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Technology Enabled Community Water Solutions

Millions do not have access to safe drinking water







We appoint a local entrepreneur & provide a 5 stage state of art purification machine



Franchisee runs machine and sells water; we take care of maintenance and awareness creation for generating demand for his business











Consumers fetch water from the outlets, some get delivered at home







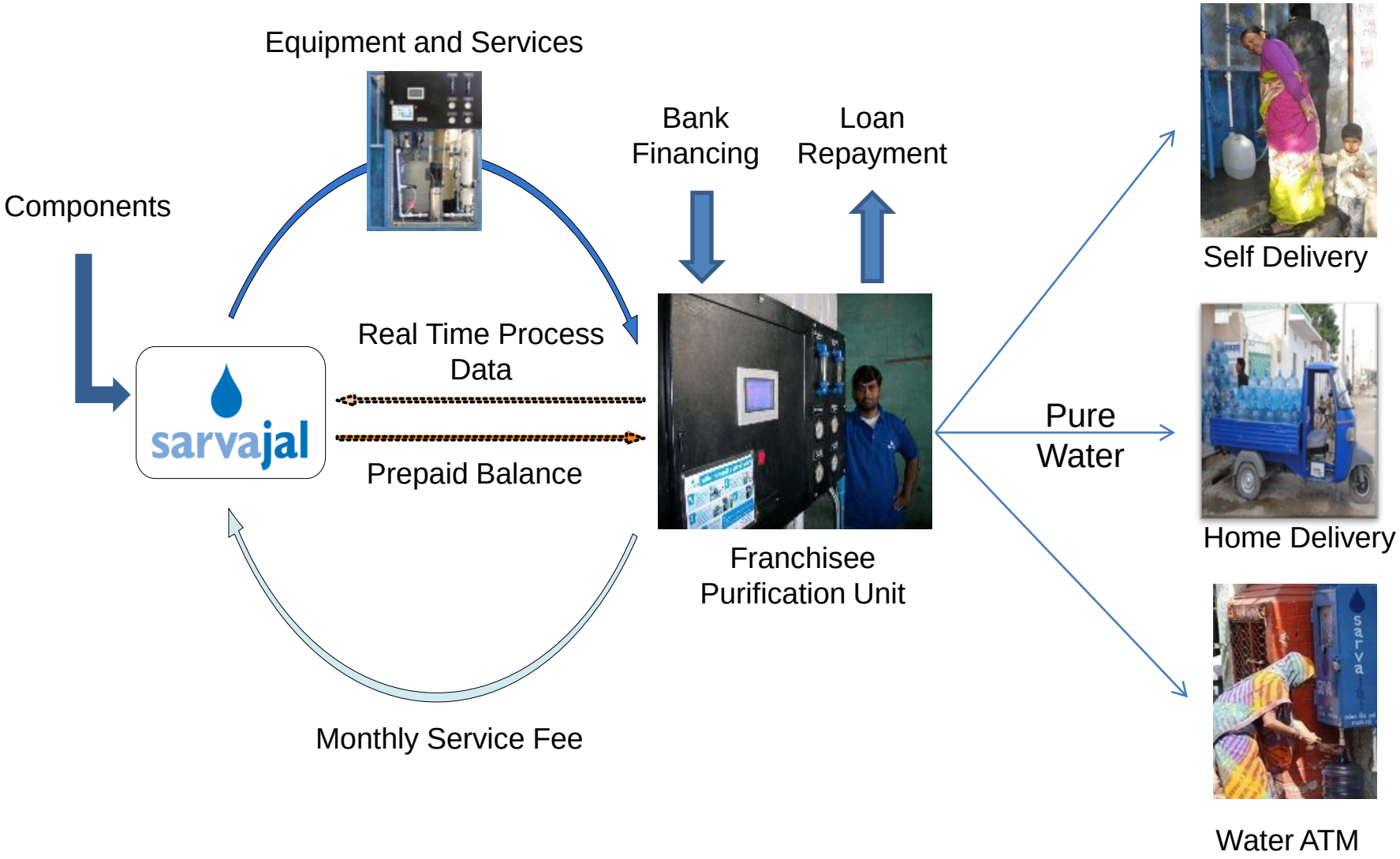
And some have 24*7 access to safe drinking water availability on a pay-per-use basis at solar powered Sarvajal Water ATMs



