



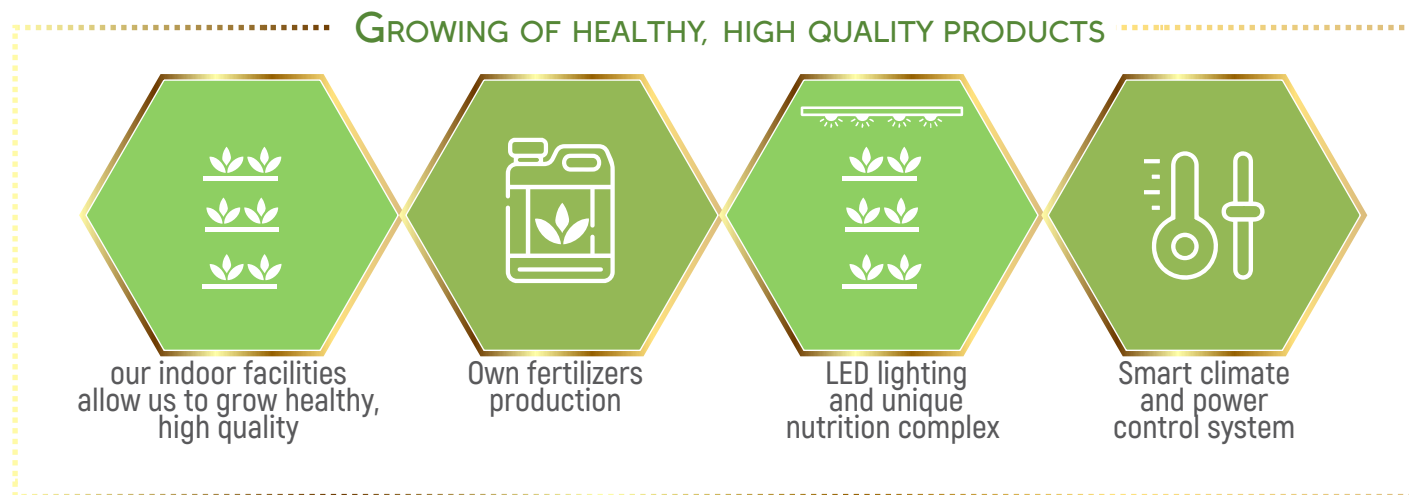
AGRONAMA
أغروناما

Organic Approach to healthy future

ABOUT US

AGRONAMA is joint project of BIO-Alternativa SRL and Pure Alternativa AG

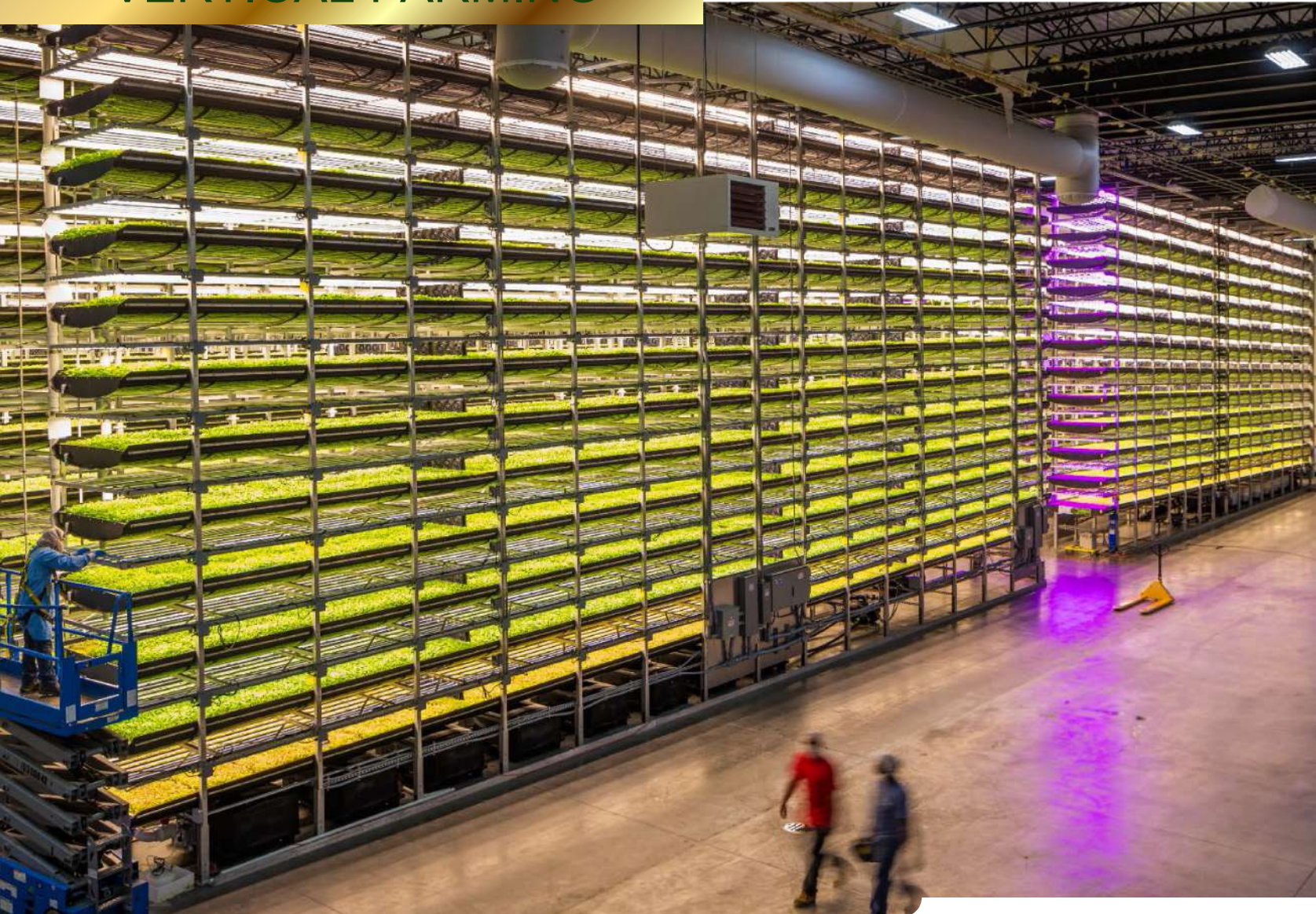
We are the team of entrepreneurs, economists, engineers, agricultural technologists and scientists, composed of nature lovers, humanists and innovators.



