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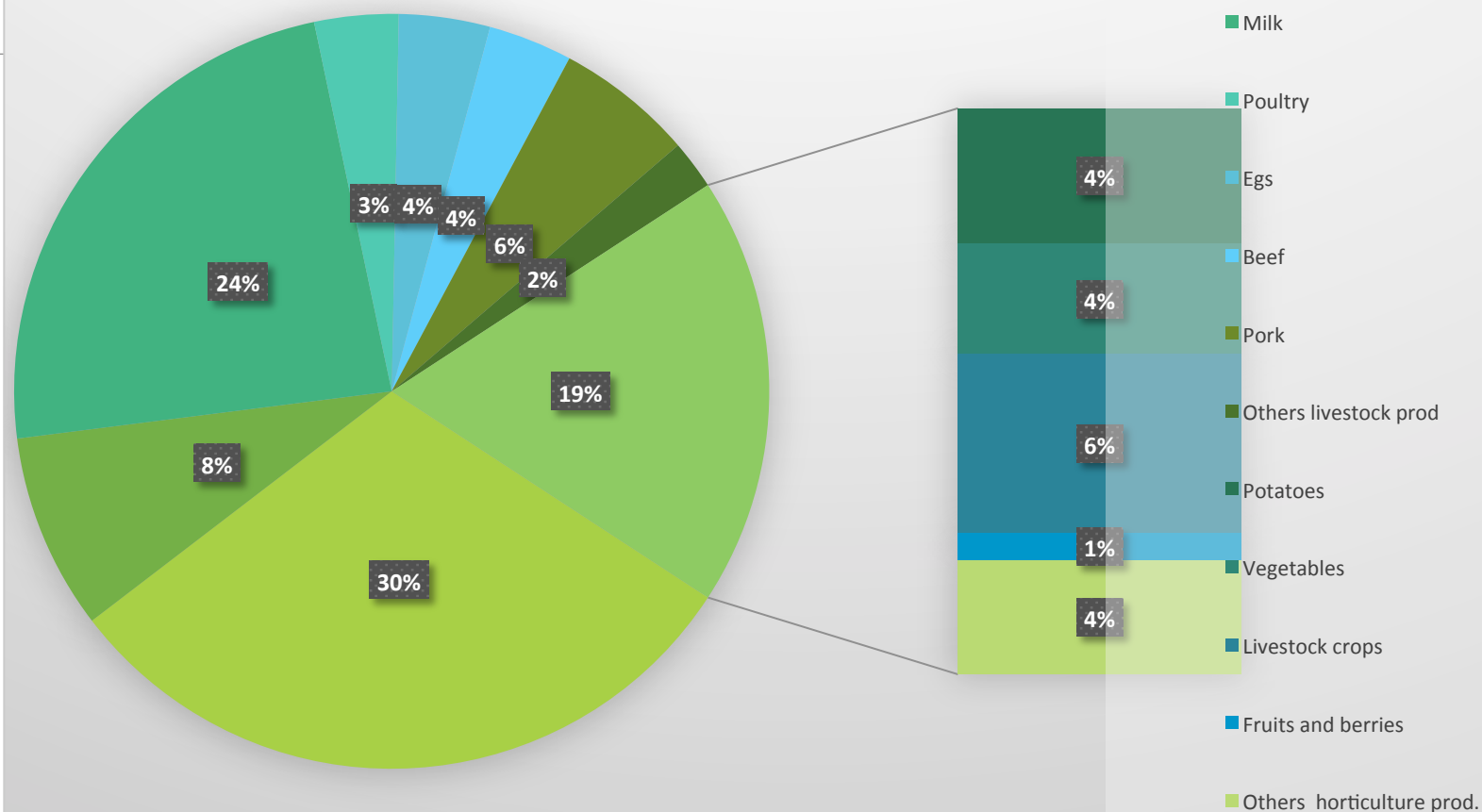
# **Vegetable growing in Latvia - *current situation and challenges in open fields and greenhouses***

VISION CONFERENCE OF ESTONIAN  
HORTICULTURAL ASSOCIATION  
01.11.2018.



als	30,40%
seeds	8,40%
	23,70%
ry	3,60%
	3,90%
	3,60%
	5,90%
rs livestock prod	2,10%
oes	4,40%
tables	3,60%
tock crops	5,80%
s and berries	0,90%
rs horticulture prod.	3,70%

