Scope: flowers and ornamentals
- Less prescriptive, now more outcome oriented
- Simplified, leaner
G.A.P. STANDS FOR GOOD AGRICULTURAL PRACTICES AND GLOBALG.A.P. SETS THE STANDARDS THAT ASSURE THEM.
WHAT IS THE POWER OF G.A.P.?

Good agricultural practices

• Create habits, change culture

• Their continuous implementation and continuous improvement have the power to transform
INDUSTRY CHALLENGES

Floriculture production under scrutiny

• Consumers are becoming more aware of issues such as pesticides, climate change, or social conditions for farm workers.

• They are demanding more transparency about flower production and changing their buying behavior.

• Supply chains are evolving to meet the increasing expectations of consumers and civil society.
The flower industry is perceived as using too many resources for an ornamental product.

The industry recognizes the need to measure and improve the environmental performance of the sector.

Standards ensure that growers know which criteria they must fulfil to run responsible production processes and buyers can choose suppliers that fulfil their criteria simply by checking for a single certificate.
THE GLOBALG.A.P. SOLUTION
Integrated Farm Assurance (IFA) for flowers and ornamentals

• A global standard for the responsible farming of flowers and ornamental plants: IFA for flowers and ornamentals
• Helps growers assess and improve their processes and demonstrate their responsible farming practices
• Provides clarity on market requirements and acts as a practical manual for producers
• The first version of IFA for flowers and ornamentals was published in 2003 – GLOBALG.A.P. has nearly 20 years of experience in standard setting
THE GLOBALG.A.P. SOLUTION
Audits and certificates

- IFA for flowers and ornamentals is audited annually by approved certification bodies (CBs)
- A successful CB audit results in a certificate valid for one year
- Certification options for both individual producers and producer groups
- Certification status is visible in the GLOBALG.A.P. IT systems for transparency in the supply chain
- The GLOBALG.A.P. Integrity Program ensures consistent delivery and implementation of the standard worldwide.
ELIGIBILITY
Producer conditions

- **Scope:** cultivated (no wild collection), nonedible
- **No geographical restrictions**
  Any country where a GLOBALG.A.P. approved CB is willing to conduct an audit
- **Growers of the following products:**
  1. Bamboo and ornamental grasses
  2. Bedding plants
  3. Cactuses/Succulents
  4. Cut flowers
  5. Flowering bulbs
  6. Hardy plants
  7. House plants
  8. Ornamental gourds
  9. Garden plants in pots (mixed varieties)
  10. Perennials
  11. Trees
  12. Turf
GLOBALG.A.P. IFA standard for plant propagation material

Greenhouse

Field

Nursery

GLOBALG.A.P. IFA standard for flowers and ornamentals

Postharvest
• Self-assessment contains **comments for all not applicable and non-compliant Major Must and Minor Must principles and criteria** (i.e., no comments for all Recommendations and Major/Minor Musts that have been complied with).

• 10% of audits by CBs must be **unannounced**. This 10% no longer counts as additional audits, but is included in the original number of certification audits.

• **Three-year cycle rule** (with annual on-site audit) further reduces the content of the checklist to the applicable points and shortens the on-site audit duration.
  
  • Initial audit (for v6): All requirements are included in the **applicable checklists** (quality management system (QMS) and farm).
  
  • Subsequent 2 (operational items, as identified in the checklist)
  
  • Subsequent 3 (operational items, as identified in the checklist)
DEVELOPMENT OF IFA v6 FOR FLOWERS & ORNAMENTALS
World Consultation Tour

- Developed **by the industry, for the industry**
- **Three public consultation periods** took place over two years. All stakeholders from the floriculture industry were invited to participate and give feedback.
- There were **43 virtual World Consultation Tour** meetings on floriculture topics.
- We received over **300 comments** on the IFA v6 for flowers and ornamentals documents.
- The revised standard addresses the **needs and demands of the market**.
THANK YOU!
FLOWERS AND ORNAMENTALS FOCUS GROUP
Chairperson: Ximena Franco/Florverde Vice-chairperson: Martin de la Harpe/Flamingo-consultant

