

Xylella fastidiosa &
ISPM14 & Beyond Compliance Global
Project

Production Chain, Decision Support for Systems Approach

- There are **Exporting** and **Importing** (or even **Transiting**) of Different Agricultural Commodities
- Those **Trading Activities** have been the main issues among the **Contracting Different Parties** under the **International Plant Protection Convention Canopy**
- That **Canopy** contained of set of **Standards** they called International Standards for Phytosanitary Measures (**ISPMs**)
- The main Goal of those standards is: the **Plant Health** (**preventing** pests to enter, establish & to spread...) and yet...
- **Facilitating** the Agricultural Different Commodities among the Contracting Parties...



- One of the ISPMs is; **ISPM14**, “The use of integrated measures in a systems approach for **Pest Risk Management**”
- Scope

Guidelines for the **development** and **evaluation** of **integrated measures** in a **systems approach**

as an option for **Pest Risk Management (PRM)** under the relevant international standards for **Pest Risk Analysis (PRA)** designed to meet phytosanitary importing requirements for plants, plant products and other regulated articles.



• **Outline of Requirements : those being provided by:**

ISPM 2 (pest risk analysis) &...

ISPM11 (pest risk analysis for quarantine pests) &...

ISPM 21 (pest risk analysis for regulated non-quarantine pests) &...

ISPM 4 (requirements for the establishment of pest free areas)

&...

ISPM 5 (Glossary of phytosanitary terms)



References;

Codex Alimentarius. 2003,
COSAVE. 1998,
IPPC. 1997,
WTO. 1994.

Pest Risk Analysis
Pest Risk Assessment
Pest risk Management
(ISPM 2, 11, 21, 4, Plus 5)=
ISPM14

ISPM14 =
Systems Approach =
“Production Chain, DSSA,
CCP”

**Facilitating of Agricultural
Commodities Trade**

Systems Approach:

- **May be** composed of independent and dependent measures
- **Must have** at least “Two Independent Measures” acting independently, with a cumulative effect... we can reach the Final **Required Results**

An independent measure **may be composed of several dependent measures**

Types of Systems Approaches:

- Simple combination of independent measures
- Critical control point systems

Systems Approach:

Systems approaches **range in complexity**.

The application of **critical control points** (CCP) system in a systems approach may be useful to **identify** and **evaluate points** in a pathway where **specified pest risks** can be **reduced** and **monitored**

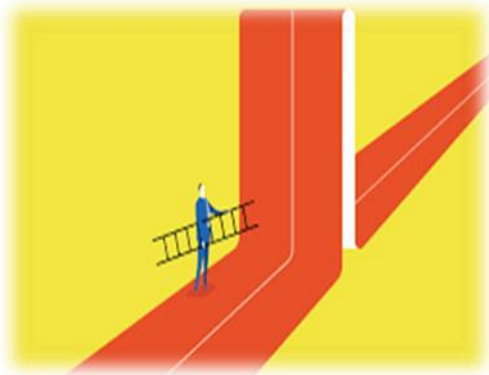
Exporting and importing countries may consult and cooperate in the development and implementation of a systems approach

The decision regarding the acceptability of a systems approach lies with the importing country, subject to consideration of **technical justification, minimal impact, transparency, non-discrimination, equivalence, and operational feasibility**

A systems approach is usually designed as an **option** that is **equivalent** to but **less restrictive than other measures**

Challenges

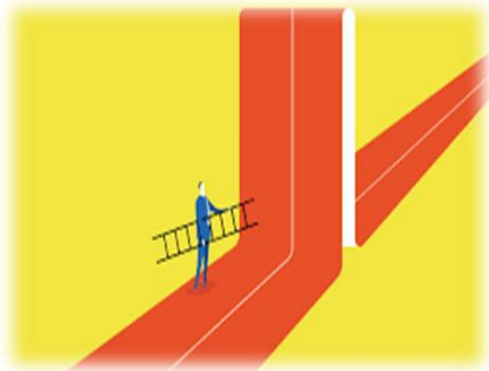
- Describing a system
 - **Pest and Control Models** implied in Production Chain
 - **Equivalence of measures** in a system
- How to:
 - **Organize** a system
 - **Maintain** high quality products along the whole system
 - **Negotiate** a system
 - **Running** a system
- **How to : find the Management Options** that will keep free trade "**safe**"



Challenges

Yet **How to** :