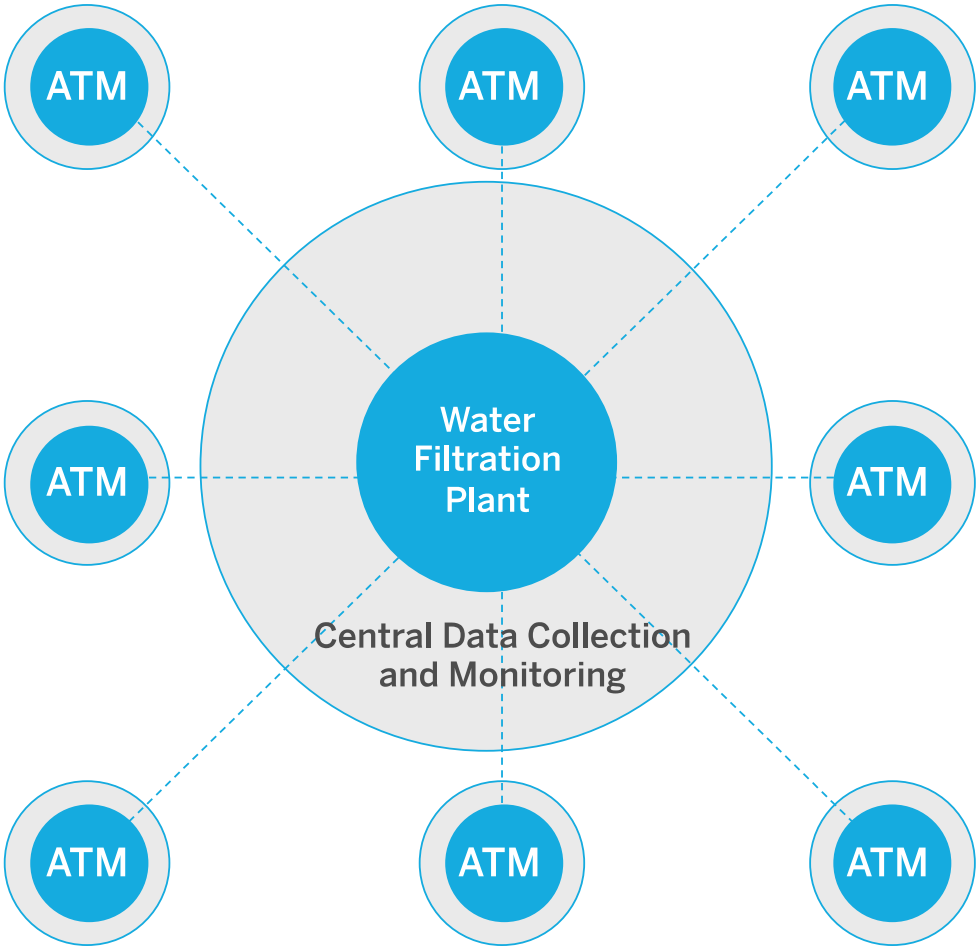




The Sarvajal Value Chain



Solar powered cloud connected Water ATMs make a real “Hub and Spoke” model possible with unprecedented accountability



Our Solution: “Off-Grid” Remote Sensing Technologies for Centralized Management of Distributed ‘stand-alone’ outlets



