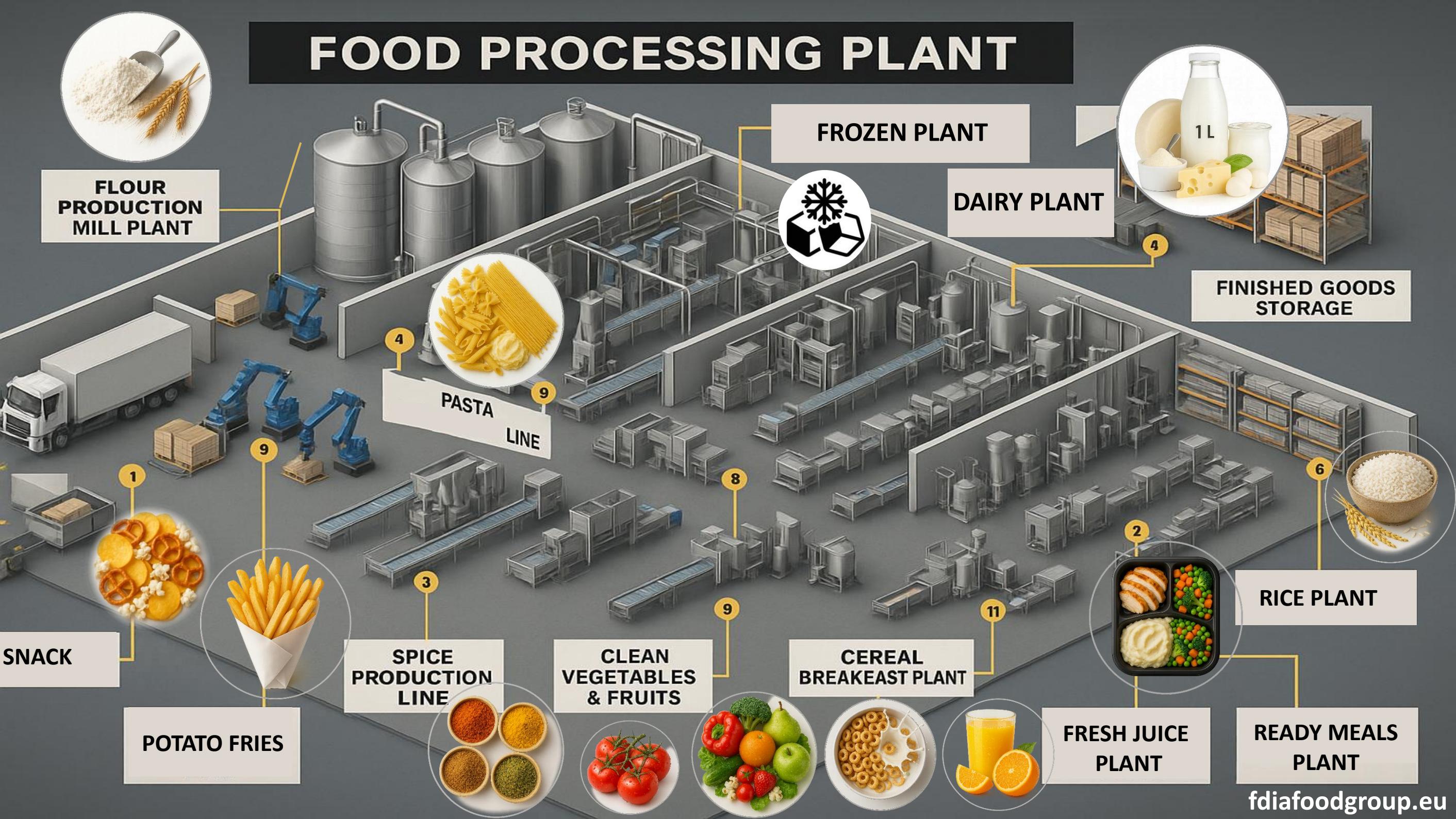




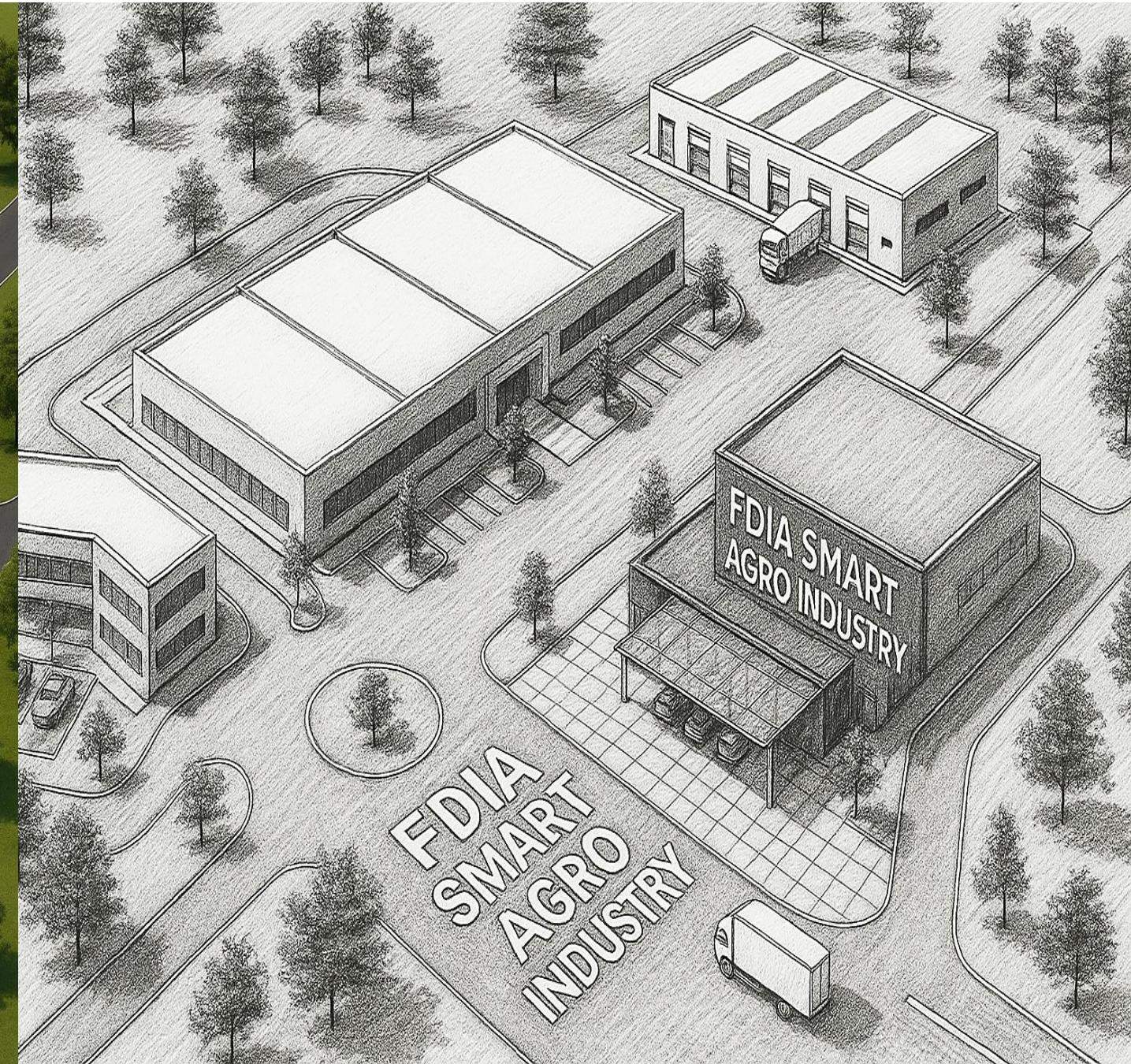
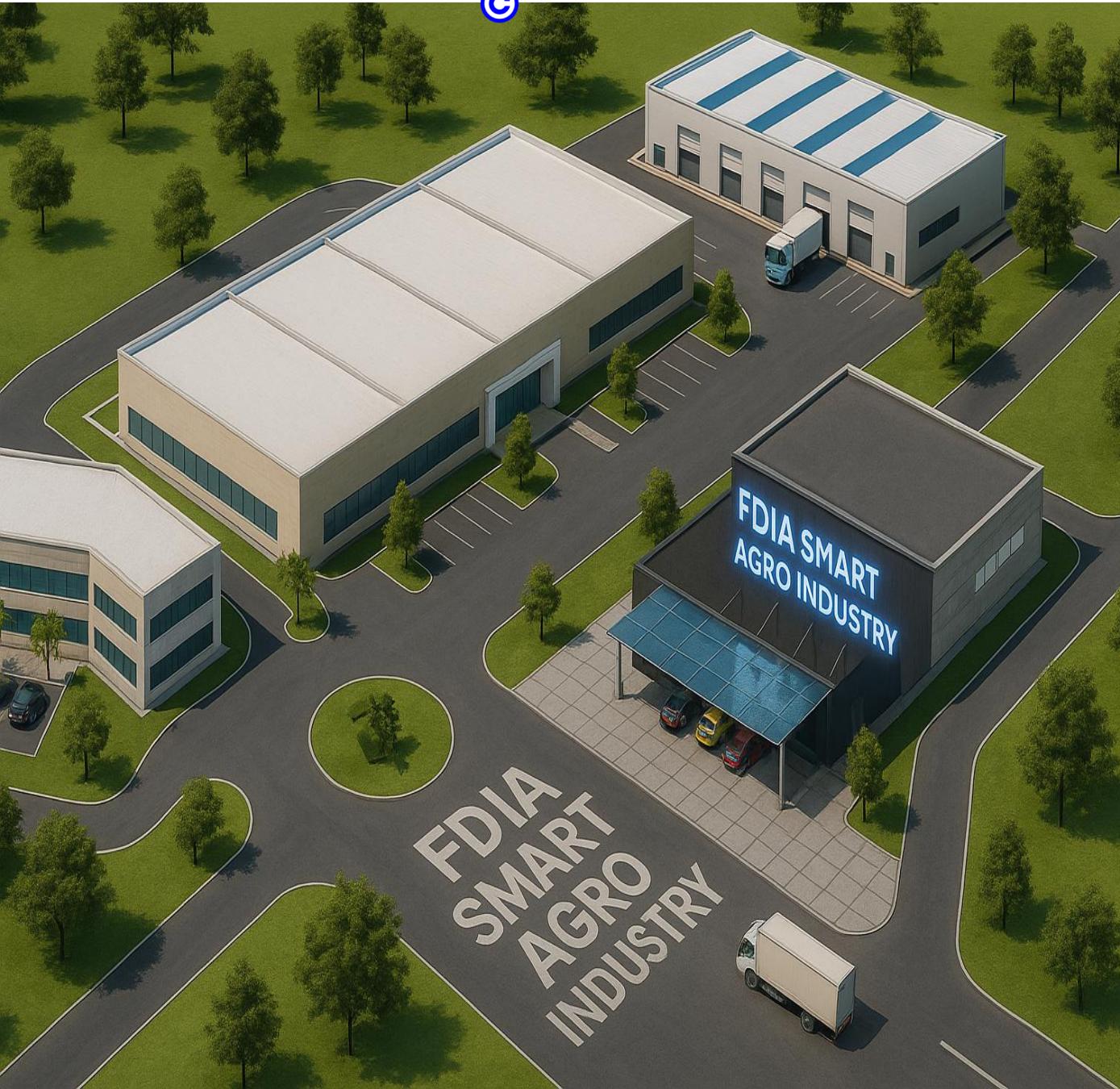
- ✓ **PLOT OF LAND: 20,5 HECTARES (HA) /205.000 SQM m<sup>2</sup>**
- ✓ **SMART DEPARTMENT STORE AREA:21,384 SQM**
- ✓ **HUMANITARIAN INFRASTRUCTURE:5,000 SQM**
- ✓ **PARK EXTERNAL RECREATIONAL AREA :10,000 SQM**
- SURFACE AREA OF SMART DEPARTMENT STORE:**
- ✓ Entrance/canteen: 375 SQM
- ✓ Office area: 510 SQM
- ✓ Warehouse area: 9,500 m<sup>2</sup> (AREA 1 + AREA 2 +AREA 3 + AREA 4)
- ✓ Food processing plant:3,000 m<sup>2</sup>
- ✓ Packaging department:2,000 SQM
- ✓ Vegetable & fruit freezer plant:5,499 m<sup>2</sup>
- ✓ Research & development area:500 SQM
- ✓ **AGRO FARM:ADDITIONAL HECTARES TO CULTIVATE TO BE DEFINED**
- ✓ **BEEKEEPING FARM: HECTARES TO BE DEFINED**
- ✓ **POULTRY FARM & LIVESTOCK: HECTARES TO BE DEFINED**
- ✓ **TOTAL INVESTMENT \$:TO BE DEFINED**



