



COMMISSION ON PHYTOSANITARY MEASURES

EIGHTEENTH SESSION

REPORT FROM THE IMPLEMENTATION AND CAPACITY DEVELOPMENT COMMITTEE

AGENDA ITEM 9.2

(Prepared by the IPPC Secretariat)

Introduction

- [1] The Implementation and Capacity Development Committee (IC) is a subsidiary body of the Commission on Phytosanitary Measures (CPM) which develops, monitors and oversees an integrated programme to support the implementation of the International Plant Protection Convention (IPPC) and strengthens the phytosanitary capacity of contracting parties. IPPC implementation also extends to the International Standards for Phytosanitary Measures (ISPMs) and the CPM Recommendations.
- [2] The IC develops, agrees and maintains a list of priorities for Implementation and Capacity Development (ICD) activities in alignment with CPM priorities. The main changes on the list of topics for ICD are presented in a separate meeting paper CPM 2024/09.
- [3] This paper provides an overview of ICD activities, for which further details are provided in other CPM papers. An infographic of all documents and related agenda items relevant to ICD activities for ease of reference is attached to this paper.

1. Governance

1.1 2023 IC meetings May and November

- [4] In 2023, the IC held its two biannual meetings in Rome, in May and November.
- [5] **In May 2023**, the IC welcomed new IC members and discussed the outcomes and key implementation issues affecting the 2023 IC workplan based on the CPM-17 (2023) discussions and decisions. The IC focused the discussions on the IC report to CPM, the IPPC Observatory, One Health and *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 (TR 4).
- [6] A virtual open session on ICD projects was organized to invite international organizations and national plant protection organizations (NPPOs) to share good practices, lessons learned and to foster synergies between organizations involved in ICD activities. Details of projects presented in 2023 by invited organizations are available on the IPP.¹

¹ IC open session on ICD projects : <https://www.ippc.int/en/news/workshops-events/webinars/ic-meeting-open-session-on-icd-projects-2023/>

- [7] During the May meeting, the IC also agreed to establish three new IC Teams: (i) to revise the CPM preparation guide, (ii) to revise the guidelines for IPPC Regional Workshop, and (iii) to support the development of guidance on the use of third-party entities.
- [8] **In November 2023**, the IC discussed the implementation of the 2023 activities of the IC Subgroup on the IPPC Observatory and IC Teams and their 2024 workplans. Achievements of these IC Teams are detailed below in section 2.
- [9] The November IC meeting was also the occasion for reviewing the List of Implementation and Capacity Development Topics, and to approve the IFU 2024 workplan². Three *ad hoc* IC Teams' meetings (e-Commerce, Phytosanitary Capacity Evaluation, and Regional Workshops guidelines) were organized as part of the November IC meeting and an interactive session was the opportunity for the IC members to brainstorm on how to improve communication on IPPC guides and training materials. The IC also established a new IC Team for Submission of Implementation Topics.
- [10] The IC discussed the outcomes from the October 2023 Strategic Planning Group (SPG) and the CPM Bureau meetings. Updates from the Technical Consultations among regional plant protection organizations (TC-RPOs), the May Standards Committee (SC) meeting, and the main outcomes of the 2023 IPPC Regional Workshops were also provided.
- [11] The IC meeting report³ and a news article have been published on the IPP⁴.

1.2 IC orientations sessions

- [12] On 12 April 2023, the IPPC Secretariat organized a virtual onboarding session to welcome the new IC members for the May 2023 to May 2026 term. The objective of the session was to ensure that the new IC members are familiarized with the mission and objectives of the IC as per the IC Terms of Reference (TOR) and Rules of Procedures (ROP), as well as with the Implementation and Facilitation Unit (IFU) of the IPPC Secretariat, the IFU workplan, and the IPPC strategic documents. This session was particularly important in view of the IC May 2023 Meeting – the first IC meeting for the new members.

