

**EVM Training Modules** 

### Module 3: The EVM Framework

#### **Agenda**

- 1. iSC Requirements
- 1. The EVM criteria
- Inputs, output and performance categories
- 1. What assessors see: the questions
- 2. Assessment scoring



## Introducing the heatmap

The heatmap visualization is the best way to understand the EVM framework and scoring. It will be referenced throughout this section.

Note: this is ONE WAY to visualize the data, and the easiest way to understand scoring.

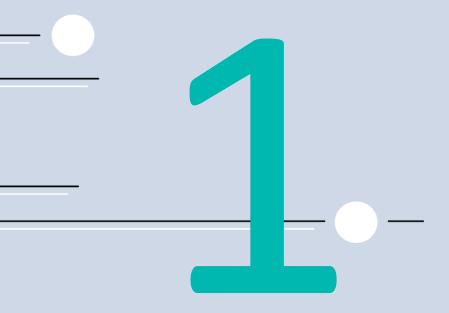


Based on facility operations (E1-9) and facility management (M1-4) criteria scores, a composite score is formed. It is the ultimate assessment of vaccine management at a facility.





# Where do these scores come from?



### iSC Requirements



## The standard set by EVM is defined by requirements

Requirements set the minimum standard of performance for every system and component of the iSC.

300+

requirements

500+

sub-requirements

## Requirements are applicable based on the facility level

Not all requirements apply to all facility levels (PR, SN, LD, SP).

#### R0001

The facility has functional means of communication.

PR

SN

L

D



#### **R0015**

There is a secure perimeter fence or wall around the compound.

PR

SN

LC





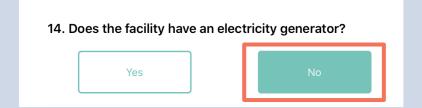




## Requirements are applicable based on questionnaire answers

Requirements are also applicable or not depending on answers to previous questions in the questionnaire.

For example, if I answer No to the question asking if the facility has an electricity generator, then all the requirements relating to generators will become inapplicable.



**R0066:** The facility has a suitable standby generator.

**R0067**: The generator can run all of the facility's refrigeration equipment.

**R0068**: There is adequate fuel reserve for the generator.

**R0069**: The generator can auto-start.

**R0070**: The generator housing is secure.

**R0071**: The generator housing is well

ventilated.

### Requirement example: The storage of vaccines

To the right are 3 requirements that define standards for the means of communication during vaccine storage.

#### **Example: Means of communication**

R1 The facility has a reliable means of communication.

- **R2** The facility has a functional landline telephone.
- R1 R3 The facility has reliable mobile phone reception.
  - **R4** The facility has a reliable internet connection.

## What is the purpose of a requirement?

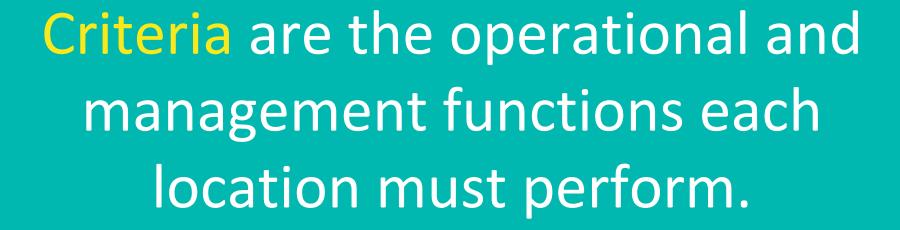
- a) To highlight an important task
- b) To set a minimum standard
- c) To create rules for facilities managers
- d) All of the above



