



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention

REPORT

Standards Committee

**Virtual Focused Meeting
13–14 July 2021**

IPPC Secretariat

IPPC Secretariat. 2021. *Report on the virtual focused meeting of the Standards Committee, 13-14 July 2021*. Rome. Published by FAO on behalf of the Secretariat of the International Plant Protection Convention (IPPC). 39 pages. Licence: CC BY-NC-SA 3.0 IGO.

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1. Opening of the meeting

1.1 Welcome by the IPPC Secretariat

- [1] The Chairperson of the Standards Committee (SC), Ezequiel FERRO (Argentina), and the Standard Setting Unit (SSU) Acting Officer-in-Charge for daily matters, Adriana MOREIRA, welcomed all participants to the SC meeting and encouraged everyone to contribute to the discussions. Representatives from the Implementation and Capacity Development Committee (IC) and the Implementation and Facilitation Unit (IFU) were welcomed as observers.
- [2] The following SC members were absent: Prudence Tonator ATTIPOE (Ghana), Xiaodong FENG (China) and Mohamed Lahbib BEN JAMÂA (Tunisia).

2. Meeting arrangements

2.1 Election of the Rapporteur

- [3] The SC elected Steve CÔTÉ (Canada) as Rapporteur.

2.2 Adoption of the agenda

- [4] The SC adopted the Agenda (Appendix 1).

3. Administrative matters

- [5] The IPPC Secretariat (hereafter referred to as “Secretariat”) introduced the documents list (Appendix 2) and the participants list (Appendix 3). The Secretariat invited participants to notify the Secretariat of any information that required updating in the participants list or was missing from it.

4. Follow-up from previous meetings

4.1 Discussion on the topic *Criteria for treatments for wood packaging material in international trade (as a revision of ISPM 15) (2006-010)*

- [6] The Steward, Marina ZLOTINA (United States of America), introduced this agenda item,¹ which had been discussed extensively at the SC focused meeting in June 2021 but without a consensus being reached.²
- [7] The topic had been added to the SC’s work programme in 2006 and had been assigned to the Technical Panel on Forest Quarantine (TPFQ). Between 2009 and 2016, a document on the type of data required to support treatments intended for inclusion in ISPM 15 (*Guidelines for regulating wood packaging material in international trade*) had been discussed by the TPFQ, submitted for consultation and reviewed, with various technical issues being raised. The final draft, however, had subsequently been rejected by several journals and was never published. With the disestablishment of the TPFQ by the Fifteenth Session of the Commission on Phytosanitary Measures (CPM-15) in 2021, the topic had remained on the *List of topics for IPPC standards* but assigned to an expert working group.
- [8] Given the lack of progress with the topic since 2016, the Steward considered that it would be very unlikely that an expert working group would be able to draft the required criteria for treatments in a meeting and it would also be unlikely that such guidance could be developed as a revision of ISPM 15. She therefore recommended that the topic be removed from the work programme and suggested that input from the research community would be needed to progress the issue.
- [9] The SC Chairperson thanked the Steward for her introduction and noted that the SC’s work programme contained a large number of topics, so it was important to prioritize. He invited comments from the SC.

¹ 12_SC_FM_Tel_2021_Jul.

² SC 2021-06, agenda item 5.

- [10] Several SC members expressed support for the removal of the topic from the work programme, given the length of time it had been on the work programme, the lack of progress, and the fact that the specification was an old one. One SC member commented that if topics are left on the *List of topics for IPPC standards* for many years, it can give the impression that they are never going to be finalized: the list needed to be manageable and balanced.
- [11] Some SC members suggested that the decision be deferred or the topic remain on the work programme a little longer: one SC member suggested that the International Forest Quarantine Research Group (IFQRG) and the Phytosanitary Measures Research Group (PMRG) be asked to comment before the SC made a definitive decision, and another SC member related comments from a member of IFQRG, who had referred to the paper that been written and the group's hope still to get it published. However, the SC Chairperson recalled the extensive discussions at the last SC meeting about approaching IFQRG and the PMRG, and other SC members noted that even if the topic were to be removed from the work programme, this did not mean that progress on the issue had to stop – research groups could still continue to work on developing guidance outside of the standard setting process and, depending on the material produced, either a new topic could be submitted (e.g. to add a treatment to ISPM 15) or another form of product could be produced, depending on what was most appropriate. Submitting a new topic would also provide the opportunity to draw up a new, more up-to-date specification and may stimulate interest in the topic. One SC member commented that perhaps the larger piece of work is for the Technical Panel on Phytosanitary Treatments regarding the development of criteria for assessment of a variety of treatments.
- [12] One SC member commented that the *List of topics for IPPC standards* needed a thorough review as there were probably other items that had been on the list for a long time with little or no progress, but the Secretariat recalled that this was in hand as the SC had decided at its last meeting that a small group of SC members would conduct such a review.³ With reference to ISPM 15, the Secretariat added that the mechanism by which the SC could liaise with IFQRG and the PMRG, which had also been discussed at the last SC meeting, still needed to be considered by the SC.
- [13] Noting that there would be an opportunity to reintroduce the topic in the future if needed, and that this would allow, if needed, the scope to be adjusted in a way that facilitated progress, the SC agreed that the topic should be removed from the work programme.
- [14] The SC:
- (1) *recommended* to CPM-16 (2022) that the topic *Criteria for treatments for wood packaging material in international trade* (as a revision of ISPM 15) (2006-010), priority 2, be removed from the *List of topics for IPPC standards* for the reasons discussed by the SC at their meeting in July 2021.

5. Discussions on the IPPC Strategic Framework 2020–2030

5.1 Recent updates and next steps on development agenda items

- [15] The Secretariat introduced the paper for this agenda item, starting with the background.⁴ A CPM Focus Group on Implementation Plans for the IPPC Strategic Framework 2020–2030 had been established by CPM-15 (2021), which would be looking at prioritization of activities to progress the eight development agenda items in the Strategic Framework. The SC is represented in the focus group by André Felipe C.P. da SILVA (Brazil). The Secretariat as a whole had shared the coordination of the various development agenda items between the different units of the Secretariat, and the following three items had been assigned to the SSU to coordinate: commodity- and pathway-specific ISPMs; developing guidance on the use of third-party entities; and diagnostic laboratory networking. The implementation of the Strategic Framework, however, was the collective responsibility of all contracting parties, not the

³ SC 2021-06, agenda item 5.

⁴ 11_SC_FM_Tel_2021_Jul.

Secretariat, and so there was a need for the SC to discuss implementation of the Strategic Framework and to feed comments into the focus group via the SC representative (see agenda item 5.2).

[16] The Secretariat briefly summarized progressed to date on the three development agenda items assigned to the SSU:

- Commodity standards – The draft ISPM on *Commodity-based standards for phytosanitary measures* (2019-008) had been submitted for second consultation and the SC had approved the specification for the Technical Panel on Commodity Standards (Specification TP6), but there was now a need to develop a work plan. It is possible that proposals for commodity standards may be submitted during the 2021 call for topics.
- Guidance on the use of third-party entities – ISPM 45 (*Requirements for national plant protection organizations if authorizing entities to perform phytosanitary actions*) had been adopted by CPM-15 (2021), but there was now a need to develop a work plan for this development agenda item.
- Diagnostic laboratory networking – Progress had been slow. The Technical Panel on Diagnostic Protocols had had some preliminary discussions but could not do anything more without guidance or consent from the SC. The CPM Bureau had agreed to allocate some money from travel savings to this development agenda item, including funds to hire a consultant, and at their last meeting (the week before this SC meeting) had had a very productive discussion about diagnostic laboratory networking.⁵

[17] The Secretariat finished by referring the SC to the recommendations in the paper, including the recommendation that the SC select an SC focal point (“SC champion”) for each of the three development agenda items assigned to the SSU.

[18] The SC Chairperson thanked the Secretariat for introducing the agenda item and highlighted the need to provide input to the focus group via the SC representative. He then invited comments from the SC.

[19] **Diagnostic laboratory networking.** One SC member asked for further information on what was envisaged for diagnostic laboratory networking: whether, for example, it would entail having reference laboratories that can also provide assistance on diagnosis. The SC Chairperson and Secretariat explained that this was a new issue and ideas were needed on how to progress it, but one of the issues prompting the inclusion of this item in the Strategic Framework had been the need to ensure that countries have the capacity (including expertise, equipment, reagents, etc.) to provide or access a proper diagnostic service. The Secretariat added that the CPM Bureau had considered the terms of reference for an expert in diagnostics to be hired as a consultant to help the Secretariat with this development agenda item, and the first task for the consultant would be to conduct a literature search to gather information about laboratory networks in related fields such as animal health and biodiversity. After this, discussions could possibly be had with IPPC bodies to define how the laboratory network for the IPPC would look: for example, would it include reference laboratories and, if so, what about reference materials? The Secretariat emphasized that the SC would need to contribute to these discussions.

[20] **General approach.** One SC member suggested that the SC should first look at the CPM’s desired outcomes for each of these three development agenda items, and then look at how the SC could contribute to those outcomes. This approach was supported by another SC member.

[21] **Commodity standards.** One SC member commented that the SC could contribute to this development agenda item by developing commodity standards, diagnostic protocols and phytosanitary treatments for topics that contracting parties propose or identify as globally common issues.

