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EU-PRIME 
Supported by the European Union
for Routine Immunization Service Delivery in
Lagos State.



CROSS RIVER

Station	Time	Temp	Wind	Humidity	Clouds	Remarks
1000	5.00	24.0	1.0	80	10	
1100	5.30	23.0	1.0	80	10	
1200	6.00	22.0	1.0	80	10	
1300	6.30	21.0	1.0	80	10	
1400	7.00	20.0	1.0	80	10	
1500	7.30	19.0	1.0	80	10	
1600	8.00	18.0	1.0	80	10	
1700	8.30	17.0	1.0	80	10	
1800	9.00	16.0	1.0	80	10	
1900	9.30	15.0	1.0	80	10	
2000	10.00	14.0	1.0	80	10	
2100	10.30	13.0	1.0	80	10	
2200	11.00	12.0	1.0	80	10	
2300	11.30	11.0	1.0	80	10	
2400	12.00	10.0	1.0	80	10	
2500	12.30	9.0	1.0	80	10	
2600	13.00	8.0	1.0	80	10	
2700	13.30	7.0	1.0	80	10	
2800	14.00	6.0	1.0	80	10	
2900	14.30	5.0	1.0	80	10	
3000	15.00	4.0	1.0	80	10	

CROSS RIVER

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1600	8.00	18.0	1.0	80	10	
1700	8.30	17.0	1.0	80	10	
1800	9.00	16.0	1.0	80	10	
1900	9.30	15.0	1.0	80	10	
2000	10.00	14.0	1.0	80	10	
2100	10.30	13.0	1.0	80	10	
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2900	14.30	5.0	1.0	80	10	
3000	15.00	4.0	1.0	80	10	







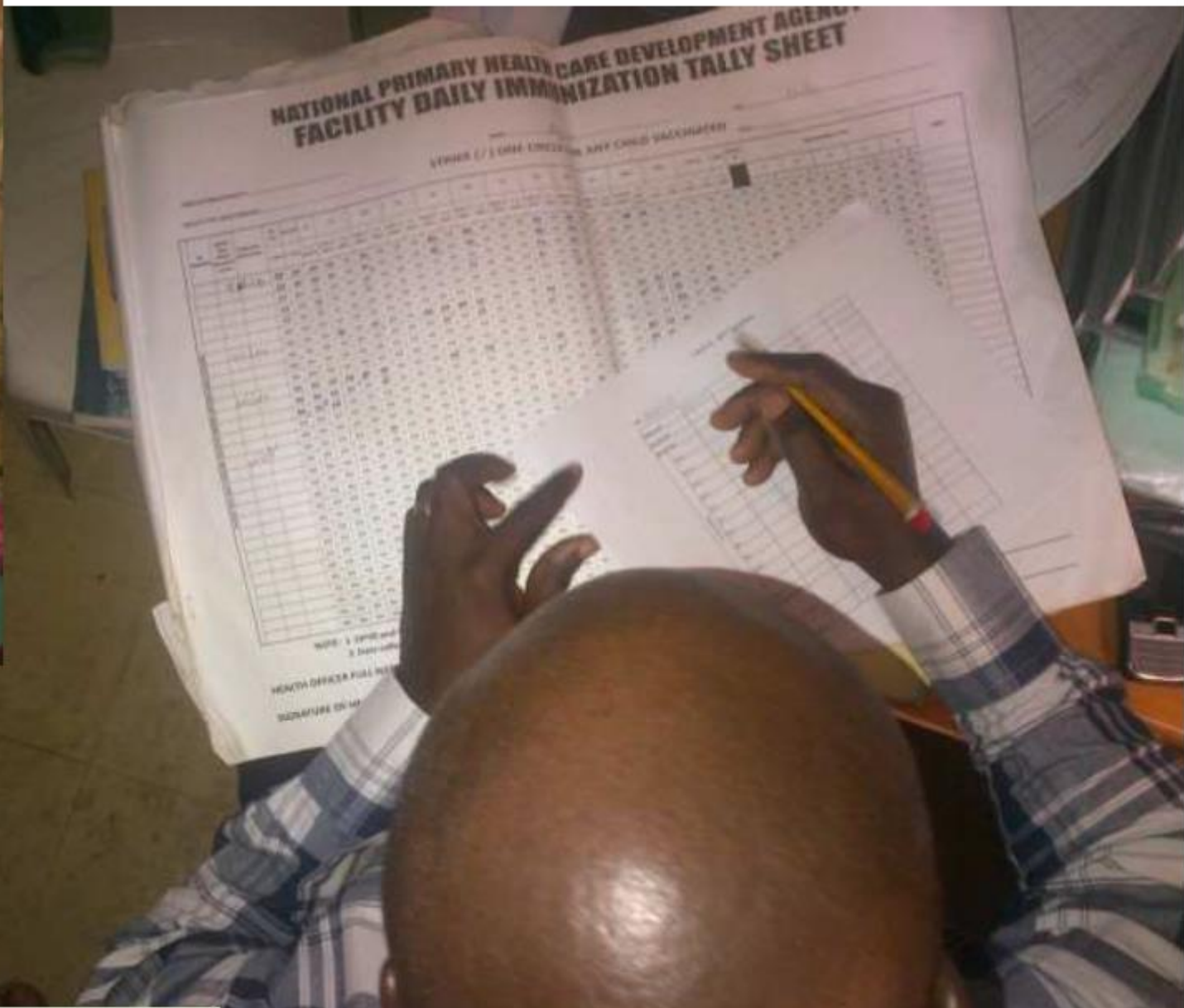
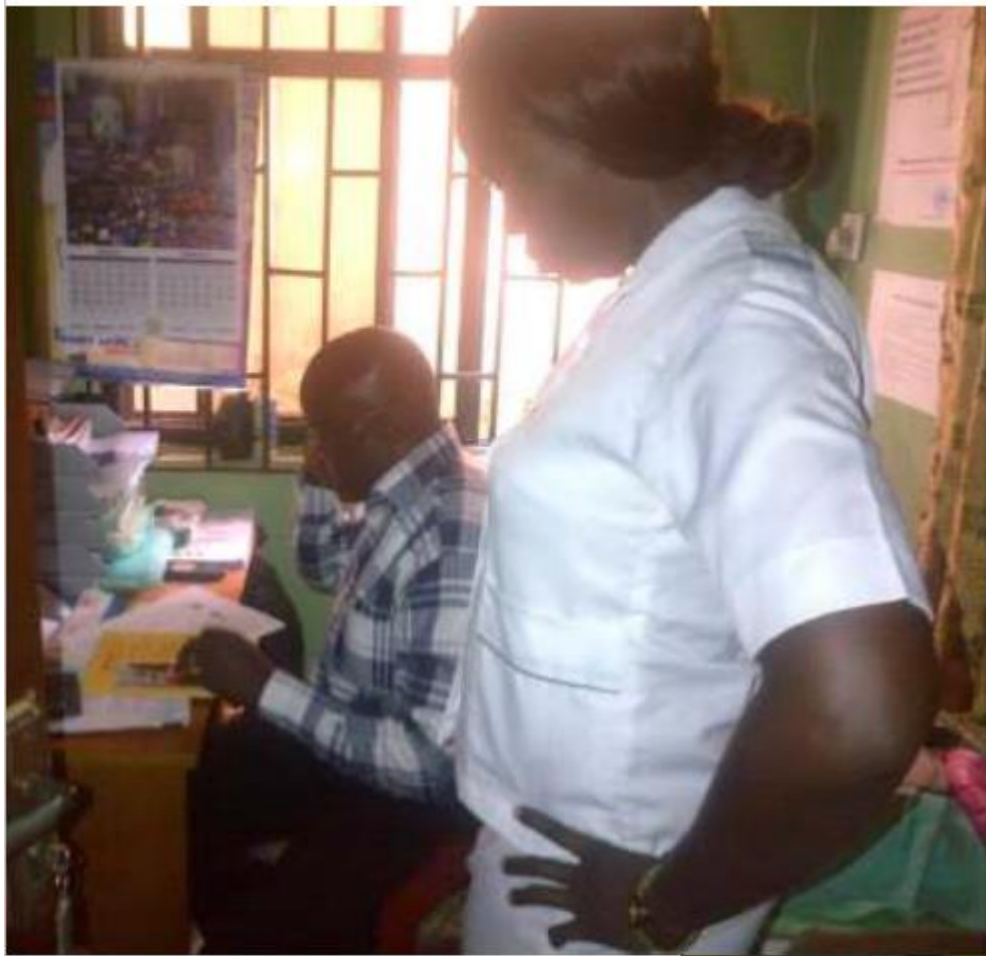
JAPAN