# How are these requirements organized?



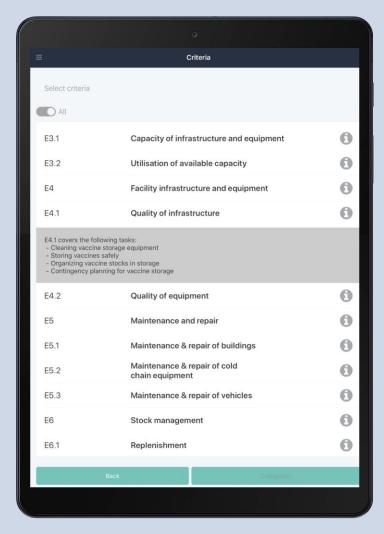
### The EVM criteria



#### EVM assesses criteria.

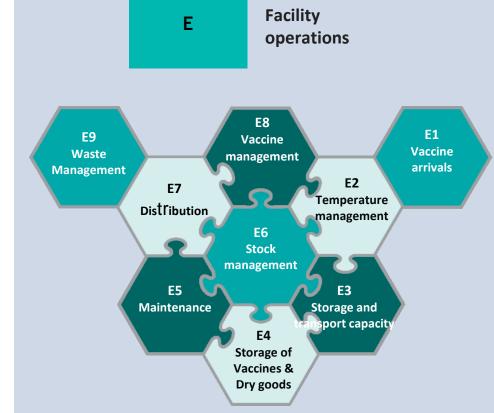
Criteria are supply chain functions standards by which the effectiveness of a facility's vaccine management are judged.

They represent the functional areas (tasks) to managing and moving vaccines through the supply chain.



## **EVM1** assessed 9 criteria

- **E1** Vaccine arrivals
- **E2** Temperature management
- E3 Storage and transport capacity
- **E4** Storage of vaccines and dry goods
- E5 Maintenance
- E6 Stock management
- E7 Distribution of vaccines and dry goods
- E8 Vaccine management
- E9 Waste management\*



E1-E9

<sup>\*</sup>added at a later date

## EVM2 assesses 19 criteria.

The added criteria provide necessary details to identify and address root problems to supply chain management.



## Facility management

These criteria are important to assess the working processes of the facility.

M

M1-M4 Facility management

M1 Annual needs forecasting

M2 Annual work planning

M3 Supportive supervision

M4 iSC performance monitoring

#### **Programme management**

These criteria are important to assess the resource management functions.

Note: these criteria are applicable at national programme level only. Not applicable at location level.

R

R1-R6 Programme management

R1 Infrastructure management

R2 Equipment management

R3 IT systems management

R4 Human resources management

R5 Knowledge management

R6 Financial resources management

## Criteria example: Measures the storage of vaccines



#### E4: Storage of vaccines and dry goods

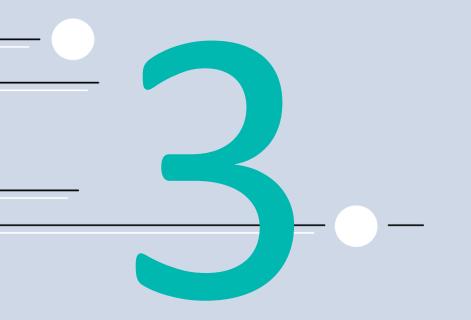
#### **E4.1:** Measure the storage of vaccines

#### This includes 4 tasks:

- 1. Clean vaccine storage equipment
- 2. Safe storage of vaccines
- 3. Organized vaccine stocks in storage
- 4. Existence of a contingency plan for vaccine storage

There are 19 criteria. Name 4.





Inputs, output & performance categories



## 3 categories determine if a requirement is met

Input: what is required

Output: what is done

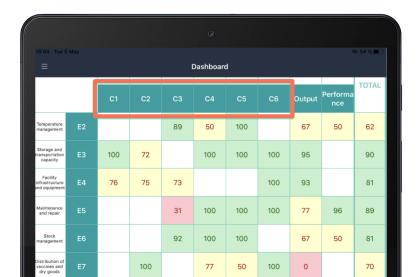
**Performance:** key outcomes of the input

and output

	C1	C2	C3	•••	OUTPUT	PERFORM	
E1				>			
E2	>	X	X	>		X	
E3		>			<b>&gt;</b>		
E4				X		<b>\</b>	
E5			>				
E6	×			>	×		
E7		>			×	>	
E8							
E9	X		>				

## **Inputs** include 6 subcategories

Inputs include 6 subcategories.