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christine Bronsch</td>
<td>Consultant</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Alvaro Cangas Cantos</td>
<td>Fleurop Interflora S.A.</td>
<td>Spain</td>
</tr>
<tr>
<td>Andrea Contreras</td>
<td>Expoflores</td>
<td>Ecuador</td>
</tr>
<tr>
<td>Martín de la Harpe</td>
<td>Consultant</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Herold Dongelmans</td>
<td>Koppert BV</td>
<td>Netherlands</td>
</tr>
<tr>
<td>Paula Edgington</td>
<td>BOPP</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Johanna Faassen</td>
<td>Landgard</td>
<td>Germany</td>
</tr>
<tr>
<td>Ximena Franco</td>
<td>Florverde Sustainable Flowers</td>
<td>Colombia</td>
</tr>
<tr>
<td>Nikki Hulzebos</td>
<td>Royal Flora Holland</td>
<td>Netherlands</td>
</tr>
<tr>
<td>Christoph Händle</td>
<td>Degenhardt Blumenzwiebelkulturen</td>
<td>Germany</td>
</tr>
<tr>
<td>Steffen Janssen</td>
<td>EDeka AG</td>
<td>Germany</td>
</tr>
<tr>
<td>Jeroen Lambin</td>
<td>PCS</td>
<td>Belgium</td>
</tr>
<tr>
<td>Raimon Loman</td>
<td>Dutch Flower Group</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Sylvie Marias</td>
<td>UNION FLEURS</td>
<td>Belgium</td>
</tr>
<tr>
<td>Dr Cristina Morinilli</td>
<td>Associazione Nazionale Commercianti Esportatori Flori ANCEF</td>
<td>Italy</td>
</tr>
<tr>
<td>Dirk Teuber</td>
<td>Landwirtschaftskammer Nordrhein-Westfalen</td>
<td>Germany</td>
</tr>
<tr>
<td>Tobias Theuerkauf</td>
<td>REWE/Toom</td>
<td>Germany</td>
</tr>
<tr>
<td>Clement Tufezi</td>
<td>Kenya Flower Council</td>
<td>Kenya</td>
</tr>
<tr>
<td>Hester van Gent</td>
<td>Anthos</td>
<td>Netherlands</td>
</tr>
<tr>
<td>Henko Vlok</td>
<td>Sustainability Initiative of South Africa NPC (SIZA)</td>
<td>South Africa</td>
</tr>
<tr>
<td>Gregor Walcher-Eichinger</td>
<td>Agrarmarkt Austria Marketing (AMA)</td>
<td>Austria</td>
</tr>
<tr>
<td>Elise Wierlinga</td>
<td>Royal Lemkes</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>Gregg Witsenewski</td>
<td>Syngenta AG</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Mikyas Bekele Woldeyes</td>
<td>EHPEA</td>
<td>Ethiopia</td>
</tr>
<tr>
<td>Martin Zuijderwijk</td>
<td>Blobest Group</td>
<td>Netherlands</td>
</tr>
</tbody>
</table>
IFA v6 for flowers and ornamentals takes a holistic approach to responsible farming through **four key topics**:
STANDARD CONTENT
Following the production process

- Management and traceability
  - Management
  - Traceability

- Production process
  - Propagation material
  - Soil & Fertilizers
  - Water
  - IPM
  - PPP
  - Post-harvest

- Environment
  - Waste
  - Biodiversity
  - Energy

- Workers’ health, safety, and welfare
  - Health & Safety
  - Welfare
Visual inspection instead of documents. Deleted documents:
- Site risk assessment and management plan (product safety)
- Hygiene risk assessment and management plan
- Equipment/Risks food safety
- Waste management plan
- Wildlife and conservation plan

Deleted/Not relevant to flowers and ornamentals:
- Site risk assessment and management plan (product safety)
- Hygiene risk assessment and management plan
- Equipment/Risks food safety
- Addressing **plastic** use and waste
- **Energy**: efficient use and renewables
- **Biodiversity** protection, land conversion, and invasive alien species
- **Water**: monitoring use of **water sources** and **efficient** use
- Proper disposal of all types of **wastewater**
- **Eutrophication**: avoiding leakage of nitrogen and phosphorus
- **Peat**: minimum amount to be substituted
- **Integrated pest management (IPM)**: adviser, knowledge, and plan
- **Hygiene** instructions (in health and safety procedures)
- Working at **heights**: competence required
- Obligation to use **personal protective equipment (PPE)**, not just to provide it
- Health and safety assessments include attention to local legislation regarding **infectious diseases**.
- **Safe handling of concentrated** plant protection products (PPPs)
- **Health check** offered to workers handling PPPs
- **Warning signals** for hazards
STANDARD CONTENT
Principles and criteria

- 22% legal, management, and traceability
- 19% workers’ well-being
- 28% production processes
- 31% environmental sustainability
What are principles and criteria?