Unique technology of growing and nutrition system to achieve the best quality and taste characteristics. We produce eco-friendly, sustainable plants.

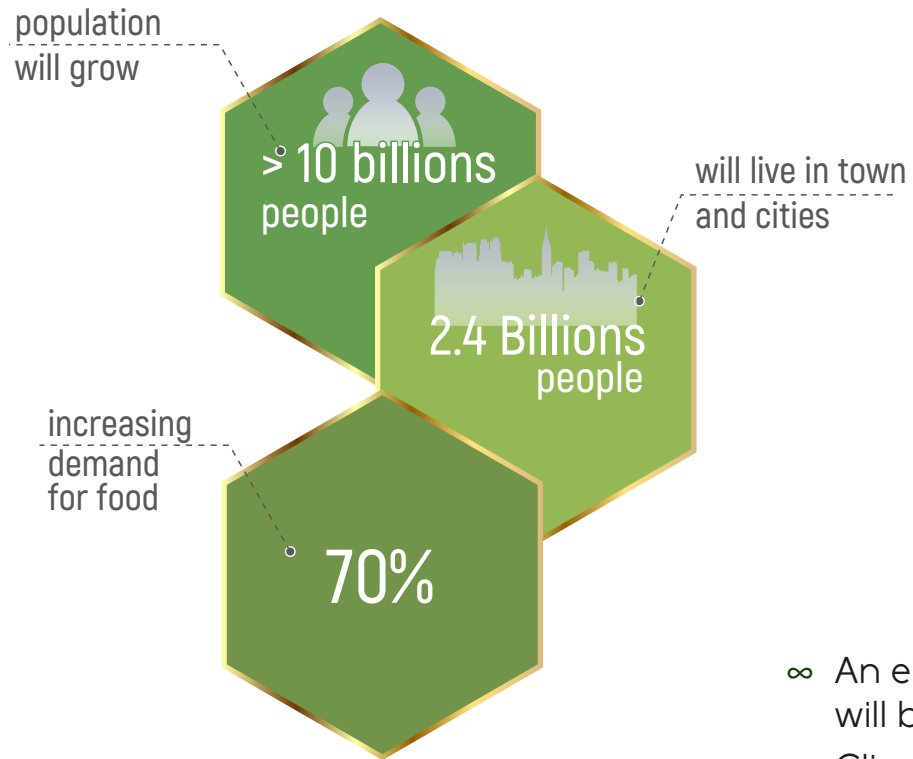
We are bringing natural ways back to agricultural practice through AGRONAMA vertical farming projects by increasing the production and efficiency through innovative green technologies.

