



# COMMISSION ON PHYTOSANITARY MEASURES

## Fifteenth Session

**Virtual Meeting, 16, 18 March and 1 April 2021**

**Endorsement of updated Framework for standards and implementation**

**Agenda item 8.4**

**Prepared by the IPPC Secretariat**

## I. Background

1. The CPM-11 (2016) agreed that the Framework for Standards and Implementation is updated and maintained by the IPPC Secretariat, with responsibility for review and amendment resting jointly with the Standards Committee (SC) and Implementation and Capacity Development Committee (IC) and reviewed by the Strategic Planning Group (SPG). It was also agreed that the updated framework is presented annually to the CPM for endorsement.

2. In 2017, the SPG suggested that the structure of the document still needed some improvements. The SC and IC nominated Framework champions, who were tasked with reviewing the current framework and revising its structure in order to improve its readability and usability.

3. The SC and IC discussed the new format and updates to the content of the Framework for Standards and Implementation in alignment with the draft IPPC Strategic Framework 2020-2030 in the May 2019 meetings. The SC and IC approved the Framework for Standards and Implementation and recommended to the SPG.

4. The Framework for Standards and Implementation was reviewed by the SPG 2019 and recommended to the CPM-15 (2021) for endorsement.

5. The CPM is invited to:

- 1) *Endorse* the proposed revision of the Framework for Standards and Implementation as presented as presented in Annex 1 of this paper.
- 2) *Request* the Secretariat to update content and reflect the CPM-15 (2021) decisions in the Framework for Standards and Implementation.

- 3) *Agree* that the most current version of the Framework for Standards and Implementation updated by the SC, IC and SPG will be maintained and fully accessible on the IPP.

## Annex 1: Framework for Standards and Implementation, updated by SC May 2019 and IC May 2019, reviewed by SPG 2019

### 1. What is the Framework for Standards and Implementation?

The Framework for Standards and Implementation is a database of existing or proposed standards and tools for implementation aligning with the IPPC Strategic Framework for 2020-2030 (draft) in order to enable the identification of gaps as guidance for the development of standards and implementation materials to support implementation of the Convention, standards and CPM recommendations.

### 2. Objective of this document

The Framework provides transparency of existing or proposed standards and tools for implementation and helps identify gaps capturing the CPM priorities in order to guide inclusion of submitted topics into the list of topics for IPPC standards or Implementation and Capacity Development topics.

### 3. Legend:

Strategic Objective (A, B or C), Key Result Area (A1-A6, B1-B5 or C1-C7)/Development Agenda (1-8) of IPPC Strategic Framework 2020-2030 (draft)<sup>1</sup>

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Adopted standards</i><sup>2</sup></li> <li>• <i>CPM Recommendations</i><sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory documents for ISPMs</i><sup>4</sup></li> <li>• <i>IPPC Guides and training materials</i><sup>5</sup></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Topics/subjects on the List of Topics for IPPC Standards<sup>6</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Topics on the List of Implementation and Capacity Development topics<sup>7</sup></li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Standards topics/subjects that need to be addressed</li> </ul>	<ul style="list-style-type: none"> <li>• Implementation topics that need to be addressed</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS studies<sup>8</sup></li> <li>• IRSS topics<sup>9</sup></li> <li>• Other relevant information</li> </ul>	

<sup>1</sup> IPPC Strategic Framework 2020-2030 (draft): <https://www.ipcc.int/en/publications/87741/>

<sup>2</sup> Adopted standards: <https://www.ipcc.int/en/core-activities/standards-setting/ispms/>

<sup>3</sup> CPM Recommendations: <https://www.ipcc.int/en/core-activities/governance/cpm/cpm-recommendations-1/cpm-recommendations/>

<sup>4</sup> Explanatory documents for ISPMs: <https://www.ipcc.int/en/core-activities/standards-setting/explanatory-documents-international-standards-phytosanitary-measures/>

<sup>5</sup> IPPC Guides and training materials: <https://www.ipcc.int/en/core-activities/capacity-development/guides-and-training-materials/>

<sup>6</sup> List of Topics for IPPC Standards: <https://www.ipcc.int/en/core-activities/standards-setting/list-topics-ipcc-standards/>