Root cause analysis underscores the importance of understanding, addressing and communicating cold chain equipment failures to improve equipment performance

Shahrzad Yavari
Nexleaf Analytics







mas juntos iremos mais longe

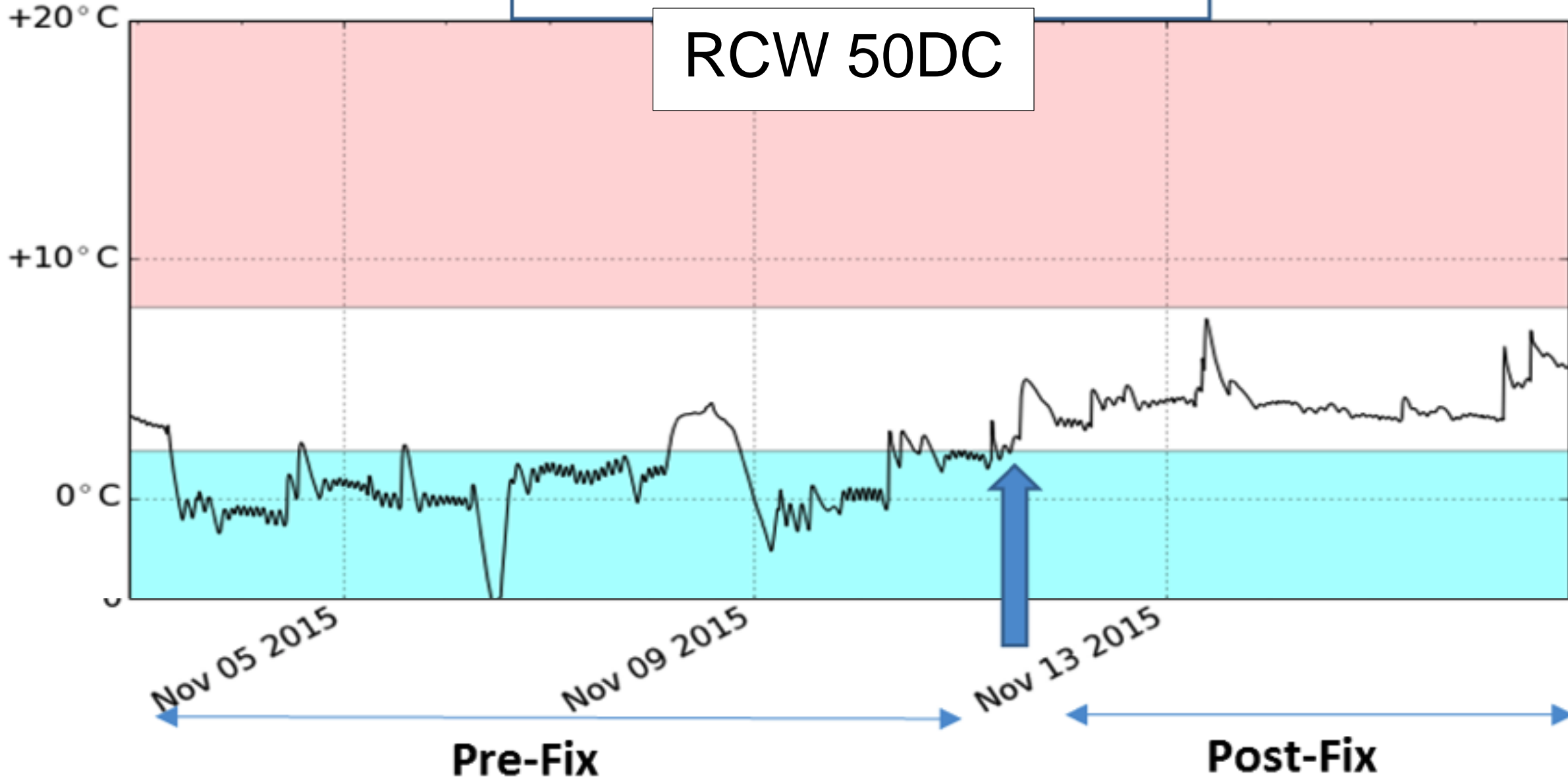
Janeiro	Fevereiro	Março	Abril
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Julho	Agosto	Setembro	Dezembro
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31