**Principles**

- Fundamentals that set the foundation of a GLOBALG.A.P. requirement
- Written in statement form
- Describe the outcome to achieve

**Criteria**

- Methods that producers can use to demonstrate a principle to be true
- Compliance can be evidenced in different ways, e.g., through data, proof of procedure, a record, etc.
IFA v6 for flowers and ornamentals covers the entire production process. Principles and criteria cover:

- Management and traceability
- Soil, plant nutrition, and fertilizers
- Biodiversity
- Waste
- Plant protection products
- Workers' health, safety, and welfare
- Integrated pest management
- Water
- Energy
- Postharvest

STANDARD CONTENT
Principles and criteria
## INTENDED GOALS
Management and traceability

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>Continuous integration of site-specific knowledge and practical experience</td>
</tr>
<tr>
<td>Traceability</td>
<td>Reconcile products with the implemented practices.</td>
</tr>
<tr>
<td></td>
<td>Distinguish certified from noncertified products.*</td>
</tr>
</tbody>
</table>

* The term "certified products" refers to products originating from a farm with GLOBALG.A.P. certified production processes.
Continuous improvement – an example for the floriculture industry

- The producer documents the different pest control strategies they use (or could potentially use): IPM plan.

- This includes preventive measures, monitoring technique, and types of strategy/intervention to combat two disease-causing microorganisms and one insect pest.

- The producer identifies that they added a new control strategy this year which could help avoid the use of a certain insecticide – they added a natural enemy to control the insect.

- The annual revision of the IPM plan encourages reflection on possible ways to change.
INTENDED GOALS
Workers’ health, safety, and welfare

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers’ health, safety, and welfare</td>
<td>Ensure safe working conditions and competence Contributing to 3. Good health and well-being</td>
</tr>
</tbody>
</table>

- Health and safety
- Hazards and first aid
- PPE
- Welfare

**Target 3.9**
By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water, and soil pollution and contamination
Workers’ health and safety

- Stricter requirements (health checks, mixing concentrated PPPs)
- Higher requirement for risk assessment of hazards and accident/emergency procedures
- Evidence that PPE is used by the workers
- Workers are informed of their rights related to the standard. A grievance mechanism is available. Workers can file concerns in a confidential way and without fear of retaliation.
## WHY THIS STANDARD?
Controlled use of PPPs

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propagation</td>
<td>Ensure good starting material and plants for a healthy crop</td>
</tr>
<tr>
<td>Integrated pest management</td>
<td>Protect the crop while minimizing the risk of toxicity</td>
</tr>
<tr>
<td>Plant protection products</td>
<td>Complement plant protection through the proper and safe use of authorized products</td>
</tr>
<tr>
<td>Postharvest</td>
<td>Ensure good and longer shelf life through safe use of authorized treatments when needed</td>
</tr>
</tbody>
</table>

**Addressed environmental impact:** Toxicity (environment, human)  

**Contributing to:**
- Good health and well-being (SDG 3)
- Life below water (SDG 14)
- Life on land (SDG 15)
WHAT’S NEW IN IFA V6

Production processes

Plant propagation material (PPM)
- Intellectual property rights
- Records of PPPs at nursery level
- Transition period (introduction → selling), focus on bulbs

Integrated pest management (IPM)
- IPM plan to retain knowledge and assess strategies
- Stronger IPM: knowledge of pests and strategies
  - (agreed as option to PPP residues/negative PPP list)
### WHY THIS STANDARD?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil, plant nutrition, and fertilizers</td>
<td>Protect soil and promote efficient plant nutrition in a way that minimizes negative environmental impact (eutrophication)</td>
</tr>
</tbody>
</table>

**Addressed environmental impact:** Eutrophication

**Contributing to**

- Target 6.3
  - By 2030, **improve water quality by reducing pollution**, eliminating dumping, and **minimizing release of hazardous chemicals and materials**, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

- Target 14.1
  - By 2025, prevent and significantly reduce marine pollution of all kinds, **in particular from land-based activities**, including marine debris and **nutrient pollution**

- Target 15.1
  - By 2020, ensure the conservation, restoration, and sustainable use of **terrestrial and inland freshwater ecosystems** and their services, in particular forests, wetlands, mountains, and drylands, in line with obligations under international agreements
Soil, plant nutrition, and fertilization:

• Minimizing leakage of phosphorus and nitrogen to avoid eutrophication, by
  - Ensuring safe storage of fertilizers (organic and inorganic)
  - Acknowledging nitrogen/phosphorous content of irrigation water
  - Acknowledging nitrogen/phosphorous content of organic amendments

• Minimum requirements for the substitution of peat used in substrates in favor of renewable alternatives (i.e., 10% of the total volume of raw materials used for substrates must not be peat)
**WHY THIS STANDARD?**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
</table>
| **Water** | Promote efficient use and protection of water sources  
**Addressed environmental impact:** Water use and scarcity  
**Contributing to** |

---

**Target 6.3**  
By 2030, improve water quality by reducing pollution, eliminating dumping, and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.

**Target 6.4**  
By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.
Water

- Water recycling
- Rainwater collection
- Maintenance of water storage facilities
- Protection of water sources
- Efficient use of water
- Proper disposal of all types of wastewater

WHAT’S NEW IN IFA V6
Production processes
WHY THIS STANDARD?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
</table>
| Energy | Optimize energy use, minimize nonrenewables and greenhouse gas emissions  
Addressed environmental impact: Climate change |

Contributing to

Target 7.2
By 2030, increase substantially the share of renewable energy in the global energy mix

Target 7.3
By 2030, double the global rate of improvement in energy efficiency
## WHY THIS STANDARD?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste</td>
<td>Avoid pollution, ensure that waste is disposed of properly, and that recycling practices are in place. Addressed environmental impact: Toxicity, eutrophication, water scarcity. Contributing to:</td>
</tr>
</tbody>
</table>

**Target 3.9**
By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.

**Target 6.3**
By 2030, improve water quality by reducing pollution, eliminating dumping, and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.

**Target 14.1**
By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution.
### WHY THIS STANDARD?

<table>
<thead>
<tr>
<th>Topic</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodiversity</td>
<td>Enhance biodiversity on the farm to benefit from ecological services</td>
</tr>
<tr>
<td></td>
<td><strong>Addressed environmental impact:</strong> Loss of biodiversity and land use</td>
</tr>
<tr>
<td></td>
<td>Contributing to</td>
</tr>
</tbody>
</table>

Target **14.1**  
By 2025, prevent and **significantly reduce marine pollution** of all kinds, in particular from land-based activities, including marine debris and **nutrient pollution**  
Target **15.8**  
By 2020, introduce measures to prevent the introduction and significantly **reduce the impact of invasive alien species** on land and water ecosystems and control or eradicate the priority species  
Target **15.1**  
By 2020, ensure the **conservation, restoration, and sustainable use of terrestrial and inland freshwater ecosystems** and their services, in particular forests, wetlands, mountains, and drylands, in line with obligations under international agreements
WHAT’S NEW IN IFA V6
Environmental sustainability

Waste

• Stricter requirements for all types of waste. Explicit mention of plastics
• Improved approach to “Site in orderly condition”

Biodiversity

• Biodiversity is enhanced
• The farm is considered as an agricultural ecosystem, conversion and restoration are noted
• Unproductive sites, if they exist, must be used to enhance biodiversity
• Awareness of invasive alien species
STANDARD CONTENT
Addressing key environmental impact categories

- Climate change
- Water use and scarcity
- Toxicity (human/ecosystem)
- Eutrophication
- Land use and biodiversity

Energy → Water

Soil, plant nutrition, and fertilizers → Biodiversity

Postharvest
Plant protection products
Integrated pest management
WHAT’S NEW IN IFA V6
Environmental sustainability

Environmental indicators/metrics:

• Management of input consumption supported through metrics such as water, energy, fertilizers or PPPs

• Growers may complement IFA with the Impact-Driven Approach to Sustainability (IDA) add-on to digitally share data
IFA FOR FLOWERS AND ORNAMENTALS IN THE GLOBALG.A.P. PORTFOLIO
GLOBALG.A.P. offers solutions for environmental registration, B2B certification, consumer labeling, and traceability systems.

IFA is a building block – adapt and upgrade your assurance with other GLOBALG.A.P. farm assurance solutions.
IFA for flowers and ornamentals and IDA fulfil FSI 2025 requirements for the GAP and environmental baskets.

IFA for flowers and ornamentals is the original reference standard in the FSI GAP basket.

IDA fulfils Royal FloraHolland’s digital environmental registration requirements.