# FOOD PROCESSING PLANT



## 3D RENDERING SMART AGRO INDUSTRY





# AGRICULTURAL DEVELOPMENT

©



## ✓ FDIA AGRICULTURE 1.0

I FDIA ANIMAL POWER

## ✓ FDIA AGRICULTURE 2.0

II FDIA COMBUSTION ENGINE

## ✓ FDIA AGRICULTURE 3.0

III FDIA GLOBAL POSITIONING SYSTEM (GPS)

## ✓ FDIA AGRICULTURE 4.0

IV FDIA PRECISION & TECHNOLOGICAL FARM

## ✓ FDIA AGRICULTURE 5.0 SMART AGRO-INDUSTRY

V "PRECISION FARM 5.0", "ENERGY EFFICIENCY", "FARM SUSTAINABILITY", "RENEWABLE ENERGY", "INTERNET OF THINGS (IoT)", "BLOCKCHAIN", "INTERCONNECTION", "EMISSION CONTROL", "SOIL CONTROL", "BIG DATA", "ENERGY EFFICIENCY", "REMOTE SENSING", "ARTIFICIAL INTELLIGENCE", "WIRELESS SENSOR NETWORK," "AGRICULTURAL ROBOTS", "SMART AGRICULTURE", "AGRICULTURAL DRONES", "ALGORITHMS", "SOFTWARE".





- ✓ TRANSITION FROM TRADITIONAL FARMING TECHNIQUES TO AN INTERNATIONALISATION OF PRODUCTION WITH ADVANCED AGRICULTURAL TECHNOLOGIES & TECHNIQUES.
- ✓ AFRICAN INFRASTRUCTURAL MODERNIZATION.
- ✓ NEW PRODUCTION AND IRRIGATION METHODS.
- ✓ GENERATING TECHNOLOGICAL PROGRESS & INNOVATION.
- ✓ INCREASE AGRICULTURAL PRODUCTION