VERTICAL FARMING



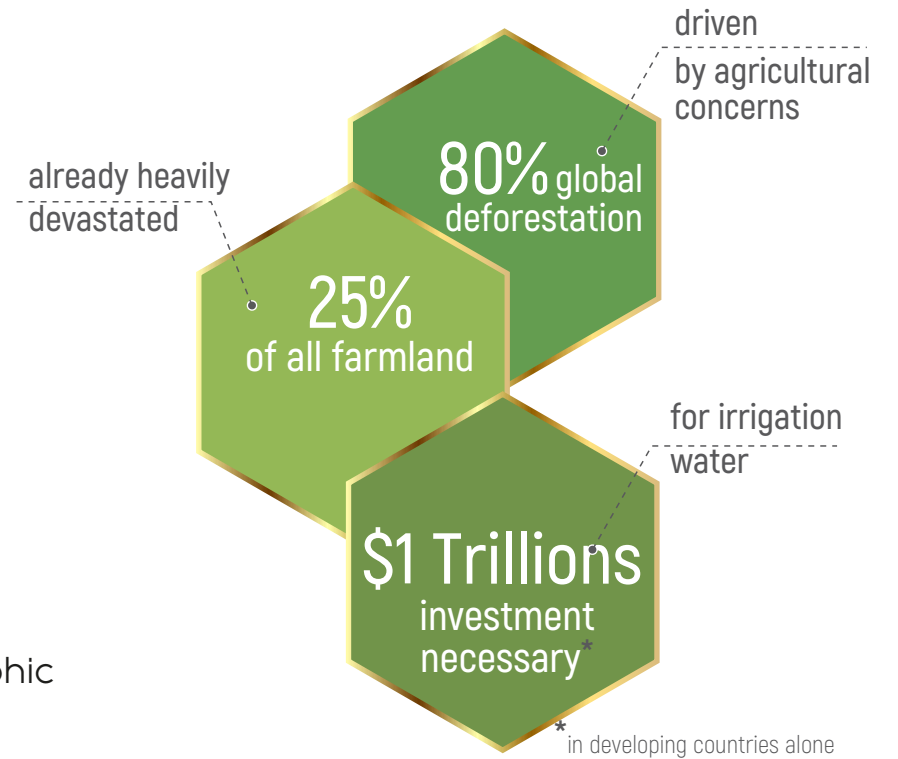
- ∞ Vertical farming is the process of growing food in vertically stacked layers, producing food in challenging environments where suitable land is unavailable. Associated with urban farming, it uses soil, hydroponic or aeroponic growing methods.
- ∞ The process uses 90 percent less water, less fertilizers and nutritional supplements, no pesticides, while boosting productivity.
- ∞ Vertical farms grow products year-round, allowing to reach potential yields that are much more productive than traditional farm of the same area

CHALLENGES OF AGRICULTURAL INDUSTRY



INCREASE IN DEMOGRAPHIC
by 2050

- ∞ An elevated increase in demographic will boost demand for food
- ∞ Climate changes is reducing productivity in agriculture