1.3 Collaboration between the IC and SC

- [13] As stated in its TOR⁵, the IC collaborates with the SC to ensure that standard setting and implementation remain complementary and effective based on aligned priorities for the implementation of the IPPC.
- In May 2023, the IC discussed the implementation issues identified by the SC on the following items:
- Draft annex to ISPM 20 (*Guidelines for a phytosanitary import regulatory system*): Use of specific import authorizations (2008-006);
 - Revision of ISPM 18 (*Requirements for the use of irradiation as a phytosanitary measure*) (2014-007);
 - Revision of ISPM 4 (*Requirements for the establishment of pest free areas*) (2009-002).
- [14] To foster collaboration between the SC and IC, it was suggested that the status of observer of the IC representative to the SC needed to be addressed to make the roles of the IC and SC representatives equally balanced and to ensure reciprocity (the SC representative to the IC is considered a full member with the same rights and obligations as other members).

² IFU workplan for 2024: <https://www.ippc.int/en/publications/92976/>

³ IC November meeting report: <https://www.ippc.int/en/publications/92981/>

⁴ IC News on the IPP : <https://www.ippc.int/en/news/ippc-implementation-and-capacity-development-committee-concludes-november-2023-meeting/>

⁵ IC TOR and ROP: <https://www.ippc.int/en/publications/85672/>

- [15] The IC recognized the need to better align the IC and SC workplans. The IC also suggested that discussions on implementation issues identified by the SC should be a regular agenda item for the May IC meeting and that agenda item in the agendas for IC and SC May and November meetings be included to allow the two committees to keep each other updated and informed.
- [16] A meeting paper was developed for the 2023 November SC meeting to highlight these recommendations from the IC to the SC.

2. Activities of IC Subgroup and IC Teams

- [17] There are currently one IC Subgroup and eleven IC Teams⁶ which were established to address specific implementation and capacity development issues and to support the work of the IPPC Secretariat. Membership lists for the IC subgroup and teams are posted on the IPP.⁷

2.1 IC Subgroup on the IPPC Observatory

- [18] The IC Subgroup on the IPPC Observatory⁸ monitors and evaluates the work undertaken by the IPPC Secretariat under the IPPC Observatory and provides guidance.
- [19] In 2023, this subgroup met virtually in April, July and October. The first meeting discussed the outcomes of CPM-17 (2023), the call for IPPC Observatory topics for studies and surveys, the monitoring of the IPPC strategic framework and the development of the third IPPC general survey. The draft questionnaire for the third IPPC General Survey has been shared with the IPPC Secretariat Units. During that meeting, representatives from the World Organisation for Animal Health (WOAH) and *Codex Alimentarius* were invited to present their activities and experiences on monitoring the implementation of standards.
- [20] At its second meeting, members of the IC subgroup met to review and agree on the next steps for launching the questionnaire of the third IPPC general survey and the survey for the new e-Commerce study. The deadline to review the two questionnaires was extended. The subgroup also reviewed the IPPC Observatory list of topics for studies and surveys and provided recommendations on the way forward.
- [21] The third meeting of the IC Subgroup on the IPPC Observatory reviewed the 2023 activities undertaken in the framework of the IPPC Observatory in preparation for the IC November 2023 meeting. The Subgroup discussed progress on four priorities approved by the IC for 2023: monitoring of the IPPC Strategic Framework, the e-commerce survey, the IPPC third general survey, and the call for topics for the observatory. In addition, the Subgroup discussed the results of the antimicrobial resistance (AMR) surveys and the recurring issue of the low response rate to IPPC surveys.
- [22] During the meeting, the Subgroup reviewed and agreed on the proposed 2024 IPPC Observatory work plan which was further approved by the IC during its November 2023 meeting.
- [23] Paper CPM 2024/28 provides further details on the IPPC Observatory activities.

