UNICEF – SD
Update on Cold Chain

Presented to 14th TechNet Conference
11 – 15 May , 2015
Bangkok, Thailand

13 May 2015

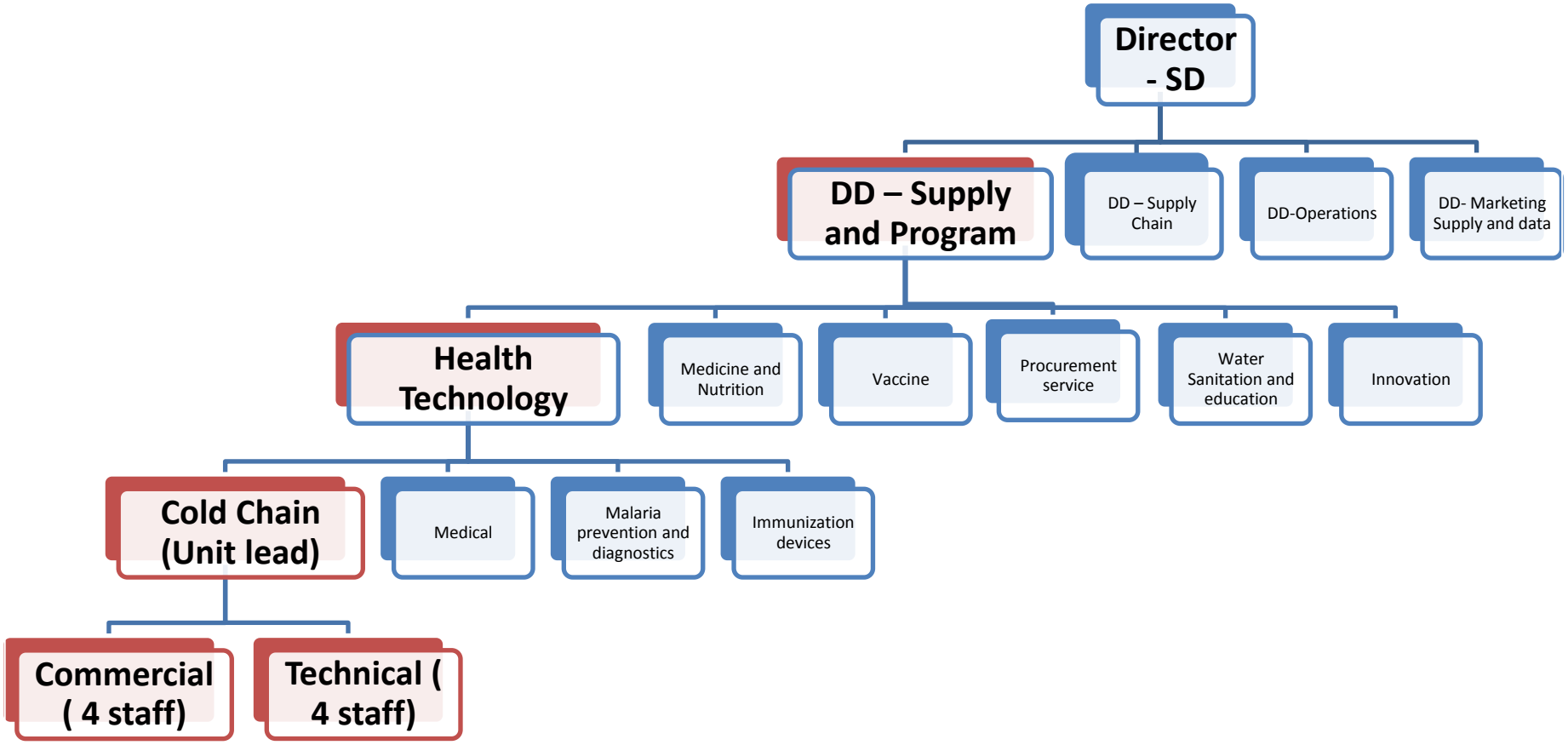
UNICEF SD

UNICEF has a key role in Immunization supplies procurement, including Vaccines, Safe Injection and Cold Chain Equipment; procuring immunization supplies on behalf of 80 - 100 countries annually