NATURAL RESOURCES
by 2050

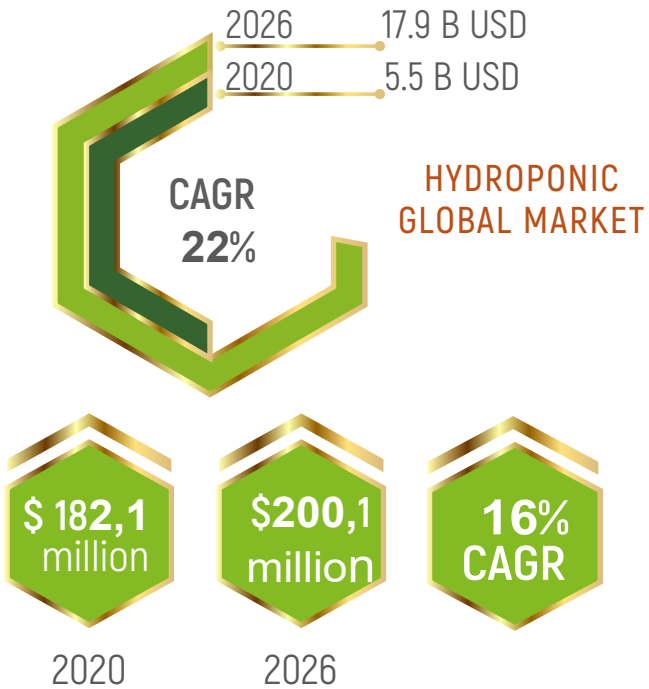
GLOBAL DRIVERS OF VERTICAL FARMING

- ∞ Urbanization rate
- ∞ Land Use change and environmental degradation
- ∞ Supply chain Discrepancies
- ∞ Demand for better health food
- ∞ Climate change impacts



BENEFITS OF VERTICAL FARMING

- ∞ No pesticides and Herbicide
- ∞ Circular Resource Use
- ∞ Hyper Local
- ∞ Better Flavor and Nutrition value
- ∞ Higher predictable yield days per year
- ∞ Production independent of Climate and Location



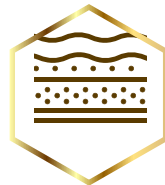
The global vertical farming market was valued at \$5.5 billion in 2020, with an expected CAGR of 22% through 2026.

The Middle East's regional contribution is driven by its climate and high demand for sustainable agriculture.

MAIN DRIVERS OF CEA DEVELOPMENT IN EU



CLIMATE
CHANGES
AND
URBANIZATION



SOIL
DEGRADATION



DEFICIT OF NATURAL
SOURCES

WHY HYDROPONIC

All products
are delivered fresh



Yield 365 days a year



ready to eat

The consumer is always the first person to touch the product

The unique taste of product is the result of an extremely innovative cultivation method which by replacing chemicals with technology and organic inputs allows to control every parameter and provide customers with perfect taste and quality of products

WHY HYDROPONIC

- ∞ 90% less water Usage
- ∞ Zero agrochemicals
- ∞ Zero soil erosion
- ∞ 2x growth rate
- ∞ Farm to fork instantly
- ∞ Sustainable



VERTICAL FARMING TECHNOLOGY



- ∞ A well balanced CEA facility
- ∞ Lighting, internal logistics, water, automation, data and sensor, HVAC, crop
- ∞ Why indoor farming
- ∞ Controlled environment



- ∞ Improving the growing yield per sq meter
- ∞ Less manpower requirement
- ∞ Faster growing of products

KEY COMPONENTS OF INDOOR FARMING

With vertical farms, you always have
a predictable yield

Natural fresh greens with guaranteed yield
and quality all year round in any location

Hygienic products with food safety



climate
control



water
saving



light
control

software &



automation

VERTICAL FARM BENEFITS

- The same production cost all year round
- The same high-quality super fresh products without pesticides 365 days per year
- Fully automated farm reduce labour cost
- City locations ensure short supply chains and minimal logistics to transport products to distributors and warehouses
- Cost saving due to transport cost
- Less use of water and nutrients