- C1 Infrastructure: Utilities and services as well as buildings and amenities
- **Equipment:** Cold chain equipment (storage and transportation) and vehicles (refrigerated, non-refrigerated)
- Information and/or technology: General IT equipment (telephone, computers, printers) and data management technologies (standard data collection forms, software, reporting forms)
- C4 **Human resources:** Staffing (availability and quality), training, knowledge and understanding
- C5 Policies and/or procedures: Evidence generation (official studies, program reviews and assessments), formal documents of policies and strategies, SOPs/guidance, contact details of service providers
- **Financial resources:** Salaries, for operations and for development activities

## Outputs provide traceability to root causes

Outputs are deliverables due from the staff in the implementation of supply chain functions - and allow assessors to trace performance issues to the root cause.

#### **Output examples:**

- Records
- Charts
- Reports

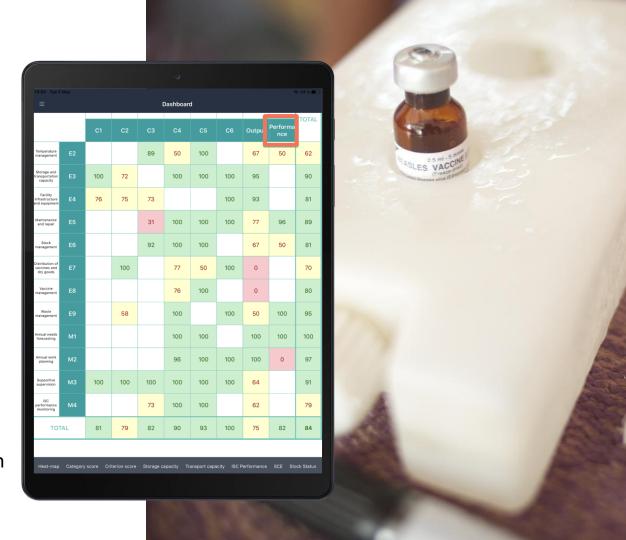


## Performance covers proper implementation

Performance covers the outcome from proper implementation of supply chain functions.

#### **Performance examples:**

- No stock out
- No close vial wastage
- Full functionality of the CCE
- No injury from immunization waste



What if, instead of vaccine management, we were talking about football?



#### Our goal

In Football

Win the world cup

In EVM

Deliver life-saving vaccines

#### How to measure if we'll achieve our goal

#### In Football: To win the world cup we need to win a match

>> criteria

Infrastructure	Equipment	Information technology	Human resources	Policies & procedures	Financial resources		
C1	C2	С3	C4	C5	C6	OUTPUTS	PERFORMANCE
Stadium, pitch, lighting, team bus	Football, kit, boots, gloves	Player details, measurement technologies, analytics software	Players, manager, physios, supporters, ballboys, groundkeepers, security	Team strategy	Salaries and expenses	# goals scored, # goals conceded, # red cards, # yellow cards, # player injuries # passes complete	Match won (goals scored > goals conceded)

#### How to measure if we'll achieve our goal

#### In EVM: To deliver life-saving vaccines we need to properly store vaccines

criteria

Infrastructure	Equipment	Information technology	Human resources	Policies & procedures	Financial resources		
C1	C2	С3	C4	C5	C6	OUTPUTS	PERFORMANCE
Lighting, Ventilation, Storage of damaged and returned vaccines, Communications	Cold storage equipment, Vehicles, Insulated containers, Other equipment	General IT equipment, Data management technology	Staff availability and quality, Training, Staff knowledge and understanding of functions such as: temperature monitoring, stock management	Evidence (studies, reviews,), Policy & strategy, SOPs, Contracts	Salaries, Funds for operations, Funds for development	Stock records are complete, accurate, well organised; Store is secure, clean, dry and pest-free	No stock-outs; All requests met in full and on time

#### **Category example:**

#### The storage of vaccines

The inputs, output and performance categories on the right measure if the criteria [storage of vaccines] meets the standard requirements.