2014 COLD CHAIN EQUIPMENT (CCE): US$ 40.6 million

80 Countries

UNICEF SD – Cold Chain Unit

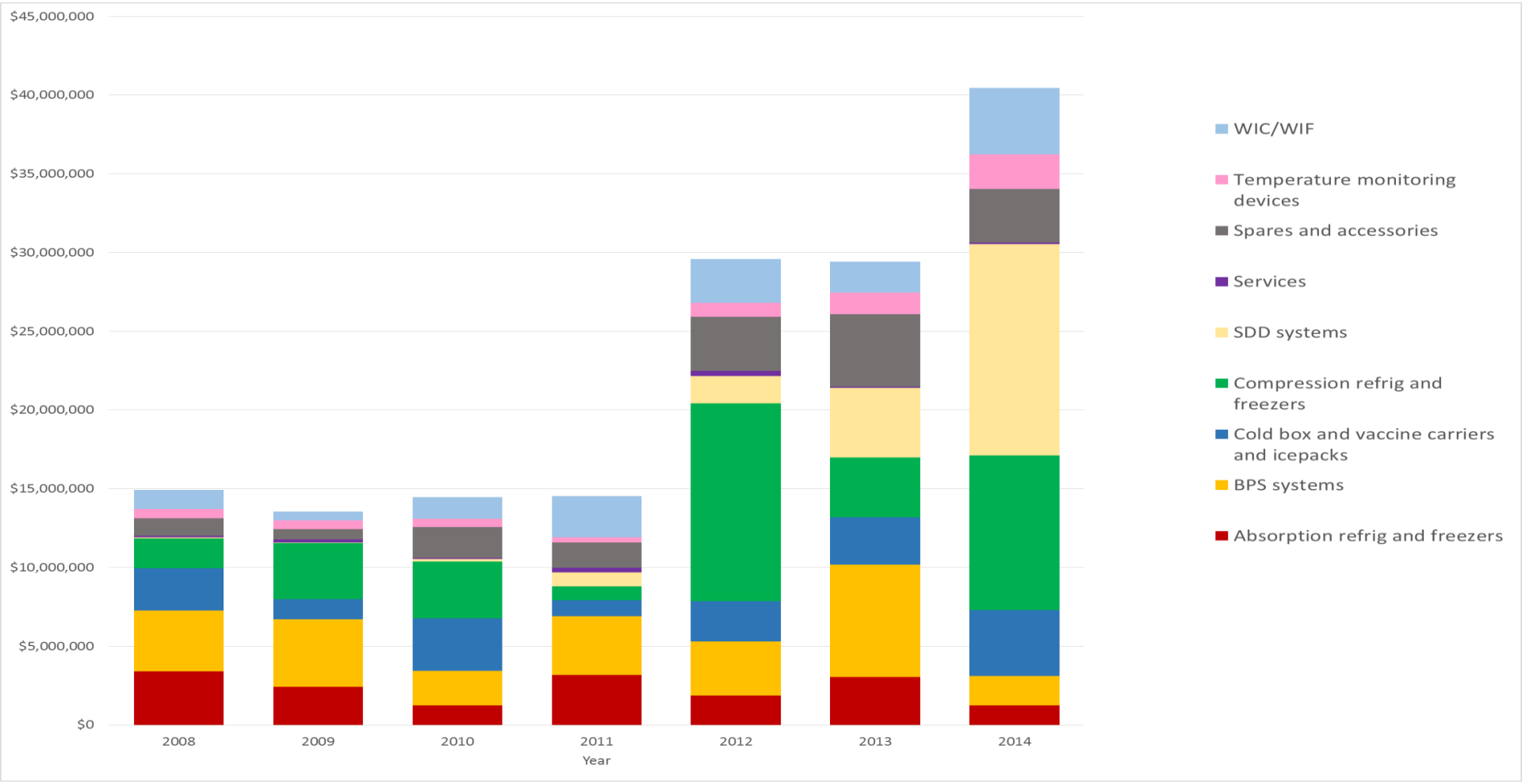


Cold Chain Equipment and Services – Support Areas

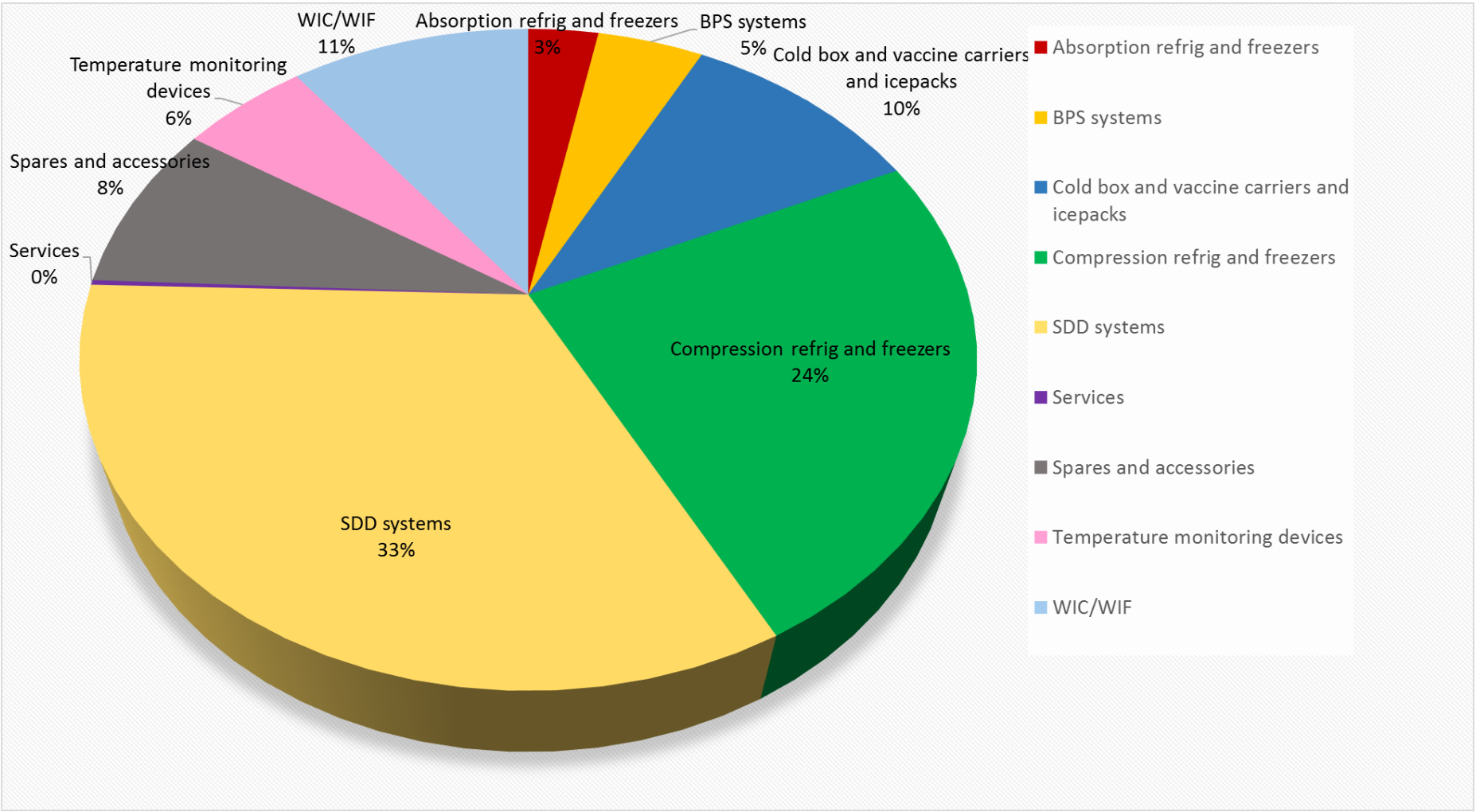
Access to supply and performance monitoring: transactions/operations and establishing strategies on procurement, products and markets, including influencing markets, contract and performance management, quality assurance and complaints handling

Capacity building and country/partner support: deployments, needs assessment and recommendation, VM and EVM training and assessments, installation/use and maintenance, performance monitoring and evaluation), guidelines (CCSP, VM handbook), TPP/PQS, innovation and testing, partnership work on Funding Facilities, RRF, RTM, GAVI BP, CCE TT, etc

