

Hydroponics Presentation



New
Growing
System

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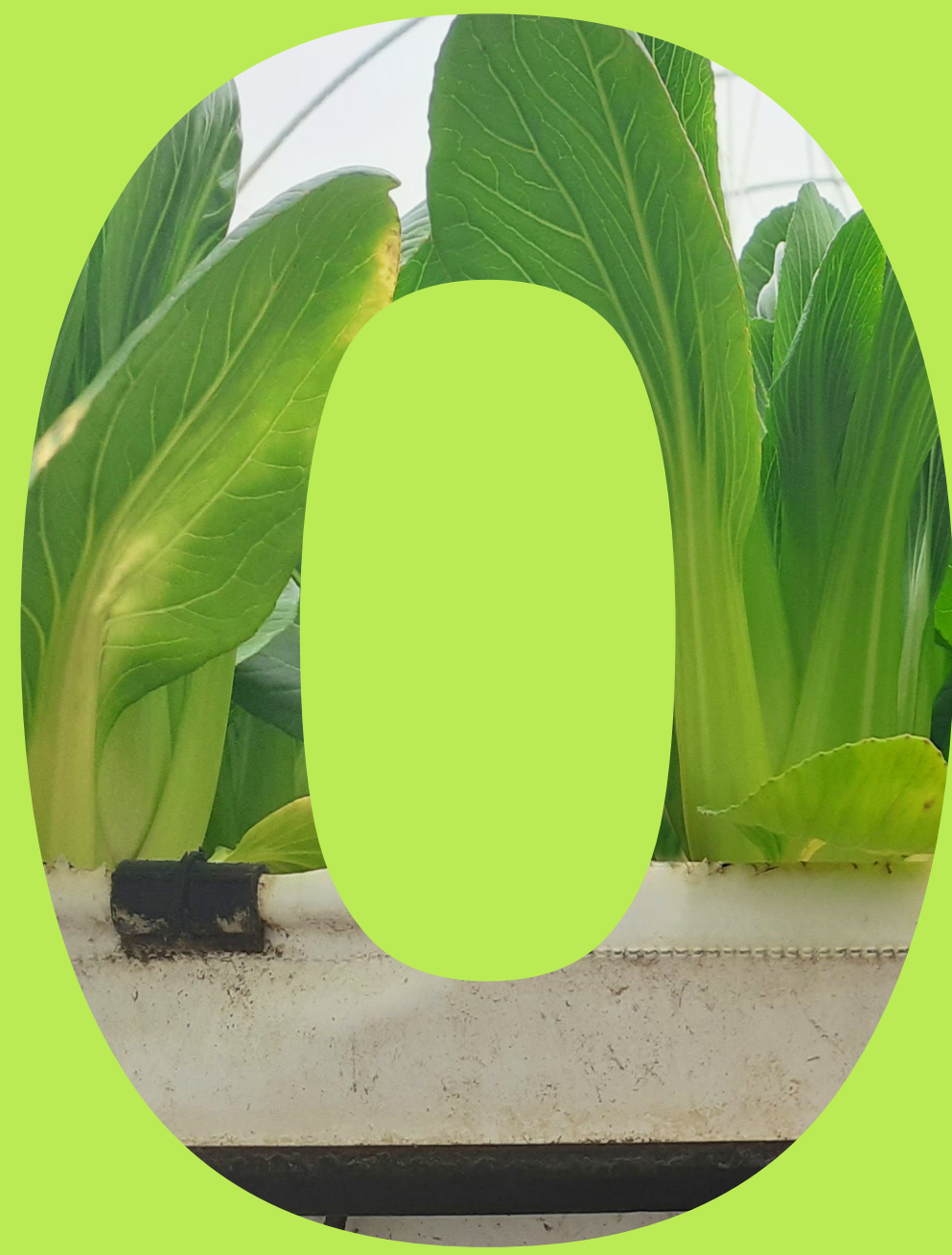
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New
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System



Introduction



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www.ngsystem.com

About Us

New Growing System is an Spanish company in the agrofood sector, with over **25 years of** experience in developing and installing its patented **Recirculating Hydroponic System**, which grants **complete crop management control** while delivering quality, savings, productivity and profits.



Hydroponics, Growing Savings



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Parent Company



- Origin: Primaflor Group, a solid agroindustrial European group with 50+ years experience and 7000 hectares of in-house crops.
- Large experience in irrigation systems and greenhouse manufacture.
- Specialists in hydroponic crops.
- Unique, patented solution.
- Developers of turn-key solutions in 20+ countries.



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NGS-Products



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NGS-berry



NGS-tropical



NGS-leaf



NGS produce



NGS-cannabis



NGS-garden

NGS-Products



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NGS-berry



NGS-berry+



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NGS-berry

Advantages

- **Regular Crops** of homogenous quality, flavor, texture and color.
- **Production Control** by removing soil and climate phenomena.
- **Year-Round Crops**
- **Enhanced Worker Safety** and comfort
- **Cost Reduction**

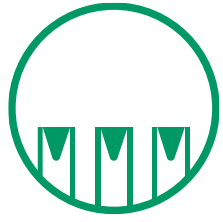


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Top Quality Results



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NGS Fixed System

By being off the ground, the Fixed System eases air flow around the plant and reduces problems such as humidity, phytosanitary products, dirt, etc.



NGS-berry



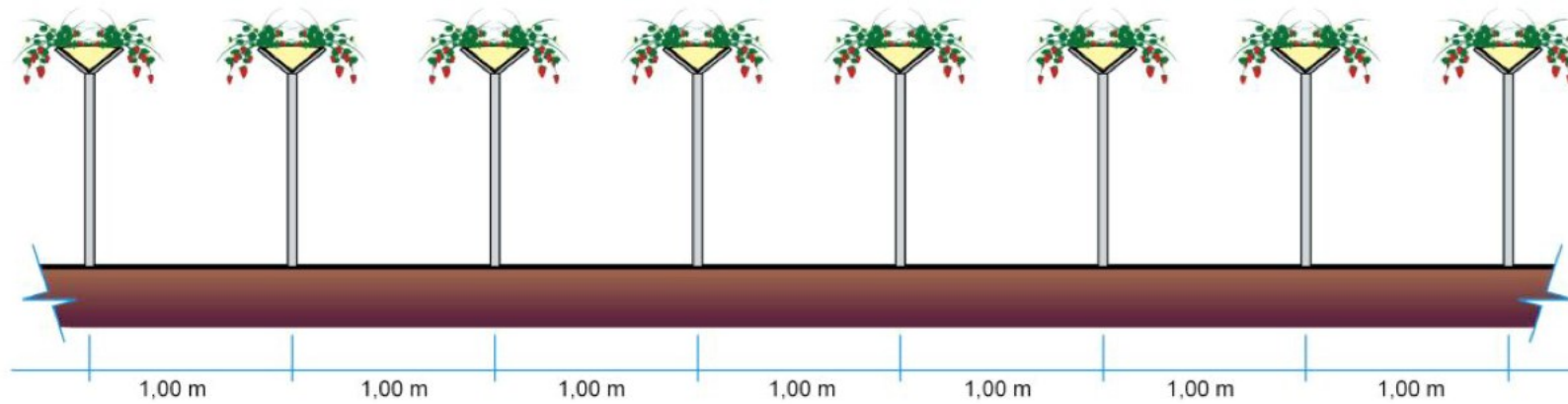


NGS-fixed



NGS-berry

Fixed System Diagram



100,000 Plants / Ha



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NGS-berry

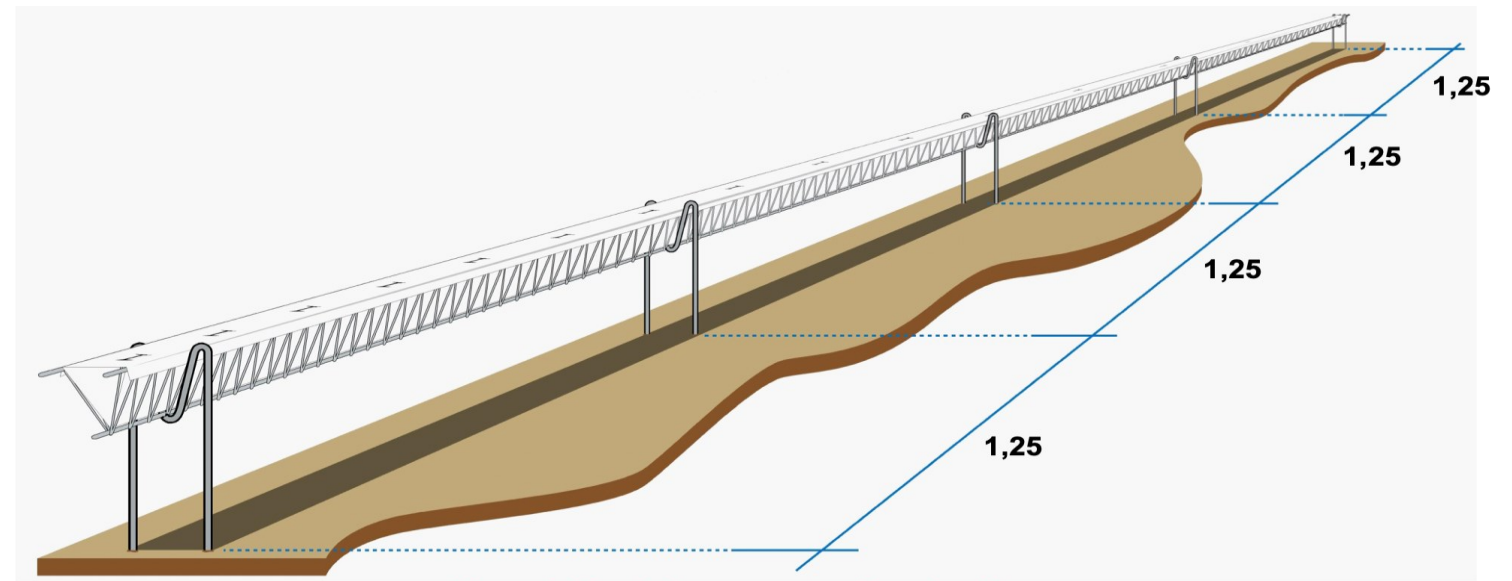




NGS-berry



Blueberry Fixed System Diagram



Layout of M-Supports in a Row



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NGS-berry+

Advantages

Higher Density

x4 or x6 more plants per ha than in traditional plantation.