**The structure of Agriculture products in 2017 Latvia (in prices)  
(data from AREI)**



# Changes in agriculture last 3 years

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Crops	2015	2016	2017	2016./2015	2017./2016
Vegetables	56,4	55,4	45,6	-2%	-18%
Potatoes	60,9	59,4	56,4	-2%	-5%
Fruits and berries	5,4	9,8	11,2	82%	15%

# Total area ha 2014 - 2017

(total yield in 2017 was 20,2 % less as 2016)

Crop	2014	2015	2016	2017
Open field vegetables	8231	8085	8135	8019
cabbages	2729	2937	2221	2148
Beet root	1244	1115	1073	735
Carrot	1471	942	1462	1485
Onion	1158	919	829	1182
Garlic	139	151	179	511
Pumpkins and courgettes	354	543	747	617
Covered areas	64,7	61,7	57,9	46,3





# Customer requirements

## – Certification

- \*For Fresh produce GLOBALG.A.P.
- \*Processed – BRC Food standard, IFS, FSSC 22000
- \*Distribution,
- \*Packaging BRC

- \*Product analysis based on the risk assessment-
- \*Water
- \*Microbiological
- \*MRL
- \*Approval against falsification

- \*Retailers supplier audits-
- \*Social audit
- \*Environmental audit
- \*Sustainability
- \*Audits based on BRC, IFS requirements

# Quality management ICA

SCOPE			Name of Standard	Includes Product labelling	AREA				Special/Non-Food	Sector (s)
Quality system	Environmental Compliance	Social Compliance			Food	Home and Personal Care Near Food	Fruit and Vegetables	Flowers		
x			Brittish Retail Consortium (BRC) Food Safety		x		x			Food manufacturing; any food processing or packing, including handling, processing or packing open food.
x			ISO 22000		x		x			Food manufacturing, including processing or manufacturing of animal products, perishable vegetal products, products with a long shelf life and (other) food ingredients like additives, vitamins and bio-cultures.
x			FSSC 22000		x		x			Food manufacturing, including processing or manufacturing of animal products, perishable vegetal products, products with a long shelf life and (other) food ingredients like additives, vitamins and bio-cultures.
x			Dutch HACCP		x		x			Food manufacturing, including preparation, processing, manufacturing, packaging, storage, transportation, distribution, handling or offering for sale or supply.
x			Synergy 22000		x		x			The entire food chain.
x	x		GAA BAP Seafood Processing Standard		x					Processing or manufacturing of seafood.
x			Canada GAP				x			Fruits and vegetables.
x			GlobalGAP or stated equivalent standards stated on GlobalGAP homepage: <a href="http://www.globalgap.org">http://www.globalgap.org</a>				x			Agriculture (including crops, livestock, aquaculture, propagation materials and feed). Also approved for packaging and handlig of whole fruits and vegetables.
x			IP Sigill		x		x			Primary production and Meat production chain; transport, lairage, stunning, slaughtering, deboning, cutting and handling of meat and meat products.
x			Global Red Meat Standard (GRMS) earlier Danish Red Meat Standard							Meat production chain; transport, lairage, stunning, slaughtering, deboning, cutting and handling of meat and meat products.
x			International Featured Standards (IFS) Food		x					Food manufacturing; processing and working and/or handling of loose food products and/or activities undertaken during the primary packaging.

x	KRAV-certified	x	x		x	x	Agriculture (including crops, livestock, aquaculture, seeds, propagation materials, animal feed and animal welfare).	For the Sw market.
x	Debio	x			x			For the Norwegian market.
x	EMAS		x	x	x	x	All production.	
x	ISO 14001		x	x	x	x	All production.	
x	Nordic Eco label (Svanen)	x		x		x	In accordance to criteria documents.	
x	Good Environmental Choise (Bra Miljöval)	x		x		x	In accordance to criteria documents.	
x	EU Ecolabel (EU-blomman)	x		x		x	In accordance to criteria documents.	
	IP SIGILL Flowers					x	Flowers	Environme Complianc evaluated.
	MPS-GAP					x	Flowers	Environme Complianc evaluated.
	GLOBAL G.A.P Flower and Ornamental					x	Flowers	Environme Complianc evaluated.