Thermostat Adjustment

RCW 50DC





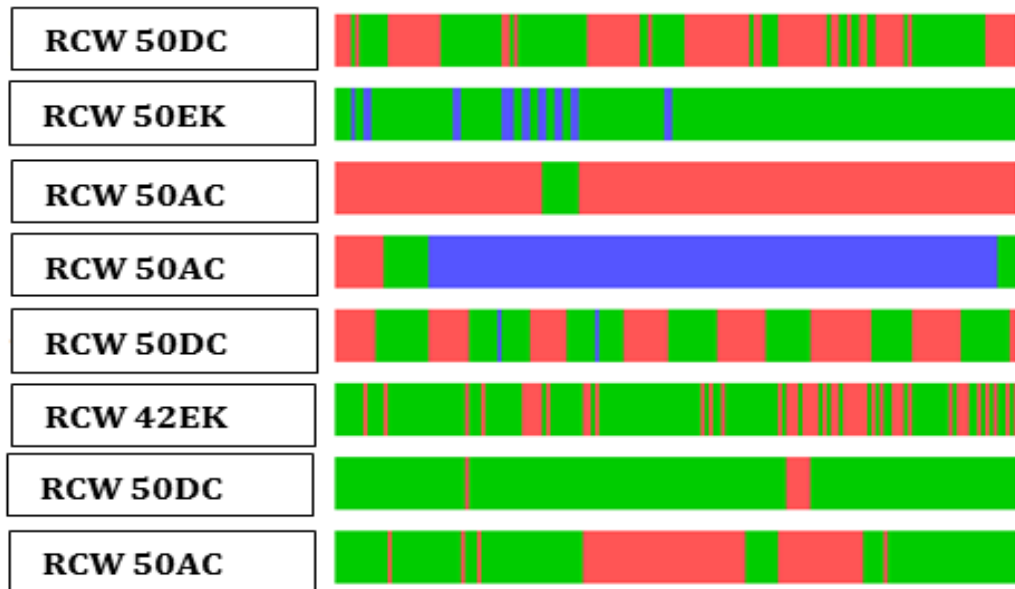
Weekly Summary

[Monthly Summary](#) [Weekly Summary](#) [Clinic Summary](#) [Equipment Status](#)

Soren_Thermo [Display Dashboard](#)
Select Deployment Select Date

Past 7 Days

Thu 10/01 Fri 10/02 Sat 10/03 Sun 10/04 Mon 10/05 Tue 10/06 Wed 10/07



Heatmap Legend



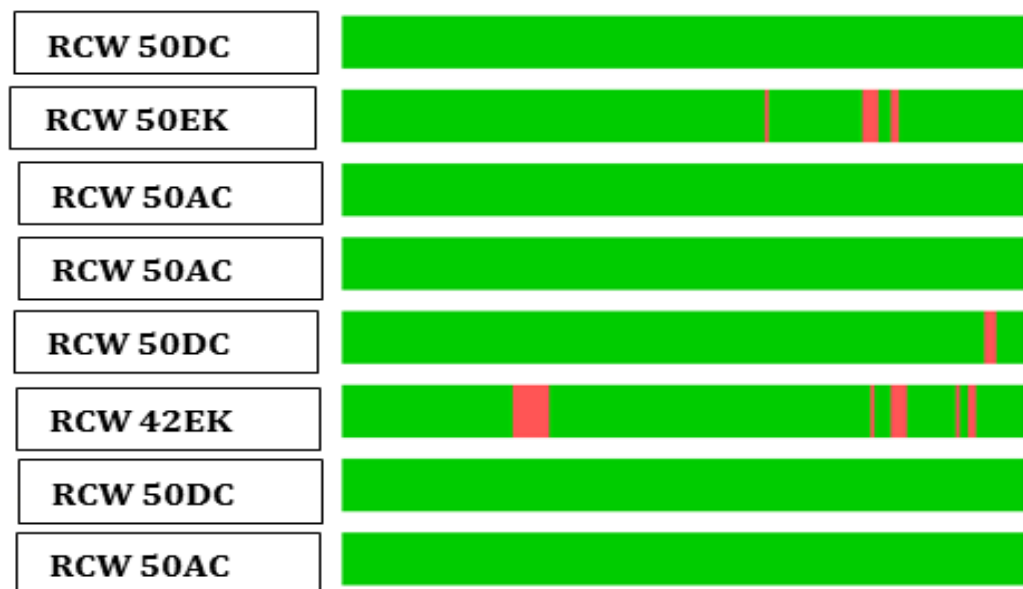
Weekly Summary

[Monthly Summary](#) [Weekly Summary](#) [Clinic Summary](#) [Equipment Status](#)