Space Utilization

Shorter ROI time through increased space usage

Reduced Problems

Better air flow around the plants, protecting them from humidity, phytosanitary products needs, dirt, etc.

Early Ripening

Plants ripen 2-3 weeks earlier. First crop ready after 45-50 days.





NGS Oscillating System

NGS-berry+ is an oscillating system allowing full use (100%) of the growing area. Every row moves up/down and when a row is accessible at waist level, every other row is on the upper level. That means 50% of planted berries can be accessed at one time and up to 300,000 plants per hectare can be fitted in a controlled environment.



NGS-berry+



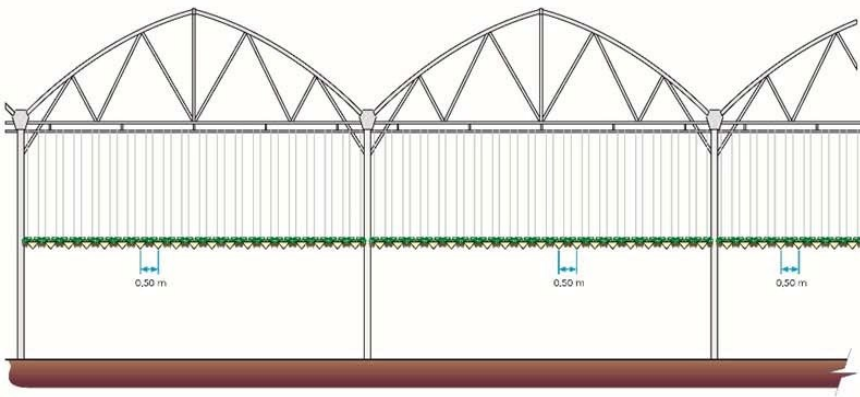


NGS-oscillating

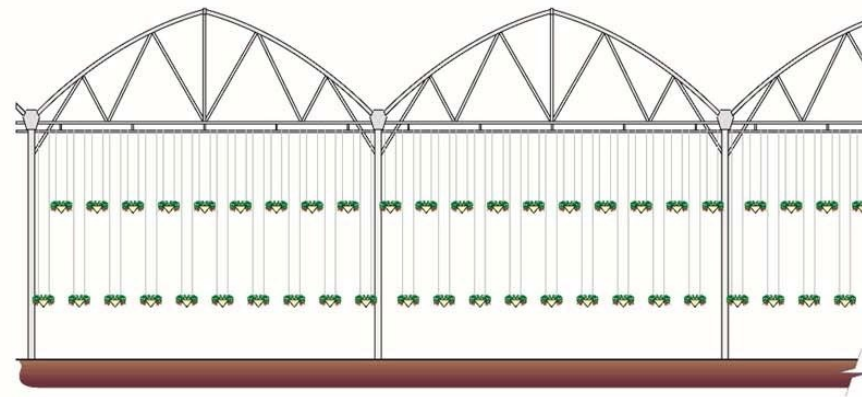


NGS-berry+

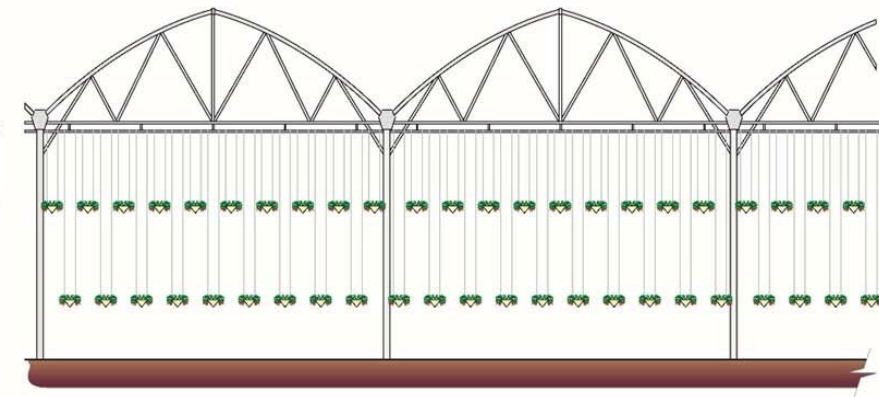
Oscillating System Diagram



Position 1



Position 2



Position 3

200,000 Plants / Ha



New Growing System



NGS Rotational System

NGS-berry+ has a rotational system allowing full growing tunnel usage (100%). Rows can be positioned above each other to favor aisle access or parallel to one another during growing mode, thus covering the entire greenhouse area.



NGS-berry+



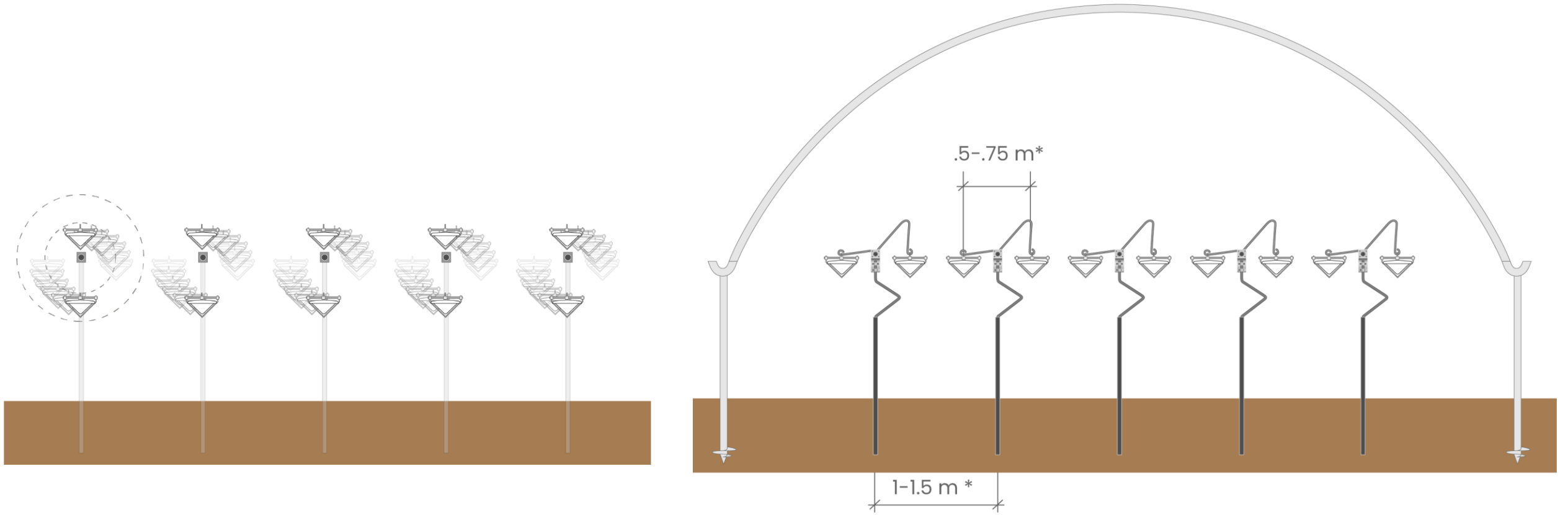


NGS-rotational



NGS-berry+

Rotational System Diagram



+153,000 Plants / Ha



New Growing System



NGS-berry+





NGS-leaf



NGS-leaf+



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System



NGS-leaf

Advantages

- The only hydroponic system worldwide which can be installed outdoors.
- Optimized water and nutrient solution usage thanks to a closed-loop irrigation system favoring reuse.
- ZERO WASTE. No discharges on the soil.
- Reduced carbon footprint as tractors are not needed to prepare the soil.
- Possibility to plant in non-fertile land.
- No propagation of plagues from the soil.
- Greater water and root oxygenation and no need to disinfect.



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NGS Open Field

NGS-leaf is a recirculating hydroponics system for open-field crops. This unique, simple and profitable solution is perfect to start in the world of hydroponics with a short-term investment.



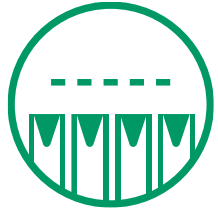
NGS-leaf





NGS-leaf





NGS Mobile System

The Mobile System allows water to flow through the layers, creating a waterflow effect which maximizes the amount of oxygen and favors full root growth.

The result? stronger plants and faster development.

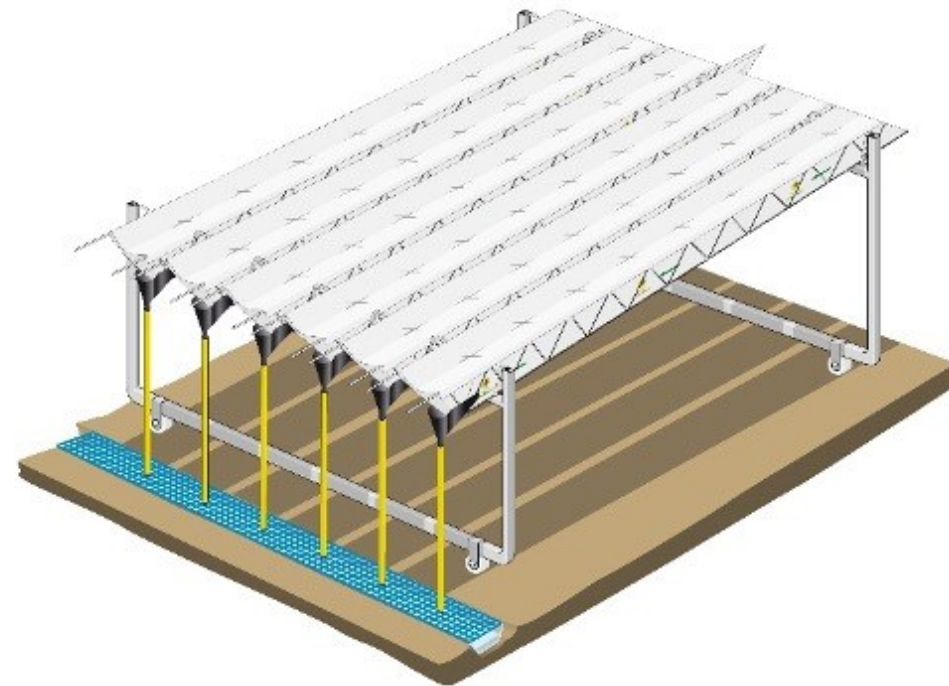


NGS-leaf





Mobile Support System Diagram





NGS-leaf+



Advantages

Higher Predictability

Greenhouse integration allows ongoing production, regardless of weather condition and free from soil diseases.