Soochak Controller

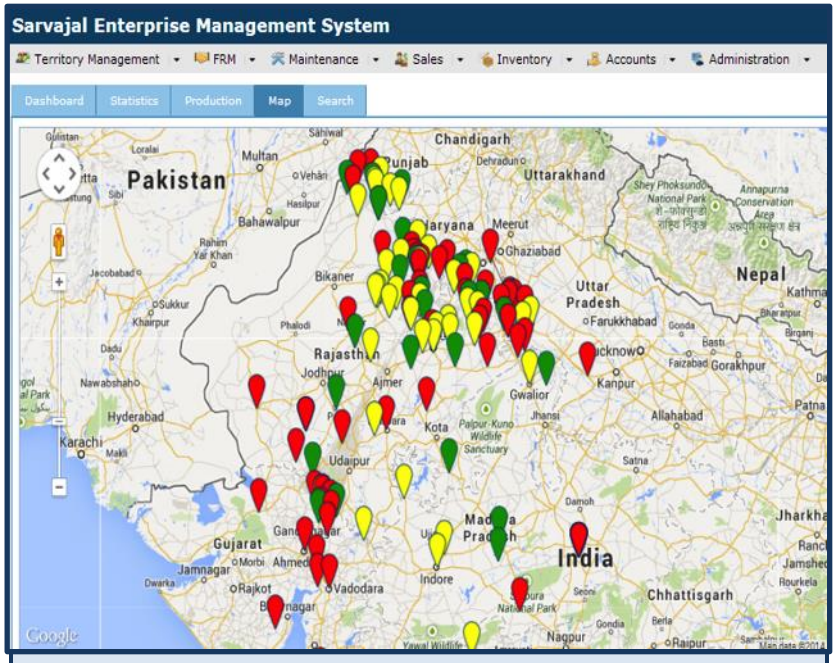


Water ATM Device





Trends



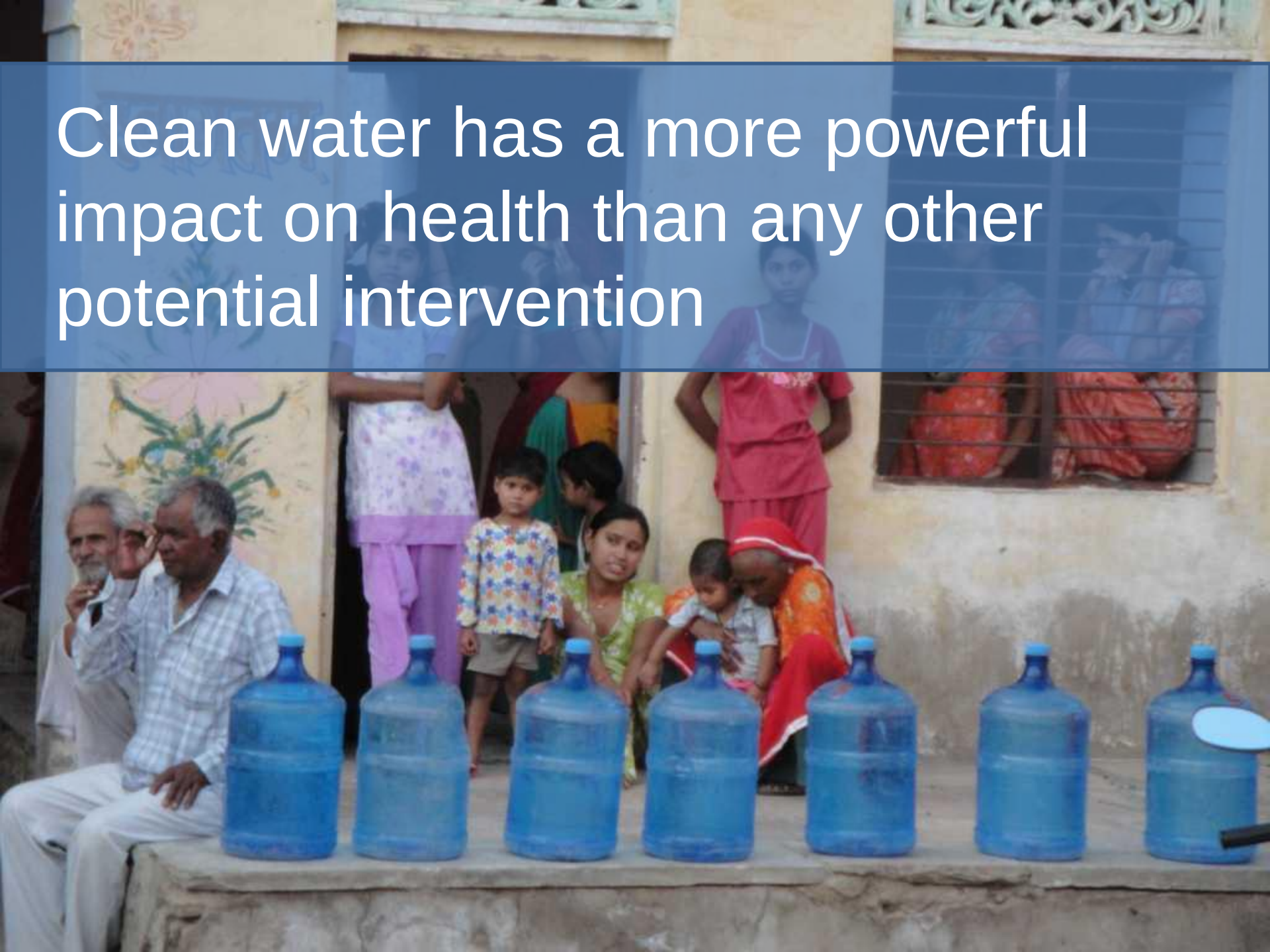
Sarvajal Enterprise Management System

- **Soochak Controller:** Remotely monitors and controls the vital machine health parameters
- **Water ATM:** RFID enabled, Solar powered automated water dispenser with real time tracking
- **Sarvajal Enterprise Management System:** Receives and processes communications from Soochak Controllers and Water ATMs; Manages Sarvajal’s network of decentralized drinking water solutions
- These technologies combine to form a complete **Source-to-Service** system for safe water delivery

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Leveraging Technology



Clean water has a more powerful impact on health than any other potential intervention

India's ongoing drinking water crisis has massive health and economic implications



- Of the 850 million people worldwide who lack access to clean water, over 150 million live in India
- Nearly 40 million Indians suffer from waterborne diseases each year
- Over 1.5 million children in India are estimated to die of diarrhea annually
- An estimated 73 million working days are lost annually due to waterborne diseases, erasing USD 600 million in economic value

The challenges of getting water to people is NOT about awareness, attitude, or technology



It is about building a viable and sustainable business model to deliver services

…and Yes we needed to innovate technologically to

- manage and enable such a business model

Basic Value Proposition and Challenges

Enormous under served numbers, spread at multiple locations, variety of issues

ACCESSIBLE

- Where all?
- What about Smaller ones?
- How do you ascertain?
- How do you maintain uptime?
- Operator Training & Apathy,
- Power Supply Issues, 24*7?