#### **Input 1 (infrastructure)** is measured through:

- Lighting
- Ventilation
- Storage of damaged and returned vaccines
- Communications abilities

#### **Output** is measured through:

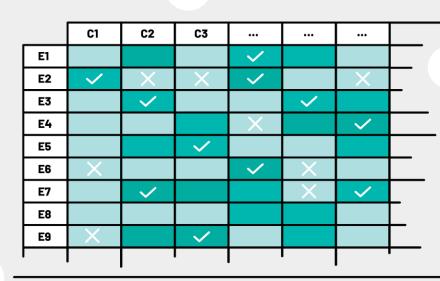
- Stock records are complete, accurate, well organised
- Vaccines and commodities are properly stored
- Stock laid out in EEFO order
- Store is secure, clean, dry and pest-free

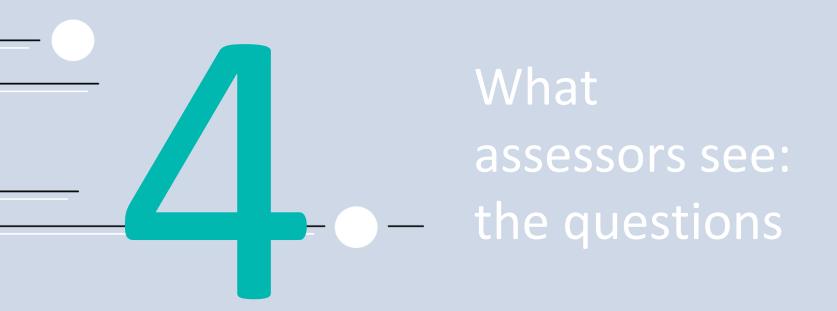
#### **Performance** is measured through:

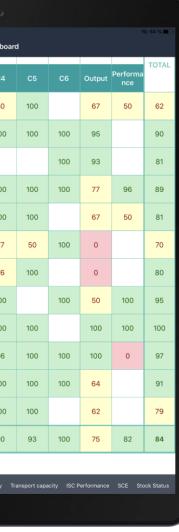
- No stock-outs
- All requests met in full and on time

There are the three different measures to criteria (categories).

What are they?

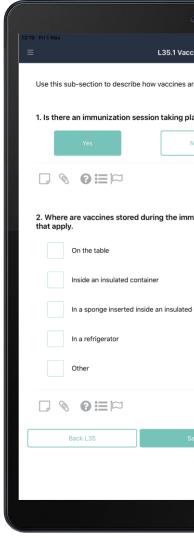






Criteria and categories are the framework to assess if a requirement has been met. Once the assessment is complete, they are the main components frame the heatmap.

But to fill out the heatmap boxes to fill out, the tool we use is the questions.







# If a requirements is not applicable there will be no question about it.

If a requirement is not applicable to the facility you are assessing no questions will be asked for it in the app.

#### R0015

There is a secure perimeter fence or wall around the compound.

PR SN LD SP

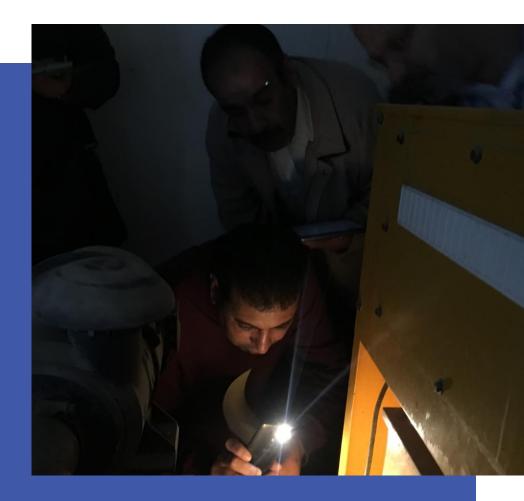
Is there a secure perimeter fence or wall around the compound?