[22] **The next steps.** A few SC members sought clarity on what the SC was being asked to do. The Secretariat explained that this was up to the SC to decide, as implementation of the Strategic Framework, including developing a work plan, is not the responsibility of the Secretariat but of contracting parties. The SC therefore needed to discuss how to progress implementation of the Strategic Framework. However, the

⁵ Reports of CPM Bureau meetings: <https://www.ippc.int/en/core-activities/governance/bureau/>

Secretariat added that for this SC meeting it would be helpful if the SC could at least assign some focal points (“champions”) to work with the Secretariat.

[23] The idea of having focal points was welcomed by SC members, with one member suggesting that perhaps there could also be two or three other SC members nominated to work with these focal points to develop ideas, which would be easier than doing this with the whole SC present.

[24] One of the IFU staff present confirmed that the IC had already assigned an IC lead for each of the development agenda items assigned to the IFU, and the IC as a whole would be discussing the three items at the IC meeting in November.

[25] In terms of how the SC could best contribute to the focus group, the Secretariat confirmed that the CPM Bureau had only just finalized the experts for the focus group in the week preceding this SC meeting and so the first meeting of the focus group would not now be until the first week of September. The main task in the group’s terms of reference is to prioritize, but it was unlikely that much progress would be made on this front at the first meeting. The Secretariat suggested the SC representative could perhaps suggest that the focus group develop a work plan, but reiterated that it was up to the SC to decide how to progress this, not the Secretariat.

[26] The SC therefore agreed to the suggestion made earlier, that small groups of SC members would develop some ideas and report back to the SC in September, for the SC to discuss. The SC representative on the focus group would then feed the outcome of this discussion into the focus group. One SC member commented the work of the small groups would not need to be onerous: a single video call of perhaps 2.5 hours should be sufficient.

[27] The Secretariat offered administrative support to any of the focal points who needed it, and the SC member assigned as the focal point for use of third-party entities requested such support.

[28] The SC:

- (2) *noted* the updates on the above-mentioned development agenda items;
- (3) *assigned* SC members to be focal points (“SC champions”) for IPPC Strategic Framework 2020–2030 development agenda items, and *agreed* that each focal point would lead a small group of other SC members to develop ideas on how to progress the development agenda items and to report back to the SC at the SC meeting in September 2021, as follows:
 - Commodity- and pathway-specific ISPMs – Samuel BISHOP (United Kingdom, lead), Ezequiel FERRO (Argentina), André Felipe C.P. da SILVA (Brazil), Joanne WILSON (New Zealand),
 - Developing guidance on the use of third-party entities – Olga LAVRENTJEVA (Estonia, lead), Steve CÔTÉ (Canada), André Felipe C.P. da SILVA (Brazil), Alphonsine LOUHOUARI TOKOZABA (Congo),
 - Diagnostic laboratory networking – Hernando Morera GONZÁLEZ (Costa Rica, lead), David KAMANGIRA (Malawi), André Felipe C.P. da SILVA (Brazil).

5.2 Updates on CPM Focus Group on Implementation Plans for the IPPC Strategic Framework 2020–2030

[29] The SC representative on the focus group, André Felipe C.P. da SILVA (Brazil), gave a brief update.⁶ The CPM Bureau had met the previous week and had approved the experts who would be members of the focus group, but the first meeting would now be in September rather than July.

⁶ 04_SC_FM_Tel_2021_Jul.

[30] The SC Chairperson thanked the SC representative, referred SC members to the terms of reference for the focus group,⁷ and invited comments. There were no comments.

[31] The SC Chairperson noted that although comments had been invited on the sequencing of implementation of the IPPC Strategic Framework 2020–2030 development agenda items, it was clear from the discussion on agenda item 5.1 that it would be premature to do that at this meeting.

[32] The SC:

- (4) *noted* the update on the activities of the Focus Group on Implementation of the IPPC Strategic Framework 2020–2030 development agenda items.

6. Review of *Framework for standards and implementation*

6.1 Background information for *Framework for standards and implementation*

[33] The SC champion for the *Framework for standards and implementation*, Nader ELBADRY (Egypt), presented the paper, which explained the background to the framework and included the most up-to-date version of it.⁸ The framework had been updated to reflect the decisions of CPM-15 (2021), and had subsequently been modified by the IC and then the IC and SC champions of the framework. All changes made since CPM-15 (2021) were presented in tracked-changes mode for the SC to review.

[34] The SC Chairperson thanked the SC champion for his presentation and invited comments from the SC. There were no comments.

[35] The SC Chairperson queried whether, under strategic objective B4, the “Scientific review of the impact of climate change on plant pests” should be listed as a supporting document rather than being under standards, as it is not a standard, and the SC agreed.

[36] The SC:

- (5) *agreed* to the changes made to the *Framework for standards and implementation* and *agreed* that, in addition, the item on “Scientific review of the impact of climate change on plant pests” should be moved to the “Supporting documentation” category;
- (6) *invited* the Strategic Planning Group to review the updated *Framework for standards and implementation* as modified at this meeting (Appendix 4) and recommend it for endorsement by CPM-16 (2022).

7. Updates and enhancing synergies and areas of collaboration

7.1 Implementation and Capacity Development Committee

[37] The SC representative to the IC, Álvaro SEPÚLVEDA LUQUE (Chile), presented an update on the activities of the IC.⁹ He started by introducing the membership of the IC and then summarizing the activities of the IC subgroups and teams. These groups and teams include the Implementation Review and Support System (IRSS) subgroup, the Sea Containers Task Force (SCTF), the Team on Contributed Resources, the Team on Guides and Training Materials, the Team on National Reporting Obligations, the Team on the Phytosanitary Capacity Evaluation (PCE) Tool, and the Team on Fusarium Wilt TR4 (*Fusarium oxysprum* f. sp. *cubense* Tropical Race 4), the latter being a new group. The SC representative then gave an update on the *List of implementation and capacity development topics*, which had been reviewed by the IC in May 2021, progress on guides and training materials, and two new component pages added to the International Phytosanitary Portal (IPP).

⁷ Terms of reference for the Focus Group on Implementation Plans for the IPPC Strategic Framework 2020–2030: 04_SC_FM_Tel_2021_Jul, Appendix 1.

⁸ 05_SC_FM_Tel_2021_Jul.

⁹ 06_SC_FM_Tel_2021_Jul.

[38] The SC Chairperson sought more information about training for PCE facilitators, as some countries may be interested in receiving this. The IC representative to the SC, Ahmed ABDELMOTTALEB, clarified that the SC paper only described recent activities. He confirmed that PCE facilitator training had taken place for some years now, but that an accreditation procedure for PCE facilitators had now been developed.

[39] There were no other comments.

[40] The SC Chairperson thanked the SC representative for his presentation.

[41] The SC:

(7) *noted* the update from the Implementation and Capacity Development Committee.

7.2 Updates from the IC groups and subgroups to the SC that may impact the SC's work

ISPM 15 guide

[42] The SC representative following the development of this IPPC guide, Marina ZLOTINA (United States of America), presented an update on progress to date.¹⁰ The funding for the development of the guide had been secured in 2020 and the working group had started its work in November 2020, meeting regularly in virtual mode since then.

[43] The SC representative highlighted two issues of particular relevance to the SC. The first was that the SC may wish to consider whether it would be appropriate to revoke the explanatory document on ISPM 15 once the guide is published, as the working group had used the explanatory document as a basis for the guide, updating the information as appropriate. The second was that the guide is expected to include two stand-alone treatment manuals: one for heat treatments and one for fumigation treatments. It is hoped that the former will help to address the concerns that prompted an objection to the draft PT Heat treatment of wood using dielectric heating (2007-114) in 2019, and allow it to be finalized and adopted.

[44] The SC representative informed the SC that the working group expects to complete the drafting of the main body of the guide by the final quarter of 2021, and it would then be submitted for editing, followed by peer review, including review by the IC and SC. Publication of the main body of the guide is expected in 2022. The treatment manuals will be developed separately, over the course of 2022. Very few of the working group members have expertise applying fumigation treatments, particularly the sulphuryl fluoride treatment, so the IPPC Secretariat may issue another call specifically to seek additional experts who can contribute to the development of the fumigation treatment manual.

[45] The SC Chairperson thanked the SC representative for her update and invited comments from SC members.

[46] The SC noted that, although this is not the usual procedure for IPPC guides, the intention is to present the guide to the SC for review, because it incorporates the explanatory document on ISPM 15. This would allow the SC to decide whether to revoke the explanatory document. However, the Secretariat was not sure precisely how the guide would be presented to the SC. The SC representative following the development of the guide clarified that IPPC guides do not go for consultation.

Risks associated with the movement of sea containers and their cargoes (Sea Containers Task Force)

[47] The SC representative on the SCTF, Marina ZLOTINA (United States of America), presented an update on activities related to the risks associated with sea containers.¹¹ She started by outlining the history of work in this area by IPPC bodies, referring to the initial development of a draft ISPM on *Minimizing pest movement by sea containers* (2008-001), the publication of new industry guidance (*Code of practice*

¹⁰ 13_SC_FM_Tel_2021_Jul.

¹¹ 09_SC_FM_Tel_2021_Jul.

for packing of cargo transport units, otherwise known as the “CTU Code”) in 2014 by other international organizations, and the subsequent decision by CPM-11 (2016) to change the status of the draft ISPM to “pending” for five years because of the complexity of the issues involved. The SCTF, which included members from industry, had been established in 2017 to progress some of the issues during this period.