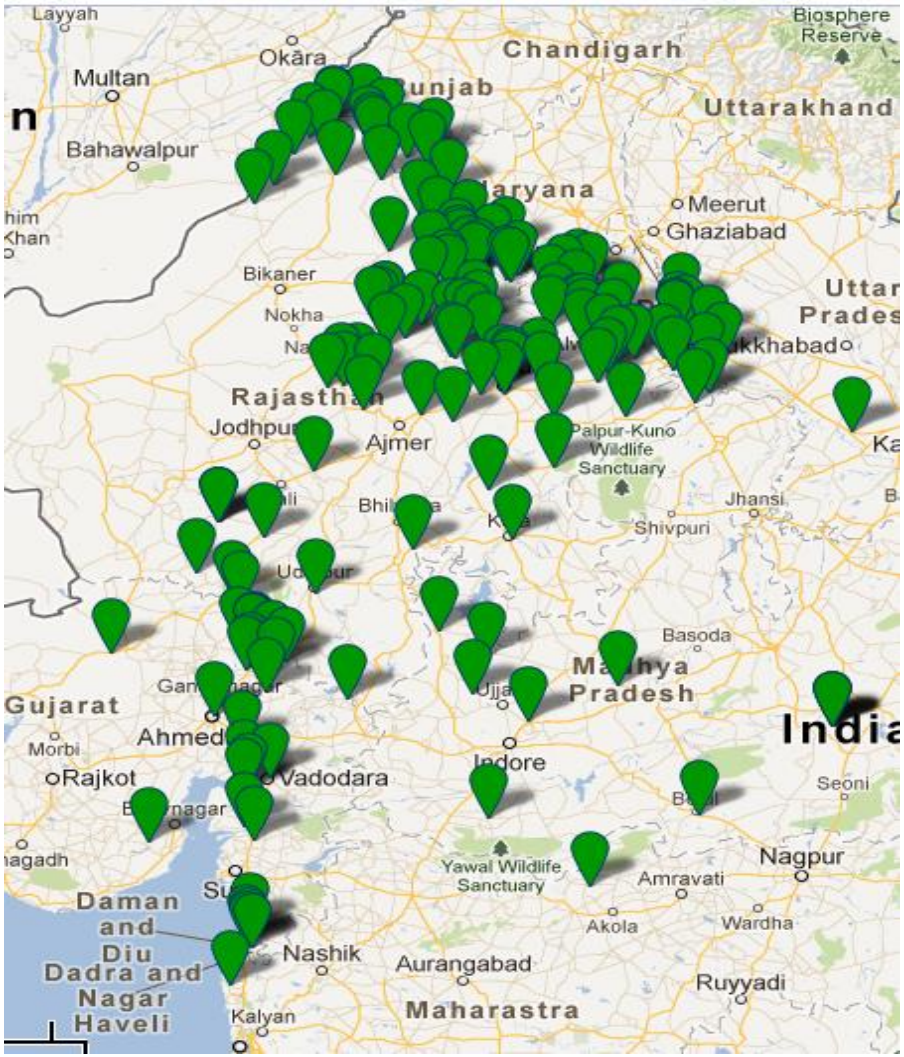
AFFORDABLE

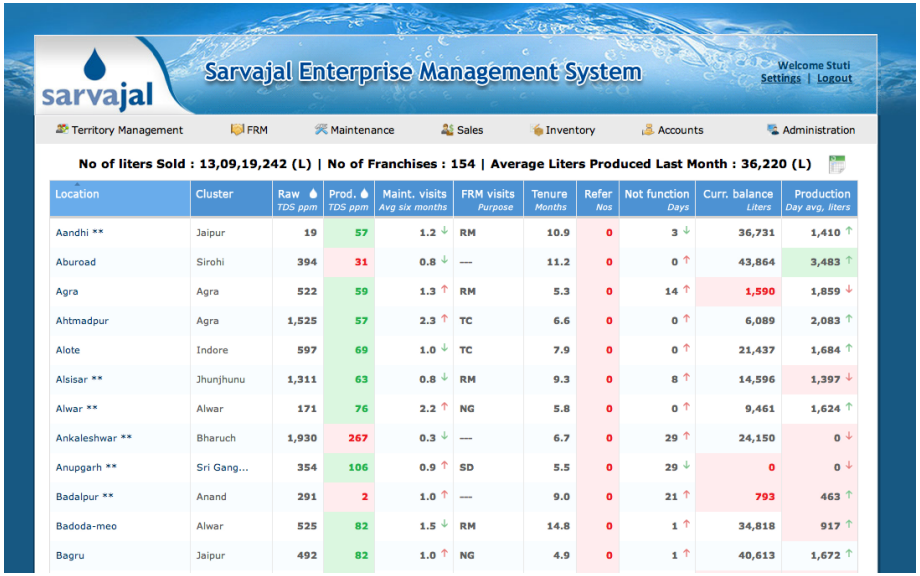
- Sustainability at what price?
- How to reduce cost of materials?
- How to reduce cost of Collections?
- How to reduce the cost of servicing?
- How to monetize transparently?

PURE

- How to address variety of raw water?
- How do you know the quality of water produced and that of dispensed?
- How does consumer know quality?

Addressing Access Challenges: Knowing





Location	Cluster	Raw TDS ppm	Prod. TDS ppm	Maint. visits Avg six months	FRM visits Purpose	Tenure Months	Refer Nos	Not function Days	Curr. balance Liters	Production Day avg, liters
Aandhi **	Jaipur	19	57	1.2	RM	10.9	0	3	36,731	1,410
Aburoad	Sirohi	394	31	0.8	---	11.2	0	0	43,864	3,483
Agra	Agra	522	59	1.3	RM	5.3	0	14	1,590	1,859
Ahtmadpur	Agra	1,525	57	2.3	TC	6.6	0	0	6,089	2,083
Alote	Indore	597	69	1.0	TC	7.9	0	0	21,437	1,684
Alsisar **	Jhunjhunu	1,311	63	0.8	RM	9.3	0	8	14,596	1,397
Alwar **	Alwar	171	76	2.2	NG	5.8	0	0	9,461	1,624
Ankaleshwar **	Bharuch	1,930	267	0.3	---	6.7	0	29	24,150	0
Anupgarh **	Sri Gang...	354	106	0.9	SD	5.5	0	29	0	0
Badalpur **	Anand	291	2	1.0	---	9.0	0	21	793	463
Badoda-meo	Alwar	525	82	1.5	RM	14.8	0	1	34,818	917
Bagru	Jaipur	492	82	1.0	NG	4.9	0	1	40,613	1,672

