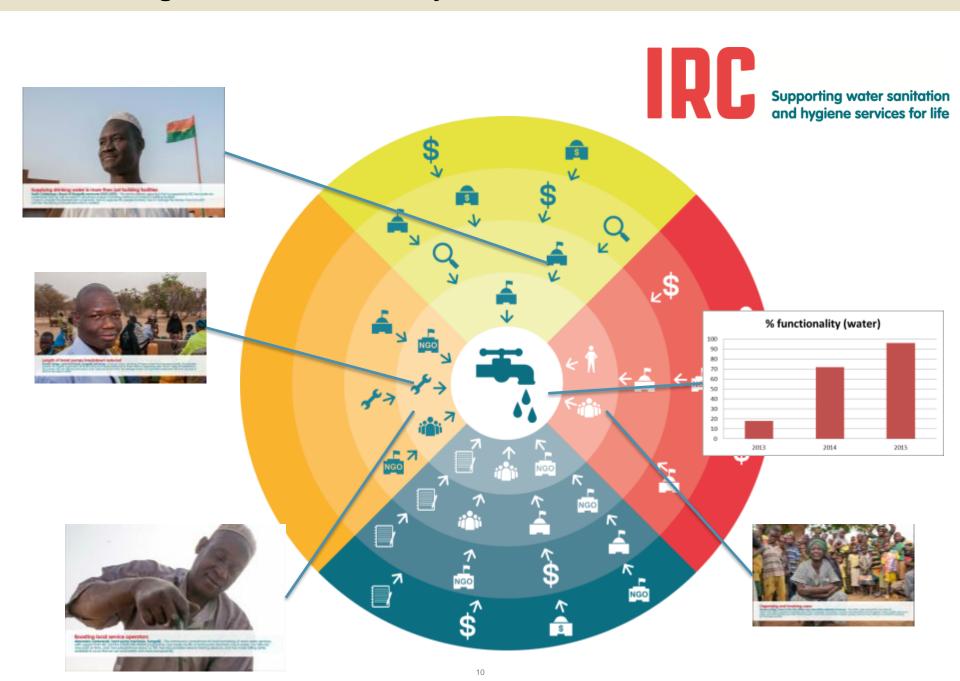
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SEEK to engage the private sector



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Delivering a service takes many functions at various levels



IRC drives systemic change



The delivery of sustainable services requires that we

- assess all the individual parts of the (service delivery) system,
- address all the (relevant) weak parts, and
- that we do that by involving and working with all the (relevant) stakeholders.

Based on its experience with strengthening national WASH systems over the last 10 years IRC has identified building blocks that are required for sustainable service delivery.

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About ENNOVENT



Ennovent catalyses ideas into ready to scale businesses with sustainable solutions for low-income markets in developing countries

160+ Innovations Catalysed | 45+ Projects Implemented | 35+ Countries Reached



Analyse

Business opportuniti es creating impact & profits



Discover

Sourcing of Str Innovations that that addresses the bus business for opportunities Fig 1.1 Core Solutions



Design

Strategies that prepare businesses for launch



Launch

Scalable low-income market businesses

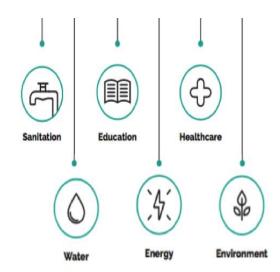


Fig 1.2 Focus Sectors

















Case Study #1 | Sanitation Innovation Accelerator 2016



KEY FACTS

Partners: RC Supporting water scribation and hardens sprikes for life



Project Name: Sanitation Innovation

Accelerator 2016 (SIA)

Timeframe: 5 Months (May-Sept'16)

Status: Closed

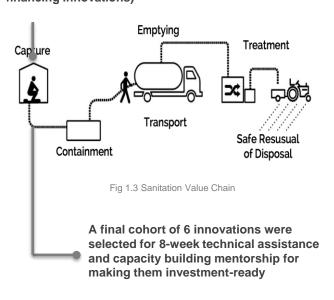
Sector: Sanitation Value Chain

Geography: Rural India

Scope Of **FINANCING** The Accelerator **AWARENESS** BUSINESS **PRODUCT** MODEL **PROCESS SERVICE**

A nation-wide program to discover, startup, finance, and scale early-stage market-driven businesses across the rural sanitation value chain in India

Received 95% application related to Capture (product, awareness and financing innovations)











KEY FINDINGS

- Limited market-driven businesses in fecal sludge management
- Segment remains unregulated and informal
- Need for government engagement to make businesses commercially viable, technically feasible and socially inclusive