- [48] The SC representative summarized the activities of the SCTF over the past five years. The SCTF had increased awareness of the pest risk posed by sea containers by publishing data, provided best-practice guidance material on managing the pest risk of sea containers, and coordinated with a range of other bodies. It had ensured a mechanism for contracting parties to report to the CPM on their progress and achievements, provided advice on how the CTU Code could be updated, and encouraged national plant protection organizations (NPPOs) to inform industry about the risks associated with sea containers and possible actions that could be taken. The SCTF had also conducted a variety of communication activities and initiated a pilot project for developing countries with support from a donor agency. A range of outputs had been produced, including the Sea Container Questionnaire, although unfortunately the response rate to the questionnaire had been very low.
- [49] In 2021, the CPM had provided guidance on the remaining work programme of the SCTF,¹² which had included consideration of a potential international workshop in late 2022, development of terms of reference for a focus group to arrange the workshop, and consideration of a potential revision to the CPM Recommendation on *Sea containers* (R-06) and a potential ISPM on sea containers. The resulting SCTF work plan included further collection of data from NPPO surveys, enhanced collaboration with other bodies and further communication and awareness-raising activities.
- [50] The SC representative finished by outlining the kind of decisions to be expected from CPM-16 (2022), following the tasks set for the SCTF by CPM-15 (2021). These included potential decisions on the revision of CPM Recommendation 6, drafting of an ISPM, and holding of the international workshop.
- [51] The SC Chairperson thanked the SC representative for her presentation and invited comments on the current activities of the SCTF, noting that the CPM has not yet given consent for the draft ISPM to be progressed.
- [52] The SC representative made some suggestions on how the SC could contribute to SCTF activities. She suggested that SC members could look at the communication materials produced so far and promote these within their respective NPPOs and regions. They could also consider the problems NPPOs may face when implementing an ISPM on sea containers, if one were to be adopted, given that this may involve aspects that are outside the authority of the NPPOs. In addition, guidance may be needed on how to inspect loaded sea containers and how to conduct treatments. She also mentioned that one of the challenging issues will be to establish who should pay for the costs of cleaning containers, as pest interceptions upon arrival could arise as a result of failure to take necessary actions at any point during the preceding movement of the sea container and this movement process was long and complicated.
- [53] A few SC members, while acknowledging the importance of the issues mentioned by the SC representative, commented that it was unclear what the SC could do within its mandate until the CPM takes a decision on whether to have an ISPM on sea containers or other product such as implementation material.
- [54] One SC member suggested that as the movement of sea containers is one of the main pathways by which pests move, CPM Recommendation 6 should be retained, subject to revision, instead of adopting a separate ISPM. The SC representative supported this approach but noted that this was not a view held by all SCTF members. She suggested that the SC may wish to consider the relevant issues in readiness for whatever the CPM decides.

¹² CPM-15 (2021), agenda item 11.3.

[55] The SC acknowledged that different regions and contracting parties had their own views on the way forward and noted that the SC itself did not yet have a common view. However, the SC noted the following: the need to wait for CPM decisions on the matter; the comments made by some SC members favouring the revision of CPM Recommendation 6 over the adoption of a new ISPM; and that there were concerns about implementation of an ISPM, if one were to be adopted.

Implementation Review and Support System

[56] The SC representative on the IRSS subgroup of the IC, Álvaro SEPÚLVEDA LUQUE (Chile), presented an update on the activities of the group.¹³ In March 2021, a call for IRSS topics had been issued, soliciting ideas for IRSS activities from the CPM Bureau, the IC, the SC, regional plant protection organizations, and the Secretariat. Although the IRSS call for topics is open all the time, the deadline for submissions to be reviewed by the July meeting of the IRSS subgroup had been set as 21 July 2021. After review by the IRSS subgroup, the resulting list of topics would be presented to the IC for review at the IC meeting in November 2021. The only submission received to date was a proposal for an IRSS study on e-commerce.

[57] The SC representative informed the SC that a consultant had been engaged to look at how to transition the IRSS from a project-based funding model to a more financially sustainable basis, as the current project-based funding ended in May 2022. The report from the consultant had been received just a few days before this SC meeting. The Secretariat confirmed that the report would be shared with SC members after this meeting, and SC members wishing to comment should feed their comments through the SC representative on the IRSS subgroup.

e-commerce

[58] The IFU lead on e-commerce presented an update on Secretariat activities and plans in this area of work.¹⁴ She explained that this area of activity, which is one of the eight development agenda items, is under the oversight of the IC, but there is also the opportunity for input from SC. Much of the work to date had concerned collaboration with other international organizations, including the World Customs Organization. The World Customs Organization had produced a package of standards on e-commerce – the *Framework of standards on cross-border e-commerce* – together with various tools supporting its implementation, and although most of the standards are not relevant to plant health, some are relevant.

[59] Turning to other work related to this activity, the IFU lead referred to the IPPC guide on e-commerce that is currently being drafted and is expected to be published in 2022. An informal e-commerce network had been established and the intention was to engage the network as part of the peer-review process for the guide. A new web page on e-commerce had also been launched on the IPP, and a call had been opened for contributed resources on e-commerce.

[60] The IFU lead finished by outlining some of the new activities that are planned. The World Customs Organization's e-commerce package is open for review in 2021–2022 and the IPPC Secretariat has been invited to participate in the review process. An IRSS proposal has been submitted to characterize the current phytosanitary risks associated with e-commerce and assess how these have changed since the 2012 IRSS study, describe the extent to which the CPM Recommendation on *Internet trade in plants and other regulated articles* (R-05) has been implemented, and establish a baseline for measuring key e-commerce outcomes. Finally, further work was planned on communication and advocacy to raise awareness not only among e-commerce traders and industry but also among international agencies working at borders and with customs.

[61] The SC Chairperson thanked the IFU lead for her update and invited comments from the SC.

¹³ 14_SC_FM_Tel_2021_Jul.

¹⁴ 10_SC_FM_Tel_2021_Jul.

[62] The Secretariat pointed out that there are two topics on the *List of topics for IPPC standards* related to e-commerce and explained that this is why there is an SC representative for this area of IC work.

[63] Referring to recent discussions at the World Trade Organization Sanitary and Phytosanitary (SPS) Committee and the different approaches taken by different countries, one SC member commented that there would need to be a standard on e-commerce at some point in the future. The SC Chairperson added that the importance of this issue is already recognized by its inclusion in the IPPC Strategic Framework 2020–2030.

[64] The SC:

- (8) *noted* the update on the development of the guide to support the implementation of ISPM 15 (*Regulation of wood packaging material in international trade*) (2017-043);
- (9) *noted* the update on activities related to the risks associated with the movement of sea containers and their cargoes, including the work of the Sea Containers Task Force;
- (10) *noted* the update on the activities of the IC subgroup on the Implementation Review and Support System (IRSS);
- (11) *noted* the open invitation to submit proposals for IRSS studies and surveys through the call for IRSS topics anytime, once a suitable topic is identified;
- (12) *noted* the activities and plans related to e-commerce.

7.3 CPM Focus Group on Strengthening Pest Outbreak Alert and Response Systems

[65] The SC representative on the focus group, Mariangela CIAMPITTI (Italy), gave an update on the activities of the group.¹⁵

[66] This focus group supports the development agenda item to achieve a global pest alert system that communicates emerging pest risks and enables NPPOs to quickly adapt their phytosanitary systems in response. The group is tasked with providing recommendations on how to build an efficient and effective programme to strengthen pest outbreak alert and response systems and how to develop relevant tools, such as surveillance tools for different pests. The group is also required to estimate the financial resources needed to implement the system. The outputs from the group's work will be presented to CPM-16 (2022) and the first results presented to the next meeting of the Strategic Planning Group.

[67] The group had been set up in January 2021 and had had seven meetings so far, with numerous side meetings too. The group was working its way through the 12 tasks assigned to it. Achievements to date included an overview of the main existing alert systems on plant and animal health; fruitful discussions with experts from a wide range of backgrounds; and near completion of the first five or six tasks.

[68] The SC representative informed the SC that two issues had arisen during the group's discussions that had particular relevance to the SC: the need for a definition of "emerging pest" and other terms such as "first detector" and "biosecurity"; and the need to simplify the approval process for diagnostic protocols, to allow a more efficient and rapid response by NPPOs to emerging pests.

[69] The SC Chairperson thanked the SC representative for her presentation and recalled the previous discussions of the Technical Panel for the Glossary (TPG) and the SC on the definition for "emerging pest". He noted that the matter regarding the approval process for diagnostic protocols was also relevant to commodity standards, so is likely to be discussed by the SC in the near future anyway. He invited comments from the SC.

[70] There were no comments. The SC Chairperson encouraged SC members to contact the SC representative on the focus group if they wished to make any subsequent comments.

[71] The SC:

¹⁵ 07_SC_FM_Tel_2021_Jul.

- (13) *noted* the update on the CPM Focus Group on Strengthening Pest Outbreak Alert Response Systems.

7.4 FAO/IPPC Technical Working Group on Quarantine and Phytosanitary Measures in Relation to Trade for Global Action on Fall Armyworm Control

[72] Mariangela CIAMPITTI (Italy), who is an SC member but also a member of the technical working group, presented an update on the activities of the group.¹⁶ The FAO had launched a Global Action for Fall Armyworm (FAW) Control, which aimed to coordinate action at global, regional, national and farmer levels, reduce crop losses and prevent further spread of the pest to new areas. The Global Action covers a wide range of regions, disciplines and stakeholders, and needs a total budget of USD 500 million. It has a Global International Steering Committee, to which a Global Technical Committee reports, and the Technical Working Group (TWG) on Quarantine and Phytosanitary Measures in Relation to Trade is one of seven TWGs reporting to the Technical Committee. This TWG is concerned with the prevention objective of the Global Action and its membership includes representatives from the three regions that are the focus of the Global Action plus experts from NPPOs, academia and industry. The group first met in December 2020 and then monthly since, all in virtual mode. Outputs so far had included a webinar conducted on 9 December 2020 and preparation of draft guidelines on prevention, preparedness and response, which had been open for comments through the Online Comment System and were currently being edited. The guidelines would be presented at the forthcoming IPPC regional workshops. The TWG was also working on the revision of the FAW training materials for the webinar series.