GLOBALG.A.P. solutions for floriculture contribute to the UN Sustainable Development Goals, including:
- Goal #3: Good health and well-being
- Goal #6: Clean water and sanitation
- Goal #7: Affordable and clean energy
- Goal #8: Decent work and economic growth
- Goal #12: Responsible consumption and production
- Goal #14: Life below water
- Goal #15: Life on land
The **GGN label** is a cross-category, consumer-facing label based on a set of GLOBALG.A.P. certification standards. It stands for certified, responsible farming and transparency. The GGN label offers consistent, consumer-relevant assurance and orientation throughout the store.

**How it works**

- **Unique number for each business (GGN or CoC Number)**
- **Discover the companies behind the GGN label at www.ggn.org.**
- **View farm/business profiles with detailed information**
ONE LABEL FOR ALL SCOPES

Fruit and vegetables
Aquaculture
Flowers and ornamentals
Harmonizing the requirements of different schemes and checklists cuts out duplication and takes the complexity out of certification.

There are two types of farm assurance equivalent to IFA for flowers and ornamentals:

- **Benchmarked schemes** – certification schemes using their own scheme management rules and G.A.P. requirements that are recognized as equivalent to the GLOBALG.A.P. general regulations and the product-specific principles and criteria respectively.

- **Approved modified checklists** (AMC, also known as benchmarked checklists) – certification systems or standards using the GLOBALG.A.P. general regulations as scheme management rules and their own G.A.P. requirements that are recognized as fully conforming with the GLOBALG.A.P. ones.
Registered Trainers are:

- Agricultural experts
- Trained by GLOBALG.A.P.
- Authorized to provide trainings on GLOBALG.A.P. standards
- Able to support you on your journey to achieving GLOBALG.A.P. certification.

Find Registered Trainers using our “Find a Registered Trainer” tool. You can recognize them by their green seal.
TIMELINE AND UPCOMING DEVELOPMENTS
### EXPECTED LAUNCH DATES

- **26 April 2022:** Launch of IFA v6 (interim version) in further languages
  - German, Dutch, and Spanish
- **Q2 2022:** Publication of English documents
- **September 2022:** Launch of IFA v6 (final version)
  - Italian, Portuguese, and French
- **Date TBC:** Launch of IFA standard for plant propagation material TBC
### WHAT ARE THE UPCOMING DEVELOPMENTS?

<table>
<thead>
<tr>
<th>Date</th>
<th>Milestone</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 Apr 2022</td>
<td>• Launch of <strong>interim version of IFA v6 documents</strong> in English.</td>
<td><strong>Interim version</strong> means the first publication of the final standard. Minor edits e.g., typo/spelling corrections in the normative documents may occur between April and September. The IFA v6 documents for flowers and ornamentals will be published in Dutch and German in May 2022.</td>
</tr>
<tr>
<td>Summer 2022</td>
<td>• CB training for IFA v6</td>
<td>IFA v6 audits are possible as soon as CBs have been trained.</td>
</tr>
<tr>
<td>Sept 2022</td>
<td>• Launch of <strong>final version of IFA v6 documents</strong> in English, Dutch, and German&lt;br&gt;• Further languages TBC</td>
<td><strong>Final version</strong> means the published version which will ultimately become <strong>obligatory</strong>. Expected languages: Italian, Spanish, French, and Portuguese (Brazil)</td>
</tr>
<tr>
<td>Mar 2023</td>
<td>• Last possible month to complete an <strong>IFA v5.2 audit</strong></td>
<td>Any v5.2 certificate obtained at this time <strong>remains valid</strong> for its entire one-year cycle.</td>
</tr>
<tr>
<td>Apr 2023</td>
<td>• IFA v6 becomes <strong>obligatory</strong>.</td>
<td>IFA v6 replaces IFA v5.2: No further audits for IFA v5.2 may take place after this point.</td>
</tr>
</tbody>
</table>
WHAT IS THE TRANSITION PERIOD FROM IFA V5 TO V6? (FO)

- **26 April 2022**: Publication of IFA v6 interim version
- **May 2022**: CB training (IFA v6)
- **September 2022**: Publication of IFA v6 final version
- **1 May 2023**: IFA v6 becomes obligatory
- **30 April 2024**: 100% of IFA certificates are for v6

- IFA v5.2 audits possible
- IFA v5.2 certificates valid
- IFA v6 audits encouraged
- IFA v6 audits mandatory
Scope: flowers and ornamentals
- Less prescriptive, now more outcome-oriented
- Simplified, leaner