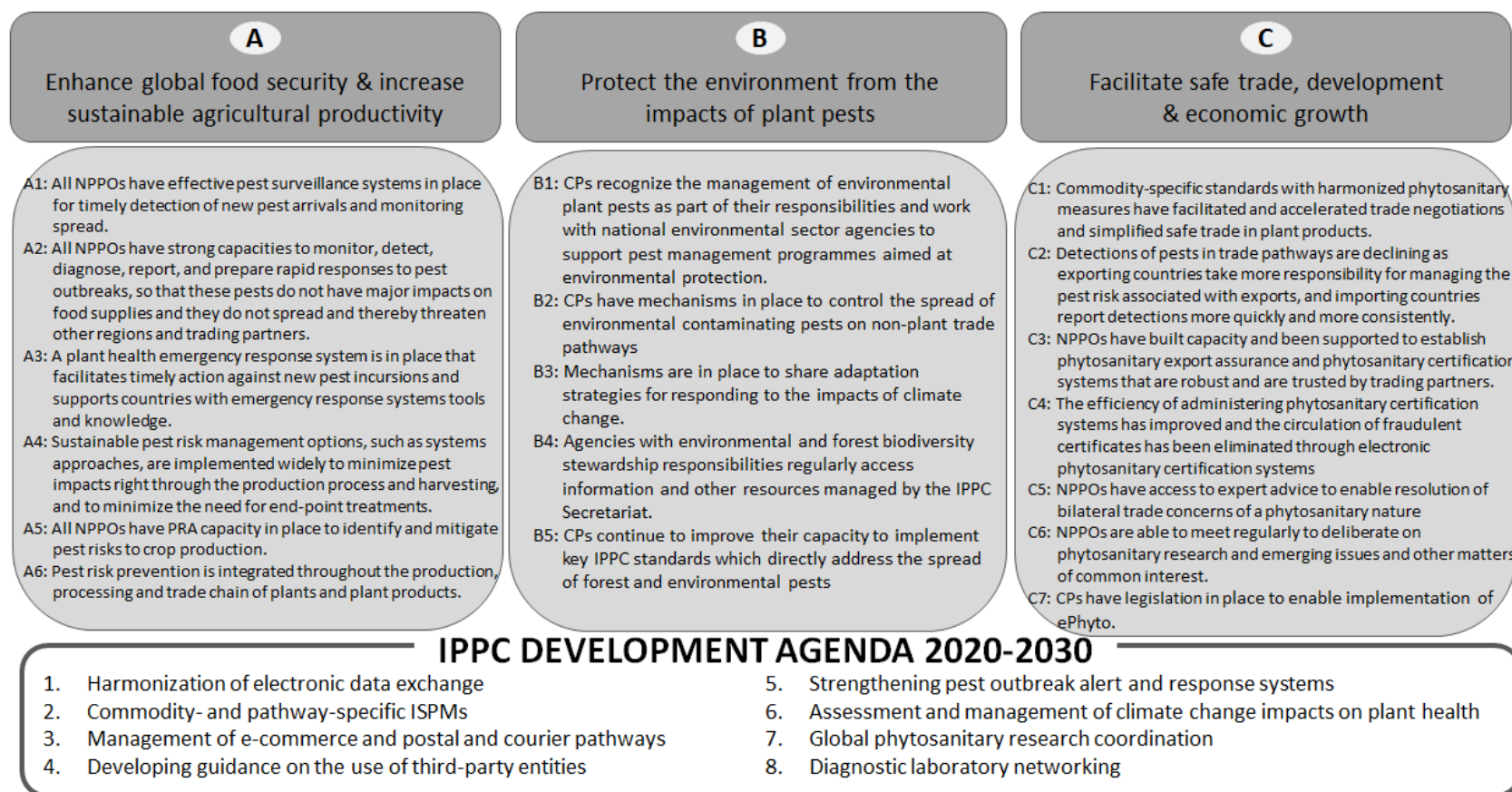
<sup>7</sup> List of Implementation and Capacity Development topics: <https://www.ipcc.int/en/publications/86844/>

<sup>8</sup> IRSS studies: <https://www.ipcc.int/en/irss/activities/>

<sup>9</sup> IRSS topics: <https://www.ipcc.int/en/publications/87720/>

**4. Notes:**

- List of Topics include topics/subjects on the List of Topics for IPPC Standards/ List of Implementation and Capacity Development topics. All topics/subjects on those two lists are covered with their CPM approved priorities.
- Gaps identified include topics/subjects that need to be addressed.
- As 2030 Key result areas and Development Agendas of IPPC Strategic Framework 2020-2030 (draft) may relate to a wide range of materials, materials that only principally relate to those themes are indicated in this Framework.

**5. IPPC Strategic Framework 2020-2030 (draft) Strategic objectives, key result areas and development agenda:****STRATEGIC OBJECTIVES AND KEY RESULT AREAS**

**A1****Strategic objective A: Enhance Global Food Security and Increase Sustainable Agricultural Productivity****Key result area A1: All NPPOs have effective pest surveillance systems in place for timely detection of new pest arrivals and monitoring spread**

