



# COMMISSION ON PHYTOSANITARY MEASURES

## Sixteenth Session

Virtual Meeting, 5, 7 and 21 April 2022

Framework for Standards and Implementation

Agenda item 8.3

Prepared by the IPPC Secretariat

## I. Background

1. The Framework for Standards and Implementation is intended to serve as a database of existing standards, topics and other reference material in the context of the core provisions of the IPPC and to enable the identification of gaps as guidance for the development of standards and other material to support implementation.
2. The CPM-11 (2016) agreed that the Framework for Standards and Implementation should be updated and maintained by the IPPC Secretariat, with responsibility for review and amendment resting jointly with the Standards Committee (SC) and the Capacity Development Committee (now Implementation and Capacity Development Committee (IC)) and reviewed by the Strategic Planning Group (SPG). It was also agreed that the updated Framework would be presented annually for the CPM endorsement<sup>1</sup>.
3. The CPM-15 (2021)<sup>2</sup> endorsed the revision of the Framework for Standards and Implementation.
4. The Framework for Standards and Implementation was updated (in track changes) at the IC June 2021 virtual meeting and the SC July 2021 virtual focused meeting and was agreed to be submitted to the SPG.

<sup>1</sup> CPM-11 (2016) report: [https://assets.ippc.int/static/media/files/publication/en/2016/07/Report\\_CPM-11\\_2016-07-19\\_withISPMs-revised.pdf](https://assets.ippc.int/static/media/files/publication/en/2016/07/Report_CPM-11_2016-07-19_withISPMs-revised.pdf)

<sup>2</sup> CPM-15 (2021) draft report: <https://www.ippc.int/en/publications/89669/>

5. The Framework for Standards and Implementation was reviewed by the SPG 2021<sup>3</sup> and recommended to the CPM-16 (2022) for endorsement. In addition, The SPG requested the IPPC Secretariat to prepare a paper for CPM-16 (2022) on an alternative way of presenting the content of the Framework for Standards and Implementation to streamline the process for compiling and maintaining the list that would improve its usability and reduce costs. The IPPC Secretariat is in the process of developing a database on the IPP to show the content of the Framework for Standards and Implementation.

6. The CPM is invited to:

- 1) *Endorse* the updated Framework for Standards and Implementation presented in Annex 1 of this paper.
- 2) *Note* the development of the database to show the content of the Framework for Standards and Implementation as presented in Annex 2 of this paper.
- 3) *Request* the IPPC Secretariat to reflect the content of Annex 1 and the CPM-16 (2022) decisions in the database and to update and maintain the database as needed (i.e., after CPM, after publications are released).

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<sup>3</sup> SPG 2021 report: [https://assets.ippc.int/static/media/files/publication/en/2021/12/FINAL\\_SPG\\_Oct\\_Report\\_2021-12-07.pdf](https://assets.ippc.int/static/media/files/publication/en/2021/12/FINAL_SPG_Oct_Report_2021-12-07.pdf)

## Annex 1: Framework for Standards and Implementation, updated by IC June 2021 and SC July 2021, reviewed by SPG 2021

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

The Framework for Standards and Implementation is a database of existing and proposed standards and implementation resources. The Framework has been modified to align with the IPPC Strategic Framework for 2020-2030. It is intended to facilitate the identification of gaps, guide the development of standards and implementation resources, and support the implementation of the Convention, standards and CPM recommendations.

### 2. Objective of this document

The Framework provides a list of existing and proposed standards and implementation resources and identifies the strategic objectives and key result areas associated with each. It is used to capture CPM priorities, identify gaps and guide the selection of submitted topics for inclusion in the list of topics for IPPC standards and 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<sup>1</sup>

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> <li><i>Adopted standards<sup>2</sup></i></li> <li><i>CPM Recommendations<sup>3</sup></i></li> </ul>	<ul style="list-style-type: none"> <li><i>Explanatory documents for ISPMs<sup>4</sup></i></li> <li><i>IPPC Guides and training materials<sup>5</sup></i></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 (published)<sup>8</sup></li> <li>IRSS topics (to be developed)<sup>9</sup></li> <li>Other relevant information</li> </ul>	

<sup>1</sup> IPPC Strategic Framework 2020-2030: <https://www.ippc.int/en/publications/87741/>

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

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

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

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

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

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

<sup>8</sup> IRSS studies: <https://www.ippc.int/en/core-activities/implementation-review-and-support-system/>