Increased Performance

40% more cycles than in traditional systems.

All-Around Process

Integration with flow pack lines and after processing / packaging lines.

Enhanced Monitoring

Maximized parameter control and optimized irrigation.





Multilayer NGS

This fully automated head-lettuce production system, includes all phases: growing, harvesting and replanting.

Once leafy greens grow to the programmed size (20 to 35 days after planting), they are harvested, cut, packaged and shipped, a process taking between 1 to 3 hours.



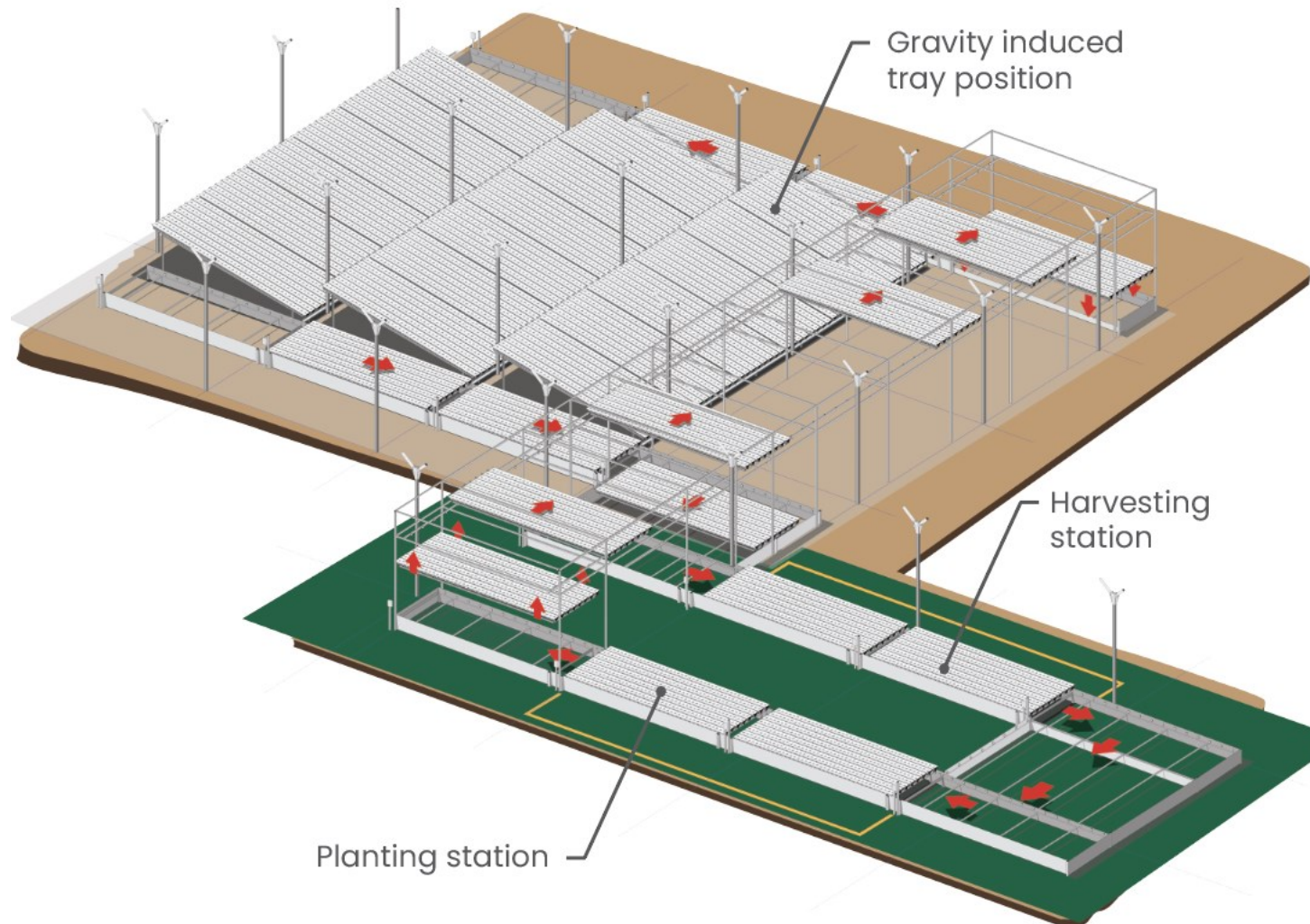


NGS-multiband



NGS-leaf+

NGS-multilayer System Diagram

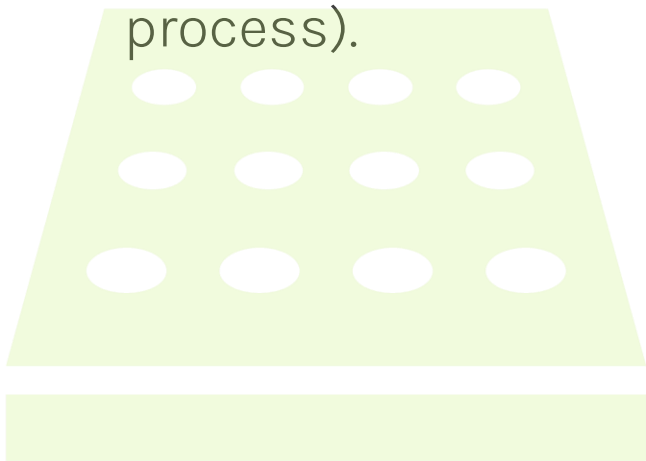


New Growing System

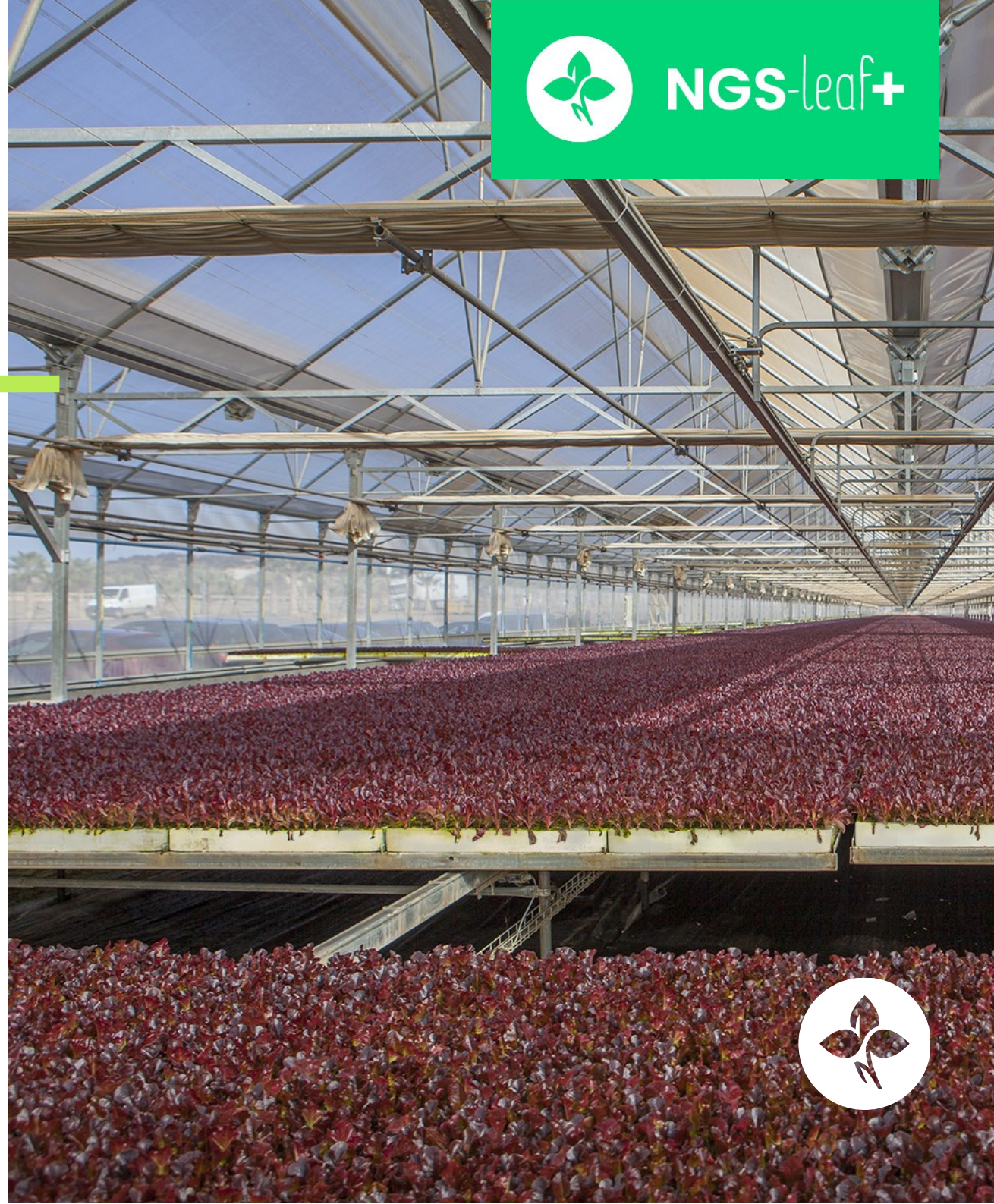