2.2 IC Team on National Reporting Obligations (NROs)

- [24] As part of the annual workplan implemented under the guidance of the IC, National Reporting Obligations-related activities focused on the update of the IPPC Official Contact Points (OCP) details for which 178

⁶ IC Subgroup and IC Teams: <https://www.ippc.int/en/commission/capacity-development-committee/ic-sub-group/>

⁷ Membership IC Subgroups and Teams: <https://www.ippc.int/en/publications/86851/>

⁸ IC Subgroup on the IPPC Observatory webpage : <https://www.ippc.int/en/work-area-pages/capacity-development/implementation-and-capacity-development-committee-ic/ic-teams/ic-sub-group-for-the-ippc-observatory/>

contracting parties out of 185 responded to confirm or update their respective OCP's contact details including those of their International Phytosanitary Portal (IPP) editors.

- [25] With regards to developing IPPC Contracting Parties NROs capacities, IC members delivered presentations on NROs during 2023 IPPC regional workshops and the IPPC Secretariat gave a presentation on "IPPC national reporting obligations and pest reporting" at a Webinar on pest reporting organized by the European and Mediterranean Plant Protection Organization (EPPO) in June. In addition, over 400 trainees worldwide completed the IPPC e-learning course on Surveillance and Reporting Obligations⁹ in 2023 in addition to the 460 who had already completed the course in 2022. In 2024 this e-learning course will evolve into two separate courses: one on Surveillance and one on NROs allowing learners to focus on the NROs lesson only.
- [26] The revision of the guide to National Reporting Obligations (2016) is a 2024 priority of the IC to better reflect recent changes in International Standards for Phytosanitary Measures (ISPMs), provided financial resources are identified.

2.3 IC Team on Phytosanitary Capacity Evaluation (PCE)

- [27] The PCE process is comprised of multiple phases all of which help countries evaluate their phytosanitary capacities, leading to their overall improvement. Paper CPM 2024/29 provides a detailed update on PCE activities, which includes:
- [28] **An update on recent PCE implementation in countries** - In 2023, under the EU-funded project "Strengthening Food Control and Phytosanitary Capacities and Governance (GCP/GLO/949/EC)¹⁰", eight (8) of the nine (9) PCEs have been validated, and NPPOs have been guided by PCE facilitators in developing National Phytosanitary Capacity Development Strategies. The project has been extended until December 2024, allowing two additional COMESA countries to conduct a PCE under this project. PCEs were also completed in Cambodia and in Senegal under different projects.
- [29] **Recently drafted PCE Terms and conditions** - The IFU in collaboration with FAO's legal unit, copyright unit, and data protection unit drafted initial terms and conditions document, with the intent to further aligning them with FAO rules, and further clarify the terms of ownership and management of the PCE.
- [30] **Update on the PCE Desk Study** - A service provider was hired to perform a desk study to analyse the PCE tool and process, the work began with a kick-off meeting in September 2023, and is currently at the data synthesis stage. Interviews with PCE stakeholders are planned and will provide input to help inform the study.
- [31] **PCE Communications update** - The Secretariat continues to promote the PCE through news items, features, success stories, and interviews published on the IPPC webpage, FAO Food Systems and Food Division as well as FAO country offices webpages, and through FAO Geneva's channels. Additionally, communications activities are happening via NPPO, FAO, and IPPC social media channels (Twitter, Instagram, LinkedIn, and Facebook).
- [32] The activities accomplished in 2023 and planned for 2024 are focused on achieving the key results of the PCE strategy 2020-2030, as well as providing guidance for updating the current strategy and providing a PCE roadmap in 2024.