Soren_Thermo [Display Dashboard](#)
Select Deployment Select Date

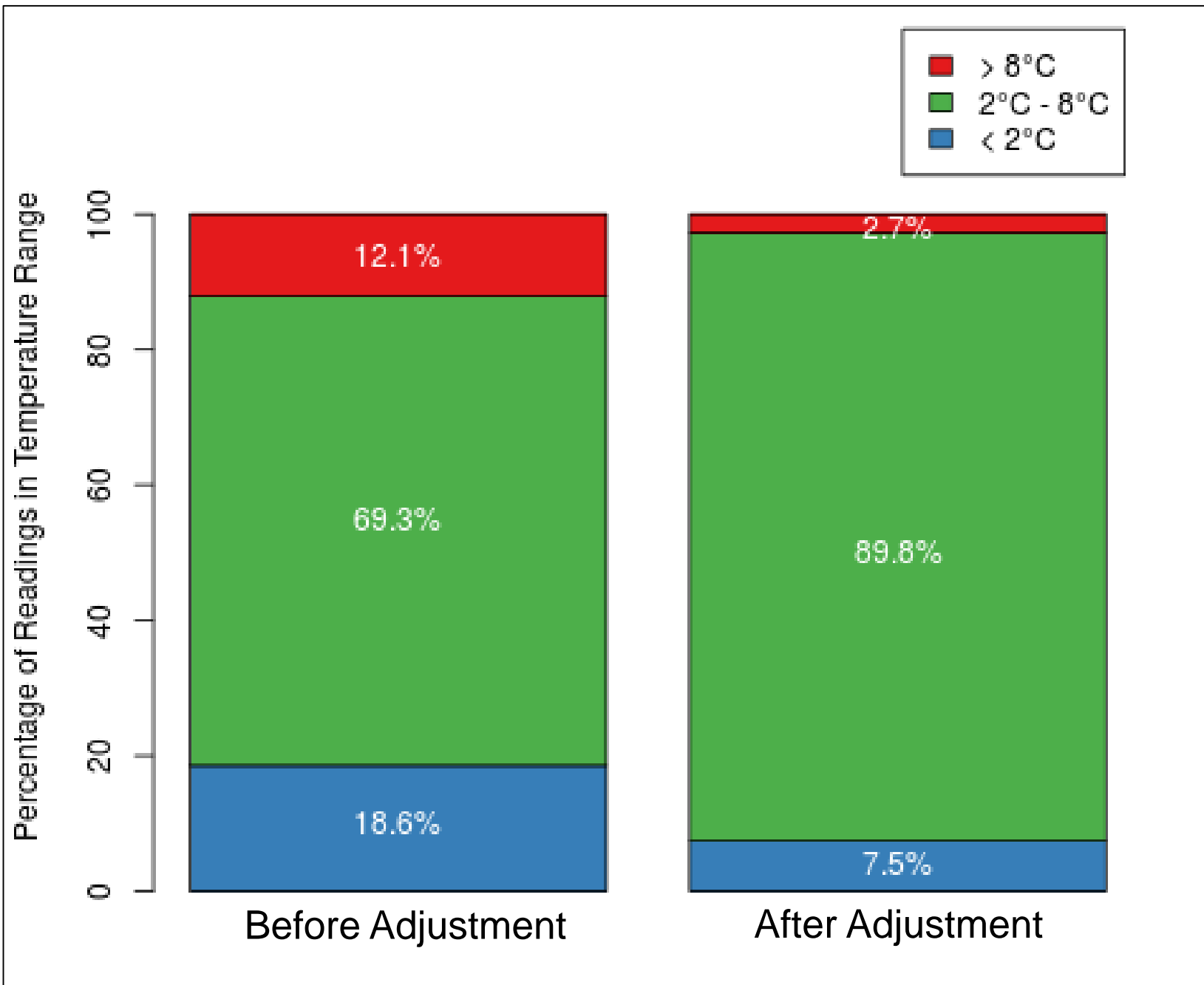
Past 7 Days

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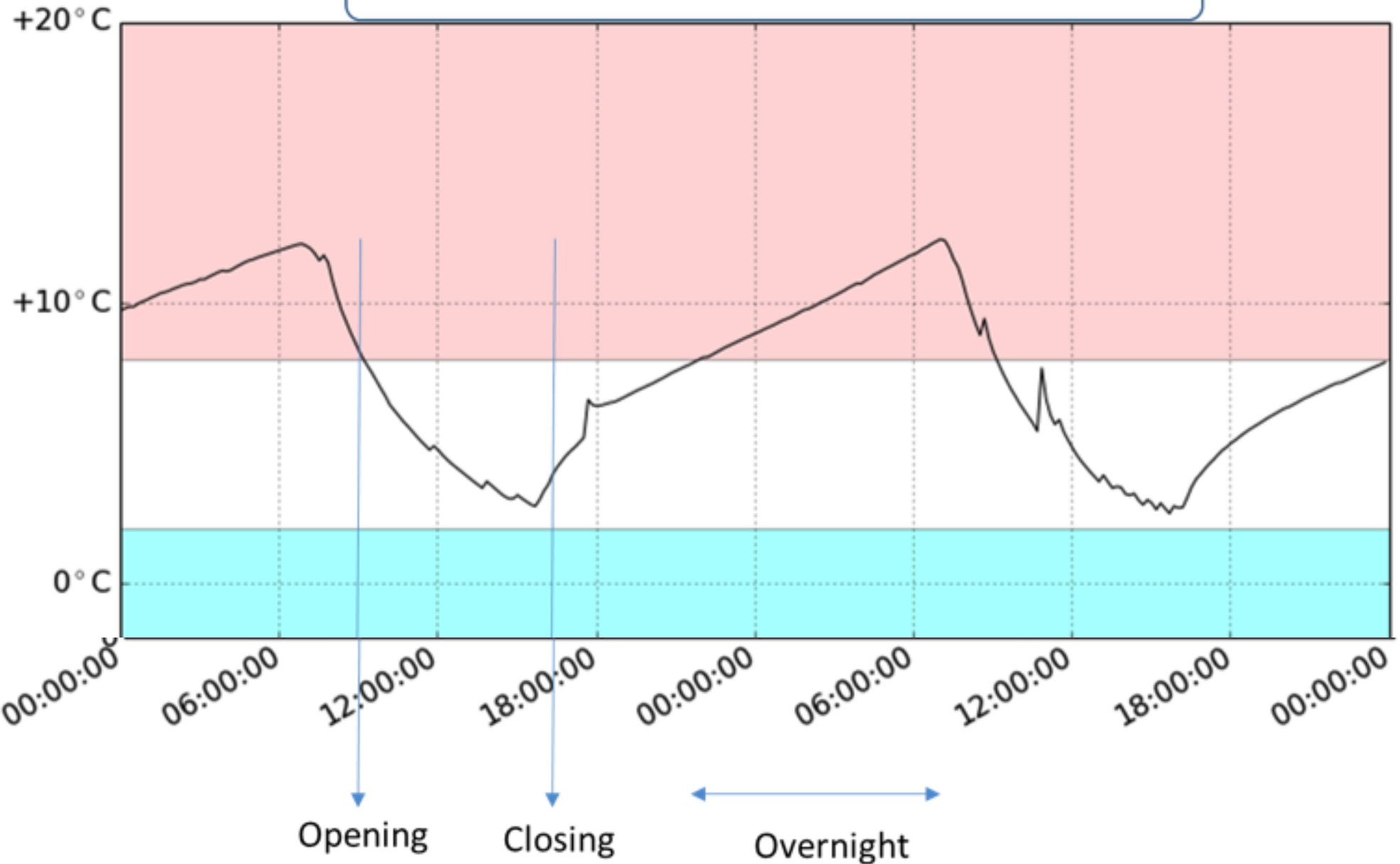