# Farmers of Latvian Cooperatives

- Quality scheme “Zaļā karotīte”- Green Spoon
- Integrated growing/  
Integrated plant protection
- GLOBALG.A.P. certification





## Direct agreements with retailers

**ICA**



**TESCO**



ICA, LIDL,  
TESCO, RIMI –  
start to speak  
with you when  
growers are  
GLOBALG.A.P  
certified

**SPAR** 

ICA & SPAR free from  
pesticides – not  
allowed any  
residues



**Mūsu māju  
dārzeņi**



# Cooperation benefits

- Planning for growing amounts and varieties
- Common investments projects
- Common quality system and control
- Trainings, experience sharing
- Assortment
- Logistic
- Lower costs for managers
- Purchase tenders
- Common packaging
- Information
- Software use
- Advertisement

# Quality system and certification benefits

1. Add value to your products
2. Access to new local and global customers
3. Reduce your exposure to food safety and product safety reputational risks.
4. Improve the efficiency of your farm processes and management.
5. Trainings and new experience about quality management system in Agriculture
6. Increasing of knowledge used in farming with high level consultants
7. Access to new markets and diversification of exports directions
8. Higher reputation between exporters
9. Increasing benefits in competitiveness





# GLOBALG.A.P.

The Most Widely Accepted Good Agricultural Practices Certification Worldwide



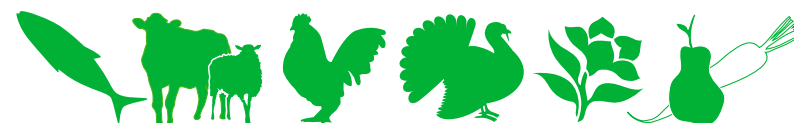
More than **430 voluntary members** form the **GLOBALG.A.P. Community**



**3 main products** with **40+ standards** and **programs**



More than **188,000 certified producers** in over **125 countries**



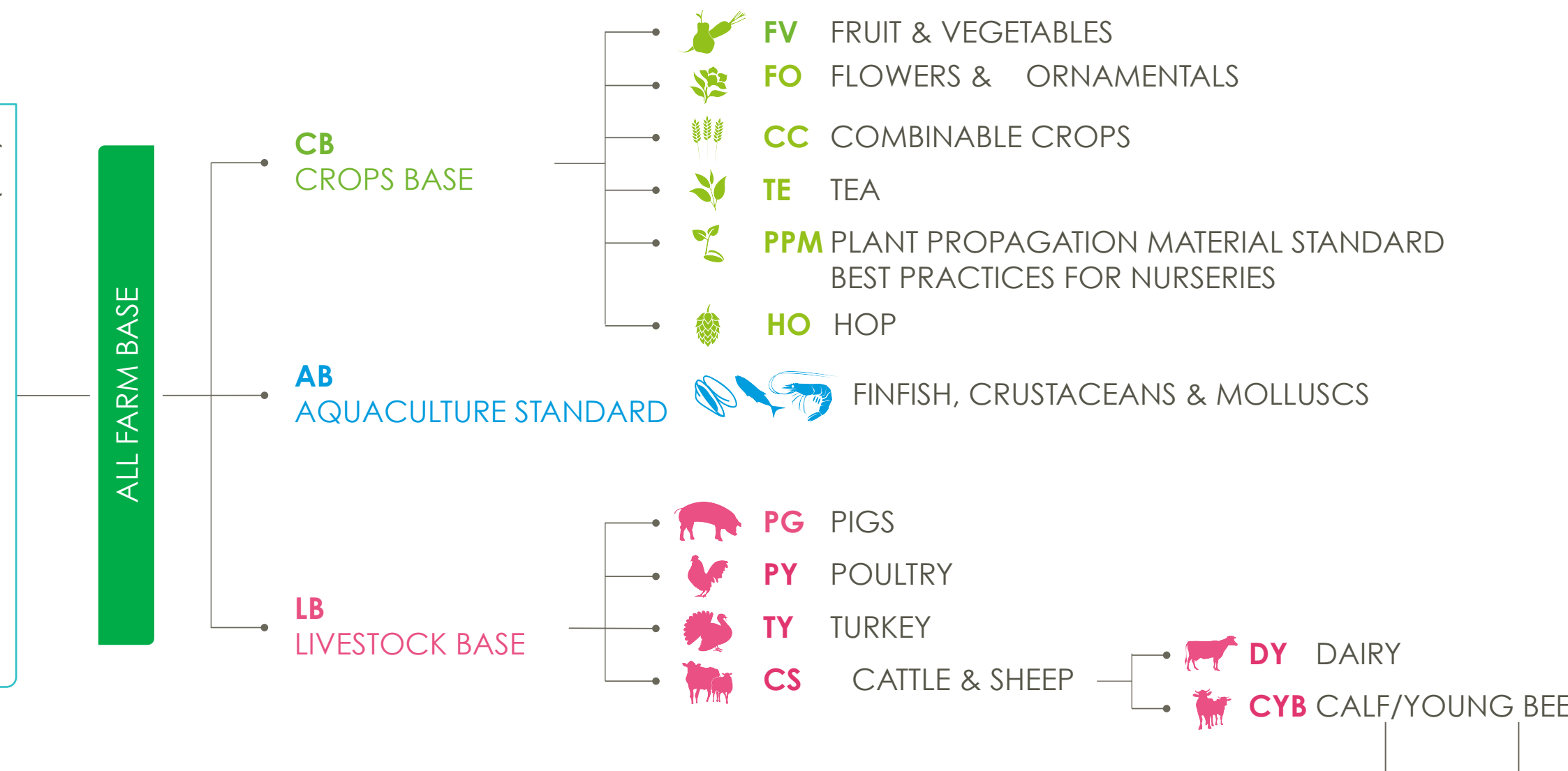
More than **600 products** available for certification