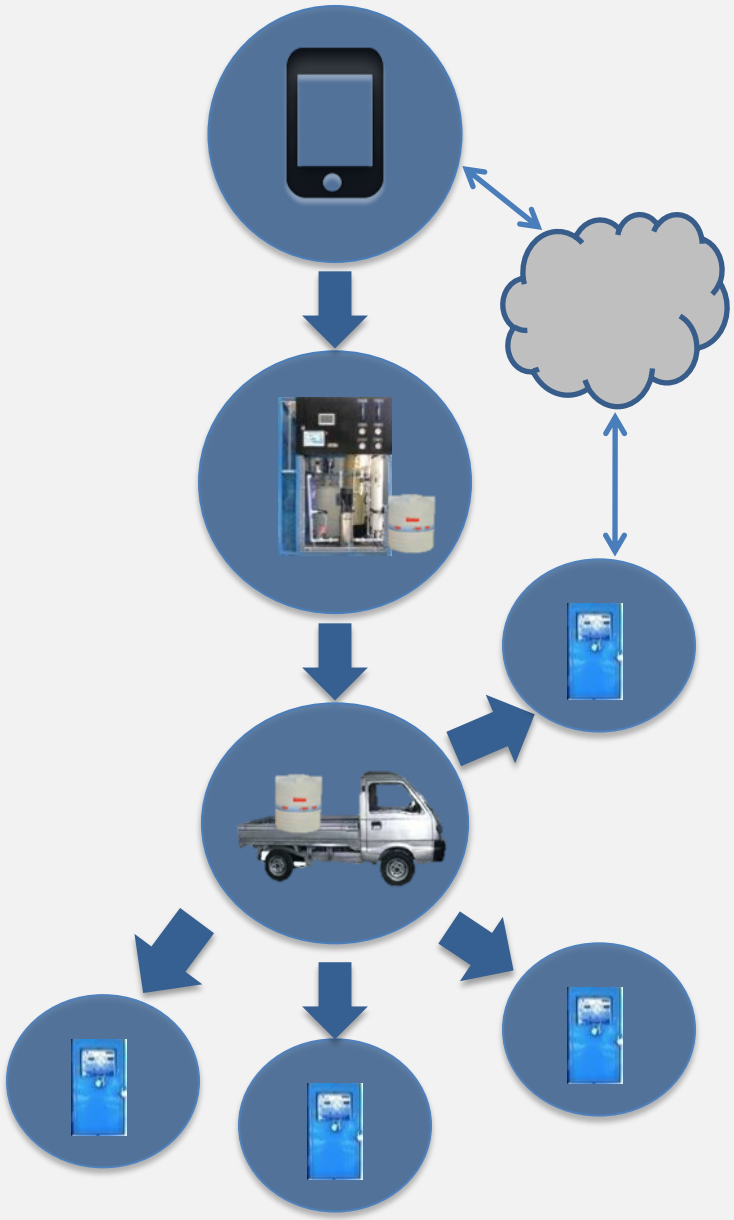


Addressing Challenges of Affordability: Cost Reduction through Real-time monitoring



- Prepaid Filtration Capacity: Reduced Cost of Collection, maintenance and Servicing
- Overcoming Training gaps: Automating certain precautionary processes

Transparency and Accountability



Accessible and Pure:
- **Fit for smaller populations too,**
- **Solar Powered Cloud Connected**





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13 Reasons Why Sarvajal is a better Solution

	Sarvajal	Closest Alternative
Water Quality	Removes all contaminants	Some do, most don't
Upfront cost to consumer	None	Vary from Rs. 2000 to 12000
Effective per litre price	30 paisa per liter	All above it
Online Monitoring and Quality Control	Patented Technology	None has it
Sustainability	Self sustainable	Only at large central setup
Maintenance Support	Free monthly visit	Expensive AMC
Community Awareness	Free monthly support	NA
No disposable containers	**Routine Utensils**	**Plastic bottles**
Solar Dispensing	**Use of Solar Technology**	**Battery or grid based**
Water Table Friendly	**Distributed**	**Centralized**
Waste water reuse	**Pool-able**	**Distributed and lost**
Fuel cost /liter	**Smallest**	**Central – very High**
Raw water efficiency	**6 times more efficient**	**Product:Waste is 1:6**

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Sarvajal Now: Jaipur Schools Project