This question will only be part of the questionnaire if it is a PR or SN.

# A question is a tool to assess whether a requirement is being met

EVM asks assessors to answer a question or questions by:

- **1. Observation** of infrastructure and records
- **2. Inspection** of infrastructure and records
- **3. Interviewing** staff



## Observe the facility and transport

For example, you will look at cold rooms and verify they are properly sealed. You will look to make sure the facility has hand washing or hand sanitizing.



## Inspect records and equipment

For example, you may review vaccination arrival forms to determine if they came on time, with proper notification and accompanying documentation.



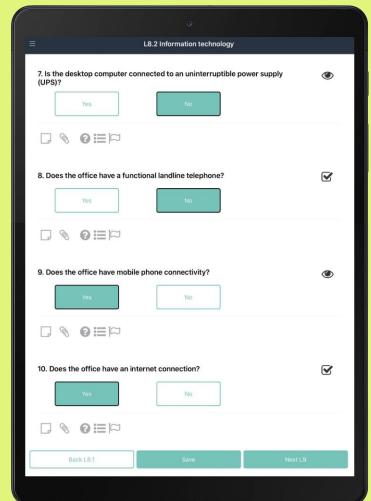
## Interview health workers and facility managers

For example, you may ask staff to describe how they know when it's time to discard the tracer vaccine.



## Question example: The storage of vaccines

Requirements to measure R1: The facility has a reliable means of communication.



## Quick quiz

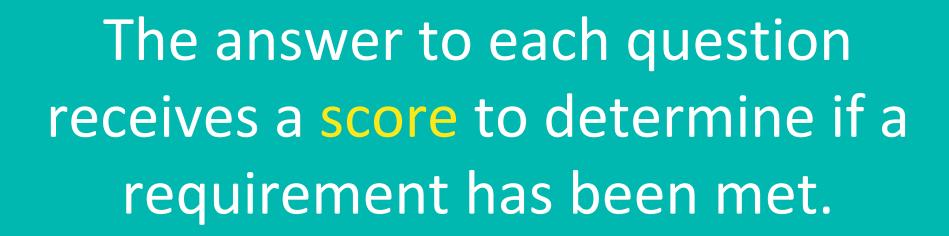
# What is the correlation between questions and requirements?

- a) 1 question for 1 requirement
- b) Observe, inspect, interview for every requirement
- c) However many questions are necessary to assess the requirement



# Assessment scoring

54	53 INTRODUCT	50 DAT	45 COLLECTION	64	58	60	61	64	58	60	61
73	74	75	76	77	78	79		77	78	79	
83		87	77		89	92					
77	48		87	77	80	89		77			
75	76	77	75	84	78	86		84	78		
56	76	46		87	77			87	77		
88	87	77		89	64	79			64	79	
87	77			64	77			64	77		
89		87	77	80	77	80		80	77	80	
75	76	77	O <sub>M</sub>		78	ve	7K	PIL	78		
54	53	50	4 1		58 V	VE		. 34	58		
89		87	77	80	77	80	89	80	77		
77	48		87	77		89	68	77			
54	53	50	45	64	58	60	61	64	58		
73	74	75	76	77		COI		77	78	79	
83		87	77	0	8,5					92	
77	48		87	77	80			77			
75	76	77	75	84	78			84	78		
56	76	46		87	77			87	77		
88	87	77			64	79			64	79	
87	77			64	77			64	77		
89		87	77		77	80			77	80	
75	76	77	75	84	78			84	78		
54	53	50	45	64	58			64	58		49
89	88	87	77	80	77	80	89	80	77	80	89



## The heatmap displays a multilayer aggregation.

Each answer helps determine if a requirement is being met.

