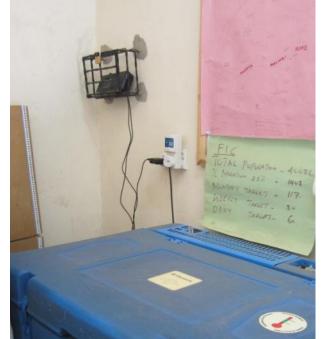




ColdTrace - Remote Temperature Monitoring

Actions & Metrics

Using ICT to Improve Immunization
World Health Organization
November 11th, 2014











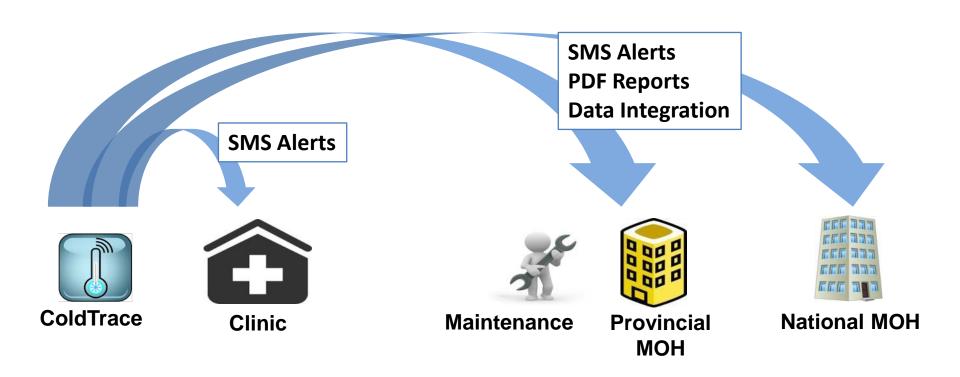


164 Units deployed now – 8 countries 664 units deployed by Q1 2015



RTM System and Actions

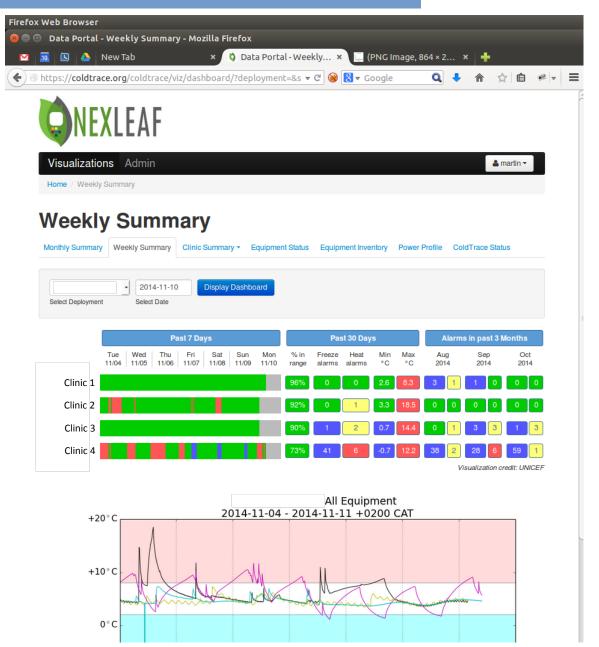
Fully automated data flow (Learning from Project Optimize)



Foster culture of data usage ... behavior change...