# FOOD PROCESSING PLANT



## FLOUR PRODUCTION MILL PLANT

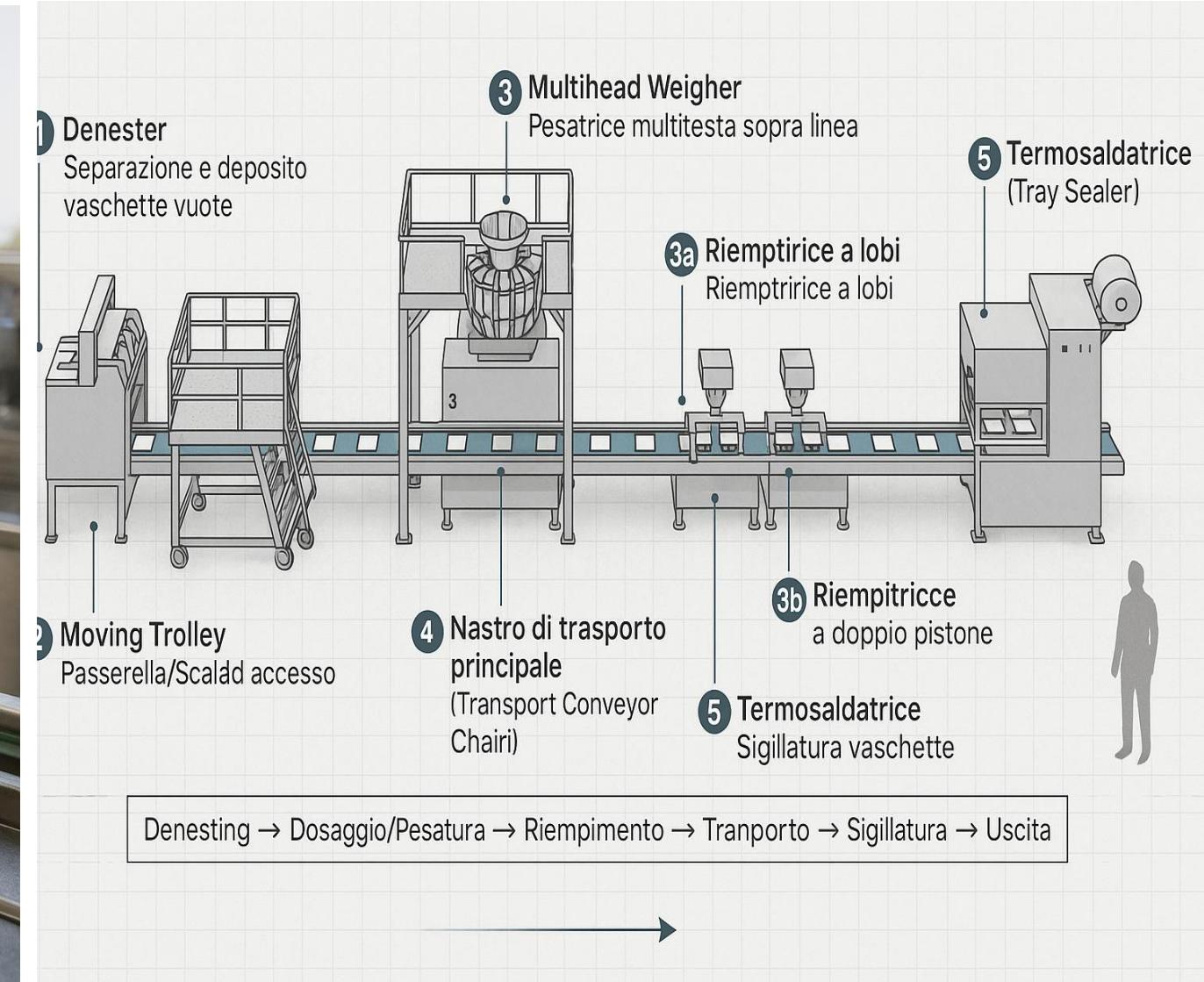


3D RENDERING FEASIBILITY STUDY

## READY MEALS PRODUCTION LINE



## READY MEALS PRODUCTION LINE



# FOOD PROCESSING PLANT

*Support African workers in food-processing plant*

## PASTA PRODUCTION LINE



## SPICE PRODUCTION LINE



## SNACK PRODUCTION LINE



PRODUZIONE INTELLIGENTE  
PER UN FUTURO MIGLIORE

## CLEAN VEGETABLES & FRUITS PRODUCTION LINE



# FOOD PROCESSING PLANT

## FROZEN PRODUCTION LINE

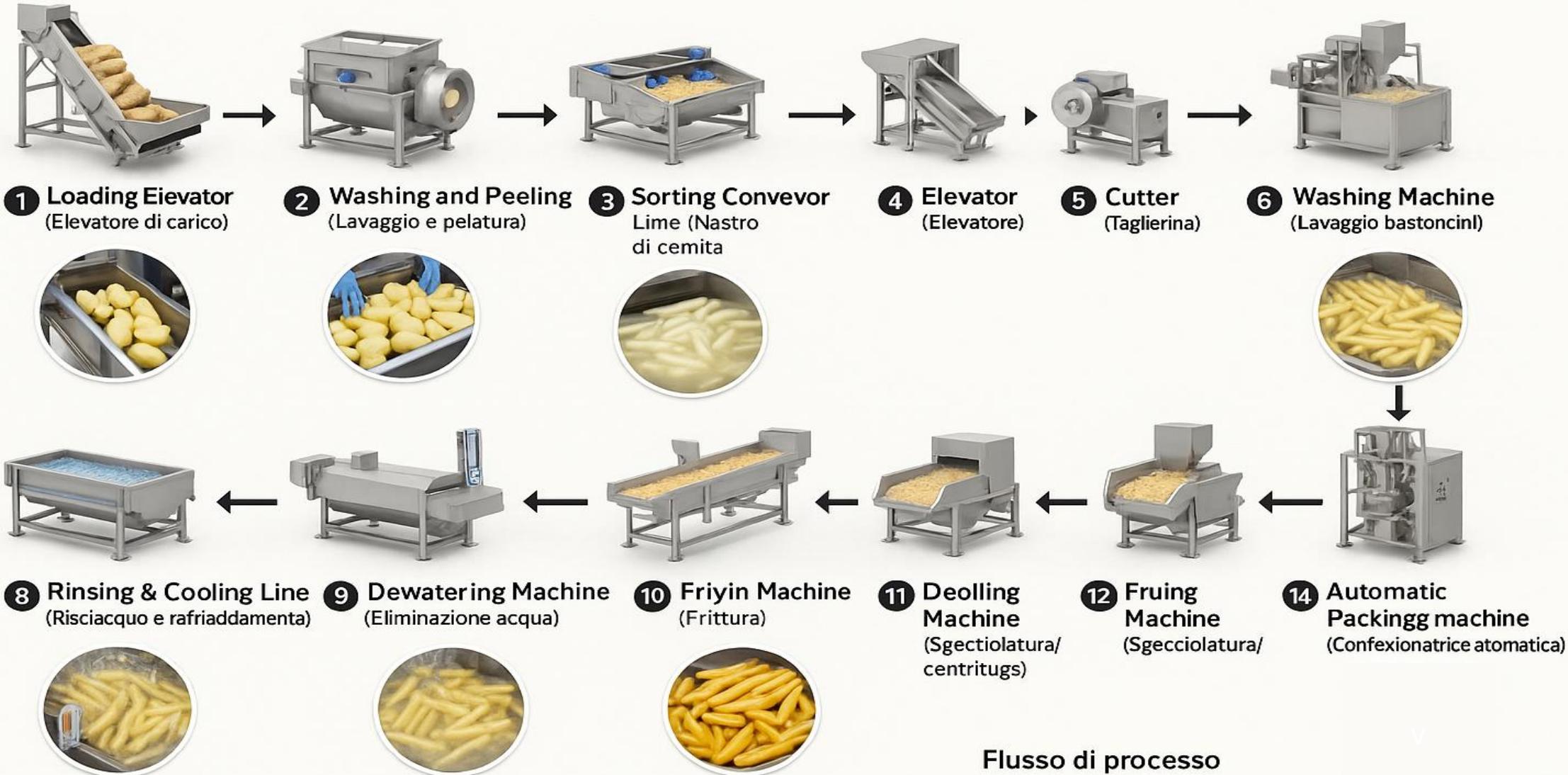


## CEREAL BREAKFAST PLANT

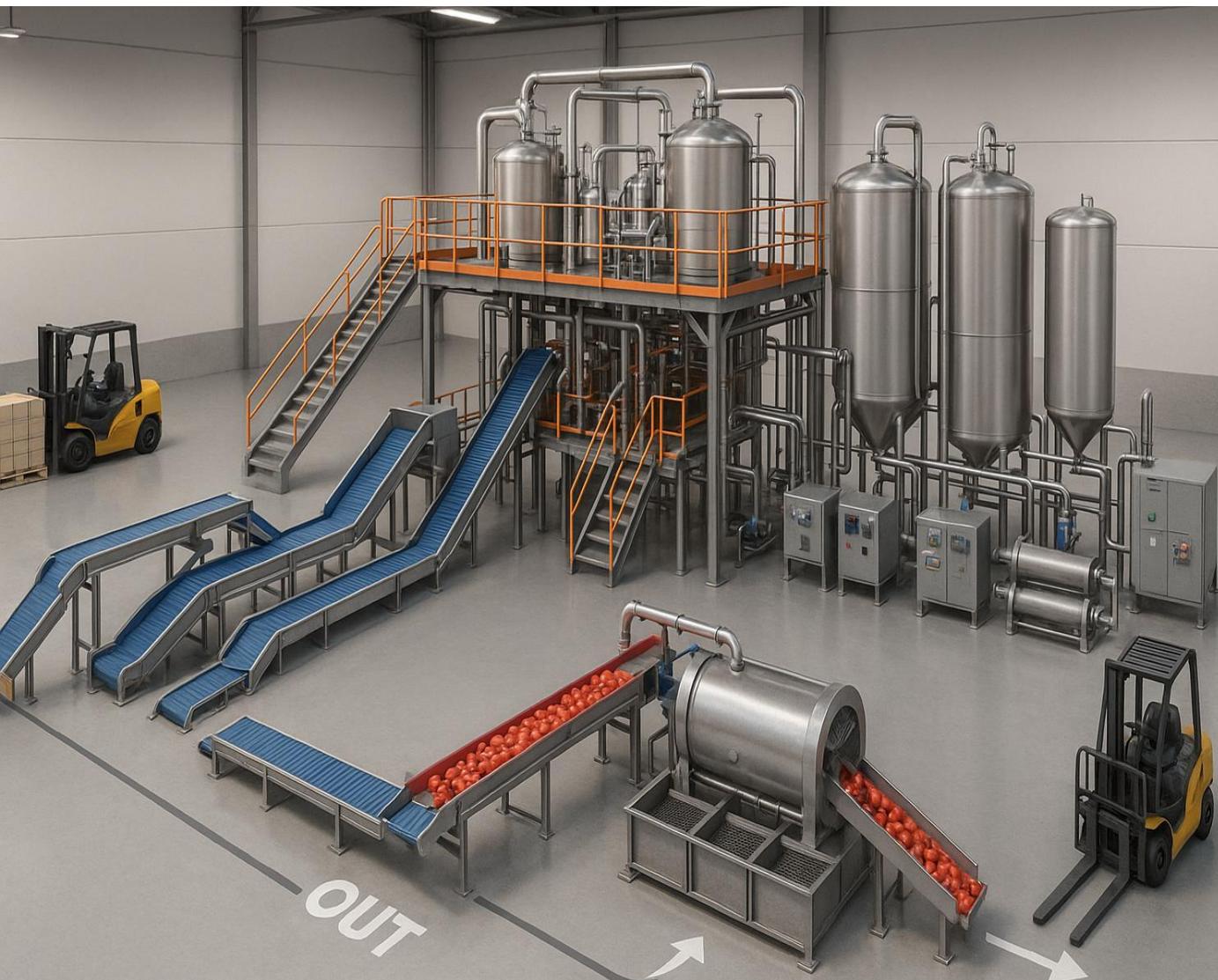