Each requirement is weighted (1 or 5) depending the supply chain level then tallied into the overall score.



### **Scoring**

## Scoring example: The storage of vaccines

Requirement to measure (#2 of 3): The facility has a functional landline telephone.



The facility has a functional landline telephone..

The facility does not have a functional landline telephone.

# BUT... not every requirement is created equally

## Not all requirement scores have the same weight.

Requirements that are more important are **weighted 5**, whereas less crucial requirements (nice-to-haves) are **weighted 1**.

**R2** The facility has a functional landline telephone.

1

mobile phone reception.

5

R4 The facility has a reliable internet connection.

1

### **Overall health**

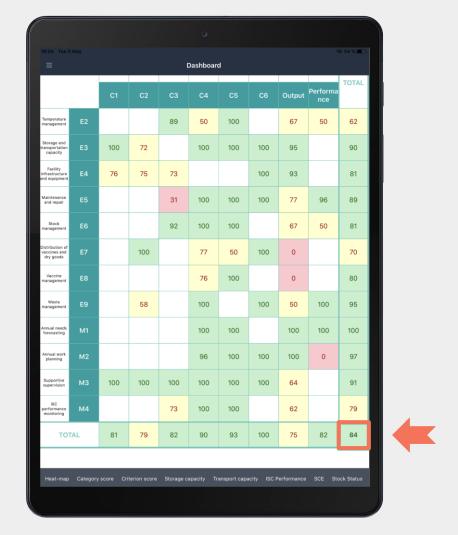
The total column represents the health of each criteria and reveals the integrity of the systems and quality of the actions required for effective vaccine management.

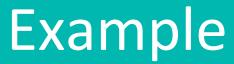


### **Composite score**

The composite score is the ultimate assessment of strength for the iSC.

This indicator is the simplest reflection of a location or assessment performance.





## Let's go back to that **football** example



## If each statement represents a requirement, what would the overall score be?

### In Football: To win the world cup we need to win a match

Infrastructure	Equipment	Information technology	Human resources	Policies & procedures	Financial resources		
C1	C2	С3	C4	<b>C</b> 5	C6	OUTPUTS	PERFORMANCE
Lighting goes out during storms	Football with 15.6 psi air pressure	Historical record of shots created and quality of shots taken	Groundskeepers on strike	Playbook	Salaries paid on time	2 goals scored, 1 goal conceded, 1 red card, 0 player injuries	Match won

Overall score?

## If each statement represents a requirement, what would the overall score be?

### In Football: To win the world cup we need to win a match

Infrastructure	Equipment	Information technology	Human resources	Policies & procedures	Financial resources		
C1	C2	С3	C4	<b>C</b> 5	C6	OUTPUTS	PERFORMANCE
Lighting goes out during storms	Football with 15.6 psi air pressure	Historical record of shots created and quality of shots taken	Groundskeepers on strike	Playbook	Salaries paid on time	2 goals scored, 1 goal conceded, 1 red card, 0 player injuries	Match won

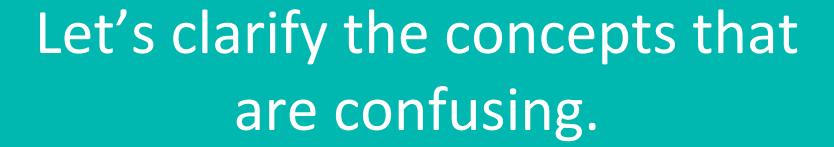
%

6 of 8

### **Share & Discuss**

- On a yellow post it write 1 concept that you are confident about.
- 2. On a pink post it write 1 concept that you find confusing.





### Congratulations on completing module 3!

You are now ready to get started with the app.