

# Reduce Vaccine Wastage by 50%

“Save Vaccines, Save Kids”



Save 1.5 million kids' lives every year

## Present Supply Chain



Pharmaceutical Company

Country (India)

State (Bihar)

District (Bhagalpur)  
Cold Chain Point  
Ice Lined Refrigerator Depot

Block (Jagdishpur)  
Field Primary Health Care (PHC)



## Problem



Storage & Handling at Cold Chain Point



Portable Vaccine Cooler to Field PHC

“Broken”  
Supply Chain  
Link at the  
“Last Mile”

Vaccine amount & inventory  
auto tracking does not exist

Vaccine Spoilage & Contamination

## Smartray® - Patented IoT System

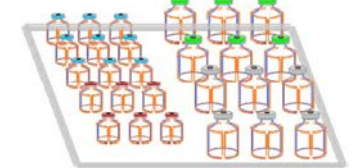
### Results (in India)

- ❖ Field data - current wastage > 50%
- ❖ Lab tested > 99% accuracy
- ❖ > 30% cost savings using multi-dose vials

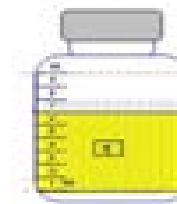
### Current Status - working lab model



Smartray® with Wi-Fi



Tracks > 100 vials (various shapes & sizes) simultaneously



Bottom-Up-Approach: Vaccine level in vials measured, tracked & data transmitted to cloud storage via mobile App, limiting wastage from contamination, freezing, spoilage, expiration & temperature variation issues



Smartray® Inside Cooler Box with Mobile App