- reach the **Evaluation of Management Options** by selecting the **Best Phytosanitary Measures** or...
- **Combine such a Certain Measures**, to apply to trade or other pathways to achieve an appropriate level of protection – is **often the Weakest Part of the PRA Process**
- There has been **relatively little support** for **Capacity Building in the decision-making process** for the **Pest Risk Management Phase of PRA** since the “initiation of the harmonized PRA approach”



Challenges have been Overcome by BCG Project

- **Beyond Compliance Global Project** is an IPPC project funded by **STDF*** and implemented with **ICL **** proposes :
- to **Develop and Test a Decision-Support Tool** to apply a **Systems Approach to Pest Risk Management**, which would:
- directly support **Implementation of International Standards for Phytosanitary Measures (ISPM) no. 14** (Use of integrated measures in Systems Approach for pest risk management)
- * Standards and Trade Development Facility (STDF)
- **Imperial College London (ICL)

Beyond Compliance approach - Five steps

I. PRA links from **assessment** to **management**

- But often poor connection in PRA

II. **Stakeholder** interaction frameworks

- Practices, Options and Performance

III. **Production chains**

IV. **Decision Support System**: Risk Management

V. **Critical Control Points**



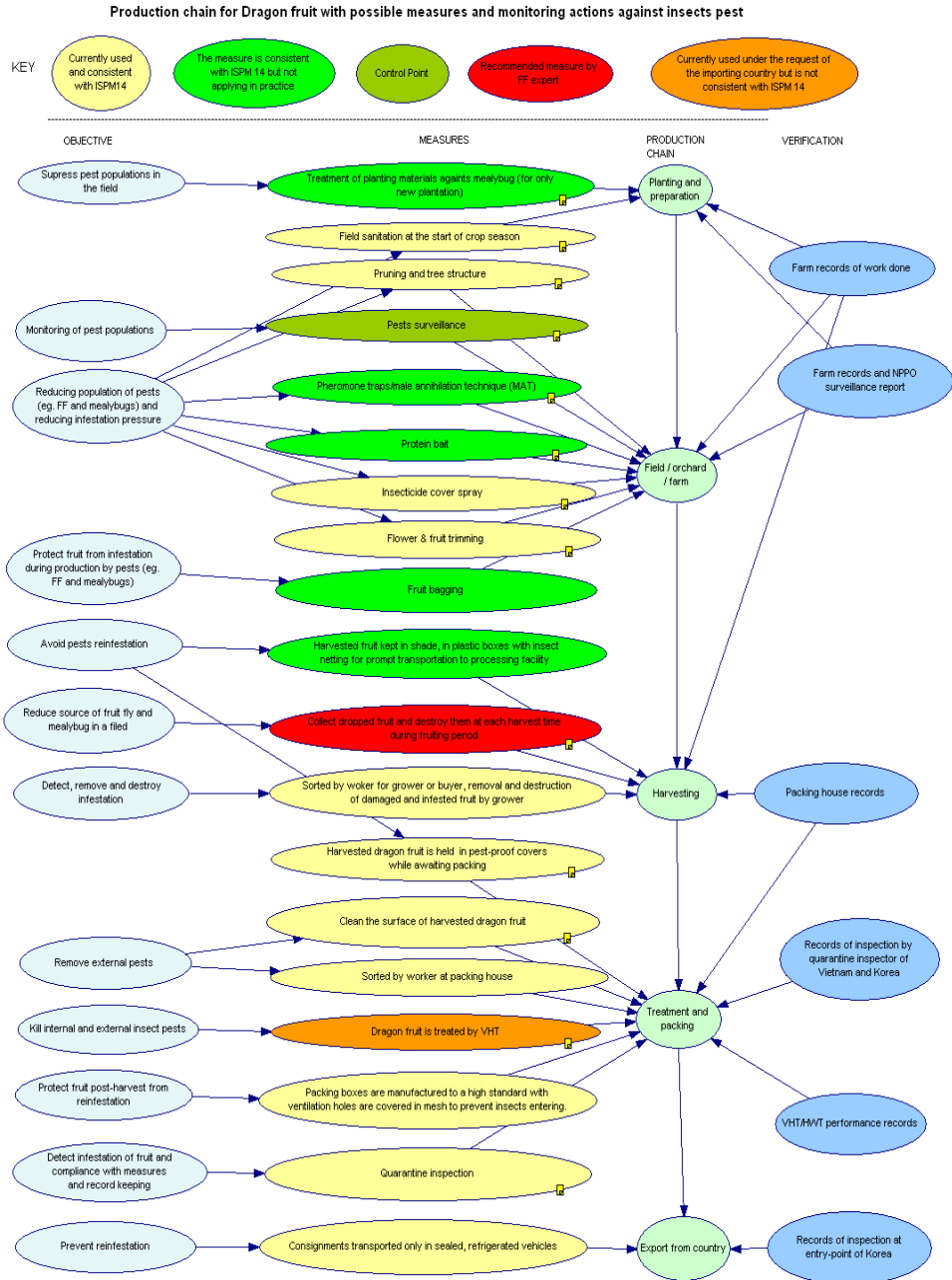
Beyond Compliance Tools - Production Chain