Case Study #2 | IHUWASH Program 2017-2019



KEY FACTS

IHUWASH

Building

Blocks







Project Name: Innovation Hub for Urban Water, Sanitation & Hygiene (IHUWASH)

Timeframe: Ongoing | 3 Years (2017-19)

Sector: Urban Water, Sanitation & Hygiene

Geography: Urban India

City Partners: Faridabad (Haryana), Mysore

(Karnataka) and Udaipur (Rajasthan)

GRAND CHALLENGE: International level competition for sourcing urban WASH innovations

WASH LAB & PARK: Localized WASH action 2 WASH LAB & PARK: LOCalized Which details research for Municipal Corporation by an academic institution with Knowledge-cum-exhibition Park on PPP for community awareness

3 ACCELERATOR: Scaling Innovative Urban WASH businesses with Financial and non-financial

WASH ECONOMY REPORT: Focusing on contribution of the WASH industry in the country's economic and social development

5 SANITATION BUSINESS CONFERENCE: Platform for WASH stakeholders from India and

MICRO-UTILITY: SPV based on PPP to manage public sanitation of cities

Addressing city-level wash challenges through inclusive and viable businesses with active Urban Local Body (ULB) administration engagement



INCUBATION

Early Stage Businesses



ACCELERATION

Growth Businesses



CO-INNOVATION

Idea Stage

KEY HIGHLIGHTS

- Provides both financial and non-financial support
- Developing feasible government engagement models to work with private sector businesses
- Proactively co-innovate unaddressed business models with technology partners

Partner spotlight

• Designing Inclusive Solutions

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Designing an Inclusive Solution – A Tale of Two Cities [1/2]

Dakar

Restructuring the FS Market for the Benefit of Poor Households (IPA)

Poor named

Kampala

Improving FSM for On-Site Sanitation (KCCA)

Poor not named

Objective

Program

Name

 Support the creation of a large scale, sustainable sanitation value chain in Dakar, Senegal including mechanized fecal sludge management

Presumed solution

- Achieve reliable, affordable FS collection & transportation service that promotes equity
- Enable urban-poor to realize public health and environmental benefits
- Reduced pollution, reduced water borne diseases & related expenditure

Outcomes for Poor

Problem Definition · Affordability constraints lead to delayed emptying and reliance on manual desludging services instead of mechanized

Presumed cause

 FSM market not working for low income communities

Target clientfocused

Target Outcome

- Increase sludge delivered to treatment facility
- Increase use of mechanized services.

Benefit to poor presumed the same

- Increase informal settlement FS to treatment
- Improve planning, monitoring, regulation
- Formalize FS collection and disposal businesses
- Increase demand for FSM services

Benefit to poor explicit

Designing an Inclusive Solution – A Tale of Two Cities [2/2]

Dakar

Key stakeholders engaged

Main

results

- Urban HHs via surveys/ experiments
- Mechanized emptiers
- Call center operators

Solutions attempted

- Use subscription mechanism to distribute cost over time
- Establish call center to improve competition and efficiency among operators

Call Center – efficiency gains to formal service provider and price reductions for mechanized emptying services

- No clear evidence of improved affordability for poor, reduction of manual emptying among poor, or improved/increased services in low income communities
- No engagement of manual emptiers to improve services, safety, or links to improved disposal options
- Mechanized emptiers' association drafts and proposes policy to ban manual emptying (was not approved)

Researchled, No

led, No manual emptiers

Predetermined by objective statement

Predetermined by objective statement; Private operators benefit/ improve;

Poor

missed

Kampala

City authorities;

and feedback

BCC

Landlords and HHs in informal settlements;

City-wide sanitation mapping

• Manual and mechanized emptiers

• City-resident-service provider information

and contact center for services, support,

• City-supported, LIC-focused marketing and

mechanized stakeholders on improving

• Capacity building for city, manual &

Gov't-led. Diverse LIC stakeholder

> Systemwide

(1 year into the project)