ColdTrace Web Dashboard Example





What Clinics Need Immediate Attention

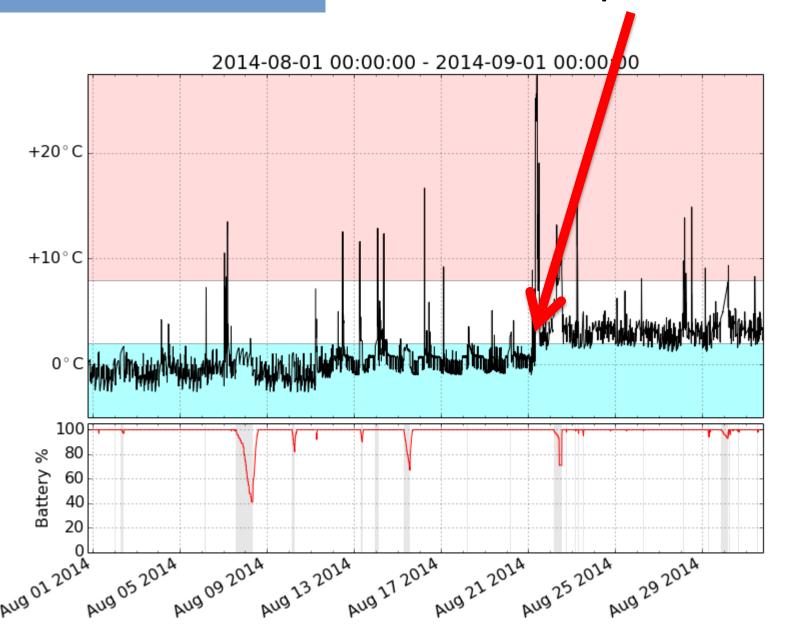
ColdTrace Summary for **** June 2014

Table 1. Overall Summary

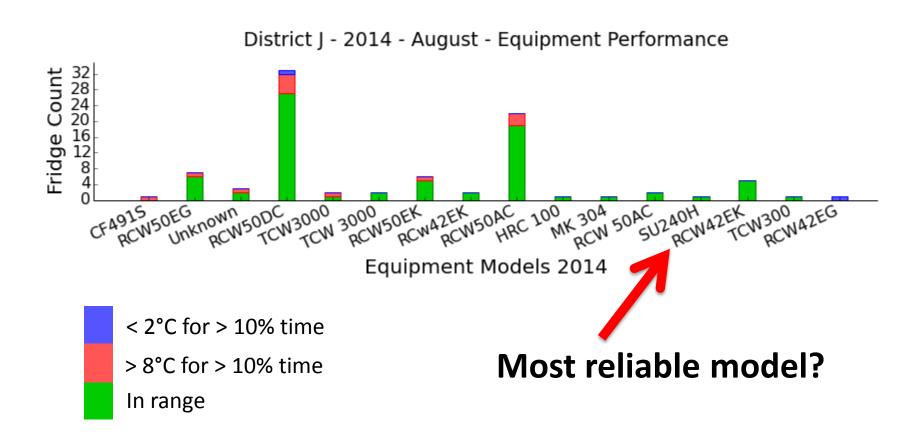
Location:	
Total Number of Clinics:	श्रेद्र श्रेद
Freezing Fridges [< -0.5°C]:	***** ****** ***** ****
*Cold Fridges [-0.5 to 2°C]:	****, ****, ****, ****, ****, ***, **,
*Hot Fridges [8 - 10°C]:	****, ****, ****, ****, ****, ***, ****, ***, ***, ***, ***
Very Hot Fridges [$> 10^{\circ}$ C]:	****, ****, ****, ****, ****, ****
ColdTrace devices facing major power outage:	**, ****

Replace that fridge!

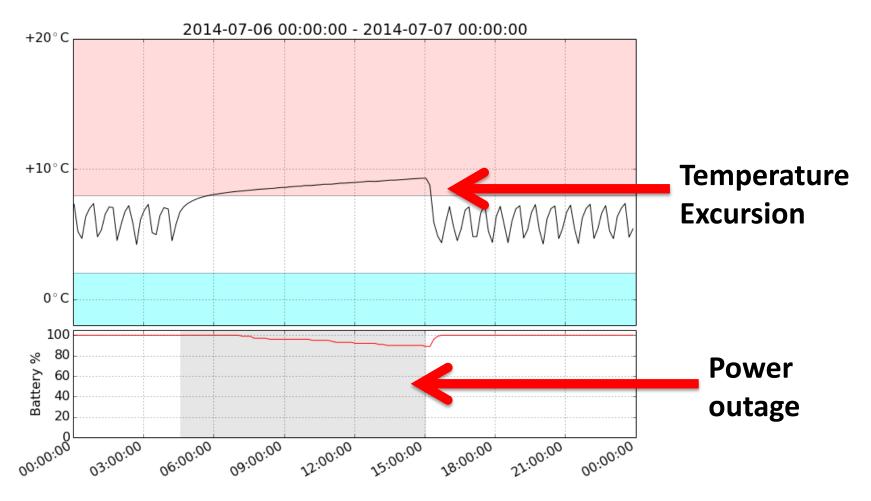
ILR Replaced!