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

**4. Notes:**

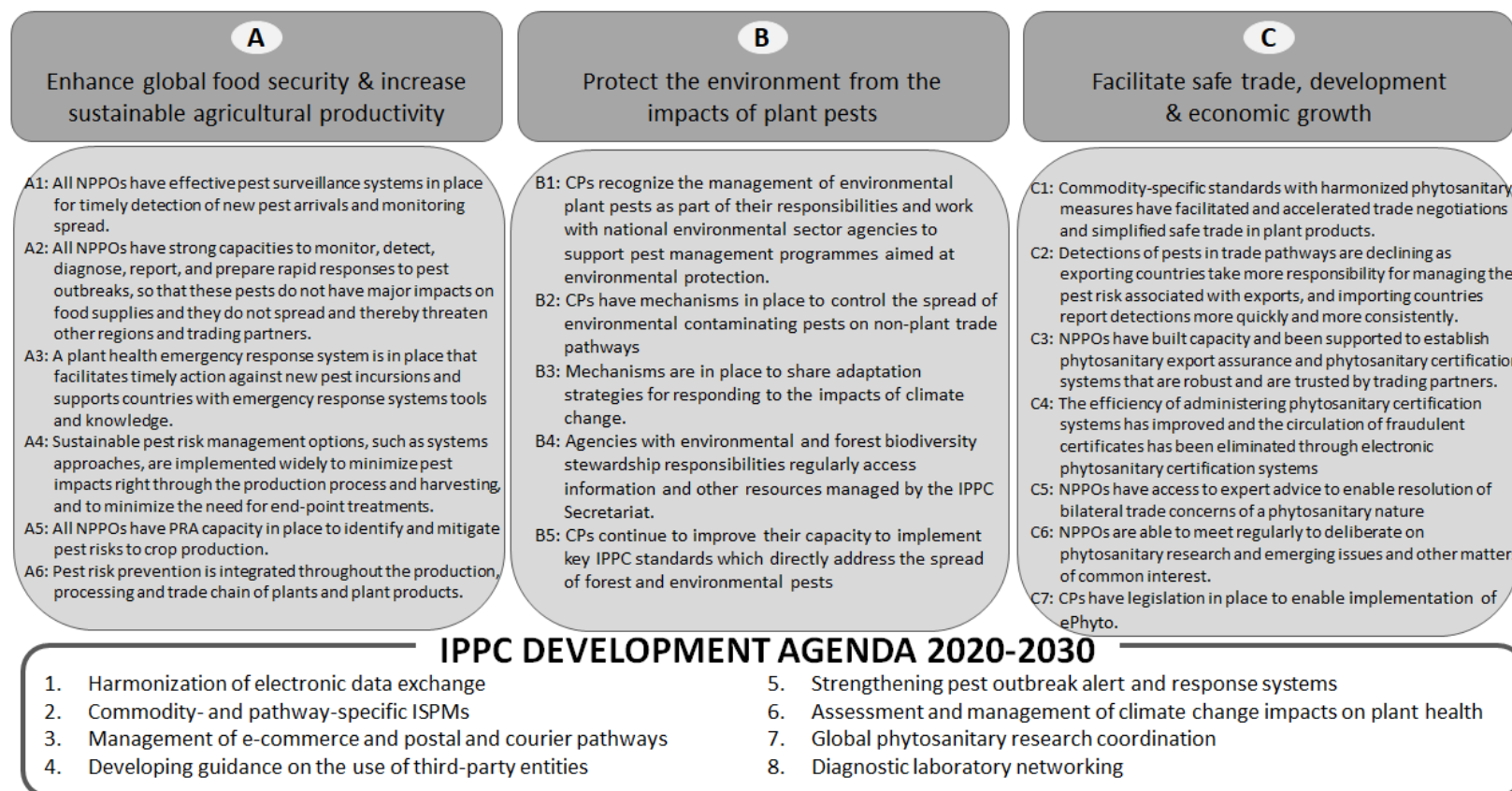
1. List of Topics includes topics/subjects on the List of Topics for IPPC Standards/ List of Implementation and Capacity Development topics and their priority level.
2. Gaps identified include topics/subjects that need to be addressed.
3. As 2030 Key result areas and Development Agendas of IPPC Strategic Framework 2020-2030 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 Strategic objectives, key result areas, and development agenda:**


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**STRATEGIC OBJECTIVES AND KEY RESULT AREAS**


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**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**