services to the poor

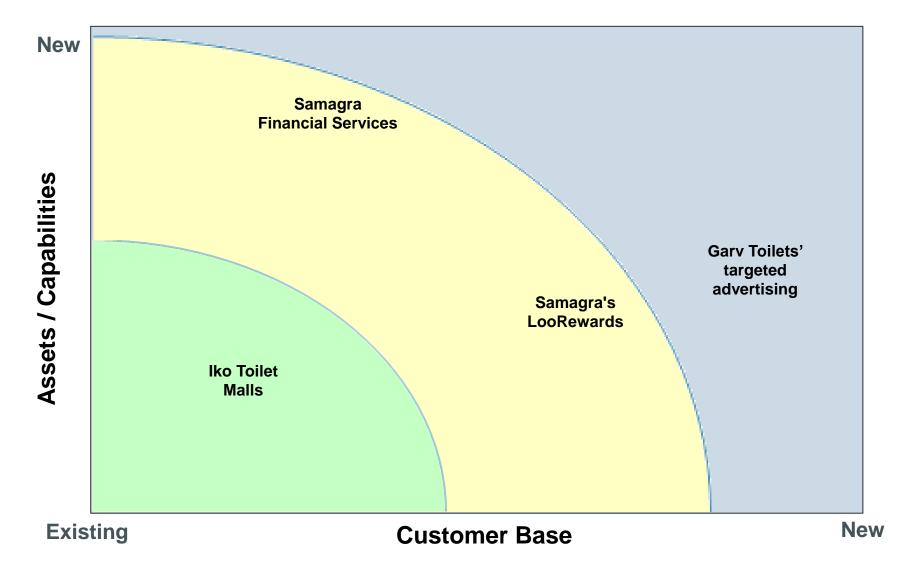
- Manual emptiers trained, formalized into businesses
- MOUs shifted to SLAs to improve emptiers' performance
- Illegal disposal incidents reported to City
- Increased focus on access among poor households
- Transfer stations being tested by settlements to improve safety of manual emptying/sludge disposal

Service to poor is central; Manual emptiers engaged; Gov't system improvement

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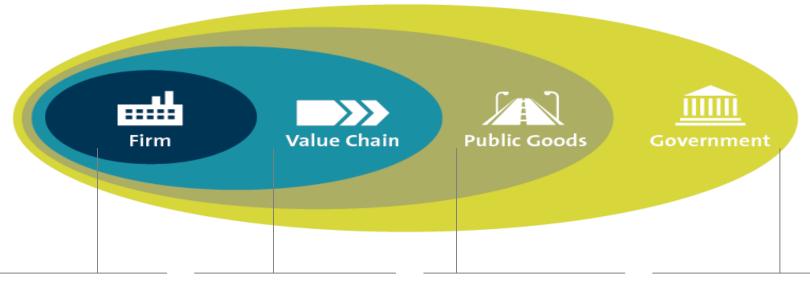
Business innovations to improve inclusion

Private enterprises should and do innovate to diversify their revenue model by layering varied revenue streams; however, barriers exist beyond the firm's business model



Barriers to Creating Inclusive, Sustainable FSM Businesses

The barriers to creating inclusive sustainable business come from the business model of the firm itself, value chain, the lack of public goods, and lack of government support



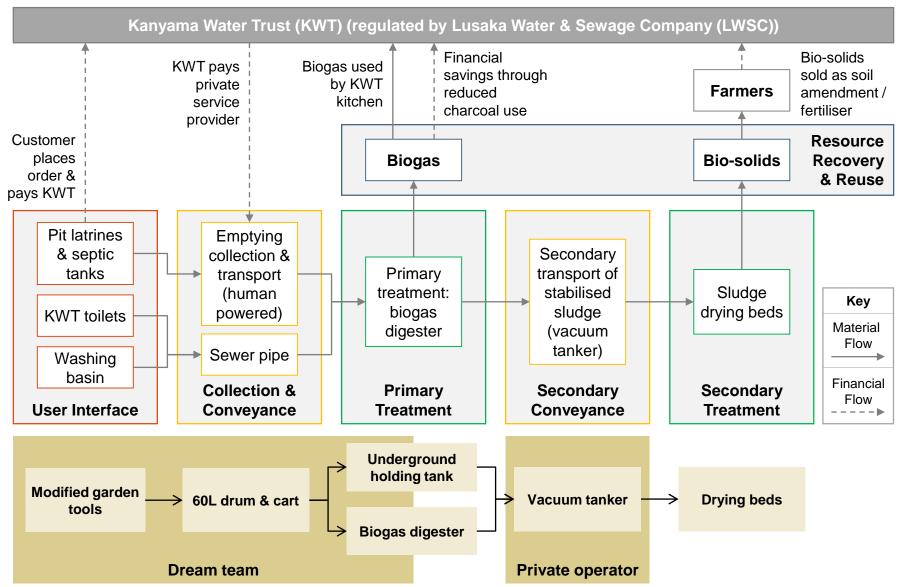
- Regular emptying is primarily a push service
- Population density especially in periurban and rural areas – does not allow for scale required
- Lack of resources capital and technology