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Requirements for the establishment of pest free areas (ISPM 4)</i></li> <li>• <i>Surveillance (ISPM 6)</i></li> <li>• <i>Determination of pest status in an area (ISPM 8)</i></li> <li>• <i>Requirements for the establishment of pest free places of production and pest free production sites (ISPM 10)</i></li> <li>• <i>Requirements for the establishment of areas of low pest prevalence (ISPM 22)</i></li> <li>• <i>Establishment of pest free areas for fruit flies (Tephritidae) (ISPM 26)</i></li> <li>• <i>Recognition of pest free areas and areas of low pest prevalence (ISPM 29)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Plant Pest Surveillance</i></li> <li>• <i>Guide, Pest Free Area</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Revision of ISPM 8 Determination of pest status in an area (2009-005, Priority 1)</li> <li>• Revision of ISPM 4 Requirements for the establishment of pest free areas (2009-002, Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Symposium on Pest Free Areas and Surveillance (2017-053, Priority 1)</li> <li>• Guidelines for surveillance of <i>Xylella fastidiosa</i> (2018-037, Priority 1)</li> <li>• Pest Free Areas (PFA), eLearning (2017-044, Priority 2)</li> <li>• Pest Status, Guide (2017-048, Priority 2)</li> <li>• Fruit fly phytosanitary procedures, Guide (2017-040, Priority 3)</li> <li>• Fruit fly standards, Guide on suite of standards (2017-041, Priority 3)</li> <li>• Fruit fly standards, Infographic (FAO/IAEA) (2017-042, Priority 3)</li> <li>• Plant Pest Surveillance Guide Revision (2017-049, Priority 3)</li> <li>• Implementation of official control (ISPM 5; Supplement 1) and pest free areas (ISPM 4) (2018-007, Priority 3)</li> <li>• Smart phone application to monitor <i>Xylella fastidiosa</i> for all relevant stakeholders and a mapping system to follow up on its global distribution (2018-023, Priority 4)</li> <li>• Plant Health Surveillance portal (2015-015, Pending)</li> <li>• Surveillance, case study on fruit flies (2016-017, Pending)</li> <li>• Surveillance, case study on invasive ants (2016-018, Pending)</li> <li>• Surveillance, case study on <i>Xylella fastidiosa</i> (2016-019, Pending)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Specific guidance on surveillance for a pest or a group of pests (Priority 3)<sup>10</sup></li> <li>• Specific guidance on PFA, PFPP and ALPP for a pest or a group of pests (Priority 4)<sup>11</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Specific guidance on surveillance for a pest or a group of pests</li> <li>• Specific guidance on PFA, PFPP and ALPP for a pest or a group of pests</li> </ul>
Supporting documents		

<sup>10</sup> Standard and Implementation material for this topic could be developed potentially simultaneously.

<sup>11</sup> Standard and Implementation material for this topic could be developed potentially simultaneously.

**A2****Strategic objective A: Enhance global food security and increase sustainable agricultural productivity****Key result area A2:** All NPPOs have strong capacities to monitor, detect, diagnose, report, and prepare rapid responses to pest outbreaks, so that these pests do not have major impacts on food supplies and they do not spread and thereby threaten other regions and trading partners.**Development agenda 8:** *Diagnostic laboratory networking*

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>Surveillance (ISPM 6 Surveillance)</i></li> <li>• <i>Determination of pest status in an area (ISPM 8)</i></li> <li>• <i>Pest Reporting (ISPM 17)</i></li> <li>• <i>Guidelines on lists of regulated pests (ISPM 19)</i></li> <li>• <i>Guidelines for Inspection (ISPM 23)</i></li> <li>• <i>Diagnostic protocols for regulated pests (ISPM 27), including 29 Annexes/DPs</i></li> <li>• <i>Methodologies for sampling of consignments (ISPM 31)</i></li> <li>• <i>Design and operation of post-entry quarantine stations for plants (ISPM 34)</i></li> <li>• <i>CPM Recommendation: The importance of pest diagnosis (R-07)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory document ISPM 17 (Pest reporting)</i></li> <li>• <i>Guide, Plant Pest Surveillance</i></li> <li>• <i>Guide to delivering phytosanitary diagnostic services</i></li> <li>• <i>Guide to National Reporting Obligations</i></li> <li>• <i>NRO training materials<sup>12</sup></i></li> <li>• <i>NRO e-learning</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Revision of ISPM 8 Determination of pest status in an area (2009-005, Priority 1)</li> <li>• 18 Diagnostic Protocols on LoT as of 05/2019</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Pest Surveillance, Guide Revision (2017-049, Priority 1)</li> <li>• Pest Status, Guide (2017-048, Priority 2)</li> <li>• Guidelines for designing of plant quarantine laboratories (2018-013, Priority4)</li> <li>• Pest diagnostic (2016-015, Priority 4)</li> <li>• Strengthening Pest Outbreak Alert and Response Systems (2017-051, Pending)</li> <li>• One Belt One Road, High level symposium (2016-020, Pending)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Revision: Pest reporting (ISPM 17) (Priority 2)</li> <li>• Revision: Guidelines on lists of regulated pests (ISPM 19) (Priority 2)</li> <li>• Requirements for diagnostics (Priority 2)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• National Reporting obligations (NRO) on IPP<sup>13</sup></li> </ul>	

<sup>12</sup> <https://www.ippc.int/en/core-activities/information-exchange/nro-and-ipp-training/>

<sup>13</sup> <https://www.ippc.int/en/core-activities/information-exchange/nro/>

**A3**

**Strategic objective A: Enhance global food security and increase sustainable agricultural productivity**

**Key result area A3:** A plant health emergency response system is in place that facilitates timely action against new pest incursions and supports countries with emergency response systems tools and knowledge.