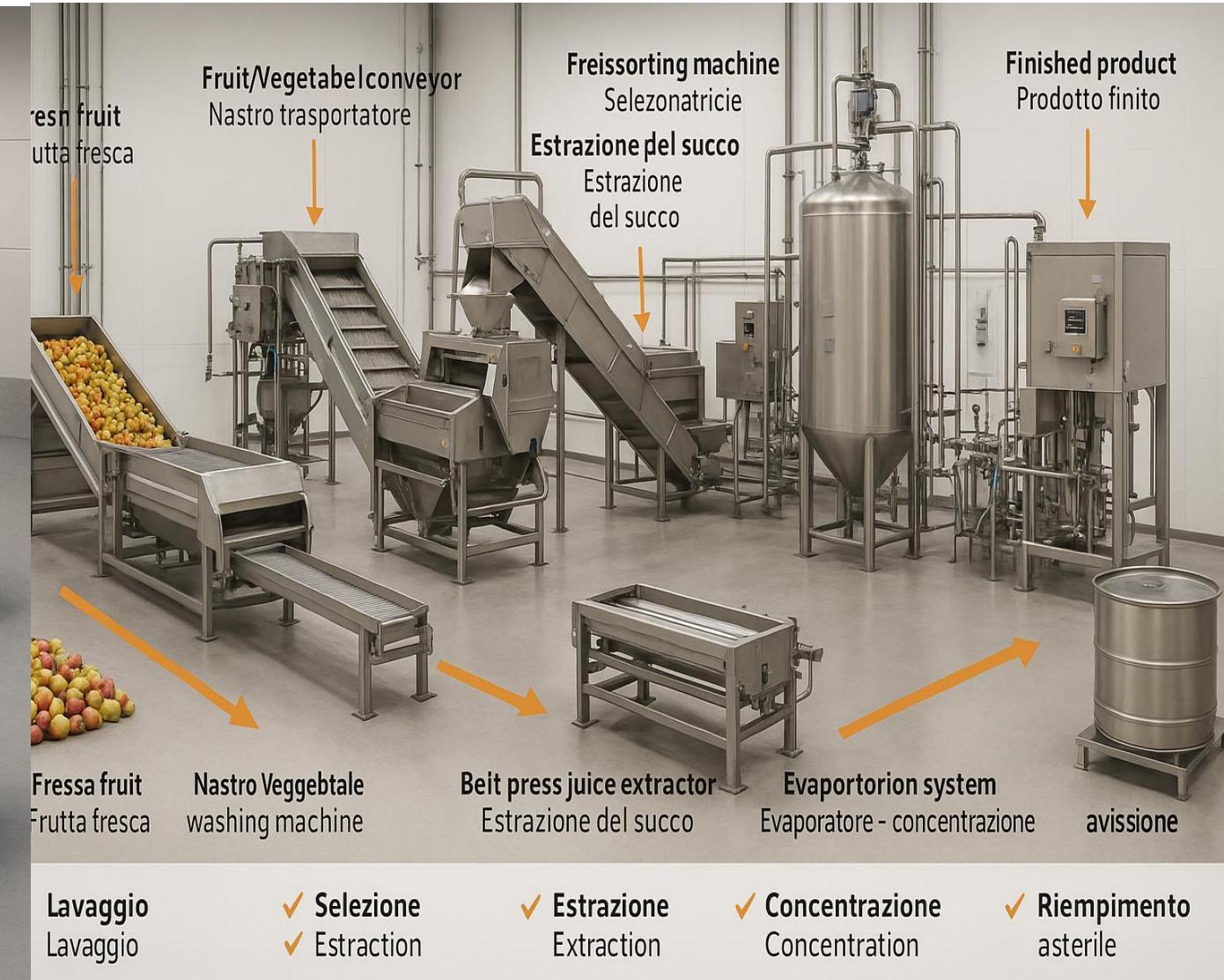
## LINEA INDUSTRIALE PER PRODURRE PATATINE FRITTE/PRECOTTE



## TOMATO PRODUCTION LINE



## FRESH JUICE PRODUCTION LINE



# SMART AGRO INDUSTRY

## RICE AGRICULTURAL EQUIPMENT



## PEANUT AGRICULTURAL EQUIPMENT



FDIA Peanut Harvester



Picking Machine



FDIA Peanut Shelling Machine



FDIA Peanut Shelling Machine

## SMART AGRO INDUSTRY



Onion Transplanter

Pepper Transplanter

Garlic Splitter



Macchinario  
compatto  
(verde e blu)

Soybean Thresser  
(Grande Trebbiatrice—Sc)



Corn Harvester  
(Mietitrebbia per Mais)



Garlic Planter

Garlic Harvester