⁹ IPPC e-learning course on Surveillance and Reporting Obligations: <https://elearning.fao.org/course/view.php?id=824>

¹⁰ Project GCP/GLO/949/EC : [Strengthening Food Control and Phytosanitary Capacities and Governance - International Plant Protection Convention \(ippc.int\)](https://www.ippc.int/)

2.4 IC Team on Fusarium TR4

- [33] CPM-17 (2023) requested that the Secretariat coordinate global action on TR4, using the proposals presented by the Latin American and Caribbean Group (GRULAC) to CPM-17 (2023)¹¹ as an initial framework.
- [34] The IPPC Secretariat drafted a document proposing activities to coordinate global action on TR4, which was presented to the Bureau's October meeting¹², the Strategic Planning Group (SPG)¹³ and the Implementation and Capacity Development Committee (IC)¹⁴. The detail of activities is provided in paper CPM 2024/30.
- [35] Among major achievements, the IC Team on TR4¹⁵ which was initially created in 2021, was reinforced in 2023¹⁶ through a call of experts and an IC e-Decision. This IC Team will reconvene in early 2024. Additionally, the global coordination of TR4 will be embedded into the Pest Outbreak Alert and Response Systems (POARS) Steering Group, with activities are planned for early 2024. A tabletop simulation exercise on TR4 was developed and delivered by the IPPC Secretariat in a face-to-face format during the 2023 IPPC Regional Workshop for Africa and was highly appreciated by participants¹⁷.

2.5 IC Team on IPPC Guides and training materials

- [36] The IC Team on guides and training materials supports the work of the IPPC Secretariat as it relates to processes for developing IPPC guides and training materials and managing the List of Implementation and Capacity Development Topics (ICD-LOT) database.
- [37] Key activities of the IC Team in 2023 included:
- revising the *Process for the development of IPPC Guides and training materials*¹⁸ to extend the annual consultation period for draft specifications for guides and training materials from the end of August to the end of September; and
 - reviewing the ICD-LOT.
- [38] Additional information on the development of IPPC guides and training materials is provided in the paper CPM 2024/26 and the updates of the ICD-LOT are detailed in paper CPM 2024/09.

2.6 IC Team on e-commerce

- [39] The IC Team on e-commerce guides the IPPC work programme for the IPPC Strategic Framework Development Agenda Item (DAI) related to the management of e-commerce and the postal and courier pathways.

¹¹ CPM 2023/CRP/08: <https://www.ippc.int/en/publications/92066/>

¹² Report. CPM Bureau (October 2023): <https://www.ippc.int/en/publications/92958/>

¹³ Strategic Planning Group (SPG) Meeting (October 2023): https://assets.ippc.int/static/media/files/publication/en/2023/11/Report_SPG-2023-Oct_2023-11-28.pdf

¹⁴ Report. IC (November 2023): <https://www.ippc.int/en/publications/92981/>

¹⁵ Terms of Reference of the IC Team on *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 (TR4) <https://www.ippc.int/en/publications/89830/>

¹⁶ IC Team on *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 membership list: <https://www.ippc.int/en/publications/91986/>

¹⁷ IPPC Spotlight: building resilience against Fusarium Tropical Race 4 (TR4) in Africa: <https://www.ippc.int/en/news/spotlight-building-resilience-against-fusarium-tropical-race-4-tr4-in-africa/>

¹⁸ Process for the development of IPPC Guides and training materials: <https://www.ippc.int/en/publications/88591/>

[40] Key activities of the IC Team in 2023 included:

- reviewing the 2024 workplan for the e-commerce DAI which was approved by the IC during its November 2023 meeting.
- providing feedback on the draft questionnaire for the IPPC Observatory e-commerce study and offering to test the survey before it is finalized and officially launched in 2024.
- collaborating with the Secretariat in developing a concept note for the CPM-18 (2024) side-session on e-commerce and assisting with its coordination, identifying speakers and promoting the side-session within their countries and regions.

[41] Additional information on the IPPC Strategic Framework DAI related to e-commerce is provided in CPM 2024/17.

2.7 IC Team on the use of third-party entities

[42] Oversight of the DAI on authorization of entities was transferred from the Standards Committee (SC) to the IC at CPM-17 (2023). During their May meeting, the IC established an IC Team to provide guidance on this DAI. The IC Team will provide oversight for the development of two related IPPC guides: *Phytosanitary audits* (2021-009) and *Authorizing entities to perform phytosanitary actions* (2018-040). The IC Team is expected to meet in early 2024.