[73] Ms CIAMPITTI highlighted two possible links with the work of the SC: the SC could support the TWG in harmonizing terminology related to the planning of prevention, preparedness and rapid response activities, in particular the terms “contingency plan”, “emergency plan”, “prevention plan”, “preparedness plan”, “action plan” and “response plan”; and the need to simplify the approval process for diagnostic protocols, to allow a more efficient and rapid response by NPPOs to emerging pests such as FAW.

[74] The SC Chairperson thanked Ms CIAMPITTI for her presentation. He commented that if any terms identified by the TWG as needing a definition were on the TPG’s work programme, then that would be a common area between the work of the TWG and the SC, but noted that the terms that are on the TPG’s work programme are those of relevance to standards. He also commented that, as with the previous agenda item, the SC should take note of the issue about the approval process for diagnostic protocols.

[75] The SC Chairperson invited comments from the SC. There were no comments.

[76] The SC:

- (14) *noted* the update on the FAO/IPPC Technical Working Group on Phytosanitary and Quarantine Measures in Relation to Trade for the Global Action on Fall Armyworm Control.

8. Any other business

[77] There was no other business.

9. Date and type of the next SC meeting

[78] The next SC meeting will be a focused meeting, scheduled for 14–15 September (FM 2021/04) in virtual mode.

¹⁶ 08_SC_FM_Tel_2021_Jul.

10. Recommendations to CPM Bureau, Strategic Planning Group or CPM-16 (2022)

[79] The SC noted that there were no recommendations for the CPM Bureau, the Strategic Planning Group or CPM-16 (2022) at this time.

11. Close of the meeting

[80] The SC Chairperson thanked SC members for their active participation and the Secretariat for organizing the meeting, and also expressed gratitude to the interpreters and the observers.

[81] The SC Chairperson closed the meeting.

Appendix 1: Agenda

N	Agenda item	Document number / link	Presenter / IPPC Secretariat support
1.	Opening of the Meeting		
1.1.	Welcome <ul style="list-style-type: none"> - By the IPPC Secretariat - By the SC Chairperson 		MOREIRA (OiC for SSU daily matters) FERRO (SC Chairperson)
2.	Meeting Arrangements		
2.1.	Election of the Rapporteur	–	Chairperson
2.2.	Adoption of the Agenda	01_SC_FM_Tel_2021_Jul	Chairperson
3.	Administrative Matters		
3.1.	Documents list	02_SC_FM_Tel_2021_Jul	MUSHEGYAN
3.2.	Participants list	03_SC_FM_Tel_2021_Jul SC membership list	MUSHEGYAN
4.	Follow-ups from previous meetings		
4.1.	Discussion on the topic Criteria for treatments for wood packaging material in international trade (as a revision of ISPM 15) (2006-010)	12_SC_FM_Tel_2021_Jul	ZLOTINA
5.	Discussions on the IPPC Strategic Framework 2020-2030		
5.1.	Recent updates and next steps on development agenda items: <ul style="list-style-type: none"> - Commodity- and pathway-specific ISPMs - Developing guidance on the use of third-party entities - Diagnostic laboratory networking 	11_SC_FM_Tel_2021_Jul	MOREIRA / CASSIN / SHAMILOV
5.2.	Updates on CPM Focus Group on Implementation Plans for the IPPC Strategic Framework 2020–2030	04_SC_FM_Tel_2021_Jul	SILVA / MANGILI
6.	Review of framework for standards and implementation		
6.1.	Background information for Framework for standards and implementation	05_SC_FM_Tel_2021_Jul	ELBADRY / MUSHEGYAN / SHAMILOV
7.	Updates and enhancing synergies and areas of collaboration		
7.1.	Implementation and Capacity Development Committee (IC)	06_SC_FM_Tel_2021_Jul	ABDELMOTTALEB / SEPULVEDA
7.2.	Updates from the IC groups and sub-groups to the SC that may impact the SC's work <ul style="list-style-type: none"> - ISPM 15 guide - Risks associated with the movement of sea containers and their cargoes (SCTF) - IRSS - e-Commerce 	13_SC_FM_Tel_2021_Jul 09_SC_FM_Tel_2021_Jul 14_SC_FM_Tel_2021_Jul 10_SC_FM_Tel_2021_Jul	ZLOTINA ZLOTINA SEPULVEDA BISHOP / PETERSON

7.3.	CPM Focus Group on Strengthening Pest Outbreak Alert and Response Systems	07_SC_FM_Tel_2021_Jul	CIAMPITTI / BRUNEL
7.4.	FAO/IPPC technical WG on quarantine and phytosanitary in relation to trade for global action on FAW control	08_SC_FM_Tel_2021_Jul	CIAMPITTI / BRUNEL / SHAMILOV
8.	Any other business		Chairperson
9.	Next meeting date and type		Secretariat / Chairperson
	- 14-15 September 2021: Tentative: Standards Committee: Focused meeting 2021/04		
10.	Recommendations to CPM Bureau, SPG or CPM-16 (if any)		Chairperson
11.	Close of the meeting		Chairperson

Appendix 2: Documents list

DOCUMENT NO.	AGENDA ITEM	DOCUMENT TITLE	DATE POSTED / DISTRIBUTED
Meeting documents			
01_SC_FM_Tel_2021_Jul	2.2	Agenda	2021-06-29
02_SC_FM_Tel_2021_Jul	3.1	Documents list	2021-06-29
03_SC_FM_Tel_2021_Jul	3.2	Participants list	2021-06-29
04_SC_FM_Tel_2021_Jul	5.2	Updates on CPM Focus Group on Implementation Plans for the IPPC Strategic Framework 2020–2030	2021-07-07
05_SC_FM_Tel_2021_Jul	6.1	Background information for Framework for standards and implementation	2021-07-07
06_SC_FM_Tel_2021_Jul	7.1	Updates from the Implementation and Capacity Development Committee (IC)	2021-07-07
07_SC_FM_Tel_2021_Jul	7.3	CPM Focus Group on Strengthening Pest Outbreak Alert and Response Systems	2021-07-07
08_SC_FM_Tel_2021_Jul	7.4	FAO/IPPC technical WG on quarantine and phytosanitary in relation to trade for global action on FAW control	2021-07-07
09_SC_FM_Tel_2021_Jul	7.2	Risks associated with the movement of sea containers and their cargoes (SCTF)	2021-07-07
10_SC_FM_Tel_2021_Jul	7.2	Updates on e-Commerce activities	2021-07-07
11_SC_FM_Tel_2021_Jul	5.1	IPPC Strategic Framework 2020-2030 development agenda items updates	2021-07-07
12_SC_FM_Tel_2021_Jul	4.1	Discussion on the topic Criteria for treatments for wood packaging material in international trade (as a revision of ISPM 15) (2006-010)	2021-07-08
13_SC_FM_Tel_2021_Jul	7.2	Updates on the ISPM 15 guide	2021-07-10
14_SC_FM_Tel_2021_Jul	7.2	Updates on the IC subgroup on IRSS	2021-07-09

Links	Agenda item	Document link
SC membership list	3.2, 5.1	SC membership list
Next meeting date and type	9	Tentative: Standards Committee: Focused meeting 2021/04

Appendix 3: Participants list

✓	Region / Role	Name, mailing address, telephone	Email address	Membership Confirmed	Term expires
✓	Africa Member	Ms Alphonsine LOUHOARI TOKOZABA Ministère de l'Agriculture et de l'Elevage, 24, rue KiéléTenard, Mfilou, Brazzaville, REPUBLIC OF CONGO Tel: +242 01 046 53 61 Tel: +242 04 005 57 05	louhouari@yahoo.fr A.louhouaritoko@gmail.com	CPM-13 (2018) CPM-15 (2021) 2 nd term / 3 years	2024
✓	Africa Member SC-7	Mr David KAMANGIRA Senior Deputy Director and IPPC Focal Point Department of Agricultural Research Services Headquarters, P.O. Box 30779, Lilongwe 3 MALAWI Tel: +265 888 342 712 Tel: +265 999 122 199	davidkamangira1@gmail.com	CPM-11 (2016) CPM-14 (2019) 2 nd term / 3 years	2022
	Africa Member	Mr Theophilus Mwendwa MUTUI Acting Director, Technical Services Division. National Biosafety Authority, Pest Control Products Board (PCPB) Building, Loresho, off Waiyaki way P.O. Box 28251-00100 Nairobi KENYA Tel: +254 20 267 8667 Mob: +254 725 294445	mutuitm@yahoo.com	CPM-15 (2021) 1 st term / 3 years	2024
	Africa Member	Mr Prudence Tonator ATTIPOE Deputy Director, Head Plant Quarantine Division. Ministry of Food and Agriculture P.O. Box AM 94 Amasaman-Accra GHANA Tel: 0209793292, 0262235397	tonattipoe@yahoo.co.uk	CPM-15 (2021) 1 st term / 3 years	2024
	Asia Member	Ms Chonticha RAKKRAI Director, Plant Quarantine Research Group, Plant Protection Research and Development Office, Department of Agriculture, 50 Phaholyothin Rd., Ladyao, Chatuchak, Bangkok, 10900 THAILAND Tel: (+66) 2561 2537 Fax: (+66) 2561 2146 Mob: (+66) 8 9128 6488	rakkrai@yahoo.com chonticha.r@doa.in.th	CPM-14 (2019) 1 st term / 3 years	2022