WORLD BIGGEST VERTICAL FARMING COMPANIES



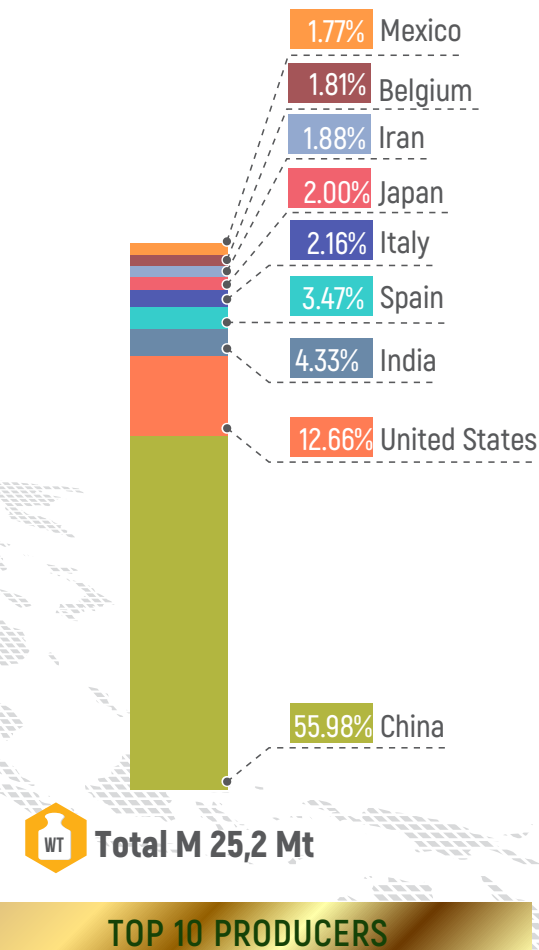
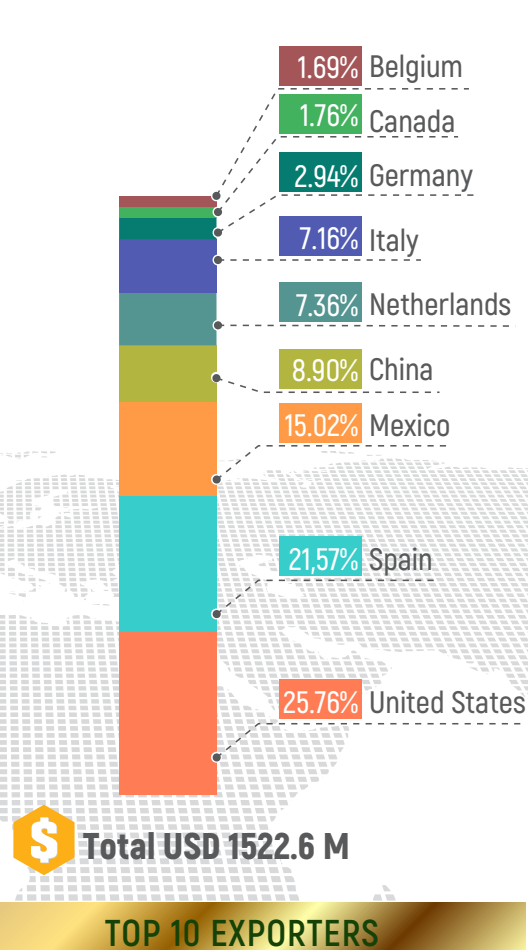
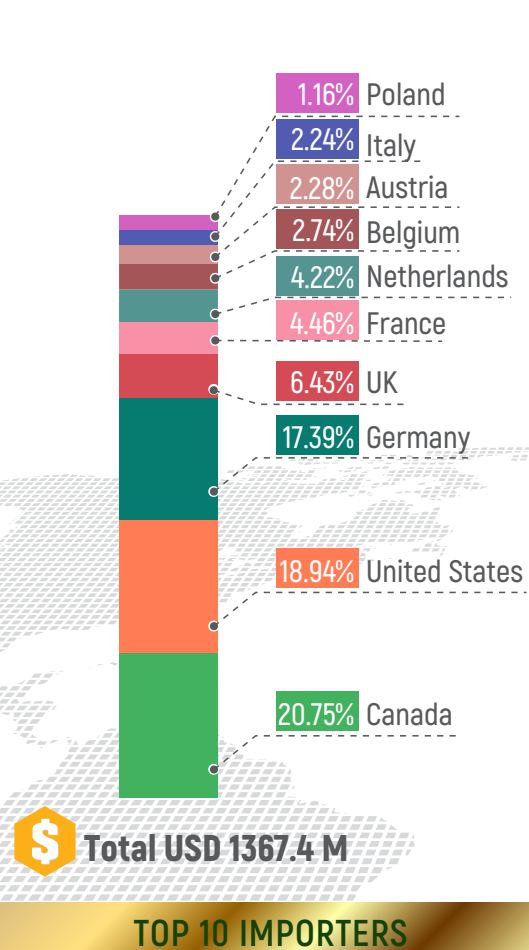
Total funding 1 BLN USD