- Expensive last mile provision
- Lack of support service providers
- Poor value recovery from FS

- Absence of standards
- Lack of infrastructure, even in large municipalities
- Lack of implementation of laws and regulations around FS

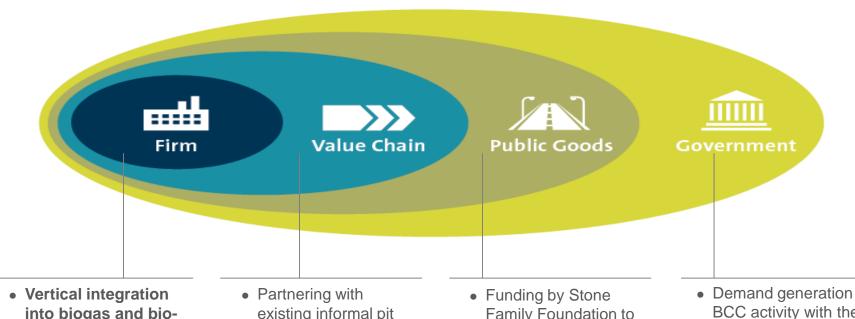
Vertical integration for better value – Kanyama Water Trust

FS enterprises need to innovate – within the FS business model, and looking beyond – to be sustainable



Vertical integration for better value – Kanyama Water Trust

KWT was able to address multiple barriers to create a successful inclusive FS business

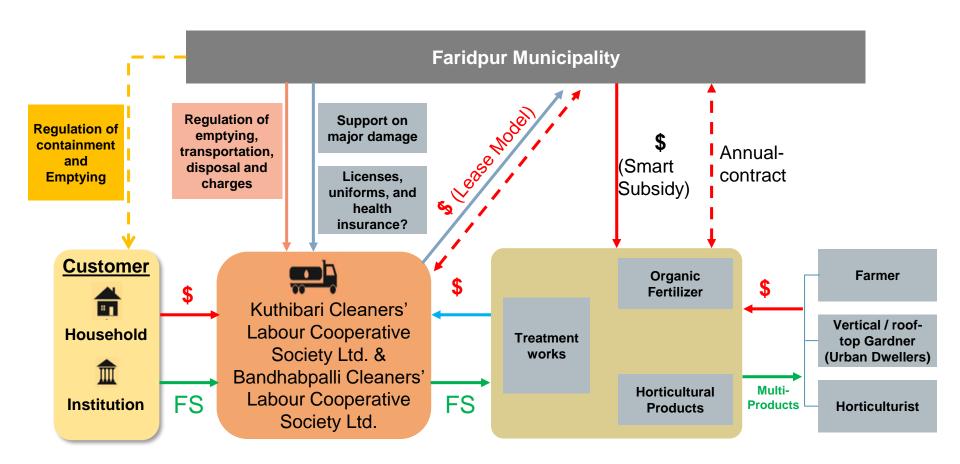


- into biogas and biosolids
- existing informal pit emptiers to create the dream team
- Family Foundation to create Biogas Digester, Sludge Drying Beds, and secondary infrastructure
- Management model rooted in KWT's existing capacity

 Demand generation BCC activity with the help of Zambian Ministry of Health

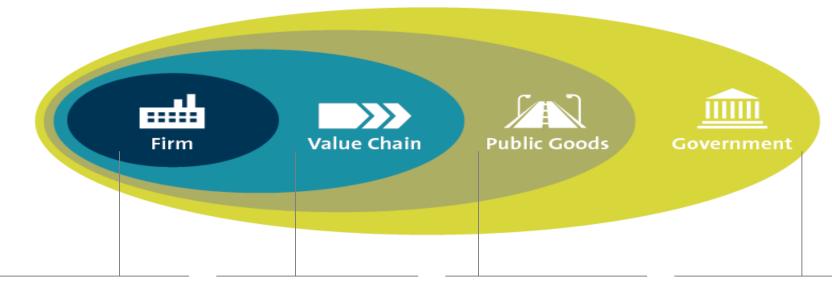
Lowering costs of public goods for private sector – Faridpur

(Society for the Urban Poor, Practical Action)



Lowering costs of public goods for private sector – Faridpur

KKPKP was able to address multiple barriers to create a successful inclusive waste management business