There is a steady demand for Solar Direct Drive systems

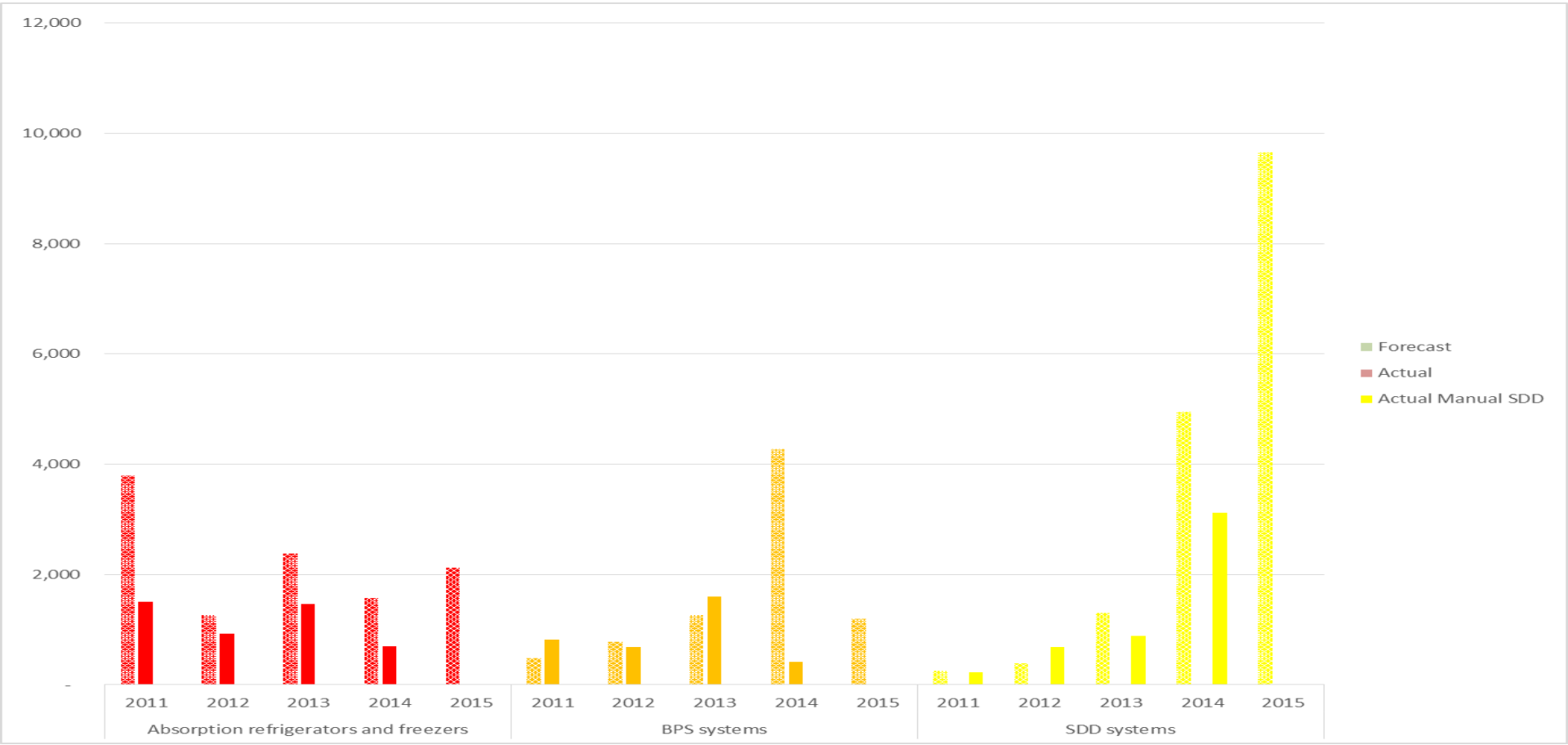


38% of the 2014 throughput is for Solar equipment. (based on value, 2014)