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• Requirements for the establishment of pest free areas (ISPM 4)</li> <li>• Surveillance (ISPM 6)</li> <li>• Determination of pest status in an area (ISPM 8)</li> <li>• Requirements for the establishment of pest free places of production and pest free production sites (ISPM 10)</li> <li>• Requirements for the establishment of areas of low pest prevalence (ISPM 22)</li> <li>• Establishment of pest free areas for fruit flies (Tephritidae) (ISPM 26)</li> <li>• Recognition of pest free areas and areas of low pest prevalence (ISPM 29)</li> <li>• <a href="#">Pest free potato (Solanum spp.) micropropagative material and minitubers for international trade (ISPM 33)</a></li> </ul>	<ul style="list-style-type: none"> <li>• Guide, <a href="#">Plant Pest Surveillance (Revision)</a></li> <li>• Guide, <a href="#">Pest Free Area</a></li> <li>• <a href="#">Guide, Pest Status</a></li> <li>• <a href="#">Prevention, preparedness and response guidelines for Spodoptera frugiperda</a></li> </ul>
List of topics	<ul style="list-style-type: none"> <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>• <del>Plant health surveillance, Portal (2015-015, Priority 1)</del></li> <li>• <del>Plant Pest Surveillance, Guide Revision (2017-049, Priority 1)</del></li> <li>• Surveillance of <i>Xylella fastidiosa</i>, Guide (2018-037, Priority 1)</li> <li>• Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1)</li> <li>• Pest Free Areas (PFA), e-Learning course (2017-044, Priority 1<sup>2</sup>)</li> <li>• <a href="#">Pest Status Guide, (2017-048, Priority 2)</a></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	<ul style="list-style-type: none"> <li>• <a href="#">IRSS Topic: Baseline study on the successes and challenges of implementation of pest free areas (Priority 1)</a><sup>9</sup></li> </ul>	

<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>• Surveillance (ISPM 6 Surveillance)</li> <li>• Determination of pest status in an area (ISPM 8)</li> <li>• Pest Reporting (ISPM 17)</li> <li>• Guidelines on lists of regulated pests (ISPM 19)</li> <li>• Guidelines for Inspection (ISPM 23)</li> <li>• Diagnostic protocols for regulated pests (ISPM 27), including 29 Annexes/DPs</li> <li>• Methodologies for sampling of consignments (ISPM 31)</li> <li>• Design and operation of post-entry quarantine stations for plants (ISPM 34)</li> <li>• CPM Recommendation: The importance of pest diagnosis (R-07)</li> <li>• CPM Recommendation: Preparing to use high-throughput sequencing (HTS) technologies as a diagnostic tool for phytosanitary purposes (R-08)</li> </ul>	<ul style="list-style-type: none"> <li>• Explanatory document ISPM 17 (Pest reporting)</li> <li>• Guide, <del>Plant Pest Surveillance</del> <a href="#">(Revision)</a></li> <li>• <a href="#">Guide, Pest Status</a></li> <li>• Guide to delivering phytosanitary diagnostic services</li> <li>• Guide to National Reporting Obligations</li> <li>• NRO training materials<sup>12</sup></li> <li>• NRO e-learning</li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• <a href="#">23 subjects for the Technical Panel on Diagnostic Protocols (TPDP) on LoT as of 07/2021</a></li> <li>• <a href="#">18 Diagnostic Protocols on LoT as of 05/2019</a></li> </ul>	<ul style="list-style-type: none"> <li>• <del><a href="#">Plant Pest Surveillance, Guide Revision (2017-049, Priority 1)</a></del></li> <li>• Strengthening Pest Outbreak Alert and Response Systems, Programme (2017-051, Priority 1)</li> <li>• Inspection e-Learning course (2020-011, Priority 1)</li> <li>• Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1)</li> <li>• <del><a href="#">Pest Status Guide, (2017-048, Priority 2)</a></del></li> <li>• Designing plant quarantine laboratories, Reference material (2018-013, Priority 4)</li> <li>• Pest diagnostic, TBD (2016-015, Priority 4)</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> Web page on the IPP: <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

	Standards	Implementation
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 Obligations</i></li> <li>• <i>Guide on Pest Risk Communication</i></li> <li>• <i>Prevention, preparedness and response guidelines for <i>Spodoptera frugiperda</i></i></li> <li>• <i>NRO training materials</i><sup>12</sup></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, Programme (2017-051, Priority 1)</li> <li>• Contingency planning, Guide (2019-012, Priority 1)</li> <li>• <del>Fall Armyworm Prevention, Guidelines and training materials (2020-010, Priority 1)</del></li> <li>• Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Contingency planning and emergency response (Priority 1)</li> </ul>	
Supporting documents	<ul style="list-style-type: none"> <li>• National Reporting obligations (NRO) on IPP<sup>13</sup></li> </ul>	

