|  |  |
| --- | --- |
| Mosaic FrameworkImplementation Report Template | **INSTRUCTIONS**This template may be used by Mosaic workshop organizers and facilitators to produce the workshop report. It contains both standard language, as well as space for text to be written by workshop organizers (in yellow highlight) according to the outputs from their workshops.Broadly, this template includes the summary and domain-specific mosaics developed throughout the workshop process using the Mosaic Design Tool, descriptions of country surveillance approaches applicable to each domain objective, and the “Needs and Actions” tables completed after each domain discussion, which can be directly copied and pasted from the workshop PowerPoints. A table of needs and actions for “Cross-cutting Enablers” is also included, should workshop organizers wish to separate these needs and actions from the domain-specific tables. All of these tables can also be used to track progress on implementation of actions after Mosaic workshops.While this is a suggested template and format, workshop organizers should edit the content and appearance of this resource as desired to fit country and stakeholder needs. |

**MOSAIC FRAMEWORK IMPLEMENTATION REPORT:**

**Country**

**[Country flag (insert picture)]**

**DD/MM/YYYY**

**City**

**[Insert country final summary mosaic from *Mosaic Design Tool*]**

**[country workshop photo(s)]**

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# BACKGROUND

It is impossible to address the many complex needs of respiratory virus surveillance with a single system. Therefore, multiple surveillance systems and complementary studies must fit together as tiles in a “mosaic” to provide a complete picture of the risk, transmission, severity, and impact of respiratory viruses of epidemic and pandemic potential. The Mosaic framework assists national authorities in identifying priority respiratory virus surveillance objectives and the best approaches to meet them, developing implementation plans according to national context and resources, and prioritizing and targeting technical assistance and financial investments to meet the most pressing needs.

Country X human and animal respiratory virus surveillance systems are coordinated through national organizations, including the [list relevant Ministries / Institutes / key stakeholders].

During this X-day facilitated workshop, leadership and stakeholders involved in respiratory virus surveillance and response in Country X met to discuss current surveillance approaches, align them with priority surveillance objectives, and identify needs requiring follow-up actions to strengthen the national respiratory virus surveillance mosaic. Current surveillance approaches in Country X were mapped to the recommended approaches for each WHO Mosaic Respiratory Surveillance Framework objective. Facilitated discussions, using scenarios, explored how current surveillance approaches address the objectives of each Mosaic Domain: **I) Detection and assessment of an emerging or re-emerging respiratory virus, II) Monitoring epidemiologic, virological and clinical characteristics of respiratory viruses in interpandemic periods, and III) Informing the use of human health interventions**.

Domain-specific surveillance mosaics were finalized during the workshop, which are discussed in detail below. Workshop scenarios addressed specific surveillance needs and the structural factors enabling surveillance. On the final day, the complete national respiratory surveillance mosaic was discussed with the accompanying priority needs and associated actions, as determined by participants. For Domains I and II, each need and associated action was assigned two ratings: a priority rating (1=higher, 2=medium, 3=lower) and a timeline rating (1=short-term, 2=medium-term, 3=long-term. These ratings reflect the participants’ perception of the relative importance of the needs and the expected timeframe for addressing them (see Tables 1 and 2 below).

## Workshop Objectives

*Objectives*

1. Identify priority unmet surveillance objectives in Country X and the systems that may be used to meet those objectives in a resilient manner over time.
2. Prioritise surveillance needs and actions, drawing on lessons from the COVID-19 pandemic with Country X partners.
3. Strengthen synergies between surveillance systems in Country X to meet different objectives and enhance response.
4. Prioritize local and international partner technical assistance and financial investments for implementation planning.

## Acronyms

# DOMAIN I: Detection and assessment of an emerging or re-emerging respiratory virus

Domain I objectives include:

1. *rapidly detect emerging or re-emerging respiratory pathogen outbreaks and other events;*
2. *assess transmissibility, risk factors for transmission, and the extent of infection from an emerging or re-emerging respiratory virus; and*
3. *describe the clinical presentation and risk factors for severe outcomes associated with an emerging or re-emerging respiratory virus*.

