



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



IPPC Global Workshop on Systems Approaches

Santiago, Chile
1 – 4 December 2025

In partnership with:



Canada



Australian Government
Department of Agriculture,
Fisheries and Forestry

Implementation of Integrated Measures in System Approaches for Pre-Border Plant Quarantine Strategic in Indonesia

Dr. Antarjo (Indonesia Quarantine Authority)



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



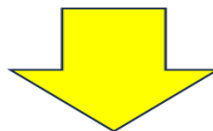
IPPC Global
Workshop
on Systems
Approaches

INTERACTION OF AGREEMENTS.....?

HARMONIZATION

WTO AGREEMENT ON SPS >>

**PROTECTION OF HUMAN HEALTH, ANIMAL, PLANT
LIFE AND HEALTH << CODEX, WOA, IPPC**



**WTO TRADE FACILITATION AGREEMENT >> REDUCTION OF COSTS
OF CLEARANCE GOODS FOR IMPORT AND EXPORT,
DELAYED, SLOWING TRADE FLOW, ADDING COSTS, **RISK
MANAGEMENT SYSTEM TAKEN PLACE****





Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



IPPC Global
Workshop
on Systems
Approaches

INDONESIA PLANT BIOSECURITY CONCERN : LAW NO. 21 OF 2019

- PLANT PROPAGATION MATERIAL
- PLANT PRODUCTS
- BENEFICIAL ORGANISM/BIOLOGICAL CONTROL AGENTS
- PLANT QUARANTINE PESTS
- INVASIVE ALIENS SPECIES
- ENDANGER SPECIES (PROTECTING REGULATED PLANTS AND ANIMALS)
- CONTAMINATED SOIL, ORGANIC MATERIAL
- PALLETS, WOOD PACKAGING
- EMPTY CONTAINER (POTENTIAL INTRODUCTION OF PESTS)
- FRESH OF PLANT PRODUCTS ORIGIN (FOOD SAFETY)
- GENETIC RESOURCES >> TISSUE CULTURE (SEED GENETIC RESOURCES)



PLANT HEALTH ASSURANCE FOR HARMONIZATION (IMPORTATION)

PRE- BORDER:

- Risk Analysis – Phyto. Requirement
 - Pre-Shipment Inspection
 - Pest Free Area/Production Place/Production Sites
 - Pre-Clearance Program
 - **Integrated Phyto. Measures in System Approach in the Exporting Country**
 - Intermediate Quarantine
- >>PRIORITY COMMODITY
>>CONTROLLING NON-REGULATED QUARANTINE ARTICLES

BORDER:

- Phytosanitary Measures at Ports/Airport/Land Border of Indonesia
- Accompanied with Phytosanitary Certificate
- Designated Entry Point
- Quarantine Facility of Airlines (Air Cargo)
- Land Border Check-Point

POST BORDER:

- Surveillance of Pests
- Post Entry Quarantine
- Quarantine Depo
- Quarantine Installation

HARMONISATION = TRANSPARANCE + INOVATION FOR MITIGATION OF RISK



KEY-POINT OF ISPM 14 SYSTEM APPROACHES

PEST RISK ANALYSIS

**ALOP/ALOR, TECHNICAL JUSTIFICATION MINIMAL IMPACTS,
TRANPARANCY, EQUIVALENCY, RECOGNITION, NON-
DISCRIMINATION, CATAGORIZATION RISK OF COMMODITY**

RISK MANAGEMENT

SUPPLY CHAIN OF PHYTOSANITARY CERTIFICATION (CRITICAL POINT, PATHWAY AND MITIGATE RISK)

**PEST STATUS,
FARM (GAP),
PEST CONTROL
(IPM),
HARVESTING, GOOD
TRANSPORT**

**PACKING HOUSE,
CLEANING,
SORTATION,
GRADING,
PACKAGING,**

**TRANSPORTATION,
CLEANED
CONTAINER, PHYTO.
CERTIFICATE,**

**PHYTO. CERTIFICATE,
CLEANCE DOCUMENT
BEFORE ARRIVAL,
PRIOR NOTICE, NNC**

**PHYTO. TREATMENT IN CRITICAL PART, KINDS OF PESTS, EPIDEMIOLOGY,
APPLICATION OF INTERGATED MEASURES OR SINGLE,**



Food and Agriculture
Organization of the
United Nations



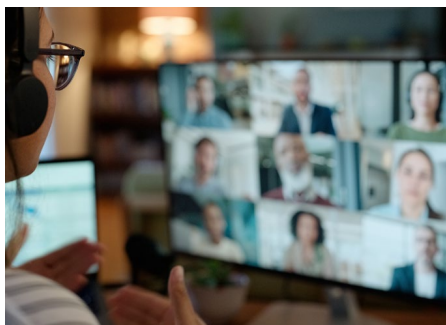
International
Plant Protection
Convention