**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>• Inspection of consignments for <i>Xylella fastidiosa</i> at points of entry, Guide (2018-038, Priority 1)</li> <li>• Pest Risk Management, Guide (2017-047, Priority 3)</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 (2016)<sup>8</sup></li> <li>• Beyond compliance tools (2021)<sup>14</sup></li> </ul>	

<sup>14</sup> Web page on the IPP for the Beyond Compliance tools <https://www.ippc.int/en/core-activities/capacity-development/phytosanitary-system/systems-approach/systems-approach-online-tools/>



## 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>• <a href="#">The use of integrated measures in a systems approach for pest risk management (ISPM 14)</a></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>• <a href="#">Systems approach for pest risk management of fruit flies (Tephritidae) (ISPM 35)</a></li> <li>• <i>Determination of host status of fruit to fruit fly (ISPM 37)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">e-Learning course, Pest risk analysis</a></li> <li>• <del>e-learning on PRA</del></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, Priority 3)</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> <li>• Reorganization of Pest Risk Analysis standards (2020-001)</li> </ul>	<ul style="list-style-type: none"> <li>• Assessing the risk of introduction of pests with seeds, Guide (2018-036, Priority 1)</li> <li>• <a href="#">Pest risk analysis, e-Learning course (2020-002, Priority 1)</a></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 (2016)<sup>8</sup></li> <li>• External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)<sup>15</sup></li> </ul>	

<sup>15</sup> Web page on the IPP on the CBD: <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/cbd/>

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**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>
<i>Developed materials</i>	<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> <li>• <i>Safe provision of food and other humanitarian aid to prevent the introduction of plant pests during an emergency situation (R-09)</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>• Developing Phytosanitary Security Procedures, Guide (2018-028, Priority1)</li> <li>• Inspection e-Learning course (2020-011, Priority 1)</li> <li>• Risk based inspection of imported consignments, Guide (2018-022, priority <a href="#">12</a>)</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>	
Supporting documents	<ul style="list-style-type: none"> <li>• IRSS study: Diversion from Intended Use: Consideration of the extent of the issue (2016)<sup>8</sup></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.

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<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 (2012)<sup>8</sup></li> <li>• IRSS study: The Biosecurity approach: A review and evaluation of its application by FAO, internationally and in various countries (2016)<sup>8</sup></li> <li>• IRSS study: Analyzing the benefits of implementing the IPPC (2017)<sup>8</sup></li> <li>• External cooperation: Ozone Secretariat<sup>16</sup></li> <li>• External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)<sup>15</sup></li> <li>• External cooperation: UN Environment Programme<sup>17</sup></li> </ul>	

<sup>16</sup> Web page on the IPP: <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/ozonesecretariat/>

<sup>17</sup> Web page on the IPP: <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>
<b>Developed materials</b>	<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>	<ul style="list-style-type: none"> <li>• <a href="#">Guide, Sea Container Surveys</a></li> <li>• <a href="#">Guide, Sea container supply chains and cleanliness</a></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, Priority 3)</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, Programme (2016-016, Priority 1)</li> <li>• Development and implementation of regulations and legislation to manage phytosanitary risks on regulated articles for NPPOs, Guide (2018-008, Priority 1)</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 (2016)<sup>8</sup></li> <li>• External cooperation: International Maritime Organization (IMO)<sup>18</sup></li> </ul>	

<sup>18</sup>Web page on the IPP:- <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
<i>Developed materials</i>	<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>16</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
<i>Developed materials</i>		<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)<sup>9</sup></li> <li>• External cooperation: Ozone Secretariat<sup>16</sup></li> <li>• External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)<sup>15</sup></li> <li>• <a href="https://doi.org/10.4060/cb4769en">Scientific review of the impact of climate change on plant pests (2021)</a><sup>19</sup></li> </ul>	

<sup>19</sup> <https://doi.org/10.4060/cb4769en>

**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.

	<b>Standards</b>	<b>Implementation</b>
<i>Developed materials</i>	<ul style="list-style-type: none"> <li>• <i>Pest Risk Analysis for quarantine pests (ISPM 11), 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 Wood packaging material, Guide (2017-043, Priority 1)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <li>• Revision of ISPM 15 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: The Secretariat for the Convention on Biological Diversity (CBD)<sup>15</sup></li> <li>• External cooperation: International Forest Quarantine Research Group (IFQRG)<sup>20</sup></li> </ul>	