Heatmap Legend





RCW 50DC- Flat Battery Performance Pattern



Past 7 Days

Thu 10/01 | Fri 10/02 | Sat 10/03 | Sun 10/04 | Mon 10/05 | Tue 10/06 | Wed 10/07

RCW 50DC



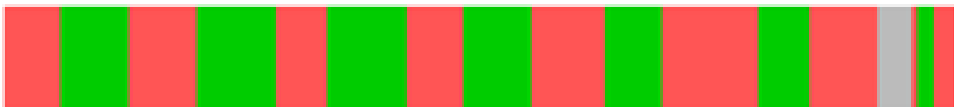
RCW 50DC



RCW 50DC *



RCW 50DC



RCW 50DC *

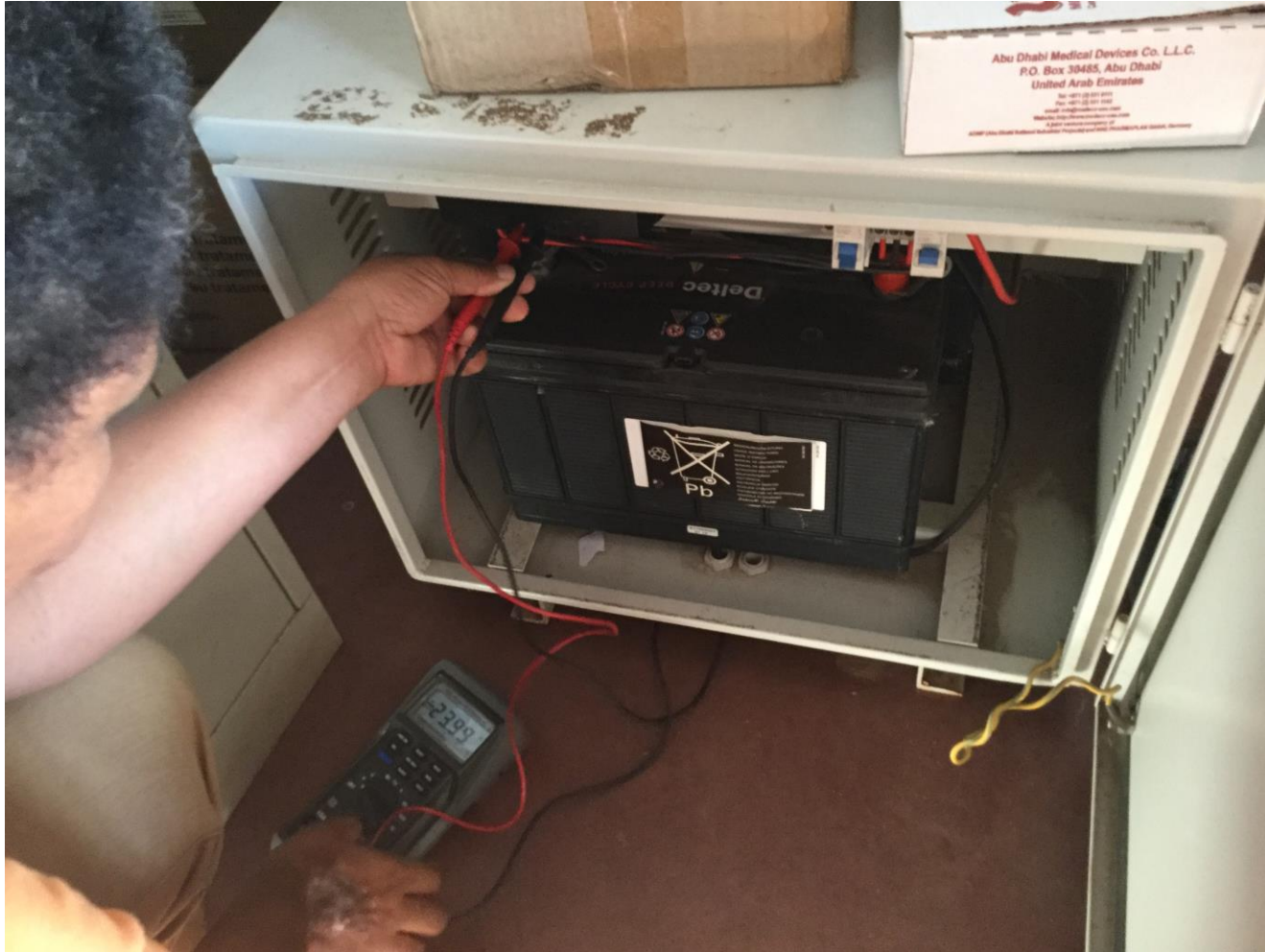


Daytime: Fridge in range

Night time: Fridge heats up

Heatmap Legend











CCX 41213

REPÚBLICA DE MOÇAMBIQUE
MINISTÉRIO DA SAÚDE
SERVIÇO NACIONAL DE SAÚDE

CARTÃO DE SAÚDE DA CRIANÇA
Nome da Unidade Sanitária: 110 2 01

Vila Unidade Sanitária: 1102001

IDENTIFICAÇÃO
Nome da criança: Lucas
Nome da mãe: Lucas
Residência: 110 2 01 001 001 001