**Development agenda 5:** *Strengthening pest outbreak alert and response systems*

	<b>Standards</b>	<b>Implementation</b>
Developed materials	<ul style="list-style-type: none"> <li>• <i>Guidelines for the notification of non-compliance and emergency action (ISPM 13)</i></li> <li>• <i>Pest Reporting (ISPM 17)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory document ISPM 17 (Pest reporting)</i></li> <li>• <i>Guide on managing relationships with stakeholders</i></li> <li>• <i>Guide to National Reporting Obligation</i></li> <li>• <i>Guide on Pest Risk Communication</i></li> <li>• <i>NRO training materials<sup>14</sup></i></li> <li>• <i>NRO e-learning</i></li> </ul>
List of topics		<ul style="list-style-type: none"> <li>• Strengthening Pest Outbreak Alert and Response Systems (2017-051, Pending)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Contingency planning and emergency response (Priority 1)</li> </ul>	<ul style="list-style-type: none"> <li>• Guide to contingency planning and emergency response</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• National Reporting obligations (NRO) on IPP<sup>15</sup></li> </ul>	

<sup>14</sup> <https://www.ippc.int/en/core-activities/information-exchange/nro-and-ipp-training/>

<sup>15</sup> <https://www.ippc.int/en/core-activities/information-exchange/nro/>

**A4****Strategic objective A: Enhance global food security and increase sustainable agricultural productivity**

**Key result area A4:** Sustainable pest risk management options, such as systems approaches, are implemented widely to minimize pest impacts right through the production process and harvesting, and to minimize the need for end-point treatments.

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>The use of integrated measures in a systems approach for pest risk management (ISPM 14)</i></li> <li>• <i>Guidelines for the determination and recognition of equivalence of phytosanitary measures (ISPM 24)</i></li> <li>• <i>Design and operation of post-entry quarantine stations for plants (ISPM 34)</i></li> <li>• <i>Systems approach for pest risk management of fruit flies (Tephritidae) (ISPM 35)</i></li> </ul>	
List of topics	<ul style="list-style-type: none"> <li>• ISPM 38- International movement of seeds: Annex 1 - Design and use of systems approaches for phytosanitary certification of seeds (2018-009, Priority 1)</li> <li>• Pest risk management for quarantine pests (2014-001, Priority 2)</li> <li>• Use of systems approaches in managing risks associated with the movement of wood (2015-004, Priority 3)</li> <li>• Efficacy of measures (2001-001, Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Guidelines for inspection of consignments for <i>Xylella fastidiosa</i> at points of entry, Guide (2018-038)</li> <li>• Pest Risk Management, Guide (2017-047, Priority 2)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Specific guidance on pest risk management for pests or a group of pests (Priority 3)</li> <li>• Clarification on the concepts of integrated measures and systems approach (Priority 4)</li> <li>• Specific guidance on systems approaches for commodities or pests (Priority 4)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study - Review of the application of equivalence between phytosanitary measures used to manage pest risk in trade</li> <li>• Beyond the compliance tool (was developed by the ICL and will be improved Beyond compliance project) <sup>16</sup></li> </ul>	

<sup>16</sup> <https://www.ippc.int/en/core-activities/capacity-development/beyond-compliance-project/>



**A5****Strategic objective A: Enhance global food security and increase sustainable agricultural productivity**

**Key result area A5:** All NPPOs have pest risk analysis capacity in place to identify and mitigate pest risks to crop production.

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>Framework for pest risk analysis (ISPM 2)</i></li> <li>• <i>Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms (ISPM 3)</i></li> <li>• <i>Pest risk analysis for quarantine pests (ISPM 11)</i></li> <li>• <i>Regulated non-quarantine pests: concept and application (ISPM 16)</i></li> <li>• <i>Pest risk analysis for regulated non-quarantine pests (ISPM 21)</i></li> <li>• <i>Categorization of commodities according to their pest risk (ISPM 32)</i></li> <li>• <i>Determination of host status of fruit to fruit fly (ISPM 37)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>e-learning on PRA</i></li> <li>• <i>Training materials on PRA</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Pest risk management for quarantine pests (2014-001, Priority 2)</li> <li>• Criteria for the determination of host status for fruit flies based on available information (Annex to ISPM 37) (2018-011, Priority3)</li> <li>• Supplement on Guidance on the concept of probability of transfer to a suitable host and establishment as used in a pest risk analysis for quarantine pests to ISPM 11 (2015-010, Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Guidance on assessing the risk of introduction of pests with seeds (2018-036) (Priority1)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Economic analysis in PRA (Priority 2)</li> <li>• Host and non-host status (Priority 3)</li> <li>• Specific guidance on pest risk management for pests or a group of pests (Priority 3)</li> <li>• Risk communication (Priority 3)</li> <li>• Revision and combination of PRA standards (including ISPM 2, 11 and 21) (priority 4)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS Study: Diversion from Intended Use: Consideration of the extent of the issue</li> <li>• External cooperation Convention on Biological Diversity (CBD)<sup>17</sup></li> </ul>	

<sup>17</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/cbd/>

**A6****Strategic objective A: Enhance global food security and increase sustainable agricultural productivity****Key result area A6:** Pest risk prevention is integrated throughout the production, processing and trade chain of plants and plant products.