Total funding 258 mln USD

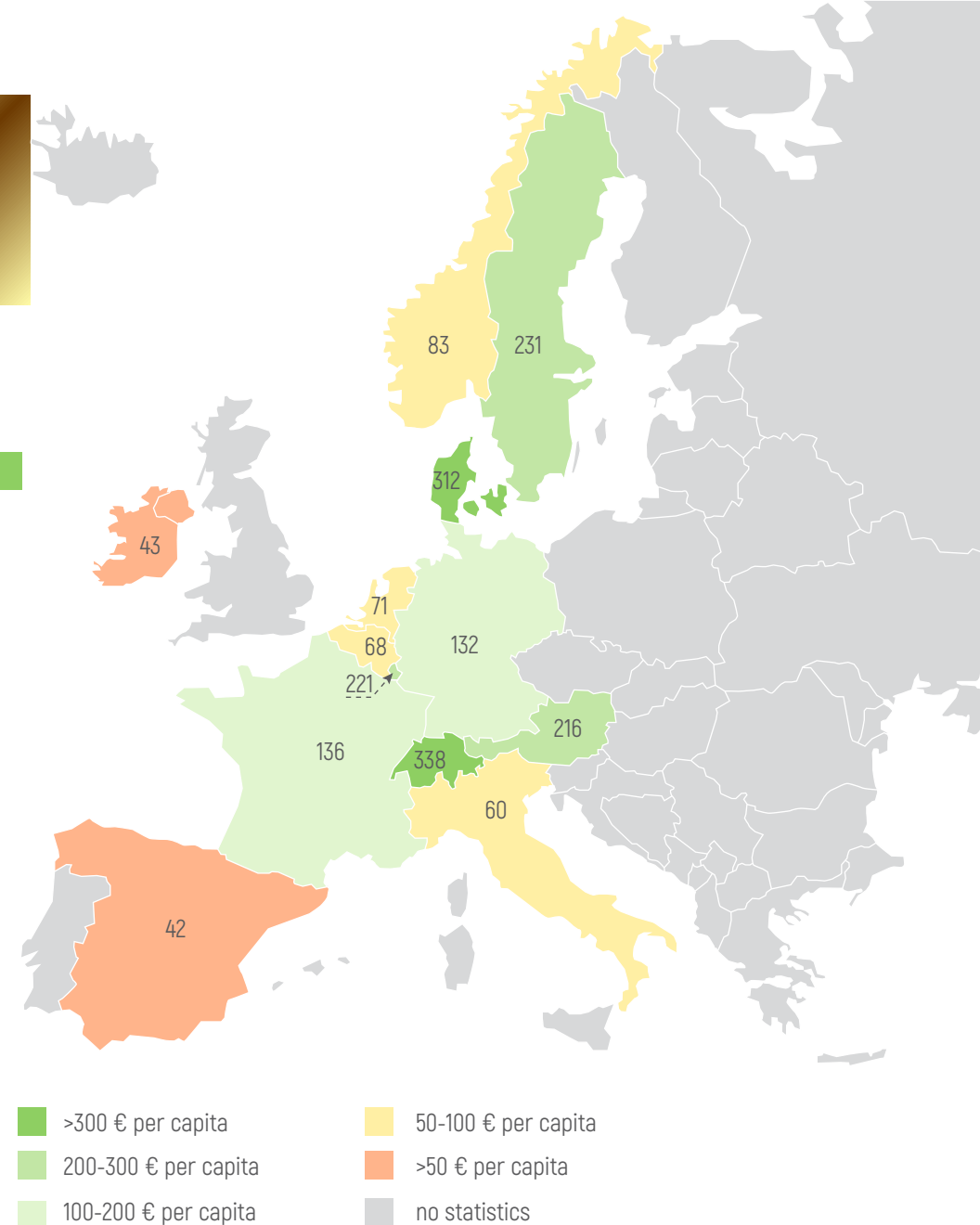
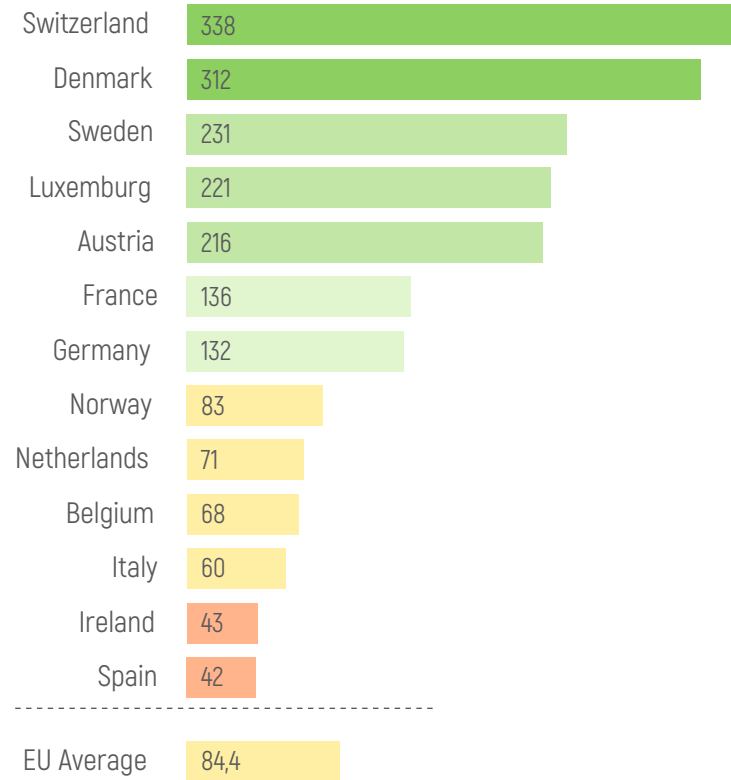