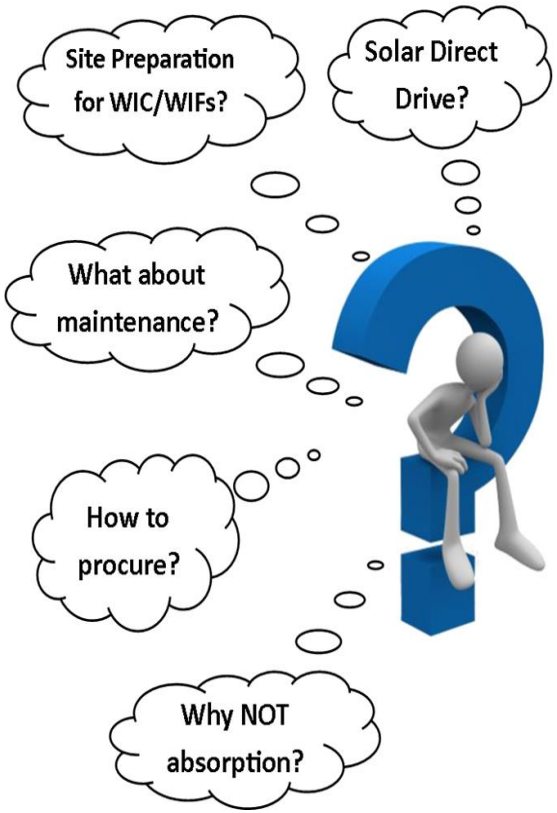
- Since 2011 the throughput has doubled.
- The 2014 throughput shows a >34% increase compared to 2013.

UNICEF offtake 2011-2014 and 2015 forecast



- There is a clear shift away from Absorption and Battery powered storage based refrigeration systems to move to Solar Direct Drive refrigeration systems.
- These new technologies will require closer performance monitoring the years to come.

Cold Chain Products



Cold Chain Support Package

Technical and Commercial information related to planning and procurement of Cold Chain products and services

General procurement information

Product-specific information

Frequently Asked Questions

Links to web resources

Discussion Forum

Visit our website:

www.unicef.org/supply

Immunization > Cold Chain > CCSP

Email us:

sd.coldchain@unicef.org

Cold Chain Support Package

Visit our website:

www.unicef.org/supply

Immunization > Cold Chain > CCSP

Email us:

sd.coldchain@unicef.org

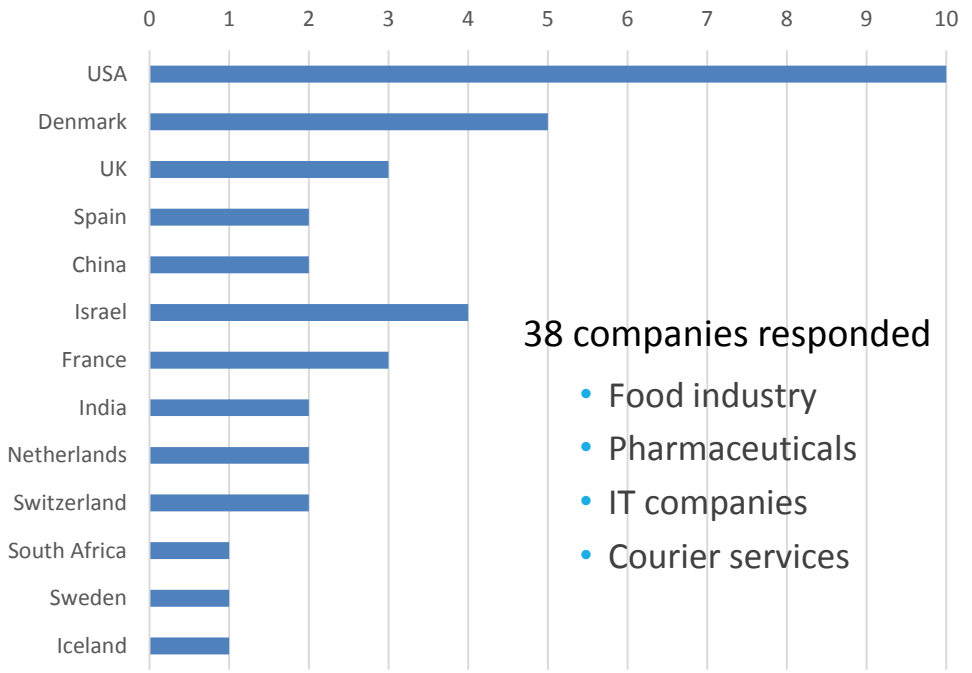
Tutorials available on You Tube https://www.youtube.com/watch?v=5b6gQXwaS9E

http://www.unicef.org/supply/index_68367.html

RFI – Temperature Monitoring Devices

Why do a landscape analysis of TMD?:

- Critical importance of temperature monitoring
- Changing technological landscape - New industrial developments and market trends
- Applications in other sectors of industry, lessons learned
- Possible gaps in temperature monitoring approaches



38 companies responded

- Food industry
- Pharmaceuticals
- IT companies
- Courier services

Industry trend:

- From passive to active data transmitting devices
- Geo-location-tracking (GPS)
- Monitoring of multiple parameters (temperature, humidity, light, shock)
- Choice of wireless data communication technologies (GSM, Satellite, UHF)
- Systems and modular approaches

General outcome of the RFI

Outcome or RFI

- The identified products meet the need.
- Need for product improvements
- Need for additional features
- RFID for warehousing and transport

Main gaps in the market

- RTM solutions for ICT-poor locations
- Clear policies on data protection
- Address issue of recurrent cost (RTM)

WIC/F Survey - 2014

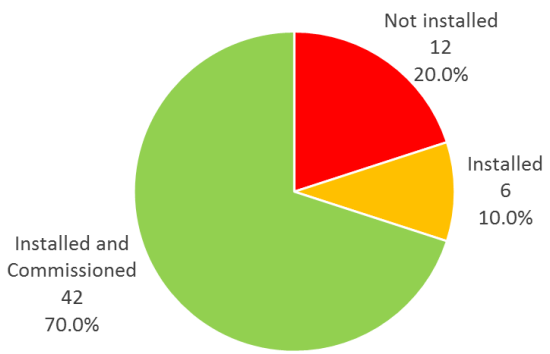
Objective

1) To follow-up on the performance of products supplied by UNICEF SD

2) To gain an understanding of post-procurement issues, so as to assist countries better

Survey 2012	Sample size	Population
PO	29	32
# WIC/F	60	66
Countries	22	25

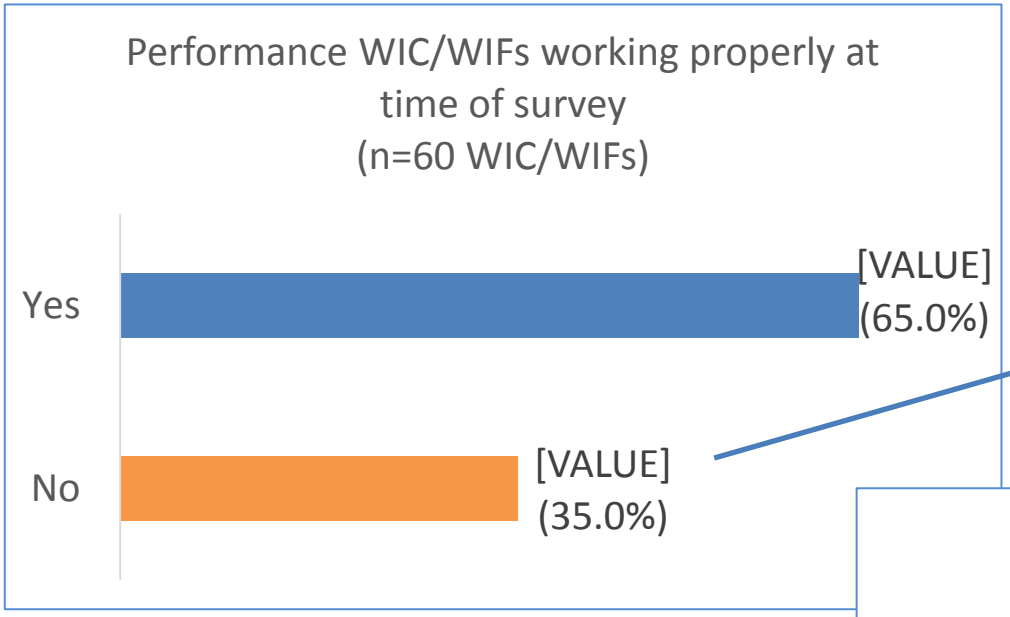
Operational Status on July 1, 2014 of WIC/WIFs procured in 2012, by number of WIC/WIFs (n=60)