	<b>Standards</b>	<b>Implementation</b>
Developed materials	<ul style="list-style-type: none"> <li>• <i>Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms (ISPM 3)</i></li> <li>• <i>Phytosanitary certification system (ISPM 7)</i></li> <li>• <i>Phytosanitary certificates (ISPM 12)</i></li> <li>• <i>Guidelines for a phytosanitary import regulation system (ISPM 20)</i></li> <li>• <i>Guideline for inspection (ISPM 23)</i></li> <li>• <i>Consignments in transit (ISPM 25)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Transit</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Safe Import of Food and Other Aid (Draft CPM Recommendation) (2018-026, Priority1)</li> </ul>	<ul style="list-style-type: none"> <li>• Developing Phytosanitary Security Procedures (2018-028, Priority1)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Risk based inspection of imported consignments (2018-022, Pending)</li> <li>• Diversion from intended use (Priority 2? to be determined) (concept standard or supplementary document)</li> <li>• Non-commodity specific phytosanitary treatments for regulated pests (e.g. soil drench, sterilization) (Annexes to ISPM 28) (Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Risk based inspection of imported consignments (2018-022, Pending)</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS Study: Diversion from Intended Use: Consideration of the extent of the issue</li> </ul>	

**B1****Strategic objective B: Protect the environment from the impacts of plant pests**

**Key result area B1:** Contracting parties recognize the management of environmental plant pests as part of their responsibilities and work with national environmental sector agencies to support pest management programmes aimed at environmental protection.

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>Guidelines on the understanding of potential economic importance and related terms including reference to environmental considerations (ISPM 5 - Supplement 2)</i></li> <li>• <i>CPM Recommendation: LMOs, biosecurity and alien invasive species (R-01)</i></li> <li>• <i>CPM Recommendation: Threats to biodiversity posed by alien species: actions within the framework of the IPPC (R-02)</i></li> <li>• <i>CPM Recommendation: Replacement or reduction of the use of methyl bromide as a phytosanitary measure (R-03)</i></li> <li>• <i>CPM Recommendation: IPPC Coverage of Aquatic Plants (R-04)</i></li> </ul>	
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study: Aquatic Plants: Their Uses and Risks - A review of the global status of aquatic plants</li> <li>• IRSS study: The Biosecurity approach: A review and evaluation of its application by FAO, internationally and in various countries</li> <li>• IRSS study: Analyzing the benefits of implementing the IPPC</li> <li>• External cooperation: Ozone Secretariat<sup>18</sup></li> <li>• External cooperation: Convention on Biological Diversity (CBD)<sup>19</sup></li> <li>• External cooperation: UN Environment<sup>20</sup></li> </ul>	

<sup>18</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/ozoneseecretariat/>

<sup>19</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/cbd>

<sup>20</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/unep/>

**B2****Strategic objective B: *Protect the environment from the impacts of plant pests***

**Key result area B2:** Contracting parties have mechanisms in place to control the spread of environmental contaminating pests on non-plant trade pathways (e.g. invasive ants on vehicles and machinery, or gypsy moth egg masses on sea containers and vessels).

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>International movement of used vehicles, machinery and equipment (ISPM 41)</i></li> <li>• <i>CPM Recommendation: Sea containers (R-06)</i></li> </ul>	
List of topics	<ul style="list-style-type: none"> <li>• Minimizing pest movement by sea containers (2008-001, Priority 1)</li> <li>• Minimizing pest movement by air containers and aircrafts (2008-002, Priority3)</li> <li>• Facilitating safe trade by reducing the incidence of contaminating pests associated with traded goods (CPM recommendation 2019-001)</li> </ul>	<ul style="list-style-type: none"> <li>• Sea containers (2016-016, Priority1)</li> <li>• Development and implementation of regulations and legislation to manage phytosanitary risks on regulated articles for NPPOs (2018-008, Priority1)</li> </ul>
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study: The Biosecurity approach: A review and evaluation of its application by FAO; Internationally and in various countries</li> <li>• External cooperation: International Maritime Organization (IMO)<sup>21</sup></li> </ul>	

<sup>21</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/imo/>

**B3**

**Strategic objective B: *Protect the environment from the impacts of plant pests***

**Key result area B3:** Mechanisms are in place to share adaptation strategies for responding to the impacts of climate change.

**Development agenda: 6.** *Assessment and management of climate change impacts on plant health*

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>CPM Recommendation: Replacement or reduction of the use of methyl bromide as a phytosanitary measure (R-03)</i></li> </ul>	
List of topics		
Gaps identified	<ul style="list-style-type: none"> <li>• Guidance on climate change (supplement to ISPM 11) (Priority 3)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• External cooperation (Ozone Secretariat)<sup>22</sup></li> </ul>	

**B4**

**Strategic objective B: *Protect the environment from the impacts of plant pests***

**Key result area B4:** Agencies with environmental and forest biodiversity stewardship responsibilities regularly access information and other resources managed by the IPPC Secretariat.