Separate columns:

- Time/place/stage in chain
- Objective of the measure
- Measures
- Verification

Colour coding:

- Official or commercial measures
- Currently applied or potential
- In line with least restrictive, or to be discussed for removal
- For risk reduction or verification



Beyond Compliance tools – Decision Support Systems Approach

Beyond Compliance Global - Decision Support for Systems Approach (DSSA)

Developing a Systems Approach for trade of Grape Plant For Planting from Eur (Version date: 10/15/2019)

Tool is for



All Contributors,
References and
Resources

Beyond Compliance Global - Decision Support for Systems Approach (DSSA)

Part A: Background information for developing a SA for trade of Grape Plant For Planting from European Union to Tunisia - targeted at *Xylella fastidiosa* (All subspecies)

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Part B - Shortlist
Measures

TABLE A1. Basic information

A.1.01	Identify the commodity or pathway addressed by this management plan	Grape Plant For Planting
A.1.02	Intended use of the commodity/ pathway	Planting Materials
A.1.03	Original exporting country (country of origin)	European Union
A.1.04	Importing country/countries	Tunisia
A.1.05	Regulated pest(s) identified by the importing country that is/are addressed in this management plan	<i>Xylella fastidiosa</i> (All subspecies)
A.1.06	Means of entry considered in the PRA (Commercial trade [air, sea, land, post]; Informal trade; Natural spread ...)	All Probable Pathways for Entry*
A.1.07	Declared means of transport covered in this management plan	Not Yet Declared*
A.1.08	What part of the importing country is covered by this plan? (Entire country or a defined area?)	Entire Country
A.1.09	Key host plants in the area covered by this plan	All Xf host plants (mainly olive, citrus and grapes)
A.1.10	Is a specific time period for the pest risk assessed indicated?	
A.1.11	What is the most restricted area for cultivation for the proposed trade?	No restriction
A.1.12	Is there useful information from similar existing trade?	
A.1.13	What is the initiating driver for this plan?	Change in risk

The purpose of this tool is to highlight issues that may impact risk management, drawing from the PRA, and show management options in a clear fashion. Some additional information is requested by the tool, in regard to efficacy and uncertainty as well as more details on measures. Expert judgement will normally suffice to complete these questions. By representing expert judgment as a distribution, for some key variables, new data is generated by the tool. It should make the decision more transparent and assist in filling in related questions in the importing country's PRA (section on risk). Equally, it can be used to organise data for a request from the exporting country for recognition of equivalence of alternative measures.

TABLE A2. Key factors to consider based on the proposed commodity / pathway

Key Factors	Rating	Uncertainty	Comment
A2.01 Rating - Entry	Very likely	Low	
A2.02 Rating - Establishment	Very likely	Low	
A2.03 Rating - Spread	Quick	Low	
A2.04 Rating - Impact	Very Large	Low	
Description			Comment
A2.05	How easy is it to detect the key organism(s) on the commodity / pathway? For example can you recognise the symptoms or signs on the sample?	Very difficult	At import regarding asymptomatic plants
A2.06	How easy is it to identify the key organism(s)? For example, is there an available, reliable, accurate technique that has been agreed?	Easy	
A2.07	How well organised is the sector at risk in the importing country?	Moderately/somewhat organised	It depends upon the commodity (Citrus are well organized for instance, Olive sector is less organized)
A2.08	Is there a way (current, feasible measures) to control or eradicate the regulated pest if it were to enter the importing country?	No Such A way	Exclusionary Measurements are the Unique and Main Taken Measurements
A2.09	Are there mechanisms to help put in place measures across the sector?		

