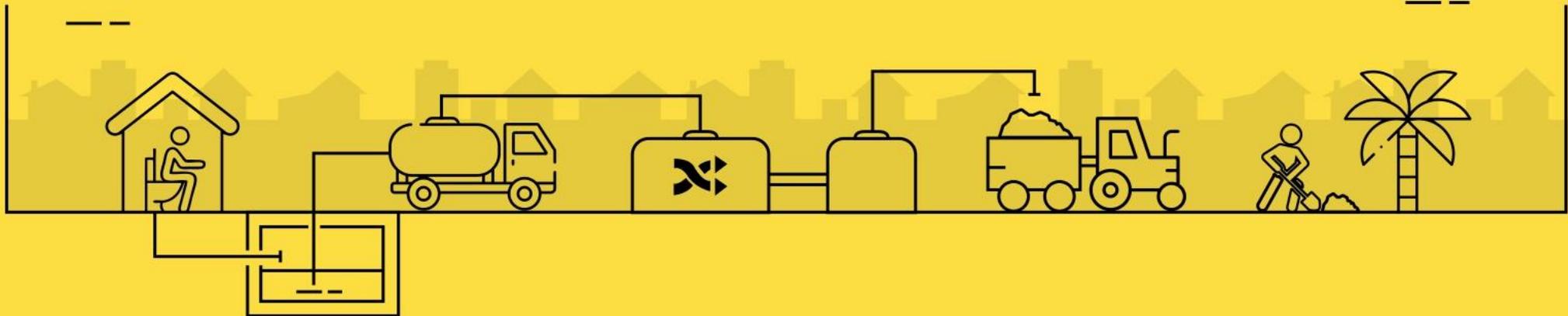




Non-intrusive Monitoring Systems



Challenges in Promoting Safe Desludging

Low demand from households

Lack of transparency in pricing and mismatch between demand and supply

Failure to meet safety requirements while desludging

Illegal disposal by some service providers
Resistance of service providers to be monitored

Desirable Solution Features: Able to...

Stimulate household demand

Connect customers to the service providers that best match their specific demands

Non-intrusive monitoring of desludging operations

FSM CONNECT

So how does it work?

The laser assessment brings two additional benefits:

- Assessing design compliance
- Allowing service prompts

and
sive

Desludging Operators



Notifies operators of the request and details
Notifies the successful bidder

Interested operators respond with prices

Matching supply with demand

Vehicle that will be dispatched



Home Owner

Requests for desludging service through the mobile app or by calling. This includes answering a few questions:

- Location;
- Time;
- Facility type & volume;
- Acceptance of max WTP



FSM CONNECT

System sends an SMS with a list of lowest bidders

Notifies other households v the neighbor of group disc tech

Demand



Upon conducting the desludging service the

Upon receiving 1 number from th considered com

System sends a for ratings of the operator's comp standards.

When the truck reaches the treatment plant, a time-stamped picture of the truck plate will be taken automatically and recorded in the system.

If the combined volume attached to all the OTPs that a truck has accumulated reaches its registered capacity and no disposal is recorded, the system generates a reminder. Laser assessment team is notified

when the unit is empty

With high resistance to be regulated, monitoring the desludging operator behavior has been traditionally challenging. The market of the proposed non-intrusive monitoring system ensures safe outcomes rather than

Assumptions /Precedent Conditions

Presence of FSM regulations and supporting policies covering registration of service providers, safe operational standards, safe disposal, etc.

Close to universal or high enough household subscription to ensure that operators rely on the system and abide by the rules