

### **Customer Journey & Water Supply Timing**

Executive summary – NextDrop's water supply timing service in urban India

# Water supply is an issue in Indian cities, especially for lower income populations



### Water demand is outpacing water supply

Water supply is scarce and unreliable in many Indian cities and massive investments are required. Demand is growing faster than supply across many Indian cities.

# Water supply in Indian cities (billion liters per day) 189 95 83 2007 2030

■ Supply

### With lower income populations most vulnerable to the effects

Lower income populations will feel the effects of this water supply problem most acutely. Missing the water supply may come at significant cost.



- Limited storage space often using buckets, bowls
- Need to fill up storage spaces with water manually
- Having to pay more for tankers is a big expense
- Often have underground and overhead tanks
- Tanks can fill up automatically
- Have another water source such as a private bore well
- If needed, can buy water from tankers

Basic service

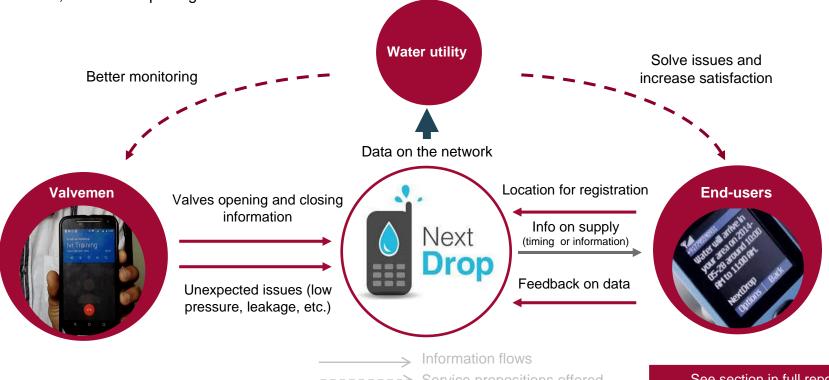
### NextDrop addresses a need in the context of this problem by engaging 3 user types

#### Service delivery based on mobile solutions that captures critical data

NextDrop has created mobile solutions that engage end users and valvemen (individuals who manually open/close valves on the water network daily). These applications capture critical information such as location, and valve opening times.

#### Such data is used as the basis of key services

Information derived from the data collected forms the basis of service value propositions, enabling endusers to get information on supply, and the utility to understand network performance.



## NextDrop's business model has spanned multiple customers

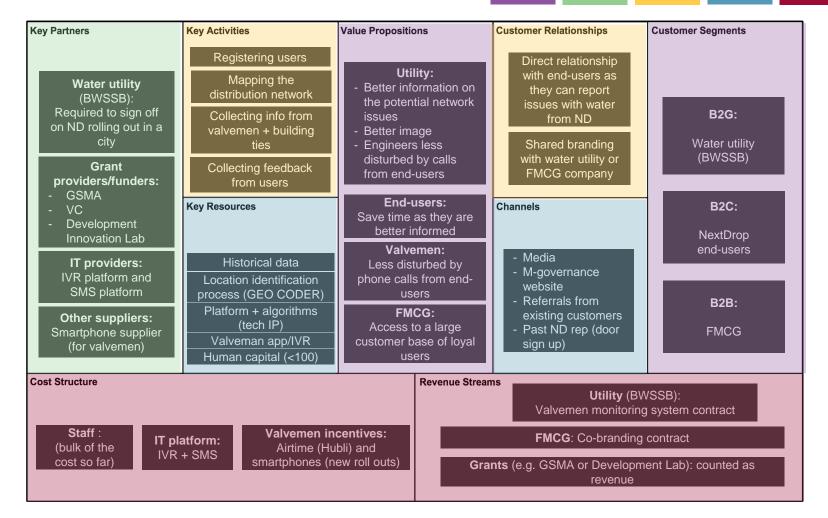


Customer Value Proposition

Partners

Key activities/ relationships

Key resources/ channels Cost/Rev structure



# A basic customer journey is mapped for end users





### The optimum kind of users for NextDrop are those that provide feedback

By plotting a path of service usage, we are able to define a customer journey for end users where they move toward a greater engagement with NextDrop's service and provide quality feedback that will enhance future service delivery.