NGS Tray

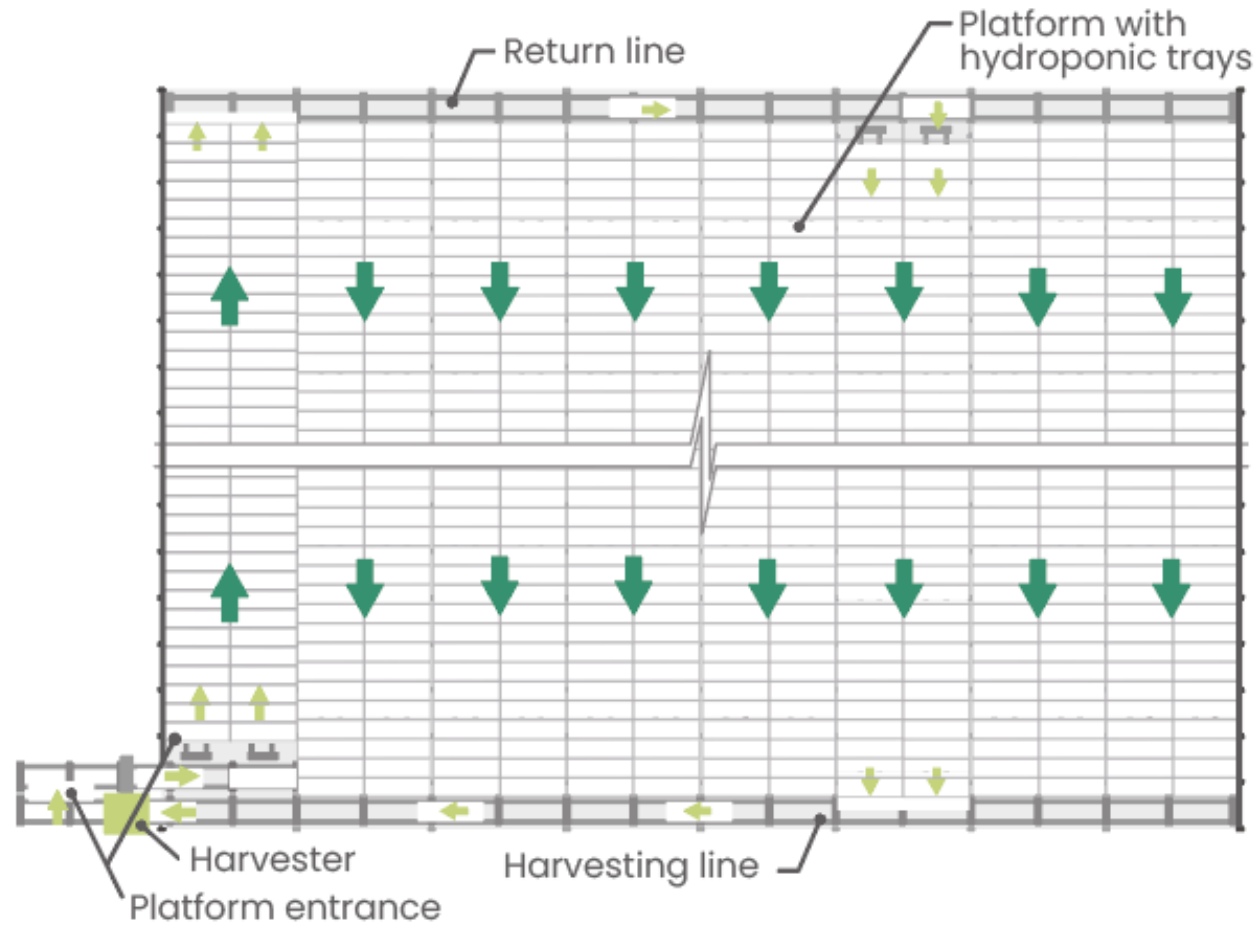
NGS-leaf+ is a fully automated hydroponic system which optimizes crop performance, from planting to harvesting (cradle-to-grave process).



NGS-leaf+



NGS-tray System Diagram





NGS-cannabis



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NGS-cannabis

Advantages

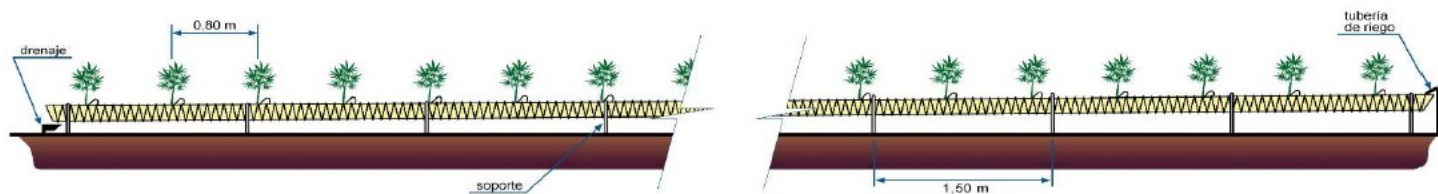
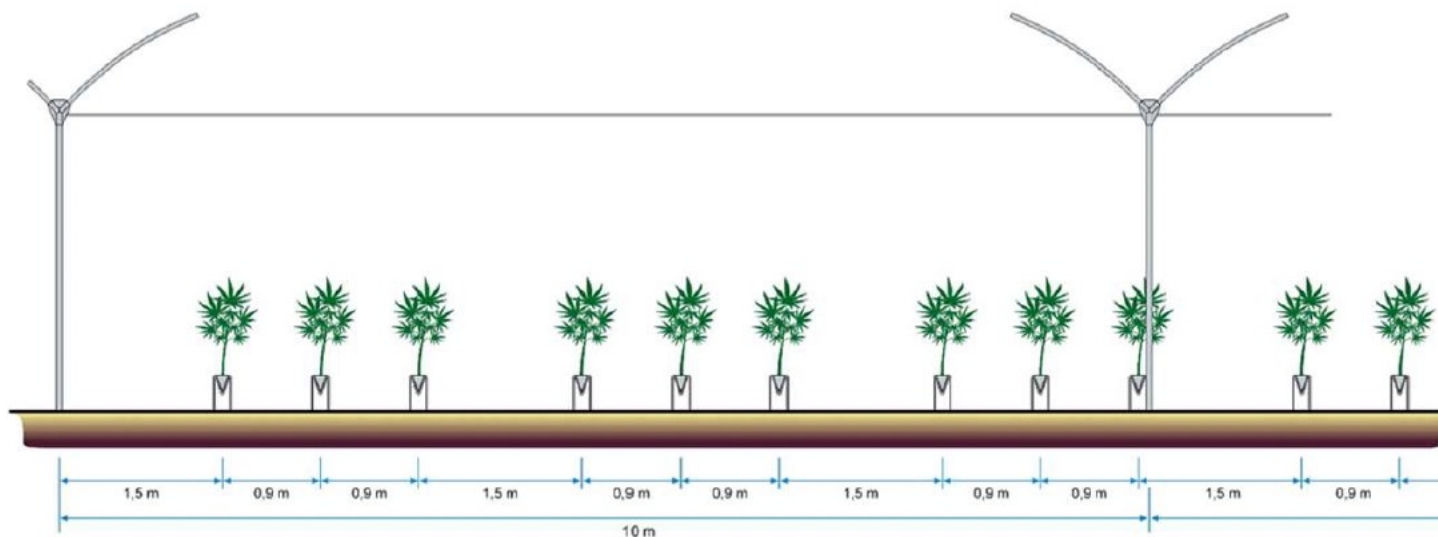
- Highly demanded product in the therapeutic and recreational industries.
- Legal framework favoring a fast-pace growth of this product.
- Intensive production cycle.
- Excellent commercial performance
- Optimized return on investment



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Diagram system spacing for cannabis