[43] Additional information on the IPPC Strategic Framework DAI related to guidance on the use of third-party entities is provided in CPM 2024/18.

2.8 IC Team on the revision of the Guidelines for IPPC Regional Workshops

[44] The *Guidelines for IPPC Regional Workshops*¹ were developed in 2019, agreed by CPM Bureau in June 2018, noted by CPM-14 (2019), and were considered as outdated by IC members who provided support in IPPC regional workshops. During the May 2023 meeting, the IC therefore established a new IC Team to revise the *Guidelines for the IPPC Regional Workshops*. The membership list of the IC Team including the representatives from each IPPC Secretariat unit, is posted on the IPP.²

[45] Based on the results and discussion of the final evaluation survey for 2023 IPPC Regional Workshops, the IPPC Secretariat performed an initial revision of the guidelines while ensuring they remain flexible enough to accommodate the specificity and needs of all IPPC Regional Workshops. The IC Team met remotely twice in October 2023, which resulted in additional revisions.

[46] The revised draft guidelines were presented to the IC during its November 2023 meeting. The IC noted the activities undertaken for the revision of the guidelines and thanked the secretariat and the IC Team on the *Guidelines for IPPC Regional Workshops* for the revision. Noting the draft revision of the guidelines, the IC requested the secretariat to send the draft *Guidelines for IPPC Regional Workshops* for consultation for two weeks in Online Comment System (OCS) and to invite the Bureau, SC, IC, the IPPC Secretariat, and the 2023 IPPC Regional Workshops organizing committee members to review the draft document and submit their comments. The IC noted that inviting key stakeholders involved in the organization of the IPPC regional workshops would ensure a robust review and provide relevant input into the document.

[47] The draft guidelines were open for consultation from 17 November to 4 December 2023, and more than 250 comments were received.

[48] The IC Team along with the IPPC Secretariat representatives met in December 2023, and in January 2024 to review the comments, and agree on further revisions. The final meeting of the team took place in February 2024, during which the team agreed on the final version of the guidelines. The final revised version of the *Guidelines for IPPC Regional Workshops* were then copyedited and are presented to CPM-18 as attachment 02 to this paper in 2024/41_02 in English only.

- [49] The process for the revision of the *Guidelines for IPPC Regional Workshops* represents a fruitful coordination and collaboration both, between the IPPC Secretariat units, and between the IPPC Secretariat and the relevant members of the IPPC phytosanitary community.

2.9 IC Team developing the CPM participation guide

- [50] During their May 2023 meeting, the IC established a new IC Team to revise the *IPPC Manual of good practices for participation in CPM*¹⁹, which was published in 2015 and is outdated. The IC considered this to be a high priority topic and requested that the IC Team starts developing the new *Guide to participation in CPM* (2023-001) as soon as possible. The IC Team also helped preparing the concept note for the NPPO orientation session that took place during CPM-18 and recommended to the Secretariat that interpretation for the orientation session should be provided in all FAO languages to ensure that all participants can benefit from the session. The IC Team members agreed to assist with coordination, identifying speakers and promoting the side-session within their countries and regions. During the November 2023 meeting, the IC agreed that the CPM-orientation session should be presented on an annual basis to provide guidance to new CPM participants and optimize their participation in CPM.

2.10 IC Team on contributed resources

- [51] The IC team had met virtually in February, June and July 2023 to discuss and agree on reviewed contributed resources to be posted to the IPP. The IC team reviewed 13 contributed phytosanitary resources from November 2022 to July 2023 and agreed that nine resources met the criteria and could be posted on the IPP. Three resources are currently pending revision.

- [52] More information on contributed resources is available on the IPP²⁰.