Quality Usage

#### Aware / understand

Users have potential to register for the service, they are aware / understand it, but have not attempted to register

#### **Pre-register**

Individuals who contacted NextDrop to be registered, though they may not yet be registered

#### Register

Individuals properly registered to the service, providing a location in a service area

#### Consented

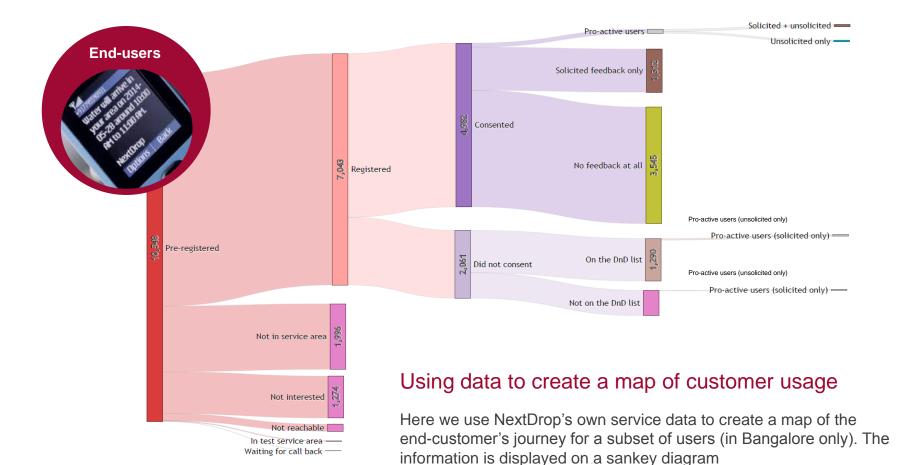
Individuals who consented to receive solicited feedback requests by SMS from NextDrop\*

#### Proactive feedback

Individuals providing unsolicited feedback (spontaneously contacting NextDrop about specific water issues) that impact the system

# Overview of the end-user's journey from pre-registration onwards





# A customer journey is also mapped for valvemen





### Optimum valvemen usage depends on providing frequent and consistent data

Valvemen provide critical information about the water supply network and their routine is supposed to be fixed each day. The kind of recorded usage that the water utility wants to see is therefore frequent and consistent. We can map a separate journey of usage recorded by a mobile application (in this case an Interactive Voice Response [IVR] app) for valvemen

Quality Usage

#### Aware / understand

Users have potential to register for the service, they are aware / understand it, but have not attempted to register

#### Registered

Valvemen have been registered on the NextDrop system, and have the potential to log valve open/close actions via IVR

#### **Tried**

Valvemen have made at least one call to IVR

#### Frequent usage

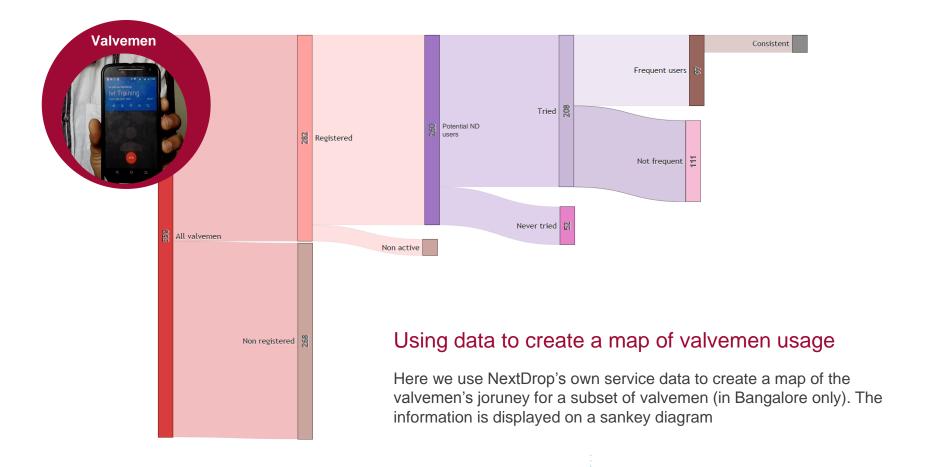
Valvemen make regular calls to the IVR over the period that they are a user on the system

#### Power usage

Valveman provides consistent information, meaning that they exhibit a stable routine behaviour

# Overview of the valvemen journey to consistent usage





# We developed three potential growth options for NextDrop



Using the results from data analytics and an analysis of the business model, three strategic directions are posited with associated recommendations for future implementation.

Deeper utility engagement & city iteration

Short/medium term

Allow greater depth of engagement and product development in a focus city (e.g. Bangalore) to provide the proof points to replicate iteratively across other cities, partnering with water utilities Driving rapid breadth & scale across users/partners

Short/medium term

Focus on scaling across new cities and new types of B2B revenue sources (e.g. Utility, FMCG, etc.) as fast as possible

Automation & Infrastructure future focus

Medium/long term

Aim to become turnkey provider with blended automation, infrastructure and software value proposition to the water utility











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