CÓDIGO DE VACINAÇÃO
N.º de identificação: 901036 88
Data de nascimento: 02 08 2015

PERINATAL:
Data de Nascimento: 02 08 2015 Local do parto: Em casa Tipo de Parto: Normal Placenta: Normal
Peso de Nascimento: 3 100 A.Camada: 1 Via de Nascimento: Vaginal Sexo: Masculino

Idade Gestacional (semana): 37 Índice de Apgar: 100 Perímetro Cerebral: 35
01 min: 8 5 min: 8 Comprimento: 45 cm

COMPLICAÇÕES:
Durante a gravidez: _____
Durante o parto: _____
Neonatais (1.º ano): _____

HISTÓRIA FAMILIAR:
Doença alérgica: _____ Hipertensão Arterial: _____
Anemia crónica: _____ Doença do Sistema Nervioso Central: _____
Asteria Irregular: _____ Tuberculose: _____
Diabetes Mellitus: _____
Doenças cardíacas: _____ Outras: _____
Irmãos Vivos: _____ Causa da morte: _____
Falecidos: _____

ATENÇÃO:
Apresente sempre este Cartão de Saúde em todas as Consultas





© UNICEF/NYHQ2012-0156/QUARMYNE

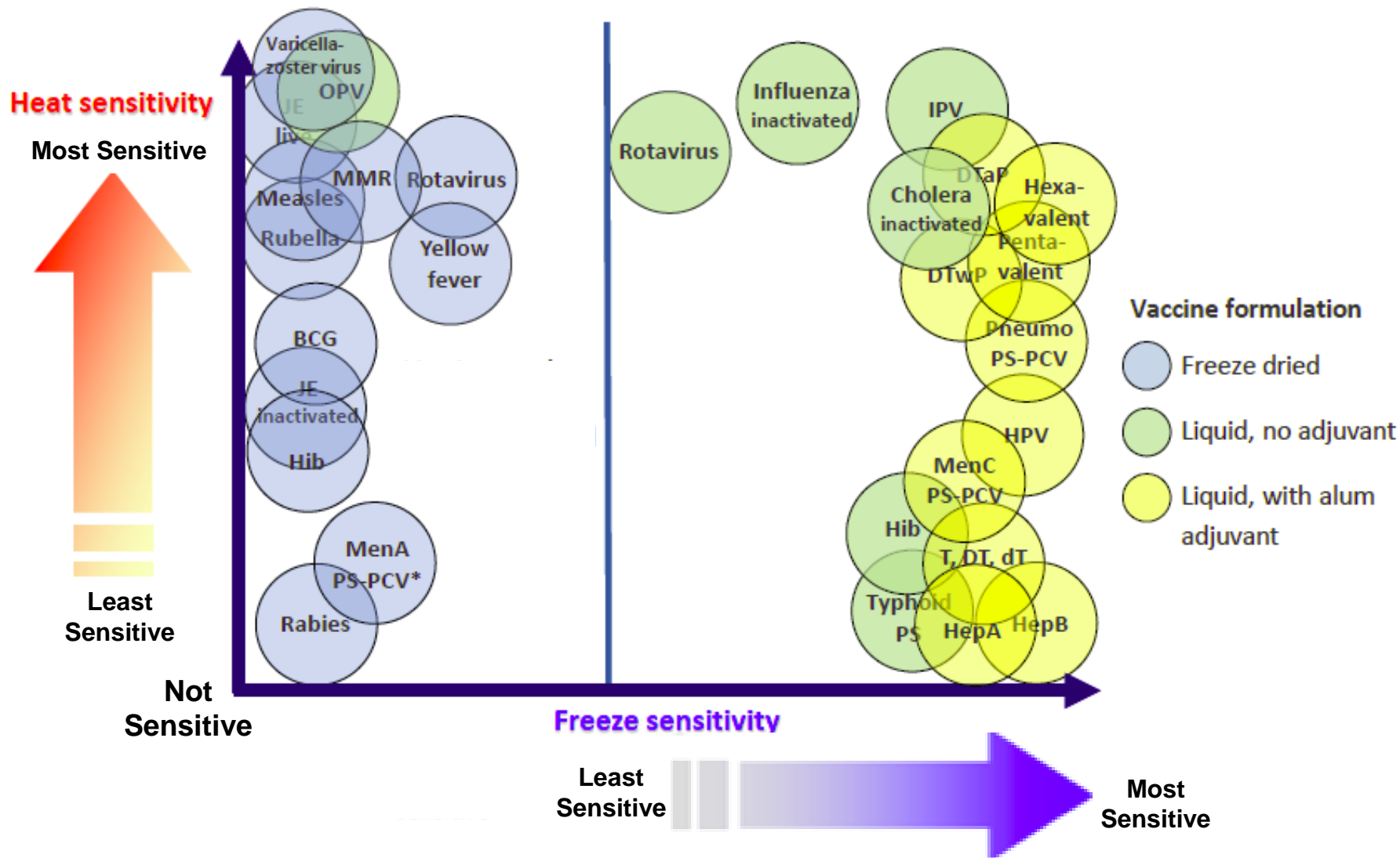
Is freezing an on going issue in the vaccine cold chain? A systematic literature review

C. Hanson; A. George; B. A. Sawadogo; B. Schreiber
UNICEF PD

unite for
children

unicef 

Temperature Sensitivity of Vaccines



*The diluent for MenA PS-PCV contains alum adjuvant and is freeze sensitive

Source: WHO & PATH.. Slide Set.. 2014. Available at:

http://www.who.int/immunization/programmes_systems/supply_chain/resources/VaccineStability_EN.pdf