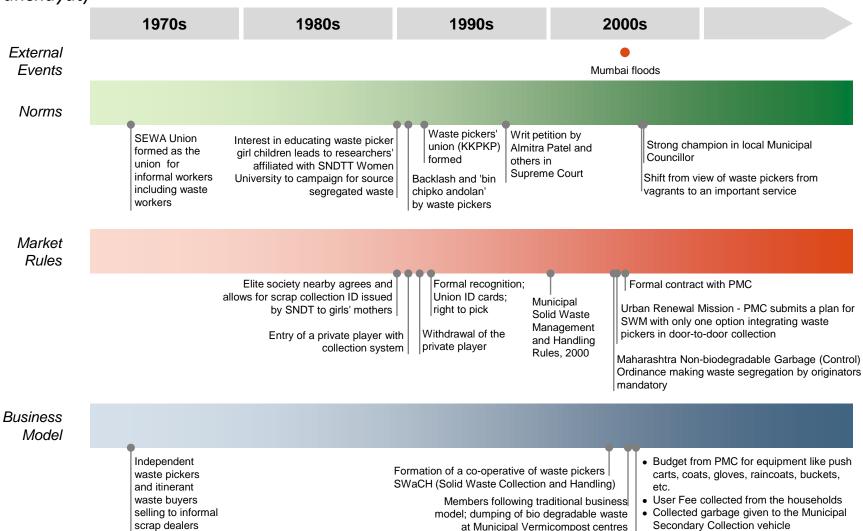


- Vertical integration through sales of fertilizer and horticultural products
- Partnering with existing informal pit emptiers
- Lease model to make financing available to Cleaners' Cooperatives
- Smart subsidy to treatment plant operator
- SLAs to create standards and clear expectations from the private players in the FS value chain

- Guaranteeing market through exclusive contract
- Providing formal worker status to waste pickers
- Rules and regulations governing waste management creating a demand for a push service

Legislative action to drive change – PMC / KKPKP

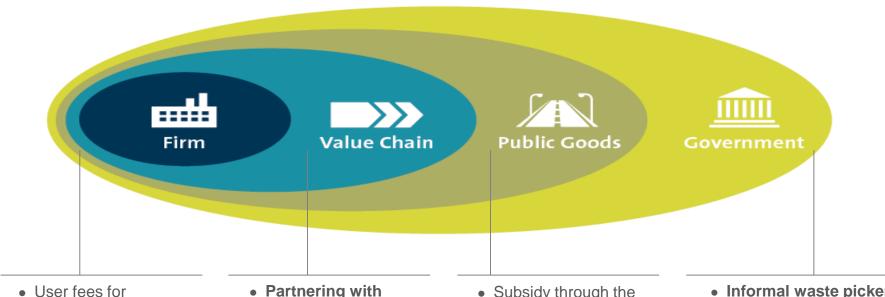
Government, through market rules, can play a significant role in creating inclusive market solutions – such as the waste management market in Pune, through KKPKP (Kagad Kach Patra Kashtakari Panchayat)



Note: For further information on the framework, please refer to *Shaping Inclusive Markets* (FSG, Rockefeller Foundation; 2017) Source: The Story of Waste and Its Reclaimers (Anjor Bhasskar and Poornima Chikarmane)

Legislative action to drive change – PMC / KKPKP

KKPKP was able to address multiple barriers to create a successful inclusive waste management business



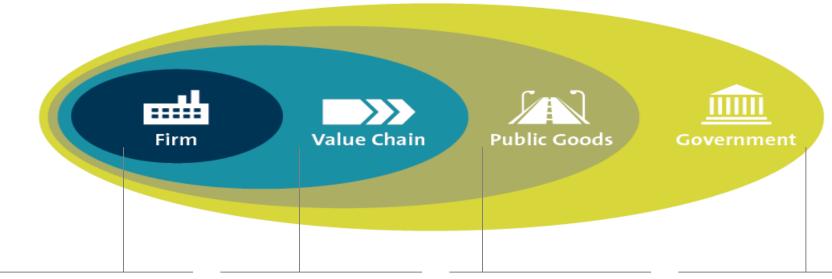
 User fees for collection services Partnering with existing informal waste pickers

- Subsidy through the Pune Municipal Corporation budget to provide tools of trade to the workforce
- Use of PMC secondary delivery system

- Informal waste pickers as the only option for SWM
- Providing formal worker status to waste pickers
- Exclusive contract to SWaCH
- Rules and regulations governing waste management creating a demand for a push service

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Barriers to Creating Inclusive, Sustainable FSM Businesses



Vertical integration

- Facilitating partnerships between informal sweepers/emptiers and formal service providers
- Reducing private sector costs associated with providing public good services
- Guaranteeing markets to enable company investments, while making companies access to higher margin markets contingent upon servicing lower margin markets in low income communities
- Direct or indirect subsidies

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