✓	Region / Role	Name, mailing address, telephone	Email address	Membership Confirmed	Term expires
	Asia Member	Mr. Gerald Glenn F. PANGANIBAN Assistant Director for Operations and Administration, Bureau of Plant Industry, 692 San Andres Street, Malate, Manila, PHILIPPINES Tel: +639153141568	gfpanganiban@gmail.com gerald_glenn97@hotmail.com	CPM-15 (2021) 1 st term / 3 years	2024
✓	Asia Member SC-7	Mr Masahiro SAI Senior Researcher (Head of Section) Planning and Coordination Section, Research Division Yokohama Plant Protection Station Ministry of Agriculture, Forestry and Fisheries (MAFF) JAPAN Tel: +81-45-211-7165	masahiro_sai670@maff.go.jp	CPM-13 (2018) CPM-15 (2021) 2 nd term / 3 years	2024
	Asia Member	Mr Xiaodong FENG Deputy Director of the Division of Plant Quarantine, NATESC Ministry of Agriculture No. 20, Maizidian Street, Chaoyang District, Beijing 100125 CHINA Tel: (8610)59194524	fengxdong@agri.gov.cn	CPM-13 (2018) CPM-15 (2021) 2 nd term / 3 years	2024
✓	Europe Member	Ms Olga LAVRENTJEVA Adviser of the Plant Health Department Ministry of Rural Affairs Lai tn 39 // Lai tn 41 15056 Tallinn ESTONIA Tel: 00372 518789	olga.lavrentjeva@gmail.com	CPM-15 (2021) 1 st term / 3 years	2024
✓	Europe Member	Ms Mariangela CIAMPITTI Servizio Fitosanitario DG Agricoltura Regione Lombardia Piazza Città di Lombardia 1 20124 Milano ITALY Tel: (+39) 3666603272	mariangela_ciampitti@regione.lombardia.it	CPM-14 (2019) 1 st term / 3 years	2022
✓	Europe Member SC-7	Mr Samuel BISHOP Plant Health Policy team Room 11G35 Department for Environment, Food and Rural Affairs National Agri-Food Innovation Campus Sand Hutton York North Yorkshire UNITED KINGDOM YO41 4LZ Tel: +44 (0) 2080262506 Mob: +44 (0) 7827976902	sam.bishop@defra.gsi.gov.uk	CPM-13 (2018) CPM-15 (2021) 2 nd term / 3 years	2024

✓	Region / Role	Name, mailing address, telephone	Email address	Membership Confirmed	Term expires
	Europe Member	Mr David OPATOWSKI Head, Plant Biosecurity, Plant Protection and Inspection Services (PPIS), P.O. Box 78, Bet Dagan, 50250 ISRAEL Tel: 972-(0)3-9681518 Mob: 972-(0)506-241885 Fax: 972-(0)3-9681571	dopatowski@yahoo.com davido@moag.gov.il	CPM-1 (2006) CPM-4 (2009) CPM-12 (2017) CPM-15 (2021) 4 th term / 3 years	2024
✓	Latin America and Caribbean Member	Mr André Felipe C. P. da SILVA Federal Inspector Quarantine Division Ministry of Agriculture, Live Stock and Food Supply BRAZIL Tel: (61) 3218-2925	andre.peralta@agricultura.gov.br	CPM-14 (2019) 1 st term / 3 years	2022
✓	Latin America and Caribbean Member SC-7	Mr Hernando Morera GONZÁLEZ Pest Risk Analyst Servicio Fitosanitario del Estado 300 Sur de Teletica, Sabana Sur, San José, COSTA RICA Tel: +(506) 8660-8383	hmorera@sfe.go.cr	CPM-13 (2018) CPM-15 (2021) 2 nd term / 3 years	2024
✓	Latin America and Caribbean Member SC Chairperson	Mr Ezequiel FERRO Dirección Nacional de Protección Vegetal - SENASA Av. Paeso Colón 315 C.A. de Buenos Aires ARGENTINA Tel/Fax: (+5411) 4121-5091	eferro@senasa.gov.ar	CPM-14 (2019) 3 rd term / 3 years	2022
✓	Latin America and Caribbean Member	Mr Álvaro SEPÚLVEDA LUQUE Servicio Agrícola y Ganadero División de Protección Agrícola y Forestal Av. Presidente Bulnes 140, 4 th floor, Santiago, CHILE Tel: + 56-2 234 5120	alvaro.sepulveda@sag.gov.cl	CPM-10 (2015) CPM-13 (2018) CPM-15 (2021) 3 rd term / 3 years	2024
✓	Near East Member	Ms Maryam Jalili MOGHADAM Head of Phytosanitary and Plant Quarantine Bureau, Plant Protection Organization, Agriculture Ministry. No.24, the Eastern first floor, Eastern Shahrokh Alley, Mordad Street, Golha (flowers) Square, Fatemi Square, Tehran. Postal code: 1413973143 IRAN Cel: 00989126049255	marypaya@yahoo.com jalili@ppo.ir	CPM-15 (2021) 1 st term / 3 years	2024
✓	Near East Member SC-7	Mr Nader ELBADRY Phytosanitary Specialist, Central Administration of Plant Quarantine, 6 Michel Bakhoum St., Dokki, Giza, EGYPT Tel: +201096799493	nader.badry@gmail.com	CPM-15 (2021) 1 st term / 3 years	2024

✓	Region / Role	Name, mailing address, telephone	Email address	Membership Confirmed	Term expires
✓	Near East Member	Mr Imad (M.E) Jrouh AL-AWAD Director Assistant of plant protection & Phytosanitary Department / Ministry of Agriculture. JORDAN Tel: 0096265686151 Ext. 309 Mob: 00962795363297	alawademad@yahoo.com	CPM-15 (2021) 1 st term / 3 years	2024
✓	Near East Member	Mr Mohamed Lahbib BEN JAMAA Direction of Plant Health and Control of Agricultural Inputs, 30, Rue Alain Savary, 1002-Tunis. TUNISIA Mob: +216.98.265.525	benjamaaml@gmail.com	CPM-15 (2021) 1 st term / 3 years	2024
✓	North America Member SC-7	Ms Marina ZLOTINA IPPC Technical Director USDA-APHIS, Plant Protection and Quarantine (PPQ) 4700 River Rd, 5c-03.37 Riverdale, MD 20737 USA Tel: 1-301-851-2200 Cell: 1 -301-832-0611	Marina.A.Zlotina@aphis.usda.gov	CPM-10 (2015) CPM-13 (2018) CPM-15 (2021) 3 rd term / 3 years	2024
✓	North America Member	Mr Steve CÔTÉ National Manager, International Phytosanitary Standards Plant Import/Export Division 59 Camelot Drive, Ottawa, Ontario K1A 0Y9 CANADA Tel: (+1) 613-773-7368 Fax: (+1) 613-773-7576	Steve.Cote@inspection.gc.ca	CPM-15 (2021) 1 st term / 3 years	2024
✓	Southwest Pacific Member	Ms Joanne WILSON Principal Adviser, Risk Management Plant Imports Group Ministry for Primary Industries. NEW ZEALAND Tel: +64 489 40528 Mob: +64 2989 40528	joanne.wilson@mpi.govt.nz	CPM-14 (2019) 1 st term / 3 years	2022
✓	Southwest Pacific Member SC-7	Ms Sophie Alexia PETERSON Assistant Director Plant Health Policy Biosecurity Plant Division Department of Agriculture and Water Resources GPO Box 858, Canberra ACT 2601 AUSTRALIA Tel: (+61) 2 6272 3769 Mob: +61 402 313 170	sophie.peterson@agriculture.gov.au	CPM-15 (2021) 1 st term / 3 years	2024

✓	Region / Role	Name, mailing address, telephone	Email address	Membership Confirmed	Term expires
✓	Southwest Pacific Member	Mr David Boas TENAKANAI General Manager- Technical & Advisory Division, National Agriculture Quarantine & Inspection Authority (NAQIA) P. O. Box 741, Port Moresby, NCD, PNG PAPUA NEW GUINEA Tel: (675) 3136900 Mob: (675) 74482319	DTenakanai@naqia.gov.pg dtenakanai@gmail.com	CPM-15 (2021) 1 st term / 3 years	2024

Role	Name	Email address
IC / Observer	Mr Ahmed M. Abdellah ABDELMOTTALEB	bidoeng@yahoo.com
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IPPC Secretariat	Ms Adriana MOREIRA Standard Setting Officer, OiC for SSU	Adriana.Moreira@fao.org
IPPC Secretariat	Mr Artur SHAMILOV Standard Setting Officer	Artur.Shamilov@fao.org
IPPC Secretariat	Ms Erika MANGILI ANDRÉ Standard Setting Specialist	Erika.MangiliAndre@fao.org
IPPC Secretariat	Ms Alejandra JIMENEZ TABARES Standard Setting Assistant	Alejandra.JimenezTabares@fao.org
IPPC Secretariat	Ms Aoife CASSIN Standard Setting Associate	Aoife.Cassin@fao.org
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IPPC Secretariat	Mr Edgar MUSHEGYAN Standard Setting Associate	Edgar.Mushegyan@fao.org
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Appendix 4: Framework for standards and implementation updated by IC June 2021 and SC July 2021