WORLD MARKET OF GREEN LEAFY PRODUCTS





SPENDING ON ORGANIC FOOD (EURO) PER CAPITA



OUR TECHNOLOGY

Full Spectrum LED lamps produced in EU are used under conditions of zero sunlight, in particular in enclosed spaces of the indoor system fully ensure the balanced growth of the plant and its full development

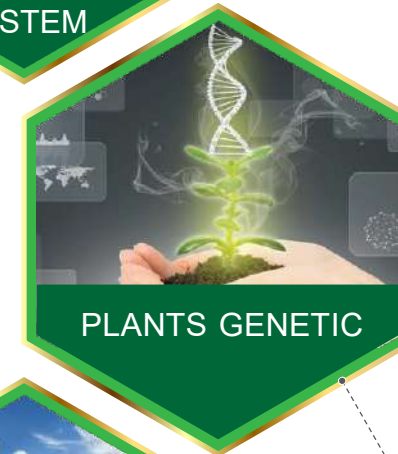


Innovated automation and control; system allows to control all essential parameters of Vertical Farm to ensure stable, predictable performance of all facility


2 TIMES less
project cost
1,6 TIMES more
effective



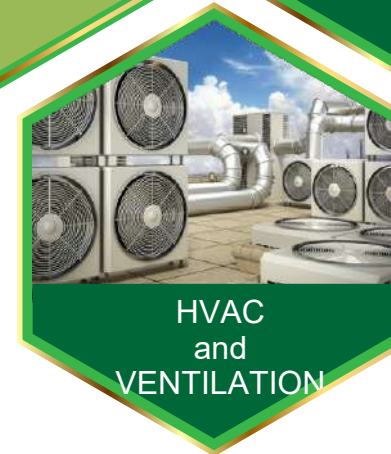
Unique nutrition system Fertil Verde based on organic fulvic and humic acids developed by Bio-Alternativa SRL provides to reach stable parameters of yield and high quality products with incredible taste characteristics



All seeds are chosen with the best genetic and treated by cold plasma



NFT type of irrigation system provides plants with constant, steady feeding



Specially designed HVAC and Ventilation system ensures the achievement of the main regulatory indicators for temperature, CO2 and humidity, and also provides a sufficient supply of fresh air for the normal development of the plant



OUR FARM



750 m²
Growing area



450 m²
Building area



Yield

20

kg per m²

15 000

kg per month

180 000

kg per year

TYPE OF CROPS



Lettuce



Basil



Frize



Mint



Valerian Leaf salad



Ruccola

STRATEGIC PLAN

VERTICAL FARM JOINT PROJECT IMPLEMENTATION IN AUSTRIA

Agronama project in Kingdom of Bahrain will be realized by Bio-Alternativa SRL.

Bio-Alternativa SRL is innovated company, producer of organic fertilizers, developer of vertical farming technology and unique nutrition system for plants growing in CEA

Bio-Alternativa SRL relocate office and own fertilizers production facilities in Kingdom of Bahrain

Strategic plan of company development

1. Realization of vertical farming project in cooperation with strategic partner in Kingdom of Bahrain
2. Realization together with strategic partner similar vertical farming projects in Austria, Ukraine and MENA region (countries of the Middle East and North Africa)
3. After the successful implementation of projects in the Kingdom of Bahrain, the company becomes the largest manufacturer and supplier of technology in the EU. By analogy with American companies, IPO listing of the company is planned



THANK YOU FOR ATTENTION



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