<sup>20</sup> Web page on the IPP: <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

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> <li>• Regulation of wood packaging material in international trade (ISPM 15)</li> <li>• Guidelines for the use of irradiation as a phytosanitary measure (ISPM 18)</li> <li>• Phytosanitary treatments for regulated pests (ISPM 28) incl 39 Annexes (PTs)</li> <li>• Categorization of commodities according to their pest risk (ISPM 32)</li> <li>• Pest free potato (<i>Solanum spp.</i>) micropropagative material and minitubers for international trade (ISPM 33)</li> <li>• Integrated measures plants for planting (ISPM 36)</li> <li>• International movement of seeds (ISPM 38)</li> <li>• International movement of wood (ISPM 39)</li> <li>• International movement of growing media in association with plants for planting (ISPM 40)</li> <li>• International movement of used vehicles, machinery and equipment (ISPM 41)</li> <li>• Requirements for the use of temperature treatments as a phytosanitary measure (ISPM 42)</li> <li>• Requirements for the use of fumigation as a phytosanitary measure (ISPM 43)</li> <li>• CPM Recommendation: Internet trade (e-commerce) in plants and other regulated articles (R-05)</li> <li>• Requirements for the use of modified atmosphere treatments as a phytosanitary measure (ISPM 44)</li> </ul>	<ul style="list-style-type: none"> <li>• Explanatory document ISPM 15 (Regulation of wood packaging material in international trade)</li> <li>• Explanatory document ISPM 18 (Guidelines on the use of irradiation as a phytosanitary treatment)</li> <li>• Guide to implementation of phytosanitary standards in forestry</li> <li>• e-Learning: Trade in forest commodities and the role of phytosanitary measures</li> <li>• <a href="#">Guide, Market access</a></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• <a href="#">26-16 subjects for the Technical Panel on Phytosanitary Treatments (TPPT) Phytosanitary treatments (Annexes to ISPM 28)</a> on LoT as of <a href="#">05/201907/2021</a></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, Priority 4)</li> <li>• Requirement for phytosanitary certificate on cross-border online-shopping plants, plant products and other regulated articles (2018-021, Priority 4)</li> <li>• Requirements for the use of chemical treatments as a phytosanitary measure (2014-003, Priority 3)</li> <li>• Requirements for the use of irradiation as a phytosanitary measure (Revision to ISPM 18) (2014-007, Priority 1)</li> <li>• Commodity-based standards for phytosanitary measures (2019-008, Priority 1)</li> </ul>	<ul style="list-style-type: none"> <li>• e-Commerce for plants, plant products and other regulated articles, Guide (2017-039, Priority 1)</li> <li>• ISPM 15 Wood packaging material, Guide (2017-043, Priority 1)</li> <li>• Management of plants and plant products carried by entry passengers, Awareness materials (2018-017, Priority 2)</li> </ul>
Gaps identified	<ul style="list-style-type: none"> <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 (2012)<sup>8</sup></li> <li>• IRSS Topic: Desk study to catalogue available phytosanitary treatments and extend of their use (Priority 3)<sup>9</sup></li> <li>• External cooperation: Phytosanitary Measures Research Group (PMRG)<sup>21</sup></li> <li>• External cooperation: World Customs Organization (WCO)<sup>22</sup></li> </ul>	

<sup>21</sup> [Web page on the IPP: https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/phytosanitarymeasuresresearchgroup/](https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/phytosanitarymeasuresresearchgroup/)

<sup>22</sup> [Web page on the IPP: https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/wco/](https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/wco/)

**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.

	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> <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>• <a href="#">e-Learning course, Phytosanitary export certification system</a></li> <li>• <i>Guide, Export certification</i></li> </ul>
List of topics		<ul style="list-style-type: none"> <li>• <a href="#">Phytosanitary export certification system, e-Learning course (2020-003, Priority 1)</a></li> <li>• Managing non-compliant treated consignments, Guide (2018-027, Priority 2)</li> <li>• Risk based inspection of imported consignments, Guide (2018-022, priority <a href="#">12</a>)</li> </ul>
Gaps identified	<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>• <a href="#">IRSS Topic: Study on Developing Guidance on Risk-based Border Management (Priority 1)</a><sup>9</sup></li> </ul>	