NGS-tropical



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NGS-tropical

Advantages

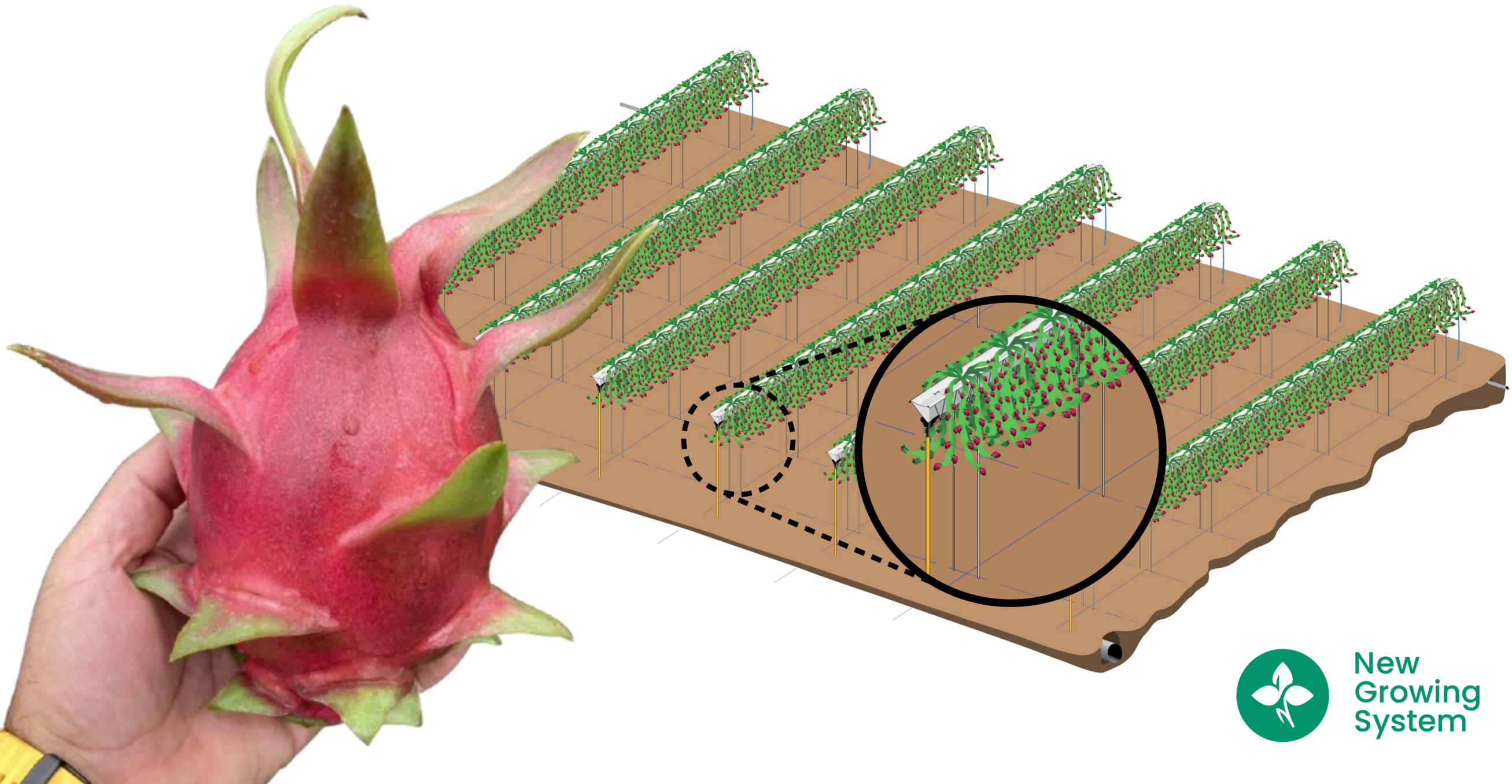
- Comprehensive control over fruit nutrition, quality and taste.
- Compatible with any type of greenhouse, without the need for additional trellis systems.
- Exclusive rights to the “caramel of desert” varieties, which do not require manual pollination.
- Reduced impact of plagues and illnesses.
- Zero Waste.



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Suspended system for dragon fruit





NGS-tropical





NGS produce



New
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NGS-produce

Advantages

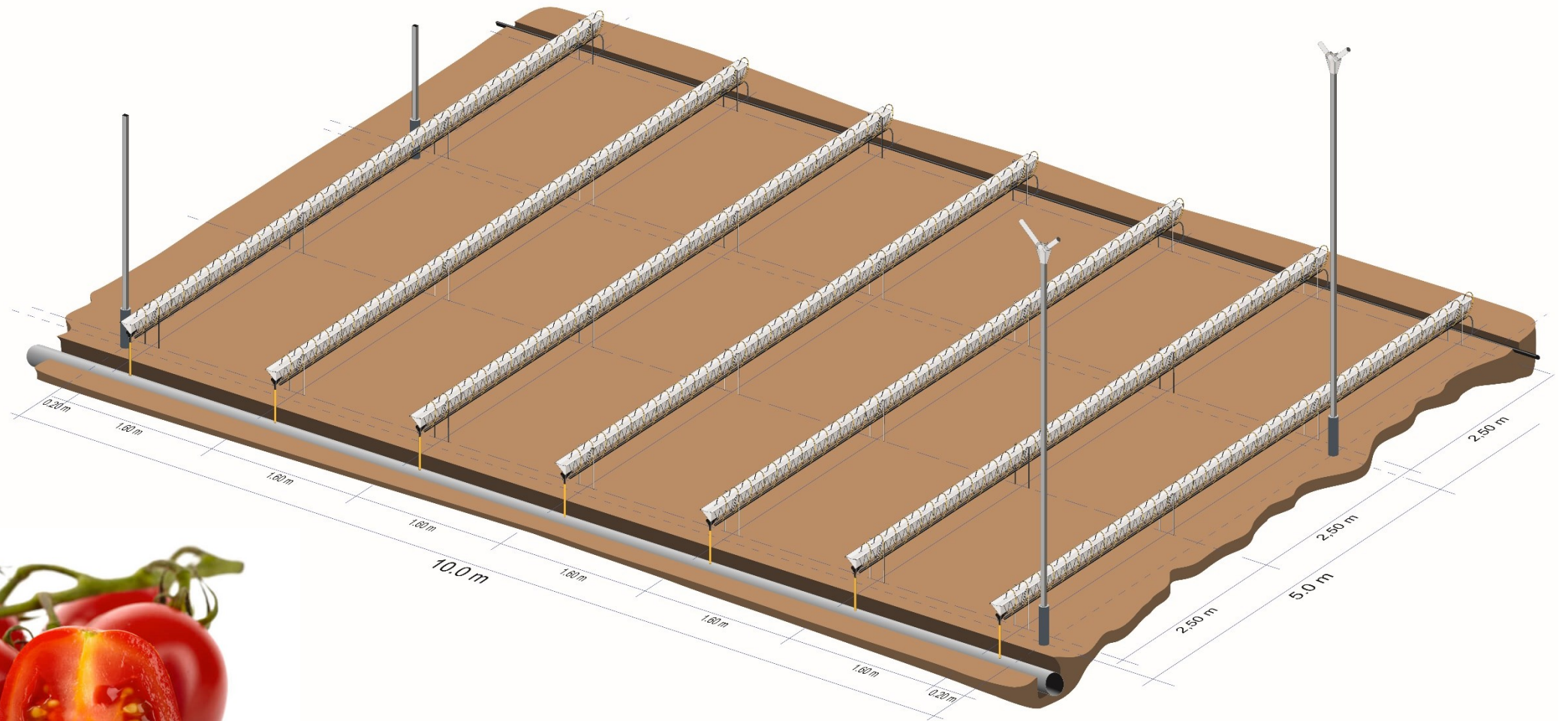
- No need for substrate and no discharges on the soil.
- Optimized water and nutrient solution usage thanks to a closed-loop irrigation system favoring reuse.
- Possibility to plant in non-fertile land.
- Greater water and root oxygenation and no need to disinfect.
- Compatible with any type of greenhouse, without the need for additional trellis systems.
- Reduced impact of plagues and illnesses.



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Row layout for tomato cultivation





NGS produce





NGS-garden



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NGS-garden

Advantages

- Product specifically designed for flower and ornamental plant producers.
- Advanced hydroponics favoring increased production and profitability.
- Constant production cycles and higher predictability.
- Optimal phytosanitary health and commercialization quality



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Greenhouses



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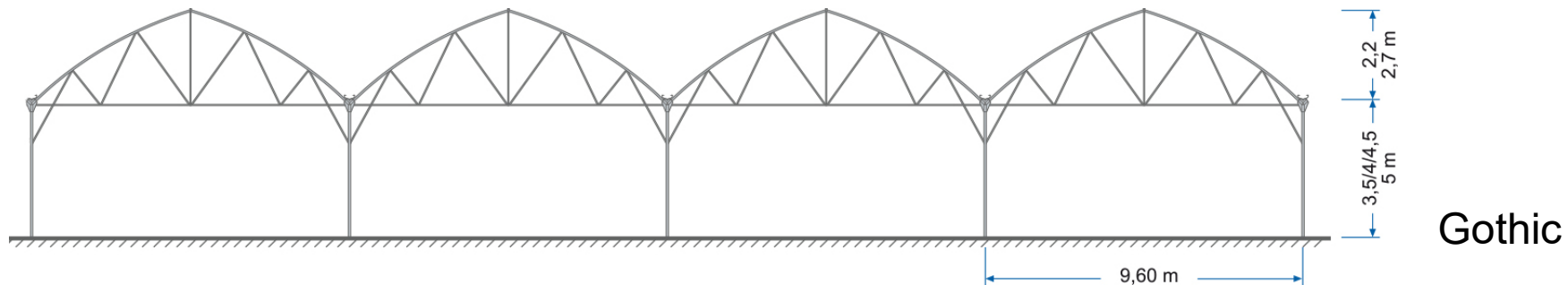
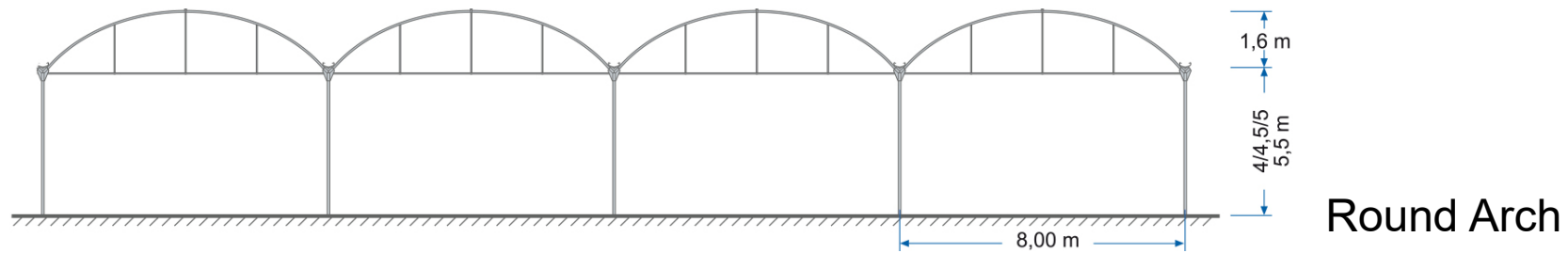
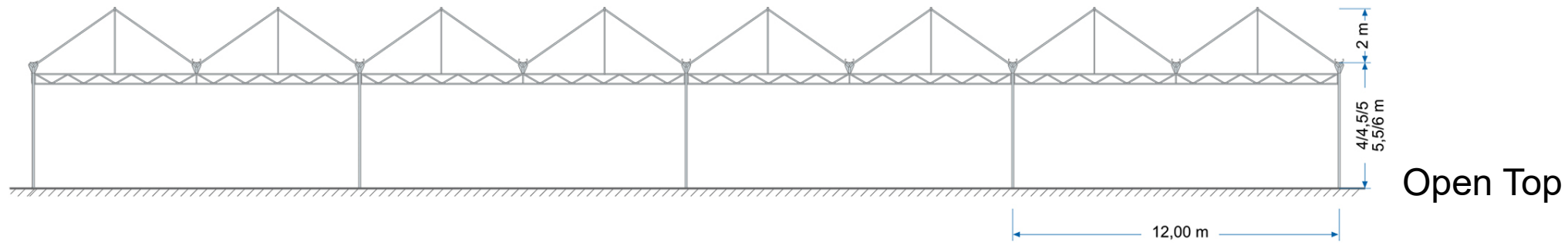
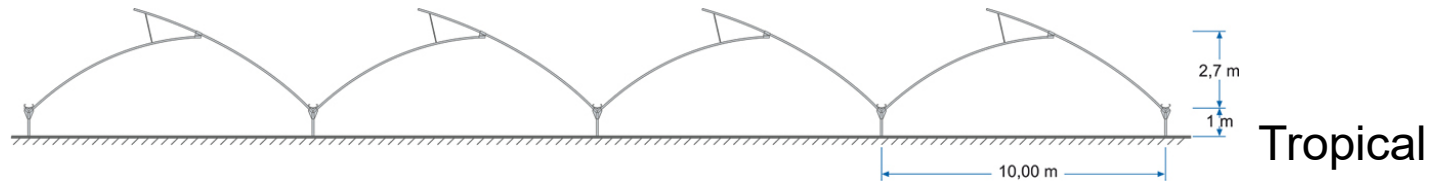
Greenhouses