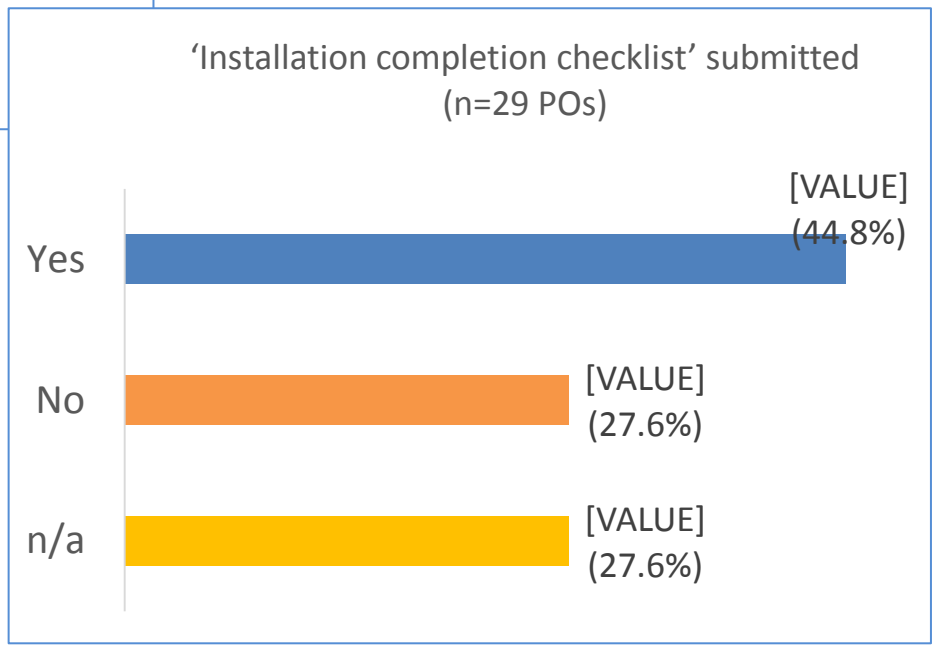
Summary of findings

- 65% of the total number of units are functioning properly at time of survey.
- The perception by countries of the ordering process, is positive.
- Installation of WIC/WIFs proves problematic,
- Significant difference in performance of equipment, depending on who contracted the installation service.

WIC/F Survey - Operational Performance



- Site not ready
- Power supply not ready
- Site construction below standard

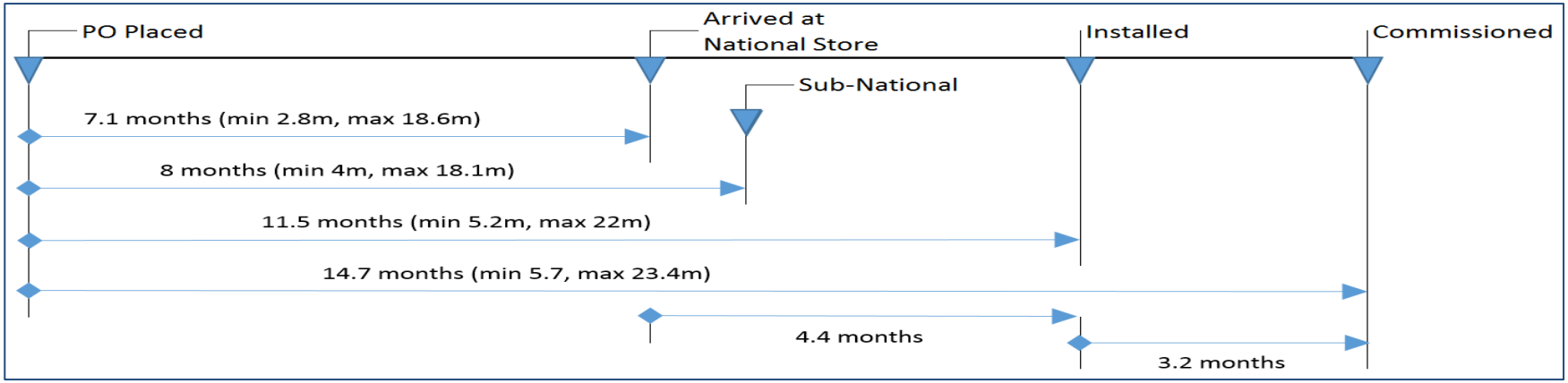


Delivery milestones

- Months from PO placement

	Average	Min	Max
Arrival at National Store	7.1	2.8	18.6
Arrival at Sub-National Store	8	4	18.1
Installed	11.5	5.2	22
Commissioned	17.5	5.7	23.4