Which fridge works the best?

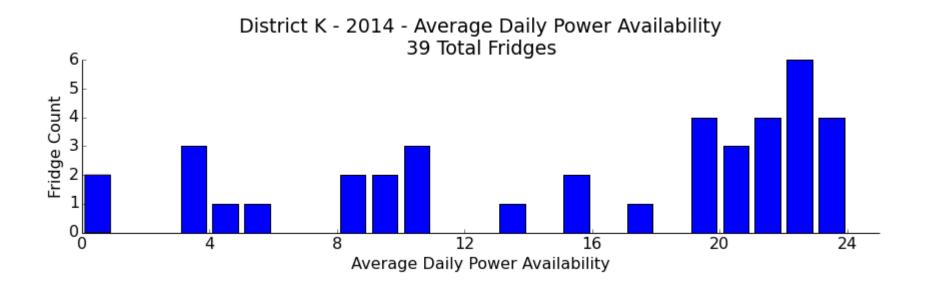


How well does the fridge work in the field and over time?



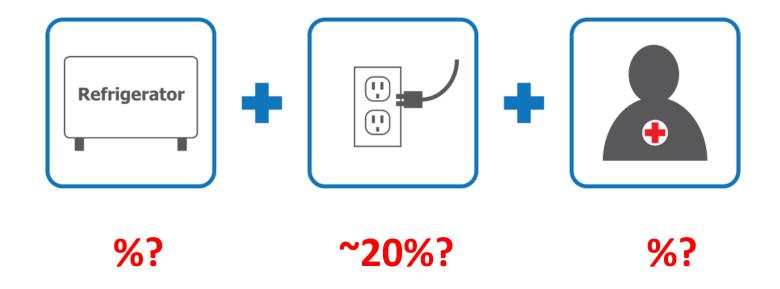
Estimated holdover to 10°C is greater than 9 hours

Which fridge will work given my power availability?



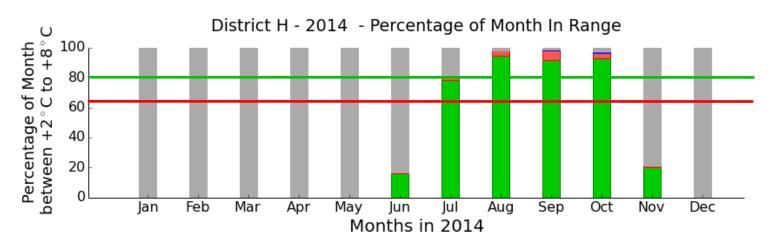
95% of fridges have more than 3 hours of power a day

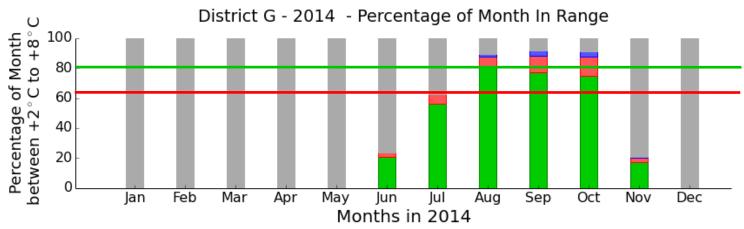
Why do fridges fail?



Data for better maintenance/spare parts/training

Which sites need attention to improve efficacy?