# INTEGRATED FARM ASSURANCE STANDARD (IFA) V5.1

A Modular Approach to G.A.P. Certification





# GLOBALG.A.P. FRUIT & VEGETABLE STANDARD V5

The First Choice for Retailers and Producers around the World



## A STANDARD CONSUMERS DEMAND

- Food Safety
- Traceability
- Quality Assurance
- Workers' Occupational Health & Safety
- Site Management
- Soil Management
- Fertilizer Application Management
- Integrated Pest Management
- Plant Protection Products Management
- Water Management



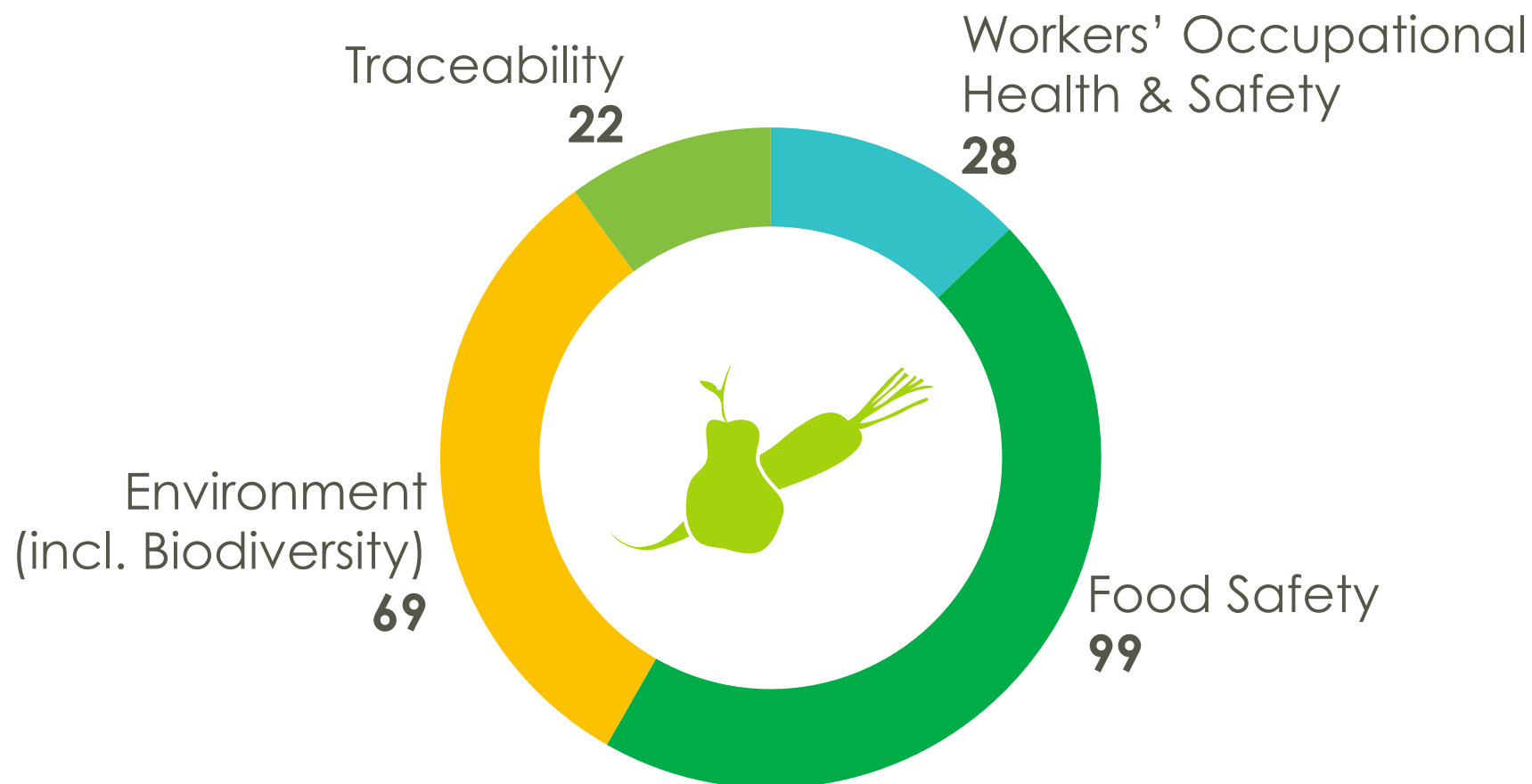


# GLOBALG.A.P. FRUIT & VEGETABLE STANDARD V5

The First Choice for Retailers and Producers around the World

## Holistic Approach Fruit & Vegetables

Total Number of Control Points: **218**



# INTEGRATED PEST MANAGEMENT– (IPM) GG standard requirements



## Prevention

Strategy based on ecosystems, which focuses on the long-term **prevention of pests** or the damage caused by them through a combination of techniques, such as

- ✓ **biological control,**
- ✓ **habitat manipulation,**
- ✓ **change in cultural practices and**
- ✓ **use of resistant varieties.**

*Integrated Pest Management (IPM) involves the careful consideration of all available pest control techniques and the subsequent integration of appropriate measures that*

***discourage the development of pest populations  
keeps plant protection products and other interventions to levels that are economically justified and reduce or minimize risks to human health and the environment.***

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# INTEGRATED PEST MANAGEMENT– (IPM) GG standard requirements

## Prevention



- *An IPM Toolbox (Annex CB 2) has been developed to provide alternative actions for the application of IPM techniques in the commercial production of agricultural and horticultural crops. Given the natural variation on pest development for the different crops and areas, any IPM system shall be implemented in the context of local **physical** (climatic, topographical etc.), **biological** (pest complex, natural enemy complex, etc.), and **economical** conditions.*