Installation contracted by	UNICEF SD	CO	Govt.	Not contracted	TOTAL
No. WIC/WIF installations contracted	7	18	13	22	60
No. WIC/WIFs currently fully operational	7	9	7	16	39
Performance	100%	50%	54%	73%	65%



SDD monitoring at UNICEF - SD

Objectives :- To have a closer look at and understanding of SDDs

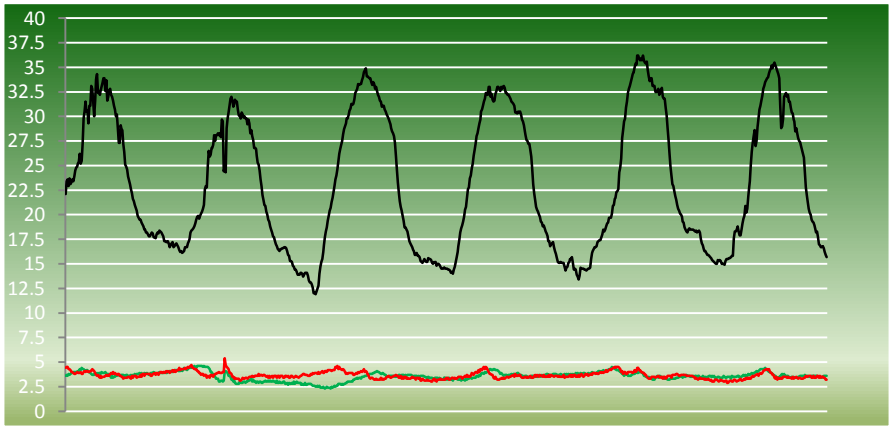
- To monitor/assess performance of equipment
- To showcase SDDs to visitors from CO, partners , to improve their understanding on the technology.

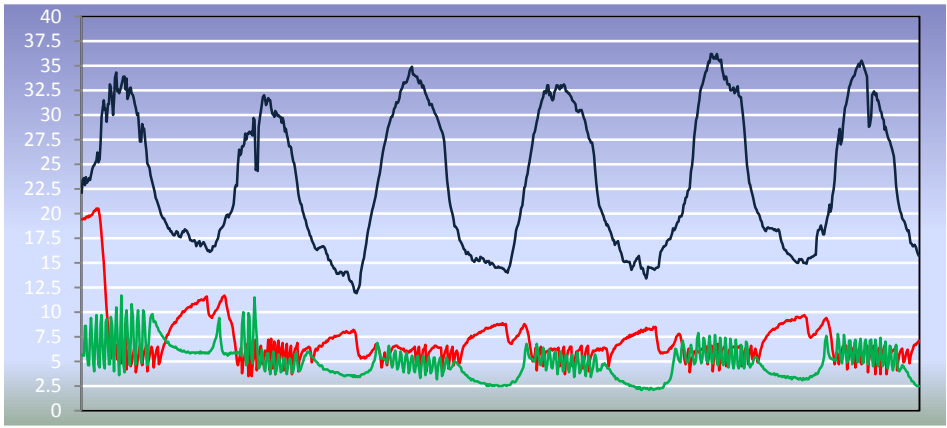
June 2013

- 5 SDD
- 1 BPS
- 1 PQS Central temperature monitoring device

October 2014

- 8 SDD
- 1 Solar BPS r
- 2 PQS Central temperature monitoring devices





1. RFI – for solar technologies,
2. Fast tracking of the outcome of RFI for temp monitoring device for pre qualification
3. Field performance evaluation protocol development for WIC/F.
4. Demand forecasting of cold chain equipment 2016 – 2020
5. Field performance evaluation of Solar technologies
6. Inclusion user maintenance manual in CCSP.

Thank you