IPPC Global
Workshop
on Systems
Approaches

RISK ANALYSIS PROCEDURE FOR PHYTOSANITARY REQUIREMENTS

**PEST LIST >> POTENTIAL PEST >> RISK ASSESSMENT >>
QUARANTINE PESTS >> RISK MANAGEMENT**



**PHYTOSANITARY REQUIREMENTS,
REGULATED NON-QUARANTINE PEST,
FOOD SAFETY REQUIREMENTS**



**RISK COMMUNICATION BOTH NPPOs AND
BILATERAL PROTOCOL FOR PHYTOSANITARY
ARRANGEMENT**



TRACEABILITY IN THE SUPPLY CHAIN – HACCP

Good Agri. Practice (GAP):

Qualified Seed,
Resistance Variety,
Integrated Pest
Management,
Monitoring,
Surveillance,
Documenting,
Recording,
Registered
Farmers, Certified
Good Agriculture
Practice

Good Transport Practice (GTP) :

Closed Trucking,
Without
Reinfestation,
Recording,
Documenting,
Certified Clean
Container,
Register of
Certified Good
Transp. Practice

Good Handling Practice (GHP):

Cleaning, Sortation,
Grading, Packaging,
Necessary Treatment,
Documentation and
Recording, Refer to
SOP of Quarantine
requirements,
Register of Certified Q's
Packing House

QUALITY AND TRACEABILITY:

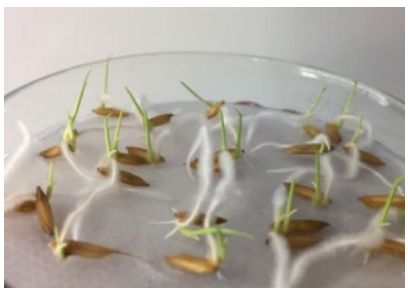
Standard Quality
for Quarantine incl.
free from rotten,
plant debris, other
inert matters,
physical damage,
free Quarantine
Pests,
Controlling Food
Safety for Fresh
Products,

QUARANTINE MEASURES:

Free from Q's
Pests, Well
Documented,
Certified Lab.
Testing, Traceable
product, Certified
Phyto. Treatment,
Certified Packaging,
Prior Notice, e-
Phyto. Certificate

EXPORT FACILITATION

PHYTO. CERTIFICATION SYSTEM: FARM, COMPETENT THIRD PARTY FOR GAP, GTP,
PHYTO. TREATMENT, QUARANTINE FACILITY, TRACEABILITY, VERIFICATION/AUDIT
SYSTEM, COMPLIANCE, REWARD AND PUNISHMENT



PRE-BORDER STRATEGIC

PRE-SHIPMENT INSPECTION : China,

- Field Inspection and Laboratory Testing for Virus
- Importation of rice seeds in big volume for planting
- Seed borne pathogen (virus: Rice Dwarf Virus, Rice Stripe Virus, Rice Yellow Stunt Nucleorhabdovirus, Rice Black-Streaked Dwarf Virus, Barley Stripe Mosaic Virus,



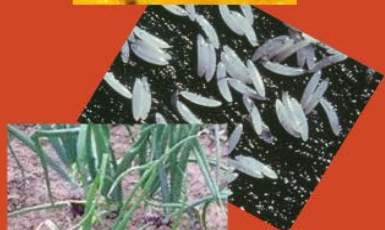
PRE-BORDER STRATEGIC



PEST FREE AREA :

Ceratitidis capitata

- USA (California): Orange, Apple, Pear, Grape
- Pakistan (Sargodha): Orange (Kinnow)
- South Korea : Pear



Ditylenchus dipsaci, D. destructor, Meloidogyne hapla, , Aphelencoides fragariae

- New Zealand

Ditylenchus dipsaci, D. destructor, Meloidogyne hapla, M. chitwoodi, Aphelencoides fragariae

- Netherland (Zealand, Flavoland) : Onion

Ditylenchus dipsaci, D. destructor, Meloidogyne hapla,

- Thailand and Philippine : Shallot



Food and Agriculture
Organization of the
United Nations

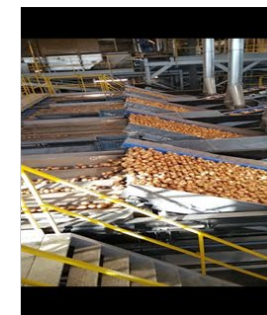


International
Plant Protection
Convention



IPPC Global
Workshop
on Systems
Approaches

FIELD VERIFICATION PROCESS OF INTEGRATED MANAGERMENTS

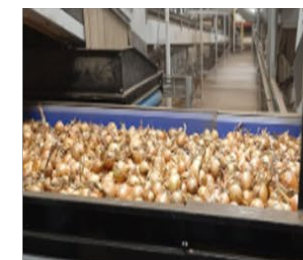
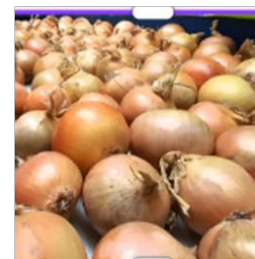