# INTEGRATED PEST MANAGEMENT– (IPM) GG standard requirements

## Observation and monitoring



1. Determine when and to what extent pests and their natural enemies are present, and using this information to plan what pest management techniques are required.
2. Trapping (pests), scouting, monitoring weather conditions to prevent diseases, etc.

Example: Observation of pests and beneficial insects; use of indicator plants; alert systems, e.g. prediction models, weather forecasts.





# INTEGRATED PEST MANAGEMENT– (IPM) GG standard requirements

## Intervention



Treating hot spots, borders, building up beneficial populations/habitats, spray, etc.

Examples of intervention: bait points; pheromone traps; biological control; application of crop protection products; anti-resistance management plan.

In situations where a pest attack will adversely affect the economic value of a crop, it may be necessary to intervene using specific pest control methods, including plant protection products (PPP).



The correct use, handling and storage of plant protection products are essential.

1. CB 6.4 Intervention
2. CB 6.5 Evidence that anti-resistance recommendations are followed
3. CB 7.1 Choice of plant protection products from a current list of appropriate and authorized products for the target crop and pest
4. CB 7.2 Advice on quantity and type of plant protection products by a qualified person



# GLOBALG.A.P. DATABASE

Managing Complexity the Easy Way



GLOBALG.A.P. Offers a secure **online certification database** to check producers and validate certificates using the GLOBALG.A.P. Number GGN

The **GLOBALG.A.P. Number** (GGN) is a 13-digit number that **uniquely identifies each producer** and individual member of a producer group in the **GLOBALG.A.P. Database**.

Ensuring traceability & transparency from the farm to the market shelf

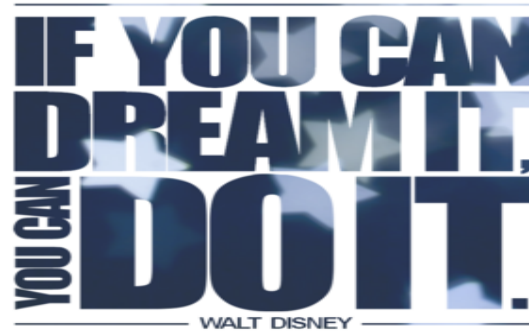
<https://database.globalgap.org>



# Sustainable development of Agriculture



- We don't work for one day, what we create today will be in use for our kids!
- Our main values – environment -land/soil, water, air, food, living place, society /people.... we must protect it and know how to do it!





# THANK YOU FOR YOUR ATTENTION!

Questions – Discussion – Contact Us



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