	Standards	Implementation
Developed materials		<ul style="list-style-type: none"> <li>• <i>Guide, Managing relationships with stakeholders</i></li> </ul>
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS Topic: Antimicrobial Resistance (Priority 4)</li> <li>• External cooperation: Ozone Secretariat<sup>23</sup></li> <li>• External cooperation: Convention on Biological Diversity (CBD)<sup>24</sup></li> </ul>	

<sup>22</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/ozonesecretariat/>

<sup>23</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/ozonesecretariat/>

<sup>24</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/cbd>

**B5****Strategic objective B: Protect the environment from the impacts of plant pests**

**Key result areas B5:** Contracting parties continue to improve their capacity to implement key IPPC standards which directly address the spread of forest and environmental pests, such as ISPM 15 on wood packaging materials and other such standards, to contain the global spread of pests which threaten forests, biodiversity and non-cultivated flora.

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>Pest Risk Analysis for quarantine pests (ISPM11), Annex4</i></li> <li>• <i>Regulation of wood packaging material in international trade (ISPM 15)</i></li> <li>• <i>International movement of wood (ISPM 39)</i></li> <li>• <i>PT 22: Sulphuryl fluoride fumigation treatment for insects in debarked wood</i></li> <li>• <i>PT 23: Sulphuryl fluoride fumigation treatment for nematodes and insects in debarked wood</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory document ISPM 15 (Regulation of wood packaging material in international trade)</i></li> <li>• <i>Guide to implementation of phytosanitary standard in forestry</i></li> <li>• <i>e-Learning: Trade in forest commodities and the role of phytosanitary measures</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Heat treatment of wood using dielectric heating (2007-114, Priority 1)</li> <li>• Criteria for treatments for wood packaging material in international trade (Revision of ISPM 15) (2006-010, Priority 2)</li> <li>• International movement of wood products and handicrafts made from wood (2008-008, Priority 2)</li> <li>• Use of systems approaches in managing risks associated with the movement of wood (2015-004, Priority 3)</li> </ul>	<ul style="list-style-type: none"> <li>• ISPM 15 treatment: Dielectric heat treatments, Guide (IFQRG) (2012-015, Priority1)</li> <li>• ISPM 15 treatment: Approval and monitoring of Heat treatment and dielectric heat treatment facilities, Guide (IFQRG) (2017-043, Priority1)</li> <li>• ISPM 15 implementation guidelines for non-compliance, Guide (2018-012, Priority2)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Revision of ISPM15 to include fraudulent use (Priority 2)</li> <li>• Revision: Regulated non-quarantine pests: concept and application (ISPM 16), to broaden to pests and clarify the concepts related to quarantine pests, RNQP and pests of national concern (Priority 2)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• External cooperation: Convention on Biological Diversity (CBD)<sup>25</sup></li> <li>• External cooperation: International Forest Quarantine Research Group (IFQRG)<sup>26</sup></li> </ul>	

<sup>25</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/cbd>

<sup>26</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/internationalforestryquarantineresearchgroup/>

**C1**

**Strategic objective C: Facilitate safe trade, development and economic growth**  
**Key result area C1:** Commodity-specific standards with harmonized phytosanitary measures have facilitated and accelerated trade negotiations and simplified safe trade in plant products.  
**Development agenda 2:** Commodity- and pathway-specific ISPMs **Development agenda 3:** Management of e-commerce and postal and courier pathways

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Regulation of wood packaging material in international trade (ISPM 15)</i></li> <li>• <i>Guidelines for the use of irradiation as a phytosanitary measure (ISPM 18)</i></li> <li>• <i>Phytosanitary treatments for regulated pests (ISPM 28) incl 32 Annexes (PTs)</i></li> <li>• <i>Categorization of commodities according to their pest risk (ISPM 32)</i></li> <li>• <i>Pest free potato (Solanum spp.) micropropagative material and minitubers for international trade (ISPM 33)</i></li> <li>• <i>Integrated measures plants for planting (ISPM 36)</i></li> <li>• <i>International movement of seeds (ISPM 38)</i></li> <li>• <i>International movement of wood (ISPM 39)</i></li> <li>• <i>International movement of growing media in association with plants for planting (ISPM 40)</i></li> <li>• <i>International movement of used vehicles, machinery and equipment (ISPM 41)</i></li> <li>• <i>Requirements for the use of temperature treatments as a phytosanitary measure (ISPM 42)</i></li> <li>• <i>Requirements for the use of fumigation as a phytosanitary measure (ISPM 43)</i></li> <li>• <i>CPM Recommendation: Internet trade (e-commerce) in plants and other regulated articles (R-05)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory document ISPM 15 (Regulation of wood packaging material in international trade)</i></li> <li>• <i>Explanatory document ISPM 18 (Guidelines on the use of irradiation as a phytosanitary treatment)</i></li> <li>• <i>Guide to implementation of phytosanitary standards in forestry</i></li> <li>• <i>e-Learning: Trade in forest commodities and the role of phytosanitary measures</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• 26 Phytosanitary treatments (Annexes to ISPM 28) on LoT as of 05/2019</li> <li>• International movement of grain (2008-007, Priority 1, pending)</li> <li>• Safe handling and disposal of waste with potential pest risk generated during international voyages (2008-004, Priority 2)</li> <li>• International movement of cut flowers and foliage (2008-005, Priority 4, pending)</li> <li>• Guidelines for Phytosanitary of International Mail Items (2018-014, Priority4)</li> <li>• Requirement for phytosanitary certificate on cross-border online-shopping plants, plant products and other regulated articles (2018-021, Priority4)</li> </ul>	<ul style="list-style-type: none"> <li>• ISPM 15 treatment: Dielectric heat treatments, Guide (IFQRG) (2012-015, Priority1)</li> <li>• ISPM 15 treatment: Approval and monitoring of Heat treatment and dielectric heat treatment facilities, Guide (IFQRG) (2017-043, Priority1)</li> <li>• ISPM 15 implementation guidelines for non-compliance (2018-012, Priority2)</li> <li>• Guidelines for the management of plants and plant products carried by entry passengers, Awareness materials (2018-017, Priority2)</li> <li>• e-Commerce, Guide (2017-039, Priority 3)</li> <li>• e-Commerce (2017-050, Pending)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Commodity and pathway concept standard (see CPM-14)</li> <li>• Non-commodity specific phytosanitary treatments for regulated pests (e.g. soil drench, sterilization) (Annexes to ISPM 28) (Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Guidance for fumigation treatments</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study: Internet Trade (e-Commerce) in Plants: Potential Phytosanitary Risks</li> <li>• IRSS Topic: Desk study to catalogue available phytosanitary treatments and extend of their use (Priority 3)</li> <li>• External cooperation: Phytosanitary Measures Research Group (PMRG)<sup>27</sup></li> </ul>	