QUARANTINE PRE-
BORDER

SYSTEM APPROACH BY INTEGRATED PHYTO. MEASURES

FROM FARMS >> READY TO
EXPORT BY INTEGRATED SYSTEM
APPROACHES UNDER VERIFICATION
AND AUDIT SYSTEM

FOR FOOD CONSUMPTION PURPOSES





Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



IPPC Global
Workshop
on Systems
Approaches

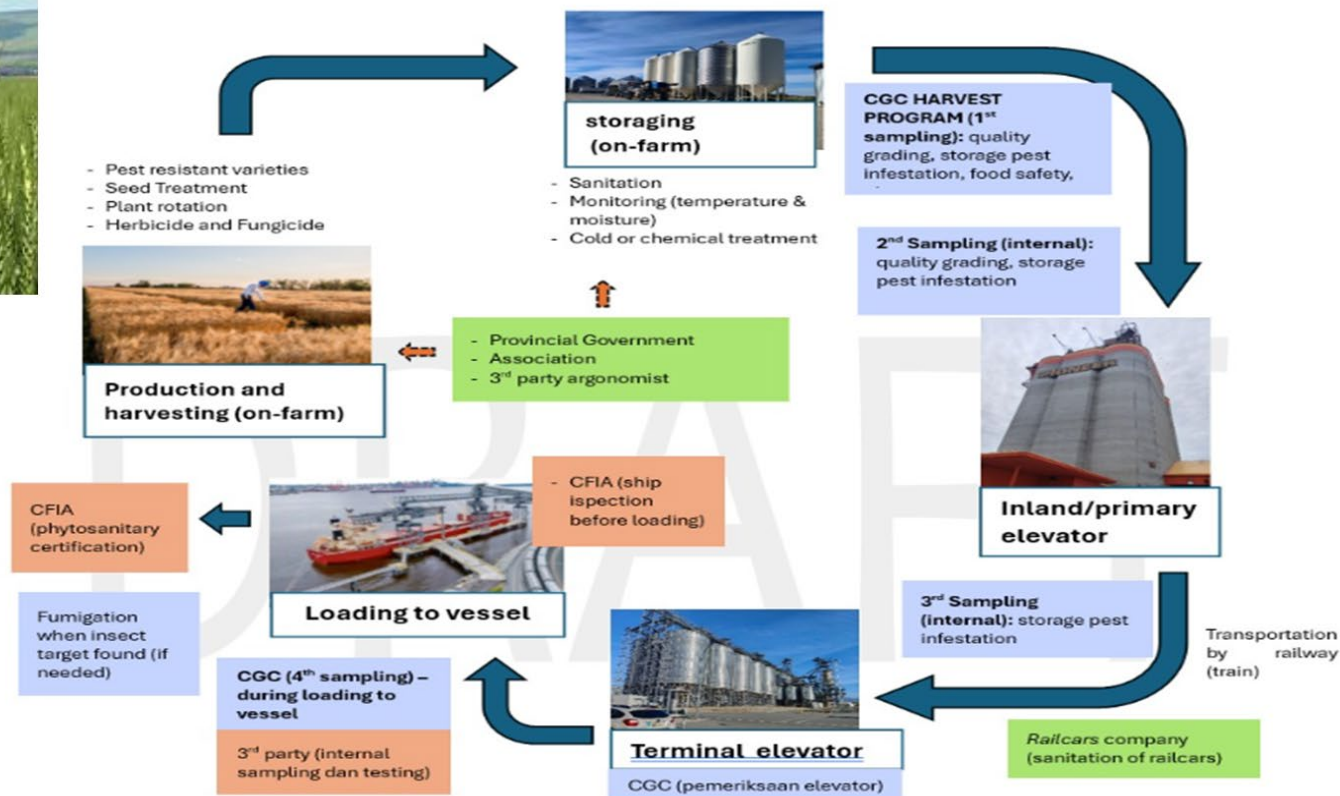
INTEGRATED MEASURES OF *SITOPHILUS GRANARIUS* FOR WHEAT CONSUMPTION (CANADA)



CANADIAN GRAIN COMMISSION



Replacement
of Methyl
Bromide





Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



IPPC Global
Workshop
on Systems
Approaches

IMPORTATION OF GENETIC RESOURCES:

- PEST FREE OF PLACE PRODUCTION (SEED GARDENS)
- VERIFICATION SEED GARDEN, EXPLORATION, LABORATORY TESTING
- PHYTO. TREATMENT
- INTERMEDIATE QUARANTINE (THIRD COUNTRY) FOR PHYTO. MEASURES
- POST ENTRY QUARANTINE (LABORATORY TESTING)



OIL PALM SEEDS : COSTA RICA, PAPUA NEW GUINEA, TANZANIA,



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



IPPC Global Workshop on Systems Approaches

Santiago, Chile
1 – 4 December 2025

In partnership with:



Australian Government
Department of Agriculture,
Fisheries and Forestry

Thank you