We develop and build greenhouses known for high resistance, maximized productive surface and inner volume, excellent light conditions and use of hi-tech. All these factors contribute to higher crop yields.



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Types of Greenhouses



Quality Standards

We calculate and design our Greenhouses according to the European Norm EN 13051-1 (for Metallic structures, Greenhouse Multi Chapel with exterior plastic covering).

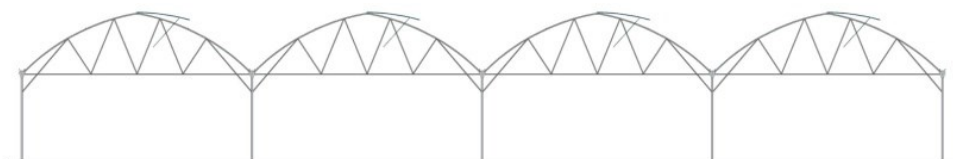


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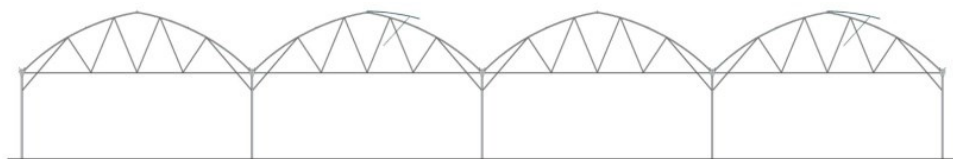




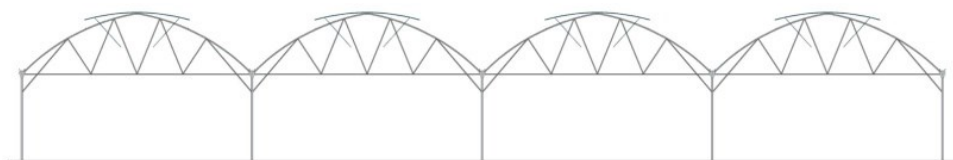
Ventilations



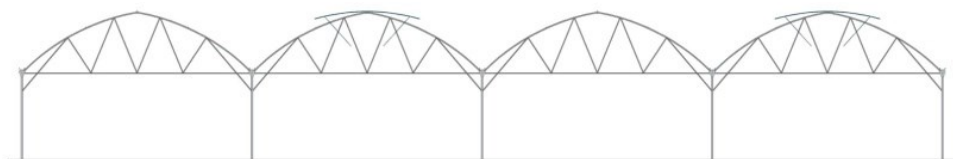
Simple zenithal



Simple zenithal alternate

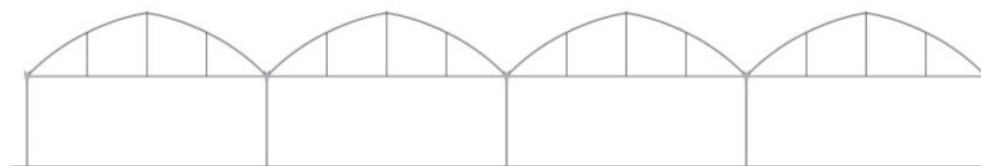
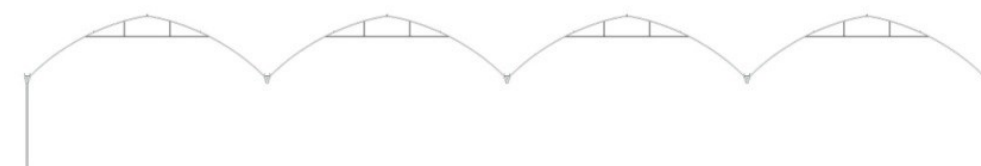
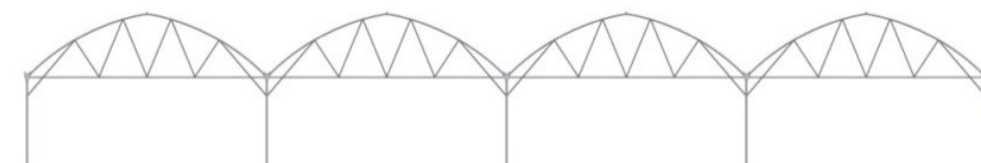


Double zenithal



Double zenithal alternate

Ventilations



Arcades



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Components





NGS

Multilayer NGS



The NGS multilayer gutter is made of polyethylene bands with UV absorbers containing inner opaque additives and outer reflective additives.

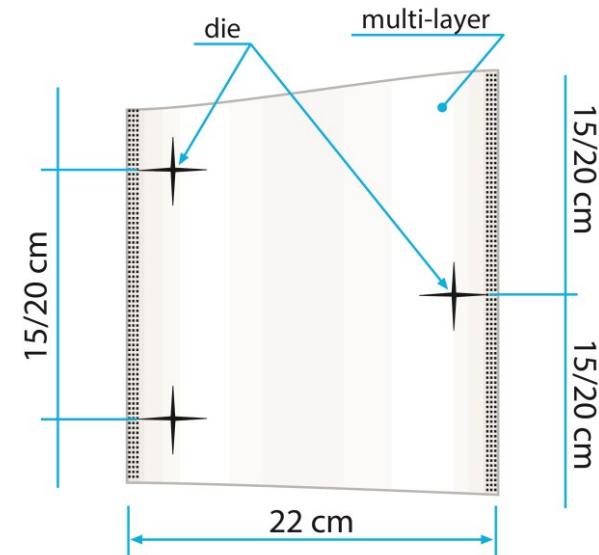
The use of tri-layer technology optimizes mechanical properties and photodegradation of the multilayer gutter.



NGS



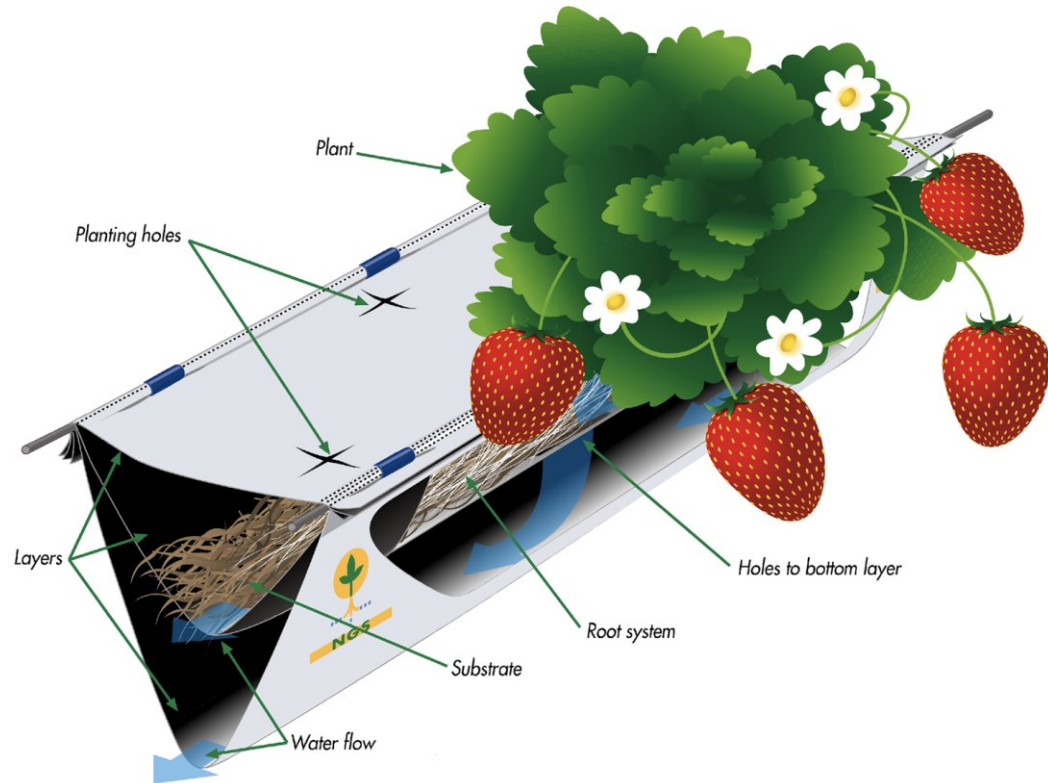
Multilayer NGS



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NGS



Multilayer Gutter Advantages

- Clean and Sustainable Technology: Fully RECYCLABLE.
- Light, versatile and durable system.
- Ensures the uniformity in size and quality throughout the crop.
- Healthier plants, less pesticides and fertilizer needed.
- Maximum root oxygenation = better growth.
- Early ripening