<sup>27</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/phytosanitarymeasuresresearchgroup/>

**C2****Strategic objective C: Facilitate safe trade, development and economic growth**

**Key result area C2:** Detections of pests in trade pathways are declining as exporting countries take more responsibility for managing the pest risk associated with exports, and importing countries report detections more quickly and more consistently.

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Phytosanitary certification system (ISPM 7)</i></li> <li>• <i>Phytosanitary certificates (ISPM 12)</i></li> <li>• <i>Guidelines for the notification of non-compliance and emergency action (ISPM 13)</i></li> <li>• <i>Guidelines for a phytosanitary import regulatory system (ISPM 20)</i></li> <li>• <i>Guidelines for inspection (ISPM 23)</i></li> <li>• <i>Diagnostic protocols for regulated pests (ISPM 27)</i></li> <li>• <i>Phytosanitary treatments for regulated pests (ISPM 28)</i></li> <li>• <i>Methodologies for sampling of consignments (ISPM 31)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Explanatory document ISPM 31 (Methodologies for sampling of consignments)</i></li> <li>• <i>Guide, Export certification</i></li> </ul>
List of topics		<ul style="list-style-type: none"> <li>• Managing non-compliant treated consignments (2018-027, Priority2)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Risk based inspection of imported consignments (2018-022, Pending)</li> </ul>	<ul style="list-style-type: none"> <li>• Risk based inspection of imported consignments (2018-022, Pending)</li> </ul>
Supporting documents		



**C3****Strategic objective C: Facilitate safe trade, development and economic growth**

**Key result area C3:** NPPOs have built capacity and been supported to establish phytosanitary export assurance and phytosanitary certification systems that are robust and are trusted by trading partners.

**Development agenda 4:** *Developing guidance on the use of third-party entities*

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• <i>Phytosanitary certification system (ISPM 7)</i></li> <li>• <i>Phytosanitary certificates (ISPM 12)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Export Certification</i></li> <li>• <i>Guide, Establishing an NPPO</i></li> <li>• <i>Guide, Operation of an NPPO</i></li> <li>• <i>Guide, Managing Relationships with stakeholders</i></li> <li>• <i>Guide to Resource Mobilization: Promoting contracting party partnerships</i></li> <li>• <i>Guide, Preparing a national phytosanitary Capacity Development Strategy</i></li> <li>• <i>NPPO establishment training kit</i></li> <li>• <i>NPPO operations training kit</i></li> <li>• <i>IPPC Introduction presentation</i></li> <li>• <i>Phytosanitary Capacity Evaluation (PCE)<sup>28</sup></i></li> <li>• <i>Training materials for PCE facilitator<sup>29</sup></i></li> <li>• <i>Phytosanitary Capacity Evaluation (PCE) Strategy for 2020-2030<sup>30</sup></i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Audit in the phytosanitary context (2015-014) (Priority 1)</li> <li>• Requirements for NPPOs if authorizing entities to perform phytosanitary actions (2014-002, Priority 2)</li> <li>• Focused revision of ISPM 12 (Phytosanitary certificates) (2015-011, Priority 2)</li> <li>• Use of specific import authorization (Annex to ISPM 20) (2008-006, Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Health officer training curriculum, Workshops (2017-054, Priority 2)</li> <li>• IPPC Guide on the development and implementation of programmes for the authorization of entities to perform phytosanitary actions (2018-040, Priority 2)</li> <li>• PCE facilitators training (2014-008, Priority 3)</li> <li>• PCE modernization of tool (2017-052, Priority 3)</li> <li>• One Belt One Road, High level symposium (2016-020, Pending)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Elements of an effective NPPO e.g. training, engagement of stakeholders, competency (Priority 1)</li> <li>• National legislation requirements (Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• Guidance on audit in the phytosanitary context</li> <li>• Guidance on non-compliance of phytosanitary certificate system</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• Guidelines for the revision of national phytosanitary legislation – FAO (2007)<sup>31</sup></li> <li>• IRSS Topic: Desk study on Requirements for NPPOs if authorizing entities to perform phytosanitary actions (Priority 2)</li> </ul>	