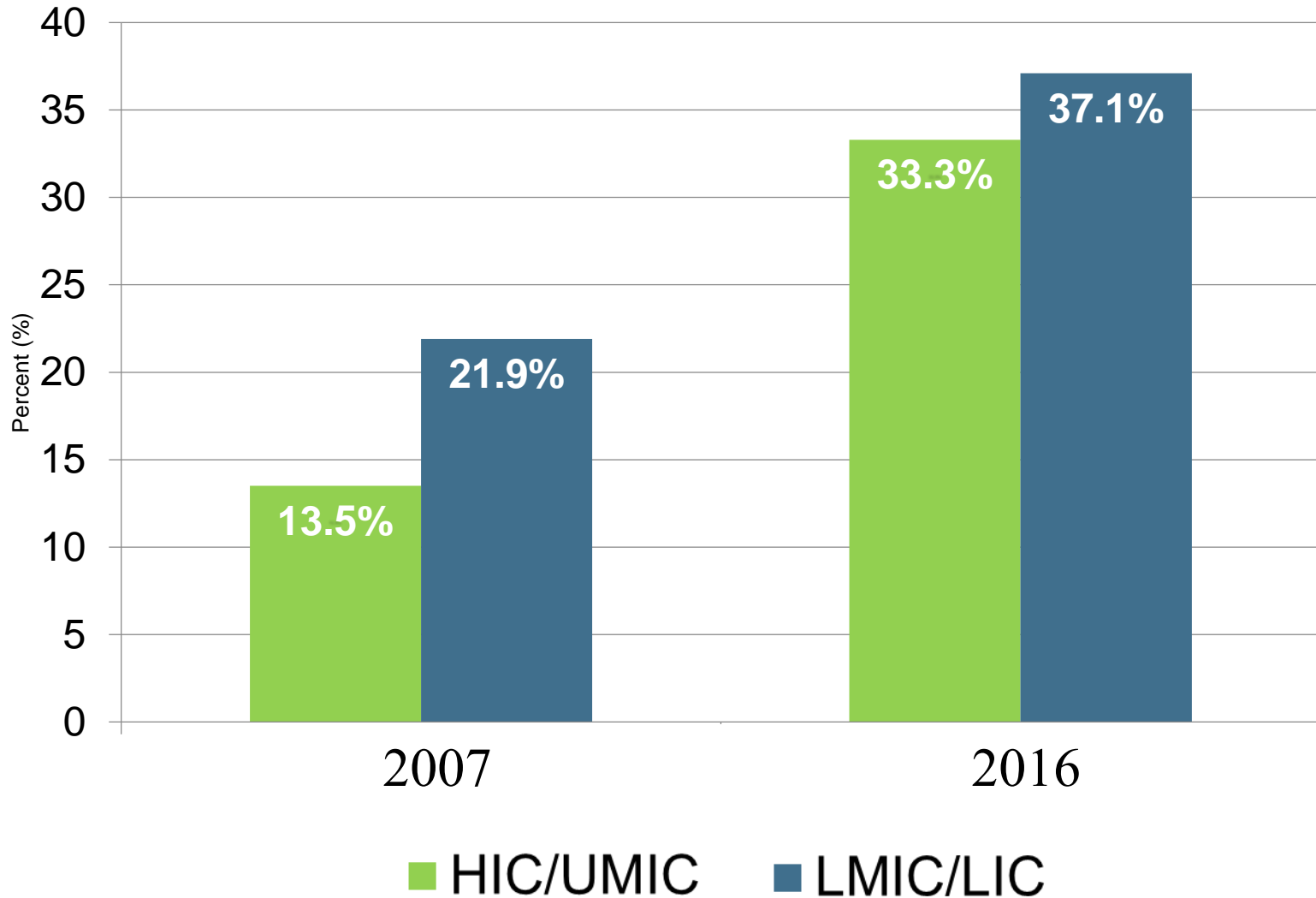
The in-country vaccine journey



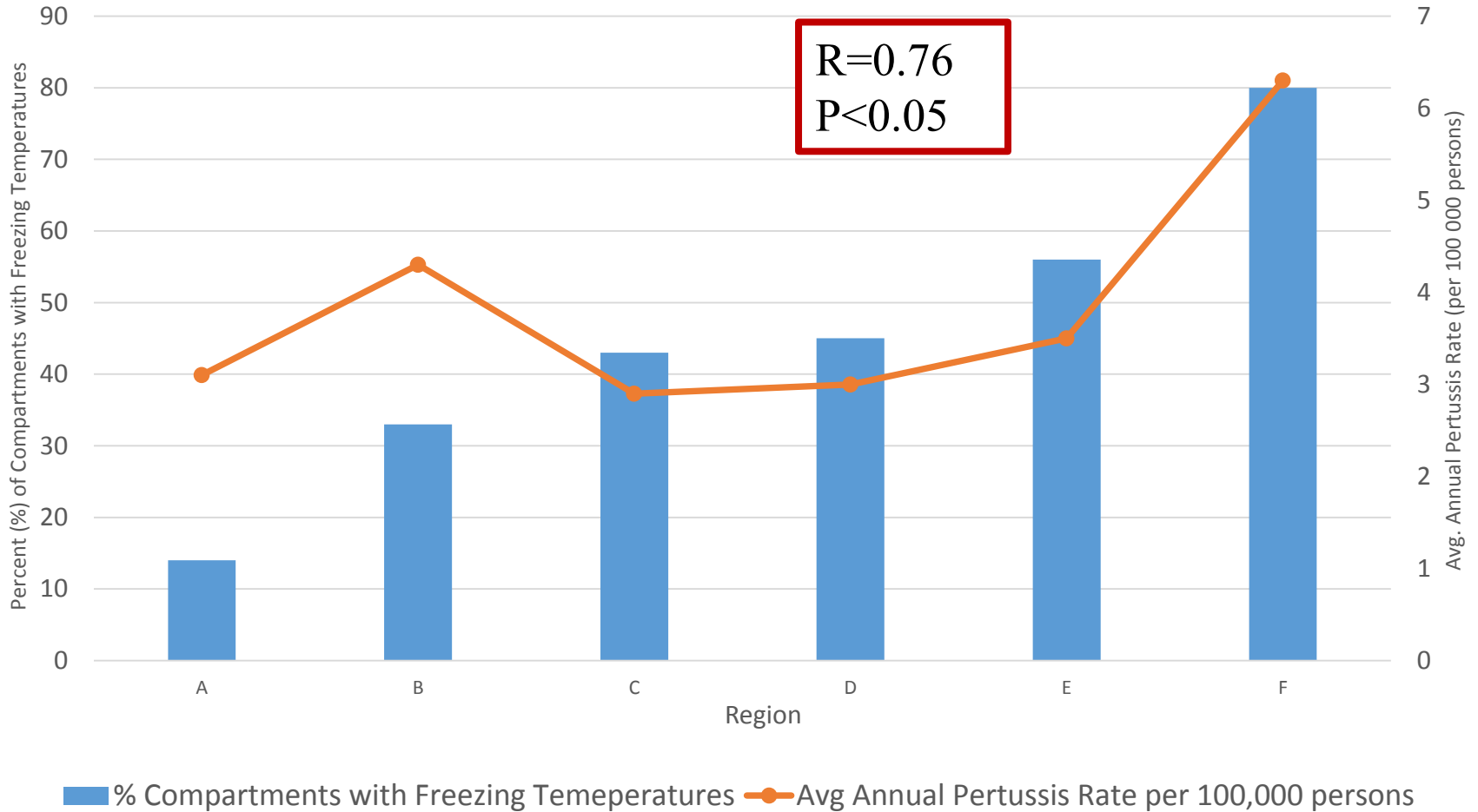
Updated Literature Review

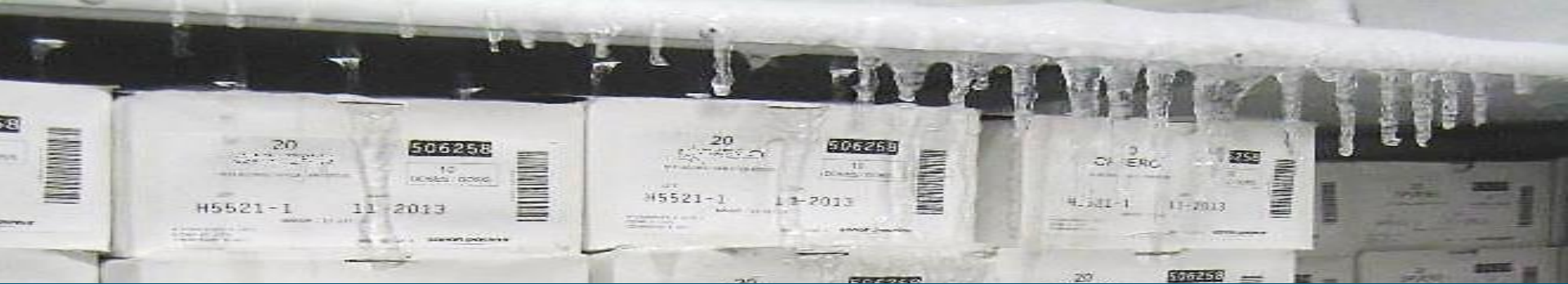
- Updated Review from Matthias, et al., 2007
- From 1985 to June 2006, 35 articles assessed vaccine exposure to freezing, averaging 1.7 articles per year
- This update identified 29 articles in the last 10 years, averaging 2.9 articles per year
- Analysis examined studies that assessed temperature at specific time points and those that continuously monitored temperature (rigorous studies)
 - More rigorous studies in transport in HIC/UMICs