This domain focuses on viruses that have emerged in human populations but are not yet widely in circulation and the early warning approaches used to detect and assess them. These approaches may also apply to additional emerging pathogens.

**Objective 1) rapidly detect emerging or re-emerging respiratory virus outbreaks and other events**

*[Add 1-3 paragraphs summarising each approach included in Objective 1. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

**Objective 2) assess transmissibility, risk factors for transmission, the extent of infection & Objective 3) describe clinical presentation and risk factors for severe outcomes associated with an emerging or re-emerging respiratory virus**

*[Add 1-3 paragraphs summarising each approach included in Objectives 2 & 3. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

The Domain I mosaic below was developed based on the pre-workshop mapping of surveillance approaches and scenario-based discussions during the workshop.

## Domain I: National respiratory surveillance mosaic

*Figure 1. Country X Domain I Mosaic completed during the workshop using the* ***Mosaic Design Tool***

*[Insert screenshot of Domain I Mosaic from PowerPoint tool]*

## Table 1: Domain I needs and actions identified during the workshop

|  |  |  |  |
| --- | --- | --- | --- |
| **Identified Need**  | **Action and Responsible Lead**  | **Priority (1: higher 2: medium 3: lower)** | **Timeline (1: short, 2: medium 3: long)** |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |

# DOMAIN II: Monitoring epidemiological, virological and clinical characteristics of respiratory viruses in interpandemic periods

Domain II focuses on monitoring illness and respiratory viruses currently in circulation in the population. The objectives are:

1. *to monitor epidemiologic and clinical characteristics of illness over time;*
2. *to monitor virologic and genetic characteristics of circulating viruses;*
3. *to monitor situation in high-risk groups and vulnerable populations; and*
4. *to monitor impact on and coping abilities of health care systems*.

**Objective 1) monitor epidemiologic and clinical characteristics of illness over time**

*[Add 1-3 paragraphs summarising each approach included in Objective 1. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

**Objective 2) monitor virologic and genetic characteristics of circulating viruses**

*[Add 1-3 paragraphs summarising each approach included in Objective 2. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

**Objective 3) monitor situation in high-risk groups and vulnerable populations**

*[Add 1-3 paragraphs summarising each approach included in Objective 3. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

**Objective 4) monitor impact on and coping abilities of health care systems**

*[Add 1-3 paragraphs summarising each approach included in Objective 4. Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified during the workshop.]*

The Domain II mosaic below was developed based on the pre-workshop mapping of surveillance approaches and scenario-based discussions during the workshop.

## Domain II: National respiratory surveillance mosaic

*Figure 2. Country X Domain II Mosaic completed during the workshop using the* ***Mosaic Design Tool***

*[Insert screenshot of Domain II Mosaic from PowerPoint tool]*

## Table 2: Domain II needs and actions identified during the workshop

|  |  |  |  |
| --- | --- | --- | --- |
| **Identified Need**  | **Action and Responsible Lead**  | **Priority (1: higher 2: medium 3: lower)** | **Timeline (1: short, 2: medium 3: long)** |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |
|  | Action:Responsible Lead: |  |  |

# DOMAIN III: Informing the use of human health interventions

*[Add 1-2 paragraphs summarising the approaches included under each of the priority objectives selected for discussion during the workshop, including which objectives require the use of national data.* *Include accomplishments and positive elements of surveillance, as well as a summary of the key gaps identified.]*

The Domain III mosaic below was developed based on the pre-workshop mapping of surveillance approaches and scenario-based discussions during the workshop.