2.11 IC Team on projects

- [53] The IC Team on Projects issued the call for Implementation and Capacity Development (ICD) projects in February 2023. The IC Team reviewed submitted projects that are not under the purview of the IC but are led by other international organizations involved in ICD. The Team selected eight projects to be presented during a webinar session that took place on the margins of the IC May meeting. Descriptions of submitted projects and presentations delivered at the open session are available on the IPP.²¹

- [54] Additional information on the projects managed by the IPPC Secretariat is presented under CPM 2024/27.

2.12 IC Team for Submission of Implementation Topics

- [55] During their November meeting, the IC established an IC Team for Submission of Implementation Topics having the aim to review and simplify the submission forms for implementation materials as well as the submission form for the IPPC Observatory topics for studies and surveys.

- [56] The IC team met in January 2024 and the proposed revisions to the forms will be submitted to the Task Force on Topics in preparation for the 2025 Call for topics for Standards and Implementation.

3. IC recommendations to CPM-18

- [57] During the November 2023 meeting, the IC agreed on key recommendations to be raised to CPM-18.

¹⁹ IPPC Manual of good practices for participation in CPM: <https://www.ippc.int/en/publications/90637/>

²⁰ Contributed resources : <https://www.ippc.int/en/about/core-activities/capacity-development/guides-and-training-materials/contributed-resource-list/>

²¹ Implementation and Capacity Development projects: <http://www.ippc.int/en/core-activities/capacity-development/projects-on-implementation-and-capacity-development/>

- [58] In terms of resources for implementation, the IC highlighted the need to allocate resources for Pest Outbreak Alert and Response System (POARS) activities and to identify additional resources for the following under-financed activities of the Secretariat: NROs, TR4 global coordination, and the IPPC Observatory. The IC also raised the importance of organizing resource-mobilization activities, to ensure the sustainability of the PCE programme.
- [59] For promotion of implementation activities, the IC highlighted the need to address the low response rate to the IPPC Observatory surveys. The IC also recommended that the IPPC Regional Workshops be promoted as a platform to identify and discuss IPPC implementation issues.
- [60] In addition, the IC invited the IPPC Community to promote the IPPC contributed resources and case studies that are included in different IPPC guides and training materials through the IPP component pages²².

4. Communication on implementation resources

- [61] In 2023, the IC paid a particular attention to the importance of communication on technical resources available for IPPC implementation. An IFU-specific Communications Content Calendar was developed, identifying specific monthly topics of interest, with a focus on IC priorities endorsed in 2023, namely:
- IPPC guides on e-Commerce and on Wood Packaging Material;
 - Project (GCP/GLO/949/EC) Strengthening food control and phytosanitary capacities and governance;
 - Project (GCP/INT/291/CPR) Strengthening the Capacity Development of Contracting Parties for the Implementation of the IPPC under the Framework of the FAO-China South- South Cooperation Programme;
 - Emergency response and preparedness.
- [62] Each topic included in the IFU Communications Content Calendar is supported with communication campaigns, across the most relevant communications mediums and channels with the objective of increasing reach and awareness.
- [63] During the November 2023 meeting, the IC organized an interactive group session to brainstorm on how to improve communication on the IPPC implementation resources and identify key events and opportunities to better promote IPPC guides and training materials.
- [64] In 2023, multiple webinars were organized on: newly published IPPC guides and e-learnings, ePhyto, IPPC Call for Topics and national and regional and global ICD projects presented at the IC Open Session on Projects. Additionally, the Secretariat joined the FAO office in Geneva's hybrid webinar on 24 November 2023, titled "One Health and Plant Health: Strengthening Phytosanitary Systems Worldwide". Paper CPM 2024/26 provides additional information about implementation plans and other activities undertaken to promote the use of IPPC guides and training materials and details some of the outcomes of these efforts.

5. Recognition of Working Group members

- [65] Developing IPPC guides and training materials is a huge undertaking and requires an enormous time commitment from each working group (WG) member, the IC lead and the Secretariat. The IC would like to invite the CPM to recognize the outstanding contributions and thank the working group members who contributed to the development of the four IPPC guides that were published in 2023.