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Drainage & Irrigation



Programmable Irrigation

Let our system do the work for you



No Waste

Drain channeling allows recirculation



Optimized Drainage

Header collects and reuses solution



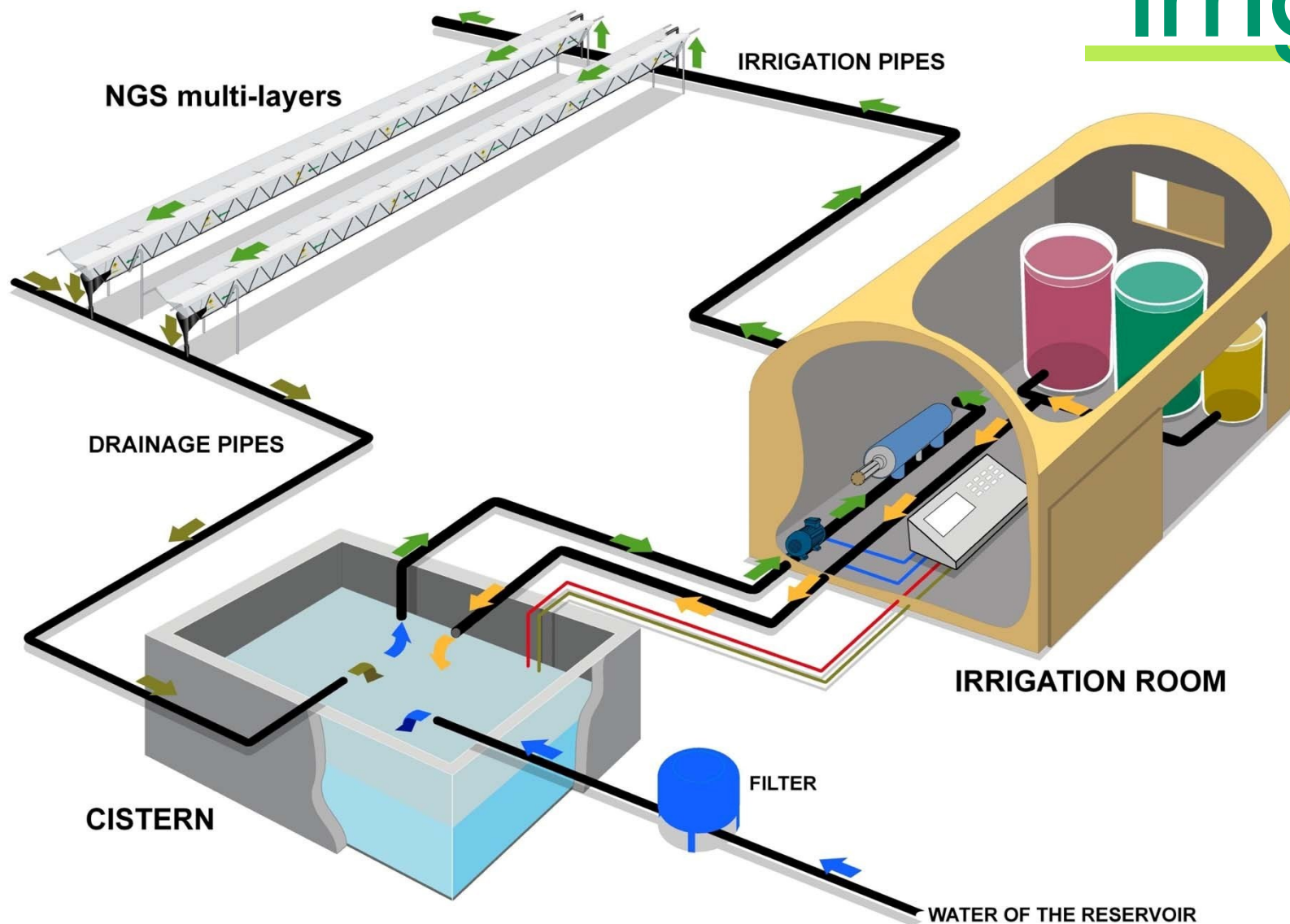
Environmentally Friendly

Cuts down on water and fertilizer



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Drainage & Irrigation



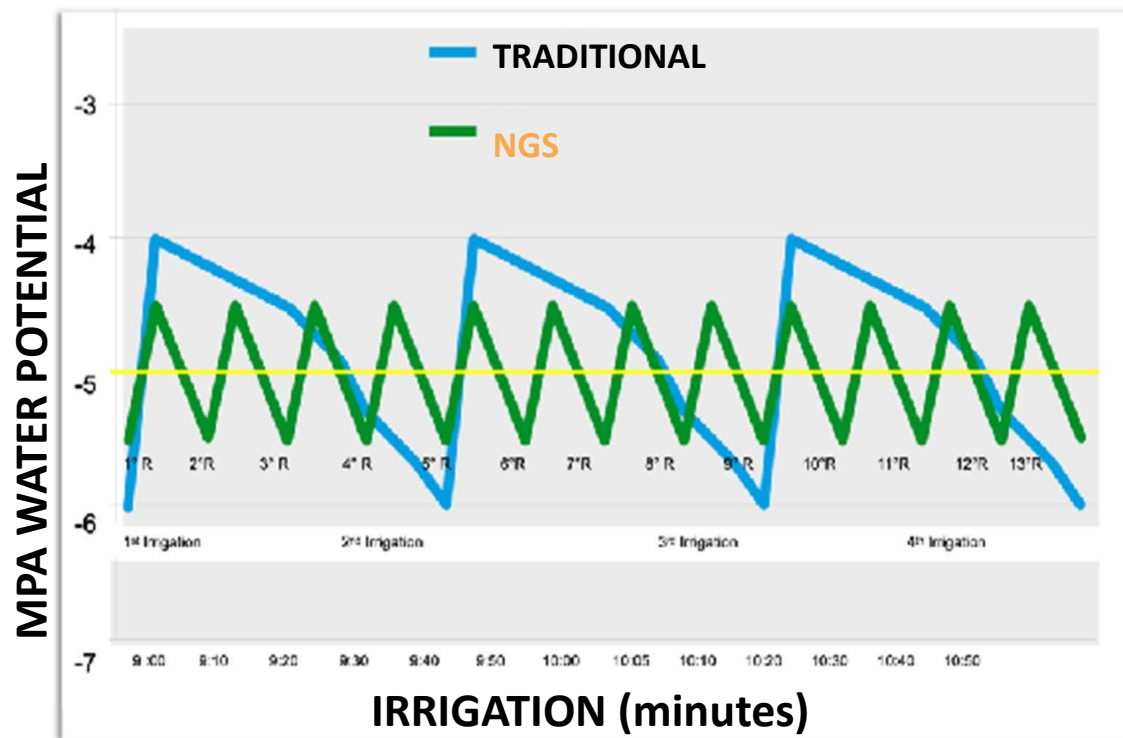
NGS models favor water and fertilizer savings by channelling drain collection and reusing nutrient solutions.

NGS irrigation systems work in a closed circuit, thus ensuring full water usage and preventing excessive salinization.