# 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> <li>• <i>Requirements for national plant organizations if authorizing entities to perform phytosanitary actions (ISPM 45)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>e-Learning course, Phytosanitary export certification system</i></li> <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)</i><sup>23</sup></li> <li>• <i>Training materials for PCE facilitators</i><sup>24</sup></li> <li>• <i>Phytosanitary Capacity Evaluation (PCE) Strategy for 2020-2030</i><sup>25</sup></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• Audit in the phytosanitary context (2015-014) (Priority 1)</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 (2017-054, Priority 1)</li> <li>• Authorization of entities to perform phytosanitary actions, Guide (2018-040, Priority 12)</li> <li>• PCE facilitators training, Training materials (2014-008, Priority 3)</li> <li>• PCE tool, Modernization (2017-052, Priority 3)</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>26</sup></li> <li>• <a href="#">IRSS study: Authorizing entities to perform phytosanitary actions (2021)</a><sup>8</sup></li> </ul>	

<sup>23</sup> <https://www.ippc.int/en/pce/>

<sup>24</sup> <https://www.ippc.int/en/core-activities/capacity-development/phytosanitary-capacity-evaluation/training-material-on-the-phytosanitary-capacity-evaluation-pce/>

<sup>25</sup> <https://www.ippc.int/en/publications/87701/>

<sup>26</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>• <a href="#">e-Learning course, Phytosanitary export certification system</a></li> <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>27</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 (ISPM 5)</li> <li>• Guidelines for a phytosanitary import regulatory system (ISPM 20)</li> </ul>	<ul style="list-style-type: none"> <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, Market access</i></li> <li>• <i>Guide, Operation of an NPPO</i></li> </ul>
List of topics	<ul style="list-style-type: none"> <li>• <a href="#">22 subjects for the Technical Panel for the Glossary (TPG) on LoT as of 07/2021</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Inspection e-Learning course (2020-011, Priority 1)</a></li> <li>• Dispute settlement, 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 (2016)<sup>8</sup></li> </ul>	

<sup>27</sup> Web page on the IPP: <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: Global emerging issues (2016)<sup>8</sup></li> <li>• <del>Concept of emerging pests and emergency issues – (Draft) role of the IPPC in relation to Plant Health emergencies and emerging pests<sup>28</sup></del></li> <li>• External cooperation: Phytosanitary Measure Research Group (PMRG)<sup>21</sup></li> <li>• IPPC Regional Workshops <sup>29</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>• <a href="#">e-Learning course, Phytosanitary export certification system</a></li> <li>• <i>Guide, Export Certification</i></li> </ul>
List of topics		<ul style="list-style-type: none"> <li>• <a href="#">Phytosanitary export certification system, e-Learning course (2020-003, Priority 1)</a></li> </ul>
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>27</sup></li> </ul>	

<sup>28</sup> <https://www.ippc.int/en/publications/86922/>

<sup>29</sup> Web page on the IPP:- <https://www.ippc.int/en/core-activities/capacity-development/regional-ippc-workshops/>

## Annex 2: Content of the database on Framework for Standards and Implementation (Only A1 is shown as an example)

### Note:

- 1) When a topic is adopted or published, it must be moved manually from the “List of topics” to “Adopted/Developed Materials”.
- 2) New topics will also need to be added to the database manually. The categorization of the key result areas will be consistent with the information provided in the draft specification.
- 3) Other changes to the data, such as adjustments to the priority level or the working title, will change automatically in the database when the change is made to one of the lists of topics. This will make the maintenance of this database much more efficient.

Key result area	Category	Standards	Implementation
<b>A1</b> (All NPPOs have effective pest surveillance systems in place for timely detection of new pest arrival and monitoring spread)	Developed Materials	<a href="#">ISPM 06 Surveillance</a>	<a href="#">Surveillance guide</a>
		<a href="#">CPM Recommendation R-07 The importance of pest diagnosis</a>	<a href="#">Explanatory document ISPM 17 (Pest reporting)</a>
	List of topics	<a href="#">Pest risk management for quarantine pests 2014-001 Priority 2</a>	<a href="#">Inspection and diagnostics e-learning course 2020-011 Priority 1</a>
	Surveys and studies	<a href="#">IRSS study Review of the application of equivalence between phytosanitary measures used to manage pest risk in trade</a> <a href="#">IRSS topic Survey on the success of implementation of PFAs Priority 1</a>	
Add information from A2 to C6 according to the current Framework for Standards and Implementation			
<b>C7</b> (Contracting parties have legislation in place to enable implementation of ePhyto)	Developed Materials		
	List of topics		
	Supporting documents		