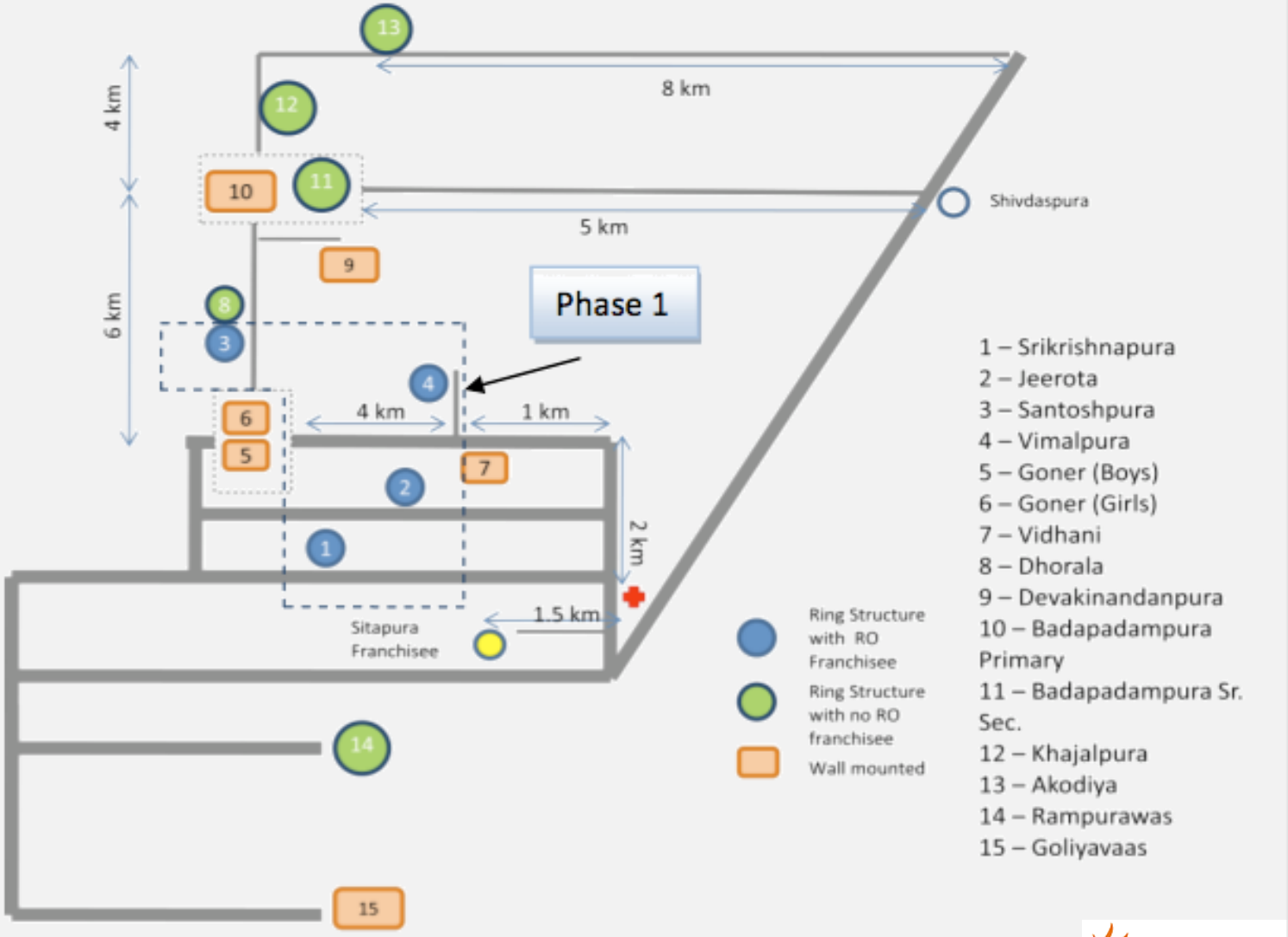
- **Objective**
  - Providing safe drinking water of assured quality in 15 rural schools of Jaipur, Rajasthan.

- **First**
  - Major **Capex light** project.
  - Full-fledged execution of **hub-and-spoke model** in **schools**.
  - Customized vehicle for **untouched** water transportation.
  - **Solar Powered: 6** of these schools **do not even have power connection**.
  - Ring structures water ATMs **out in open**.
  - Multiple partnerships: **MSDF, Akshaya Patra Foundation, Primary Education Department and Jaipur Zila Parishad**.



Hub and Spoke : Spread

Site Map



In Pictures


सर्वजल
BAL : 851.2 L
TDS : 0187 ppm
सर्वजल
गुणवत्ता
वही, जो
पता चले




सर्वजल


सर्वजल
1






सर्वजल


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Sarvajal Now: Urban Water Project













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