- Sample sizes Varied Widely:
 - 3 to 440 storage units
 - 1 to 103 shipments
 - 3 to 103 for outreach sessions

Freezing Exposure During Storage Increased



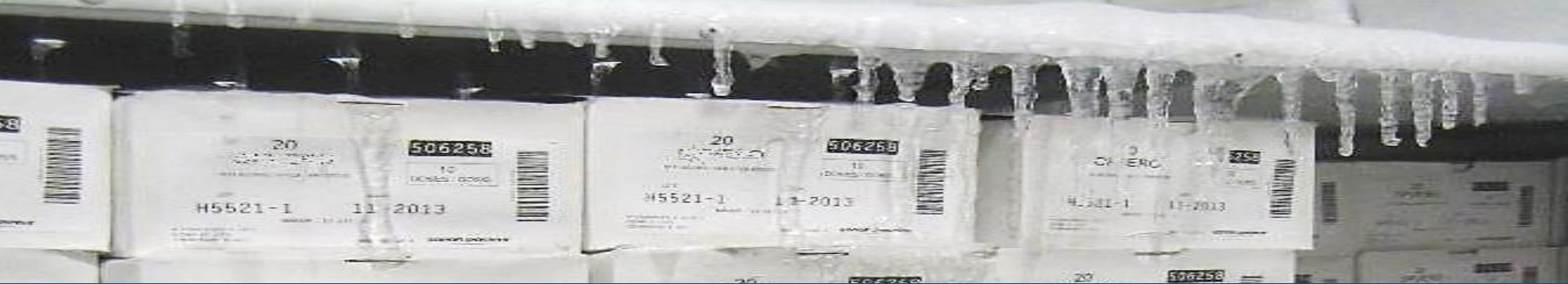
Exposure to Freezing Temperatures and Possible Links to Outbreaks: Pertussis





Yes! Freezing is Still an Issue





Key Lessons:

- More countries implementing continuous temperature monitoring
- More countries are conducting temperature monitoring studies
- New technology: visual sticker on vial to detect freezing
- Training and Supervision of vaccinators and cold chain staff



THANK YOU



unicef  | for every child