Drainage & Irrigation



Enhanced Balance
Healthier Growth
Water Savings

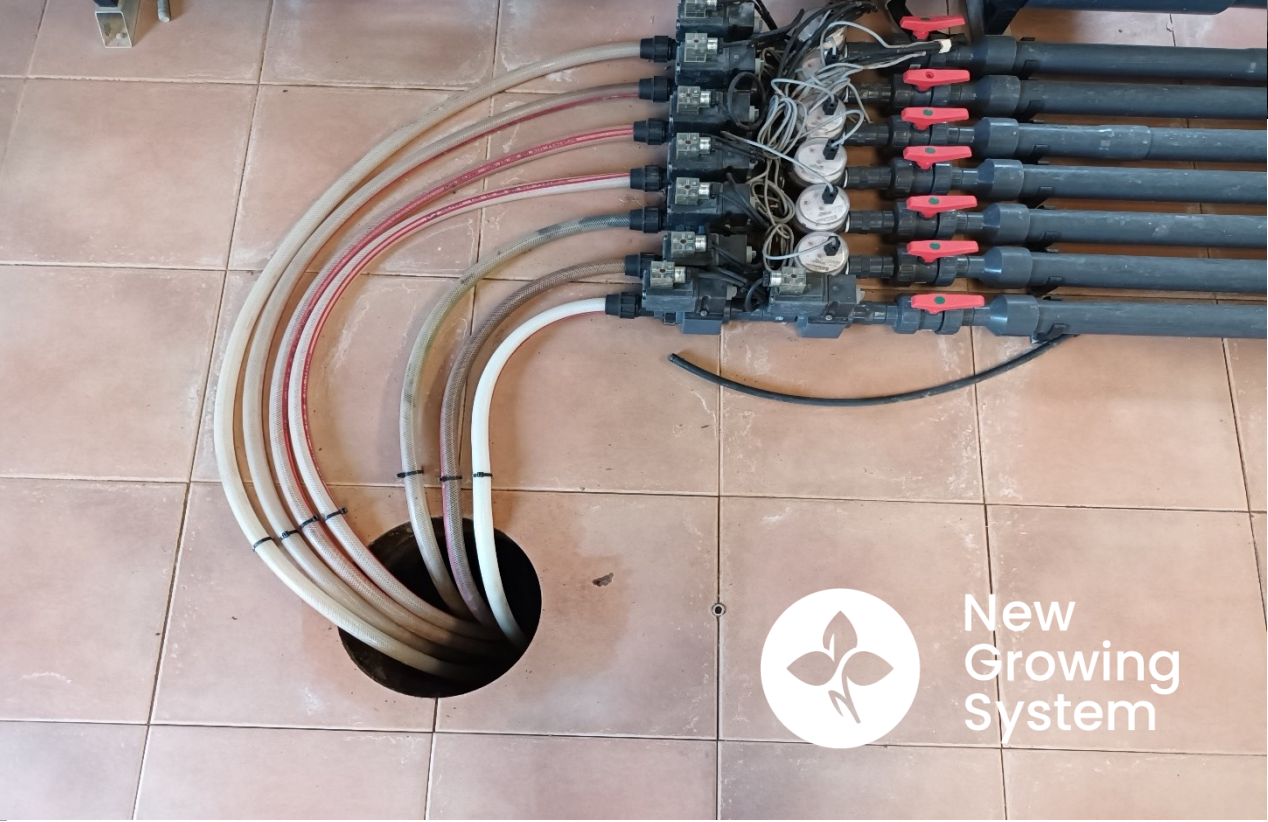




Research & Development



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Projects



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NGS-berry

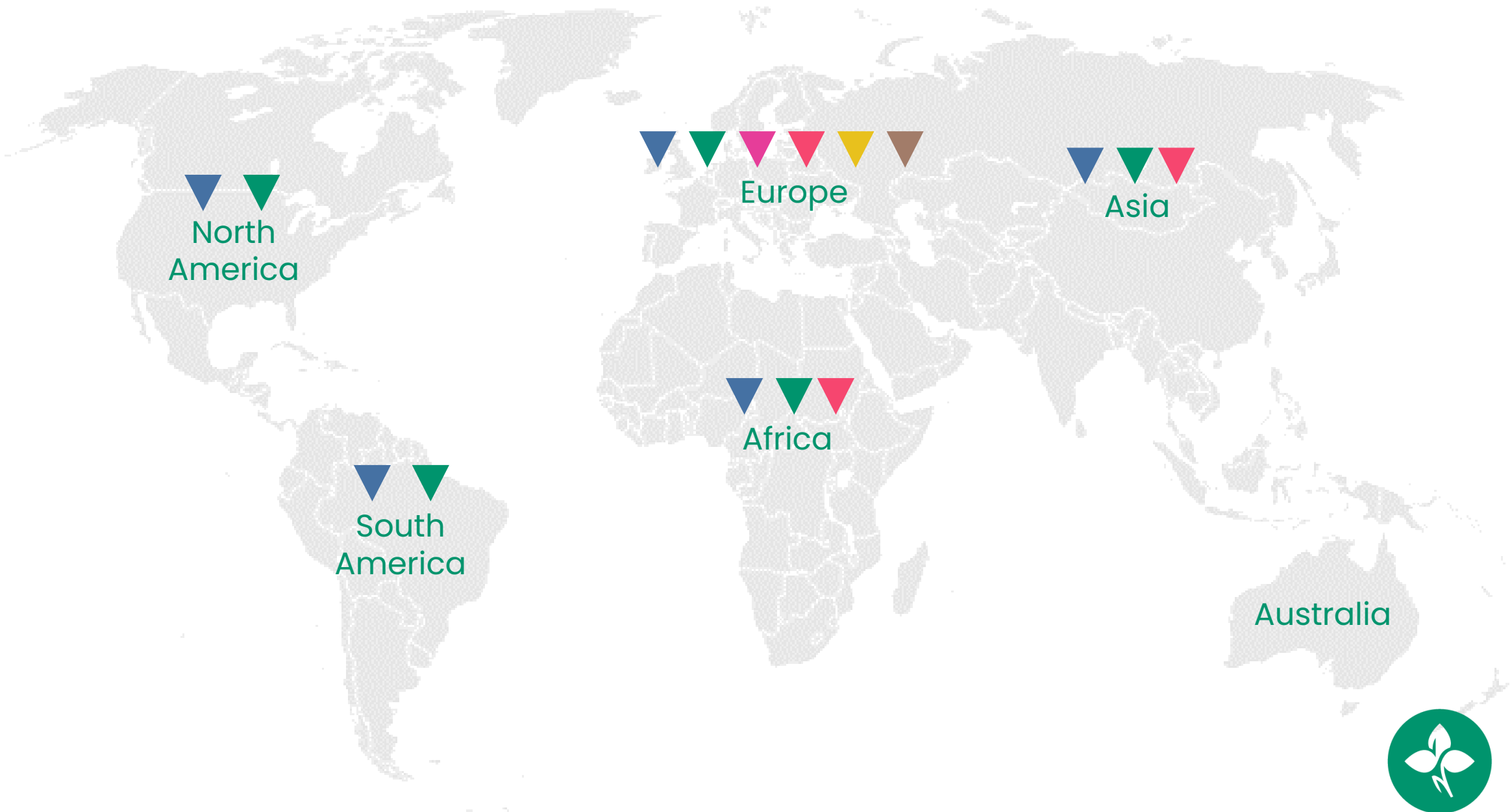
NGS-leaf

NGS-tropical

NGS-produce

NGS-garden

NGS-cannabis





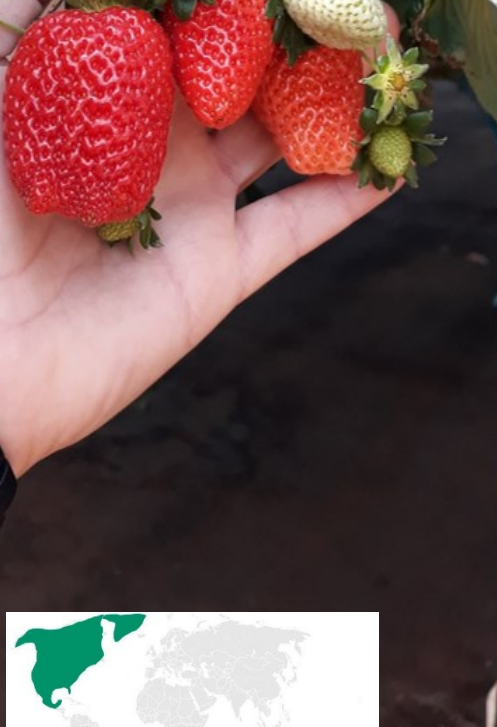
NGS-berry+



Blazer Wilkinson (NGS-berry+ rotational), USA



NGS-berry+



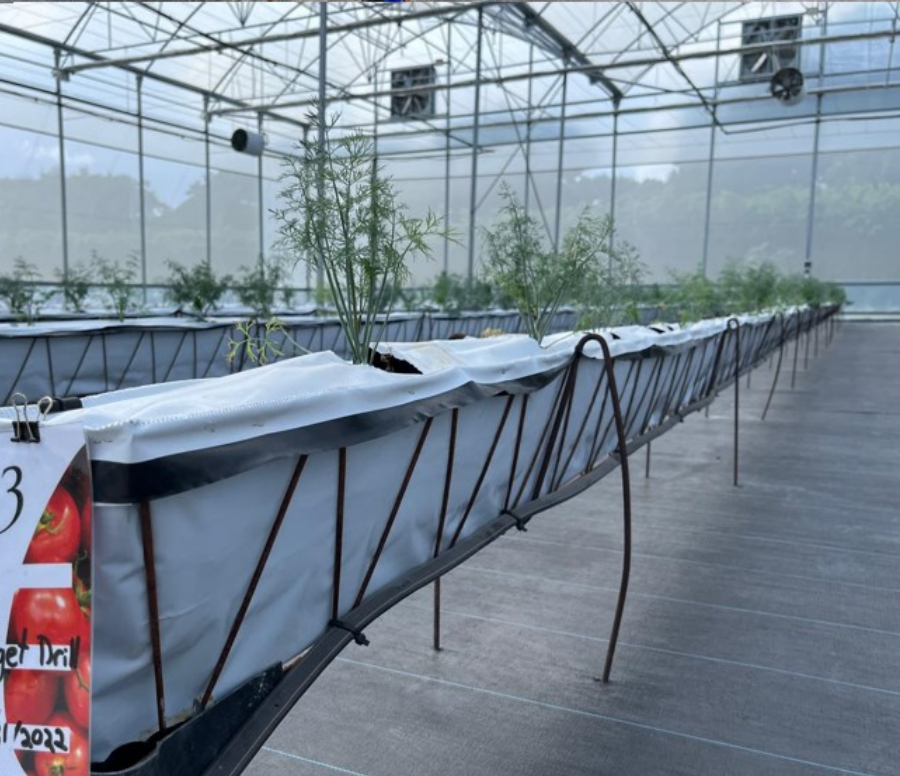
Ignacio Castillo (NGS-berry oscillating), Mexico



NGS-leaf



Cornucopia Farms (NGS-leaf), USA





NGS-leaf



Organika lechugas (NGS-leaf), Mexico



Fernando Project (NGS-berry+ oscillating), Uruguay



NGS-leaf



Aurora Project (NGS-leaf), Colombia



NGS-leaf



Selected Crops (NGS-leaf), Panama



NGS-berry+



Happy Fruits (NGS-berry+ oscillating), Bulgaria



NGS-berry+



New Forest (NGS-berry+ rotational), United Kingdom



NGS-berry+



Seaberry (NGS-berry+ oscillating), Portugal



NGS-berry+



Ifapa Las Torres (NGS-berry+ rotational), Spain



Cocón (NGS-leaf+), Spain



Les Jardins de Soliplanta (NGS-leaf), France



NGS-tropical



Las Palmerillas (NGS-tropical), Spain



Primaflor (NGS-produce), Spain



Strawberry King (NGS-berry fixed, double row), South Africa



NGS-leaf



Jacky Payet (NGS-leaf open field), Reunion Island



NGS produce



Mount Carmel (NGS-produce), South Africa



NGS produce



Moreau (NGS-produce), Reunion Island



NGS-berry+



Azamat (NGS-berry+ oscillating), Kazakhstan



Barakat (NGS-leaf+), United Arab Emirates



XXXX (NGS-leaf), Laos



NGS-leaf



Mega Ziroat (NGS-leaf), Uzbekistan



NGS produce



Barakat (NGS-produce), United Arab Emirates



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