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 to enable the identification of gaps as guidance for the development of standards and implementation materials to support the 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. It helps identify gaps capturing the CPM priorities to guide the 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 2020-2030¹

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

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

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

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

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

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

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

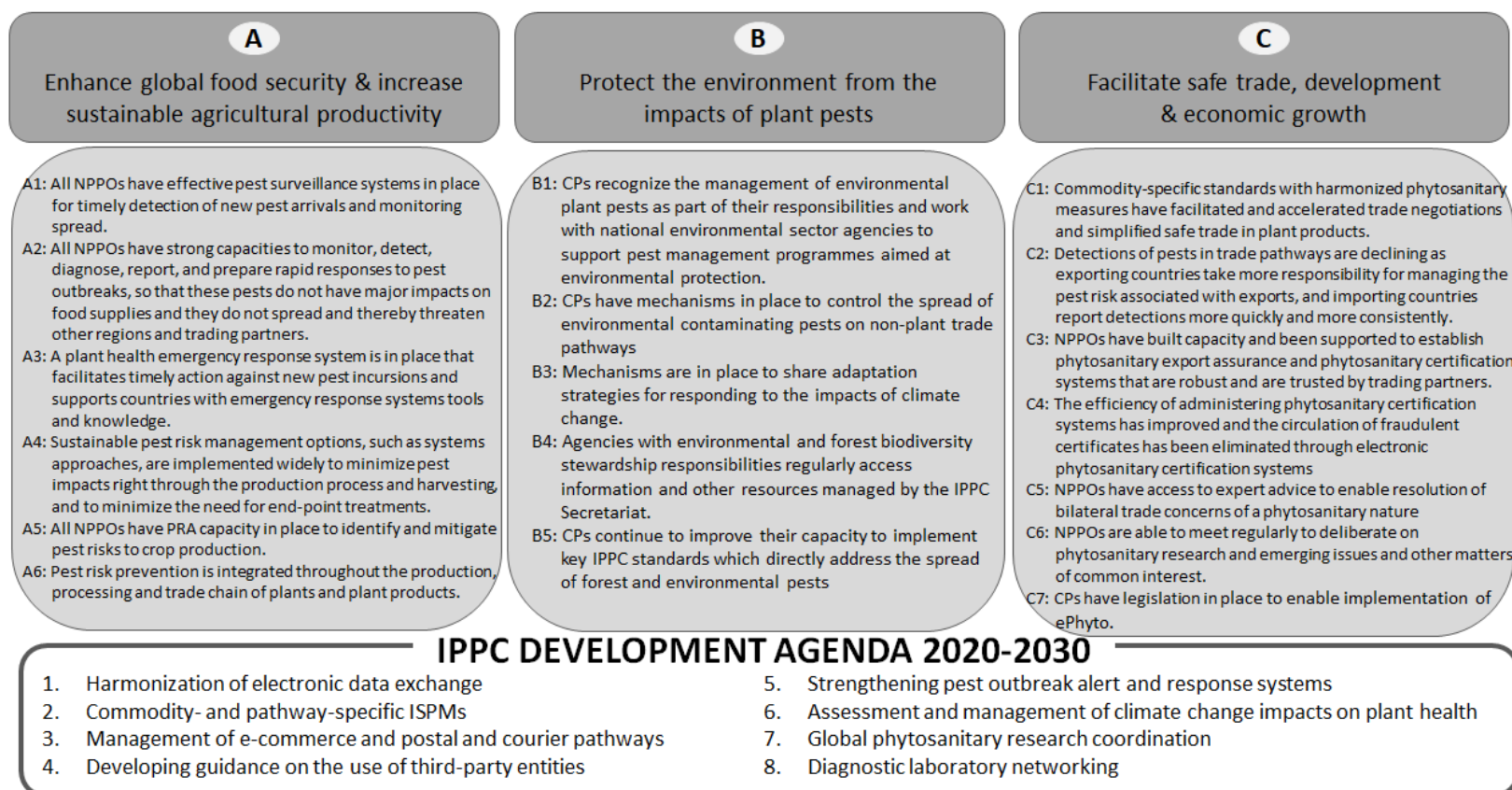
⁷ List of Implementation and Capacity Development topics: <https://www.ippc.int/en/publications/86844/>

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

⁹ 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. All topics/subjects on those two lists are covered with their CPM approved priorities.
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:**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

	Standards	Implementation
Developed materials	<ul style="list-style-type: none"> • <i>Requirements for the establishment of pest free areas (ISPM 4)</i> • <i>Surveillance (ISPM 6)</i> • <i>Determination of pest status in an area (ISPM 8)</i> • <i>Requirements for the establishment of pest free places of production and pest free production sites (ISPM 10)</i> • <i>Requirements for the establishment of areas of low pest prevalence (ISPM 22)</i> • <i>Establishment of pest free areas for fruit flies (Tephritidae) (ISPM 26)</i> • <i>Recognition of pest free areas and areas of low pest prevalence (ISPM 29)</i> • <i>Pest free potato (Solanum spp.) micropropagative material and minitubers for international trade (ISPM 33)</i> 	<ul style="list-style-type: none"> • <i>Guide, Plant Pest Surveillance (Revision)</i> • <i>Guide, Pest Free Area</i> • <i>Guide, Pest Status</i>
List of topics	<ul style="list-style-type: none"> • Revision of ISPM 4 Requirements for the establishment of pest free areas (2009-002, Priority 4) 	<ul style="list-style-type: none"> • Plant health surveillance, Portal (2015-015, Priority 1) • Surveillance of <i>Xylella fastidiosa</i>, Guide (2018-037, Priority 1) • Fall Armyworm Prevention, Guidelines and training materials (2020-010, Priority 1) • Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1) • Pest Free Areas (PFA), e-Learning course (2017-044, Priority 2)
Gaps identified	<ul style="list-style-type: none"> • Specific guidance on surveillance for a pest or a group of pests (Priority 3)¹⁰ • Specific guidance on PFA, PFPP and ALPP for a pest or a group of pests (Priority 4)¹¹ 	<ul style="list-style-type: none"> • Specific guidance on surveillance for a pest or a group of pests • Specific guidance on PFA, PFPP and ALPP for a pest or a group of pests
Supporting documents	<ul style="list-style-type: none"> • IRSS Topic: Survey on the success of implementation of PFAs (Priority 1)⁹ 	

¹⁰ Standard and Implementation material for this topic could be developed potentially simultaneously.

¹¹ 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"> • <i>Surveillance (ISPM 6 Surveillance)</i> • <i>Determination of pest status in an area (ISPM 8)</i> • <i>Pest Reporting (ISPM 17)</i> • <i>Guidelines on lists of regulated pests (ISPM 19)</i> • <i>Guidelines for Inspection (ISPM 23)</i> • <i>Diagnostic protocols for regulated pests (ISPM 27), including 29 Annexes/DPs</i> • <i>Methodologies for sampling of consignments (ISPM 31)</i> • <i>Design and operation of post-entry quarantine stations for plants (ISPM 34)</i> • <i>CPM Recommendation: The importance of pest diagnosis (R-07)</i> • <i>CPM Recommendation: Preparing to use high-throughput sequencing (HTS) technologies as a diagnostic tool for phytosanitary purposes (R-08)</i> 	<ul style="list-style-type: none"> • <i>Explanatory document ISPM 17 (Pest reporting)</i> • <i>Guide, Plant Pest Surveillance</i> • <i>Guide to delivering phytosanitary diagnostic services</i> • <i>Guide to National Reporting Obligations</i> • <i>NRO training materials¹²</i> • <i>NRO e-learning</i> • <i>Methodologies for sampling of consignments (ISPM 31)</i>
List of topics	<ul style="list-style-type: none"> • 23 subjects for the Technical Panel on Diagnostic Protocols (TPDP) on LoT as of 07/2021 	<ul style="list-style-type: none"> • Plant Pest Surveillance, Guide-Revision (2017-049, Priority 1) • Strengthening Pest Outbreak Alert and Response Systems, Programme (2017-051, Priority 1) • Inspection e-Learning course (2020-011, Priority 1) • Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1) • Pest Status Guide, (2017-048, Priority 2) • Designing plant quarantine laboratories, Reference material (2018-013, Priority 4) • Pest diagnostic, TBD (2016-015, Priority 4)
Gaps identified	<ul style="list-style-type: none"> • Revision: Pest reporting (ISPM 17) (Priority 2) • Revision: Guidelines on lists of regulated pests (ISPM 19) (Priority 2) • Requirements for diagnostics (Priority 2) 	
Supporting documents	<ul style="list-style-type: none"> • National Reporting obligations (NRO) on IPP¹³ 	

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.¹² <https://www.ippc.int/en/core-activities/information-exchange/nro-and-ipp-training/>¹³ Web page on the IPP: <https://www.ippc.int/en/core-activities/information-exchange/nro/>

Development agenda 5: Strengthening pest outbreak alert and response systems

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>Guidelines for the notification of non-compliance and emergency action (ISPM 13)</i> • <i>Pest Reporting (ISPM 17)</i> 	<ul style="list-style-type: none"> • <i>Explanatory document ISPM 17 (Pest reporting)</i> • <i>Guide on managing relationships with stakeholders</i> • <i>Guide to National Reporting Obligation</i> • <i>Guide on Pest Risk Communication</i> • <i>NRO training materials</i>¹² • <i>NRO e-learning</i>
List of topics		<ul style="list-style-type: none"> • Strengthening Pest Outbreak Alert and Response Systems, Programme (2017-051, Priority 1) • Contingency planning, Guide (2019-012, Priority 1) • Fall Armyworm Prevention, Guidelines and training materials (2020-010, Priority 1) • Surveillance and reporting obligations, e-Learning course (2020-012, Priority 1)
Gaps identified	<ul style="list-style-type: none"> • Contingency planning and emergency response (Priority 1) • Guide on Contingency Planning 	<i>Guide for emergency plan for pest outbreak</i>
Supporting documents	<ul style="list-style-type: none"> • National Reporting obligations (NRO) on IPP¹³ 	