²² Phytosanitary component pages : <https://www.ippc.int/en/centre-of-excellence/phytosanitary-system/>

Recommendations

[66] The CPM is invited to:

- (1) *note* the work of the Implementation and Capacity Development Committee in 2023;
- (2) *note* the outcomes of the 2023 meetings of the Implementation and Capacity Development Committee;
- (3) *note* the activities of the IC Subgroup on IPPC Observatory;
- (4) *note* the activities and updates of the following IC Teams:
 - National Reporting Obligations
 - Phytosanitary Capacity Evaluation
 - Fusarium TR4
 - IPPC Guides and training materials
 - e-commerce
 - The use of third-party entities
 - IPPC Regional Workshop guidelines
 - Developing the CPM participation guide
 - Contributed resources
 - Projects
 - Submission of Implementation Topics
- (5) *note* the revised *Guidelines for IPPC Regional Workshops* presented in 2024/41_02;
- (6) *encourage* contracting parties to provide resources for Pest Outbreak Alert and Response System (POARS) activities and the other under-financed activities such as NROs, TR4 global coordination, the IPPC Observatory and PCE sustainability.
- (7) *request* the IPPC Regional Workshop organizing committees to include activities dedicated to identify and discuss IPPC implementation issues.
- (8) *invite* the contracting parties to promote the IPPC contributed resources and case studies that are included in different IPPC guides and training materials.
- (9) *support* the efforts to improve the communication on IPPC guides and training materials.
- (10) *thank* the following experts for their outstanding contributions to the development of the following IPPC guides:
 - ***Emergency preparedness – A guide for developing contingency plans for outbreaks of quarantine pests***²³:
 - Matthew Everatt (United Kingdom)
 - Derek Mccann (United Kingdom)
 - Rendani Thovhogi (South Africa)
 - Ali Heydari (New Zealand)
 - Cheryl Grgurinovic (Australia)
 - Francisco Gutierrez (Belize)
 - ***Prevention, preparedness and response guidelines for Fusarium Tropical Race 4 (TR4) of banana***²⁴:

²³ Guide emergency preparedness: <https://www.fao.org/documents/card/en/c/cc4820en>

²⁴ TR4 guide: <https://www.fao.org/documents/card/fr?details=CC4865EN>

- Rhiannon Evans (Australia)
- Monica Gallo Lara (Ecuador)
- Magda Gonzalez (Costa Rica)
- Gert Kema (Kingdom of the Netherlands)
- Morag Webb De Gonzales (United Kingdom)
- Sospeter Gachamba (Kenya)
- Wassim Habib (Lebanon)
- ***Guide to regulation of wood packaging material – Understanding the phytosanitary requirements for the movement of wood packaging material in international trade***²⁵:
 - Corrado Cremonini (Italy)
 - Marcel Dawson (Canada)
 - Scott Geffros (Canada)
 - Brad A. Gething (United States of America)
 - Christopher Howard (Australia)
 - Mohamed Magdy (Egypt)
 - Vinod Pandit (India)
 - Debora Maria Rodrigues Cruz (Brazil)
 - Faith Ndunge (Kenya)
- ***E-commerce – A guide to managing the pest risk posed by goods ordered online and distributed through postal and courier pathways***²⁶:
 - Allan Burne (New Zealand)
 - Bruno Gallant (Canada)
 - Miia Pasanen (Finland)
 - Adele Pierre (Guyana)
 - Shane Sela (World Bank Group)
 - Sanniel Wilson Graham (Jamaica)
 - Thorwald Geuze (Kingdom of the Netherlands)

²⁵ Guide to regulation of wood packaging material: <https://www.fao.org/documents/card/en?details=cc5059en>

²⁶ E-commerce guide: <https://www.fao.org/documents/card/en?details=cc8209en>