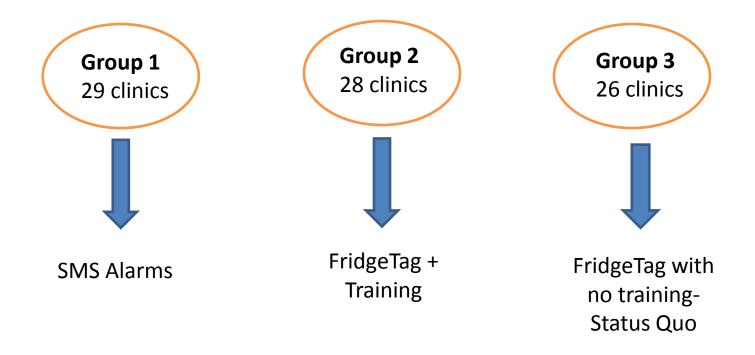




% time no data % time < 2°C % time > 8°C In range

District G needs improvement

Randomized Control Trial









Data Integration







OpenRTM & CCEI Coldchain Module

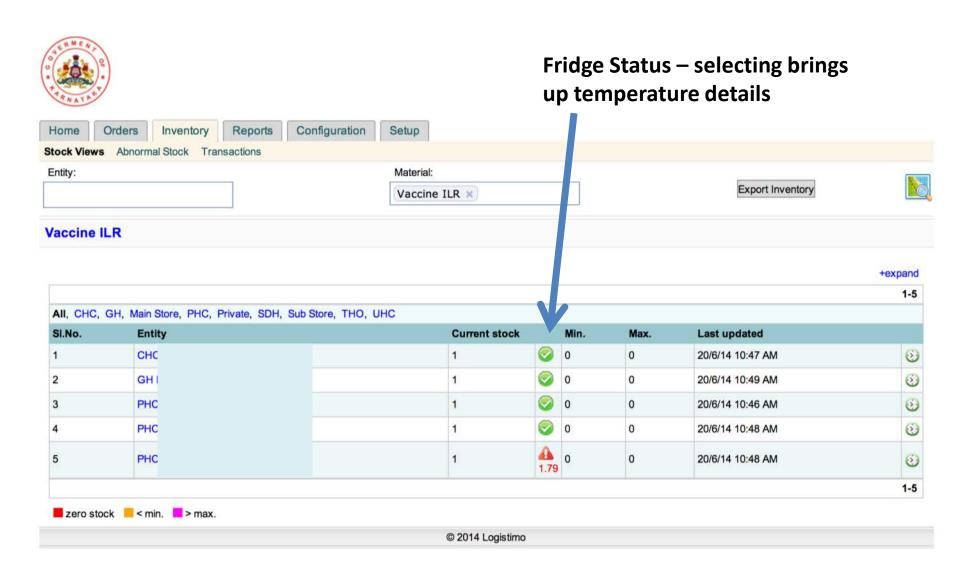
YOUR LOGO HERE





Data Integration

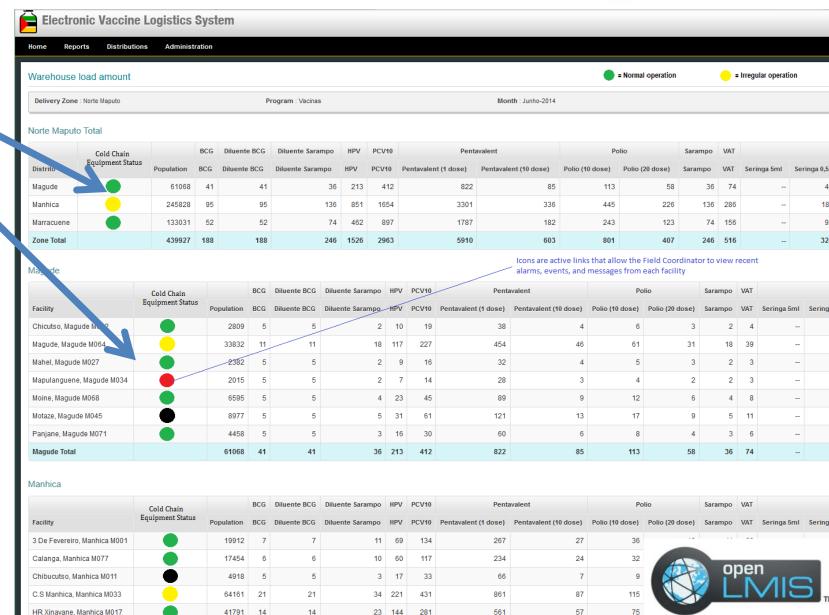




Data Integration



Fridge Status



144

How do you scale?

- 1. Temperature monitoring end-to-end to fix temperature excursions
- 2. Integrating into existing work flows and LMIS/HIS
- 3. Maintenance histories
- 4. Equipment inventory management

RTM Challenges

- Data protection
- Data backup
- Reliable ICT infrastructure required
- Cost implications, recurrent costs
- HR implications

Partners & Participants



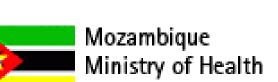














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Technology Validation