<sup>28</sup> <https://www.ippc.int/en/pce/>

<sup>29</sup> <https://www.ippc.int/en/core-activities/capacity-development/phytosanitary-capacity-evaluation/training-material-on-the-phytosanitary-capacity-evaluation-pce/>

<sup>30</sup> <https://www.ippc.int/en/publications/87701/>

<sup>31</sup> <http://www.fao.org/3/a-bb096e.pdf>

**C4****Strategic objective C: Facilitate safe trade, development and economic growth****Key result area C4:** The efficiency of administering phytosanitary certification systems has improved and the circulation of fraudulent certificates has been eliminated through electronic phytosanitary certification systems including the generic ePhyto national system and the global ePhyto hub.**Development Agenda 1:** Harmonization of electronic data exchange

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Phytosanitary certification system (ISPM 7)</i></li> <li>• <i>Phytosanitary certificates (ISPM 12)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Export Certification</i></li> </ul>
List of topics		
Gaps identified	<ul style="list-style-type: none"> <li>• National legislation requirements (Priority 4)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• ePhyto on IPP<sup>32</sup></li> </ul>	

**C5****Strategic objective C: Facilitate safe trade, development and economic growth****Key result area C5:** NPPOs have access to expert advice to enable resolution of bilateral trade concerns of a phytosanitary nature.

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• Phytosanitary principles for the protection of plants and the application of phytosanitary measures in international trade (ISPM 1)</li> <li>• Glossary of phytosanitary terms (ISPM5)</li> <li>• Guidelines for a phytosanitary import regulatory system (ISPM 20)</li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Market access</i></li> <li>• <i>Explanatory document ISPM 20</i></li> <li>• <i>Explanatory document ISPM 5 – Annotated Glossary</i></li> <li>• <i>Guide, Import Verification</i></li> <li>• <i>Guide, Establishing an NPPO</i></li> <li>• <i>Guide, Operation of an NPPO</i></li> </ul>
List of topics		<ul style="list-style-type: none"> <li>• Dispute avoidance and settlement (2001-005, Priority 1)</li> <li>• Dispute avoidance and settlement, Guide (2004-034, Priority 1)</li> <li>• Dispute settlement (1999&amp;2001), Procedures-Revision (1999-005, Priority 3)</li> </ul>
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study - Review of the application of equivalence between phytosanitary measures used to manage pest risk in trade</li> </ul>	

<sup>32</sup> <https://www.ippc.int/en/ephyto/>

**C6**

**Strategic objective C: Facilitate safe trade, development and economic growth**

**Key result area C6:** NPPOs are able to meet regularly to deliberate on phytosanitary research and emerging issues and other matters of common interest.

**Development agenda 7:** *Global phytosanitary research coordination*

	Standards	Implementation
<b>Developed materials</b>		<ul style="list-style-type: none"> <li>• <i>Guide on managing relationships with stakeholders</i></li> </ul>
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS Study: 2016 Global emerging issues</li> <li>• Concept of emerging pests and emergency issues - (Draft) role of the IPPC in relation to Plant Health emergencies and emerging pests<sup>33</sup></li> <li>• External cooperation: Phytosanitary Measure Research Group (PMRG)<sup>34</sup></li> <li>• IPPC Regional Workshops<sup>35</sup></li> </ul>	

**C7**

**Strategic objective C: Facilitate safe trade, development and economic growth**

**Key result area C7:** Contracting parties have legislation in place to enable implementation of ePhyto.

**Development Agenda 1:** *Harmonization of electronic data exchange*

	Standards	Implementation
<b>Developed materials</b>	<ul style="list-style-type: none"> <li>• <i>Phytosanitary certification system (ISPM 7)</i></li> <li>• <i>Phytosanitary certificates (ISPM 12)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Guide, Export Certification</i></li> </ul>
List of topics		
Gaps identified	<ul style="list-style-type: none"> <li>• National legislation requirements (Priority 4)</li> </ul>	<ul style="list-style-type: none"> <li>• PCE tool identified for ePhyto</li> </ul>
Supporting documents	<ul style="list-style-type: none"> <li>• ePhyto on IPP<sup>36</sup></li> </ul>	

<sup>33</sup> <https://www.ippc.int/en/publications/86922/>

<sup>34</sup> <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/phytosanitarymeasuresresearchgroup/>

<sup>35</sup> <https://www.ippc.int/en/core-activities/capacity-development/regional-ippc-workshops/>

<sup>36</sup> <https://www.ippc.int/en/ephyto/>