A2. Conclusions on key factors relating to risk management measures:

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Part C: Evaluation of measures for developing a SA for trade of Grape Plant For Planting from European Union to Tunisia

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sa (All subspecies)

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[Part C- Additional Comments](#)

TABLE C1. Indicators of Measures (Pest risk reduction and Implementation standard)

Optional comments


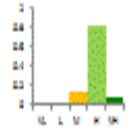
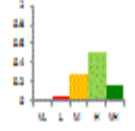
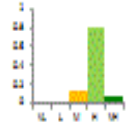
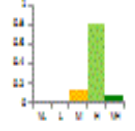
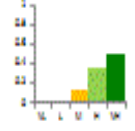
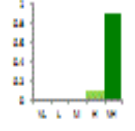

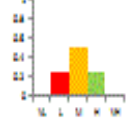
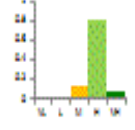
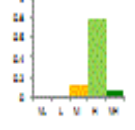
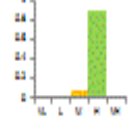
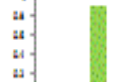

Systems Approach measures available (from Part B)	Contribution to part risk reduction of infestation in exported consignment			Implementation standard			Interactions with other measures	Any additional comments	Objective of measure
	Maximum contribution to part risk reduction achievable by the measure is:			Implementation standard of the measure in the field is:					
	Rating	Uncertainty	Graphic	Rating	Uncertainty	Graphic			
Port Free Area(s)	Very high	Very low		High	Low				Indicator Level of Part Challenge and Infestation
Mother plant, Breeders and Nurseries Accredited and registered	High	Medium		High	Low				Evidence of Implementation Measure
Insect Trapping	High	Low		Very high	Medium				Reduce Part Challenge
Chemical Control	Very high	Very low		Very high	Very low				Prevent Part Infestation
Nursery Level All Grades Insect Proof	Medium	Medium		High	Low				Evidence of Implementation Measure
Annual Official Inspection (in Detail)	High	Low		High	Very low				Indicator Level of Part Challenge and Infestation
Insect Proof	High	Very low		High	Medium				Prevent Part Infestation

TABLE C2. Indicators of Measure (Ability to verify effect of measure to that CP, Producer Acceptability, Sector acceptability, Societal acceptability)

Systems Approach measures available (from Part B)	Ability to verify effect of measure to that CP			Producer acceptability			Sector acceptability			Societal acceptability		
	CP			Acceptability of the measure to producers is:			Acceptability of the measure to the sector is:			Acceptability of the measure to society is:		
	Rating	Uncertainty	Graphic	Rating	Uncertainty	Graphic	Rating	Uncertainty	Graphic	Rating	Uncertainty	Graphic
Part Free Area(s)	High	Low		Very high	Low		Very high	Very low		Very high	Very low	
Mother plant, Breeders and Nurseries Accredited and registered	Very high	Low		Very high	Medium		Very high	Low		High	Low	
Insect Trapping	High	Low		High	Medium		Very high	Very low		High	Very low	
Chemical Control	High	Very low		Very high	Very low		High	Very low		Medium	Low	
Nursery Level All Grader Insect Proof	High	Medium		High	Medium		Very high	Low		Very high	Very low	
Annual Official Inspection (in Detail)	Very high	Very low		High	Low		Very high	Low		High	Low	
Insect Proof	High	Very low		High	Medium		Very high	Very low		High	Low	

TABLE C3. Assemble SA measures for Xylella fastidiosa (All subspecies) within Group Plant For Planting from European Union

	Reference name of proposed SA packages	Measure 1	Measure 2	Measure 3	Measure 4	Measure 5	Measure 6	Measure 7
1	SYSTEMS APPROACH	Part Free Area(s)	Mother plant, Breeders and Nurseries Accredited and registered	Annual Official Inspection (in Details)	Chemical Control	Consignments Inspection/trapping & Molecular Testing	Consignments Insect Treatments	

TABLE C4. Expected overall performance of SA for Xylella fastidiosa (All subspecies) within Group

	SA package	Rate the expected overall performance of the SA			Any additional comments
		Rating	Uncertainty	Graphic	
1	SYSTEMS APPROACH	Very high	Very low		

- The case will be done after the **bilateral negotiations** between the exporter and the importer...in order to reduce the pest risk and related **trade restrictions**...
- With the aim to have **smooth movement of different agricultural commodities**...



Thanks to all
for your kind
Attention