## Domain III: National respiratory surveillance mosaic

*Figure 3. Country X Domain III Mosaic completed during the workshop using the* ***Mosaic Design Tool***

*[Insert screenshot of Domain II Mosaic from PowerPoint tool]*

*Table 3: Domain III needs and actions identified during the workshop*

|  |  |
| --- | --- |
| **National Data Needed?** |  **Relevant National, Regional, or Global Data Sources & Stakeholders** |
| **Objective 1: Monitor the impact of non-medical interventions in the population** |
| Yes / No |  |
| **Objective 2: Provide candidate vaccine viruses for vaccine composition, production, and risk assessment** |
| Yes / No |  |
| **Objective 3: Monitor vaccine coverage, effectiveness, impact, and cost-effectiveness** |
| Yes / No |  |
| **Objective 4: Monitor the effectiveness of antivirals and other therapeutics, including antiviral resistance** |
| Yes / No |  |
| **Objective 5: Monitor the effectiveness of diagnostic tests** |
| Yes / No |  |
| **Objective 6: Monitor the effectiveness of clinical care pathways, including Infection, Prevention and Control (IPC)** |
| Yes / No |  |
| **Objective 7: Monitor adverse events to vaccines and therapeutics** |
| Yes / No |  |

# CROSS-CUTTING ENABLERS APPLICABLE TO ALL DOMAINS

There are several enabling factors for the implementation of resilient and sustainable surveillance that should be present in all countries. These include, but are not limited to, workforce and training, strong governance and leadership, integration of data standards and appropriate innovations, sustainable financing, and multisectoral coordination. During the discussions, participants identified several enabling factors which apply to more than one surveillance domain. The priority needs and corresponding actions for these enabling factors are summarised in the text and table below.

*[Add 1-3 paragraphs summarising any enabling factors that were identified as relevant during workshop discussions.]*

*Table 4: Cross-cutting enabler needs and actions identified during the workshop*

|  |  |  |  |
| --- | --- | --- | --- |
| **Identified Need**  | **Action and Responsible Lead**  | **Priority (1: higher 2: medium 3: lower)** | **Timeline (1: short, 2: medium 3: long)** |
| **Workforce (staffing/training)**  |  |
|  | Action:Responsible Lead: |  |  |
| **Governance**  |  |
|  | Action:Responsible Lead: |  |  |
| **Data Innovation and Technology**   |  |
|  | Action:Responsible Lead: |  |  |
| **Financing** |
|  | Action:Responsible Lead: |  |  |
| **Multisectoral Coordination**   |  |
|  | Action:Responsible Lead: |  |  |
| **[add other as needed]** |  |  |  |
|  | Action:Responsible Lead: |  |  |

# WORKPLAN AND NEXT STEPS

Below is a high-level timeline of the post-workshop deliverables.

*[Insert table below from the* ***Mosaic Workshop Final Presentation to Leadership*** *presented on the last day of the workshop]*

|  |  |
| --- | --- |
| ***TIMELINE*** | ***DELIVERABLES*** |
| *TODAY* | *Drafted "needs and actions” and completed mosaics* |
| *4 WEEKS* | *Workshop report drafted by organizers and facilitators* |
| *8 WEEKS* | * *Country finalizes workshop report*
* *Country shares final workshop report with relevant stakeholders and leadership*
 |
| *2+ MONTHS* | * *Country incorporates actions into existing workplans, assigns tasks to country and partner stakeholders*
 |

# ANNEXES

## Annex 1: Workshop Agenda

*[Insert final Mosaic workshop agenda]*

## Annex 2: Workshop Participants & Facilitators

*Participants [list Ministries/organizations and key roles present, not names]*

|  |
| --- |
| **Organization 1** |
| **Organization 2** |
| **Organization 3** |
| **Organization 4** |
| * Role 1
* Role 2
* Role 3
 |
| **Organization 5** |
| * Role 1
* Role 2
* Role 3
 |
| **External Partners** |
|  |
| **WHO Country Office – Country X**  |
| **WHO – Regional Office** |

*This national mosaic workshop was facilitated by representatives from the following organizations:*

|  |
| --- |
|  |
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