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"> • <i>The use of integrated measures in a systems approach for pest risk management (ISPM 14)</i> • <i>Guidelines for the determination and recognition of equivalence of phytosanitary measures (ISPM 24)</i> • <i>Design and operation of post-entry quarantine stations for plants (ISPM 34)</i> • <i>Systems approach for pest risk management of fruit flies (Tephritidae) (ISPM 35)</i> 	
List of topics	<ul style="list-style-type: none"> • ISPM 38 - International movement of seeds: Annex 1 - Design and use of systems approaches for phytosanitary certification of seeds (2018-009, Priority 1) • Pest risk management for quarantine pests (2014-001, Priority 2) • Use of systems approaches in managing risks associated with the movement of wood (2015-004, Priority 3) • Efficacy of measures (2001-001, Priority 4) 	<ul style="list-style-type: none"> • Inspection of consignments for <i>Xylella fastidiosa</i> at points of entry, Guide (2018-038, Priority 1) • Pest Risk Management, Guide (2017-047, Priority 3)
Gaps identified	<ul style="list-style-type: none"> • Specific guidance on pest risk management for pests or a group of pests (Priority 3) • Clarification on the concepts of integrated measures and systems approach (Priority 4) • Specific guidance on systems approaches for commodities or pests (Priority 4) 	
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Review of the application of equivalence between phytosanitary measures used to manage pest risk in trade (2016)⁸ • Beyond the compliance tool (was developed by the ICL and will be improved Beyond compliance project) (2021)¹⁴ 	

¹⁴ Web page on the IPP: <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"> • <i>Framework for pest risk analysis (ISPM 2)</i> • <i>Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms (ISPM 3)</i> • <i>Pest risk analysis for quarantine pests (ISPM 11)</i> • <i>Regulated non-quarantine pests: concept and application (ISPM 16)</i> • <i>Pest risk analysis for regulated non-quarantine pests (ISPM 21)</i> • <i>Categorization of commodities according to their pest risk (ISPM 32)</i> • <i>Determination of host status of fruit to fruit fly (ISPM 37)</i> 	<ul style="list-style-type: none"> • e-Learning course, Pest risk analysis • Training materials on PRA
List of topics	<ul style="list-style-type: none"> • Pest risk management for quarantine pests (2014-001, Priority 2) • Criteria for the determination of host status for fruit flies based on available information (Annex to ISPM 37) (2018-011, Priority 3) • 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) • Reorganization of Pest Risk Analysis standards (2020-001) 	<ul style="list-style-type: none"> • Assessing the risk of introduction of pests with seeds, Guide (2018-036, Priority 1)
Gaps identified	<ul style="list-style-type: none"> • Economic analysis in PRA (Priority 2) • Host and non-host status (Priority 3) • Specific guidance on pest risk management for pests or a group of pests (Priority 3) • Risk communication (Priority 3) • Revision and combination of PRA standards (including ISPM 2, 11 and 21) (priority 4) 	
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Diversion from Intended Use: Consideration of the extent of the issue (2016)⁸ • External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)¹⁵ 	

¹⁵ Web page on the IPP: <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.

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms (ISPM 3)</i> • <i>Phytosanitary certification system (ISPM 7)</i> • <i>Phytosanitary certificates (ISPM 12)</i> • <i>Guidelines for a phytosanitary import regulation system (ISPM 20)</i> • <i>Guideline for inspection (ISPM 23)</i> • <i>Consignments in transit (ISPM 25)</i> • <i>Safe provision of food and other humanitarian aid to prevent the introduction of plant pests during an emergency situation (R-09)</i> 	<ul style="list-style-type: none"> • <i>Guide, Transit</i>
List of topics		<ul style="list-style-type: none"> • Developing Phytosanitary Security Procedures, Guide (2018-028, Priority1) • Inspection e-Learning course (2020-011, Priority 1) • Risk based inspection of imported consignments, Guide (2018-022, priority 2)
Gaps identified	<ul style="list-style-type: none"> • Risk based inspection of imported consignments (2018-022, Pending) • Diversion from intended use (Priority 2? to be determined) (concept standard or supplementary document) • Non-commodity specific phytosanitary treatments for regulated pests (e.g. soil drench, sterilization) (Annexes to ISPM 28) (Priority 4) 	
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Diversion from Intended Use: Consideration of the extent of the issue (2016)⁸ 	

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
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>Guidelines on the understanding of potential economic importance and related terms including reference to environmental considerations (ISPM 5 - Supplement 2)</i> • <i>CPM Recommendation: LMOs, biosecurity and alien invasive species (R-01)</i> • <i>CPM Recommendation: Threats to biodiversity posed by alien species: actions within the framework of the IPPC (R-02)</i> • <i>CPM Recommendation: Replacement or reduction of the use of methyl bromide as a phytosanitary measure (R-03)</i> • <i>CPM Recommendation: IPPC Coverage of Aquatic Plants (R-04)</i> 	
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Aquatic Plants: Their Uses and Risks - A review of the global status of aquatic plants (2012)⁸ • IRSS study: The Biosecurity approach: A review and evaluation of its application by FAO, internationally and in various countries (2016)⁸ • IRSS study: Analyzing the benefits of implementing the IPPC (2017)⁸ • External cooperation: Ozone Secretariat¹⁶ • External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)¹⁵ • External cooperation: UN Environment Programme¹⁷ 	

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

¹⁷ Web page on the IPP: <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/unesco/>

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).

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>International movement of used vehicles, machinery and equipment (ISPM 41)</i> • <i>CPM Recommendation: Sea containers (R-06)</i> 	<ul style="list-style-type: none"> • <i>Guide, Sea Container Surveys</i> • <i>Guide, Sea container supply chains and cleanliness</i>
List of topics	<ul style="list-style-type: none"> • Minimizing pest movement by sea containers (2008-001, Priority 1) • Minimizing pest movement by air containers and aircrafts (2008-002, Priority 3) • Facilitating safe trade by reducing the incidence of contaminating pests associated with traded goods (CPM recommendation 2019-001) 	<ul style="list-style-type: none"> • Sea containers, Programme (2016-016, Priority 1) • Development and implementation of regulations and legislation to manage phytosanitary risks on regulated articles for NPPOs, Guide (2018-008, Priority 1)
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> • IRSS study: The Biosecurity approach: A review and evaluation of its application by FAO; Internationally and in various countries (2016)¹⁸ • External cooperation: International Maritime Organization (IMO)¹⁸ 	

¹⁸Web 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"> • CPM Recommendation: Replacement or reduction of the use of methyl bromide as a phytosanitary measure (R-03) 	
List of topics		
Gaps identified	<ul style="list-style-type: none"> • Guidance on climate change (supplement to ISPM 11) (Priority 3) 	
Supporting documents	<ul style="list-style-type: none"> • External cooperation (Ozone Secretariat)¹⁶ 	

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"> • Guide, Managing relationships with stakeholders
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> • IRSS Topic: Antimicrobial Resistance (Priority 4)⁹ • External cooperation: Ozone Secretariat¹⁶ • External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)¹⁵ • Scientific review of the impact of climate change on plant pests 	

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
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>Pest Risk Analysis for quarantine pests (ISPM 11), Annex4</i> • <i>Regulation of wood packaging material in international trade (ISPM 15)</i> • <i>International movement of wood (ISPM 39)</i> • <i>PT 22: Sulphuryl fluoride fumigation treatment for insects in debarked wood</i> • <i>PT 23: Sulphuryl fluoride fumigation treatment for nematodes and insects in debarked wood</i> 	<ul style="list-style-type: none"> • <i>Explanatory document ISPM 15 (Regulation of wood packaging material in international trade)</i> • <i>Guide to implementation of phytosanitary standard in forestry</i> • <i>e-Learning: Trade in forest commodities and the role of phytosanitary measures</i>
List of topics	<ul style="list-style-type: none"> • Heat treatment of wood using dielectric heating (2007-114, Priority 1) • Criteria for treatments for wood packaging material in international trade (Revision of ISPM 15) (2006-010, Priority 2) • International movement of wood products and handicrafts made from wood (2008-008, Priority 2) • Use of systems approaches in managing risks associated with the movement of wood (2015-004, Priority 3) 	<ul style="list-style-type: none"> • ISPM 15 Wood packaging material, Guide (2017-043, Priority 1)
Gaps identified	<ul style="list-style-type: none"> • Revision of ISPM 15 to include fraudulent use (Priority 2) • 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) 	
Supporting documents	<ul style="list-style-type: none"> • External cooperation: The Secretariat for the Convention on Biological Diversity (CBD)¹⁵ • External cooperation: International Forest Quarantine Research Group (IFQRG)¹⁹ 	

¹⁹ 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"> Regulation of wood packaging material in international trade (ISPM 15) Guidelines for the use of irradiation as a phytosanitary measure (ISPM 18) Phytosanitary treatments for regulated pests (ISPM 28) incl 39 Annexes (PTs) Categorization of commodities according to their pest risk (ISPM 32) Pest free potato (<i>Solanum spp.</i>) micropropagative material and minitubers for international trade (ISPM 33) Integrated measures plants for planting (ISPM 36) International movement of seeds (ISPM 38) International movement of wood (ISPM 39) International movement of growing media in association with plants for planting (ISPM 40) International movement of used vehicles, machinery and equipment (ISPM 41) Requirements for the use of temperature treatments as a phytosanitary measure (ISPM 42) Requirements for the use of fumigation as a phytosanitary measure (ISPM 43) CPM Recommendation: Internet trade (e-commerce) in plants and other regulated articles (R-05) Requirements for the use of modified atmosphere treatments as a phytosanitary measure (ISPM 44) 	<ul style="list-style-type: none"> Explanatory document ISPM 15 (Regulation of wood packaging material in international trade) Explanatory document ISPM 18 (Guidelines on the use of irradiation as a phytosanitary treatment) Guide to implementation of phytosanitary standards in forestry e-Learning: Trade in forest commodities and the role of phytosanitary measures
List of topics	<ul style="list-style-type: none"> 16 subjects for the Technical Panel on Phytosanitary Treatments (TPPT) on LoT as of 07/2021 International movement of grain (2008-007, Priority 1, pending) Safe handling and disposal of waste with potential pest risk generated during international voyages (2008-004, Priority 2) International movement of cut flowers and foliage (2008-005, Priority 4, pending) Guidelines for Phytosanitary of International Mail Items (2018-014, Priority 4) Requirement for phytosanitary certificate on cross-border online-shopping plants, plant products and other regulated articles (2018-021, Priority 4) Requirements for the use of chemical treatments as a phytosanitary measure (2014-003, Priority 3) Requirements for the use of irradiation as a phytosanitary measure (Revision to ISPM 18) (2014-007, Priority 1) Commodity-based standards for phytosanitary measures (2019-008, Priority 1) 	<ul style="list-style-type: none"> e-Commerce for plants, plant products and other regulated articles, Guide (2017-039, Priority 1) ISPM 15 Wood packaging material, Guide (2017-043, Priority 1) Management of plants and plant products carried by entry passengers, Awareness materials (2018-017, Priority 2)
Gaps identified	<ul style="list-style-type: none"> Non-commodity specific phytosanitary treatments for regulated pests (e.g. soil drench, sterilization) (Annexes to ISPM 28) (Priority 4) 	<ul style="list-style-type: none"> Guidance for fumigation treatments
Supporting documents	<ul style="list-style-type: none"> IRSS study: Internet Trade (e-Commerce) in Plants: Potential Phytosanitary Risks (2012)⁸ IRSS Topic: Desk study to catalogue available phytosanitary treatments and extend of their use (Priority 3)⁹ External cooperation: Phytosanitary Measures Research Group (PMRG)²⁰ External cooperation: World Customs Organization (WCO)²¹ 	

²⁰ Web page on the IPP: <https://www.ippc.int/en/external-cooperation/organizations-page-in-ipp/phytosanitarymeasuresresearchgroup/>

²¹ Web page on the IPP: <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"> • <i>Phytosanitary certification system (ISPM 7)</i> • <i>Phytosanitary certificates (ISPM 12)</i> • <i>Guidelines for the notification of non-compliance and emergency action (ISPM 13)</i> • <i>Guidelines for a phytosanitary import regulatory system (ISPM 20)</i> • <i>Guidelines for inspection (ISPM 23)</i> • <i>Diagnostic protocols for regulated pests (ISPM 27)</i> • <i>Phytosanitary treatments for regulated pests (ISPM 28)</i> • <i>Methodologies for sampling of consignments (ISPM 31)</i> 	<ul style="list-style-type: none"> • <i>Explanatory document ISPM 31 (Methodologies for sampling of consignments)</i> • <i>e-Learning course, Phytosanitary export certification system</i> • <i>Guide, Export certification</i>
List of topics		<ul style="list-style-type: none"> • Managing non-compliant treated consignments, Guide (2018-027, Priority 2) • Risk based inspection of imported consignments, Guide (2018-022, priority 2)
Gaps identified	<ul style="list-style-type: none"> • Risk based inspection of imported consignments (2018-022, Pending) 	
Supporting documents	<ul style="list-style-type: none"> • IRSS Topic: Study on Developing Guidance on Risk-based Border Management (Priority 1)⁹ 	

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"> • <i>Phytosanitary certification system (ISPM 7)</i> • <i>Phytosanitary certificates (ISPM 12)</i> • <i>Requirements for national plant organizations if authorizing entities to perform phytosanitary actions (ISPM 45)</i> 	<ul style="list-style-type: none"> • <i>Guide, Export Certification</i> • <i>Guide, Establishing an NPPO</i> • <i>Guide, Operation of an NPPO</i> • <i>Guide, Managing Relationships with stakeholders</i> • <i>Guide to Resource Mobilization: Promoting contracting party partnerships</i> • <i>Guide, Preparing a national phytosanitary Capacity Development Strategy</i> • <i>NPPO establishment training kit</i> • <i>NPPO operations training kit</i> • <i>IPPC Introduction presentation</i> • <i>Phytosanitary Capacity Evaluation (PCE)²²</i> • <i>Training materials for PCE facilitator²³</i> • <i>Phytosanitary Capacity Evaluation (PCE) Strategy for 2020-2030²⁴</i>
List of topics	<ul style="list-style-type: none"> • Audit in the phytosanitary context (2015-014) (Priority 1) • Focused revision of ISPM 12 (Phytosanitary certificates) (2015-011, Priority 2) • Use of specific import authorization (Annex to ISPM 20) (2008-006, Priority 4) 	<ul style="list-style-type: none"> • Plant health officer training, Curriculum (2017-054, Priority 1) • Authorization of entities to perform phytosanitary actions, Guide (2018-040, Priority 2) • PCE facilitators training, Training materials (2014-008, Priority 3) • PCE tool, Modernization (2017-052, Priority 3)
Gaps identified	<ul style="list-style-type: none"> • Elements of an effective NPPO e.g. training, engagement of stakeholders, competency (Priority 1) • National legislation requirements (Priority 4) 	<ul style="list-style-type: none"> • Guidance on audit in the phytosanitary context • Guidance on non-compliance of phytosanitary certificate system
Supporting documents	<ul style="list-style-type: none"> • Guidelines for the revision of national phytosanitary legislation – FAO (2007)²⁵ • IRSS study: Authorizing entities to perform phytosanitary actions (2021)⁸ 	

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*²² <https://www.ippc.int/en/pce/>²³ <https://www.ippc.int/en/core-activities/capacity-development/phytosanitary-capacity-evaluation/training-material-on-the-phytosanitary-capacity-evaluation-pce/>²⁴ <https://www.ippc.int/en/publications/87701/>²⁵ <http://www.fao.org/3/a-bb096e.pdf>

	Standards	Implementation
<i>Developed materials</i>	<ul style="list-style-type: none"> • <i>Phytosanitary certification system (ISPM 7)</i> • <i>Phytosanitary certificates (ISPM 12)</i> 	<ul style="list-style-type: none"> • <i>Guide, Export Certification</i>
List of topics		
Gaps identified	<ul style="list-style-type: none"> • National legislation requirements (Priority 4) 	
Supporting documents	<ul style="list-style-type: none"> • ePhyto on IPP²⁶ 	

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"> • <i>Phytosanitary principles for the protection of plants and the application of phytosanitary measures in international trade (ISPM 1)</i> • <i>Glossary of phytosanitary terms (ISPM 5)</i> • <i>Guidelines for a phytosanitary import regulatory system (ISPM 20)</i> 	<ul style="list-style-type: none"> • <i>Guide, Market access</i> • <i>Explanatory document ISPM 20</i> • <i>Explanatory document ISPM 5 – Annotated Glossary</i> • <i>Guide, Import Verification</i> • <i>Guide, Establishing an NPPO</i> • <i>Guide, Operation of an NPPO</i>
List of topics	<ul style="list-style-type: none"> • 22 subjects for the Technical Panel for the Glossary (TPG) on LoT as of 07/2021 	<ul style="list-style-type: none"> • Dispute settlement, Procedures revision (1999-005, Priority 3)
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Review of the application of equivalence between phytosanitary measures used to manage pest risk in trade (2016)⁸ 	

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*

²⁶ Web page on the IPP: <https://www.ippc.int/en/ephyto/>

	Standards	Implementation
Developed materials		<ul style="list-style-type: none"> • <i>Guide on managing relationships with stakeholders</i>
List of topics		
Gaps identified		
Supporting documents	<ul style="list-style-type: none"> • IRSS study: Global emerging issues (2016)⁸ • External cooperation: Phytosanitary Measure Research Group (PMRG)²⁰ • IPPC Regional Workshops²⁷ 	

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
Developed materials	<ul style="list-style-type: none"> • <i>Phytosanitary certification system (ISPM 7)</i> • <i>Phytosanitary certificates (ISPM 12)</i> 	<ul style="list-style-type: none"> • <i>e-Learning course, Phytosanitary export certification system</i> • <i>Guide, Export Certification</i>
List of topics		
Gaps identified	<ul style="list-style-type: none"> • National legislation requirements (Priority 4) 	<ul style="list-style-type: none"> • PCE tool identified for ePhyto
Supporting documents	<ul style="list-style-type: none"> • ePhyto on IPP²⁶ 	

²⁷ Web page on the IPP: <https://www.ippc.int/en/core-activities/capacity-development/regional-ippc-workshops/>