Crawler Tractor  
Backhoe



Combine Soybean  
Harvester

(Mietitrebbia per Soia 'ombinata')

Mezzo agricolo con  
ruote più grandi  
e cabina aperta

Corn Seeder

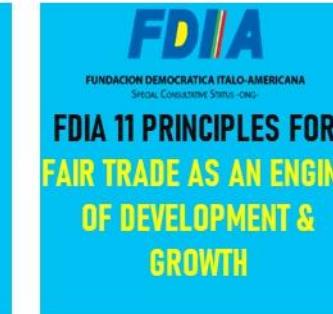
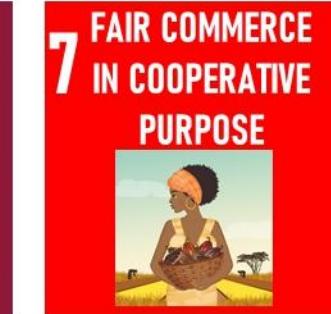
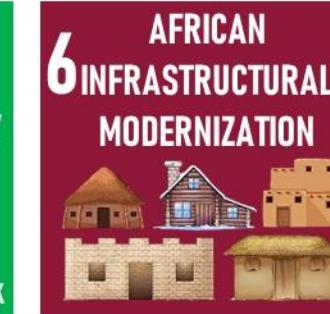
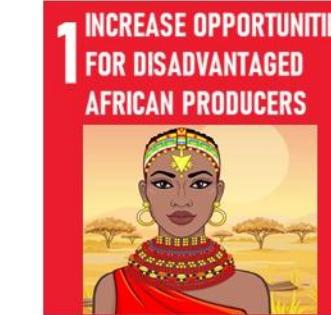
# SPIN-OFF NEW SMART AGRO INDUSTRIES FOR HUMANITARIAN PURPOSE

©



## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

©





**FDIA**  
FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA,  
FDIA -REPRESENTAÇÃO PERMANENTE



**FDIA SMART AGRO INDUSTRY WILL  
USE AGRICULTURAL DRONES IN THE  
LAND FOR THE IRRIGATION.**



## HUMANITARIAN HELP

**Fundación Democrática Italo Americana (FDIA)**, represented by President Lawyer **Vincenzo Cortegiani**, General Director Dr. **Fabio Rosati**, we are committed to safeguarding **human health and food security**.

Our humanitarian efforts focus on:

- **Providing ready meals** to children in **Sub-Saharan Africa, Cameroon, Tunisia, Libya**.
- **Ensuring food security** as a tool to combat poverty.
- **Supporting local farmers** in Cameroon, Tunisia, and the Maghreb region.
- **Promoting fair trade** as a driver of **economic development and growth**.

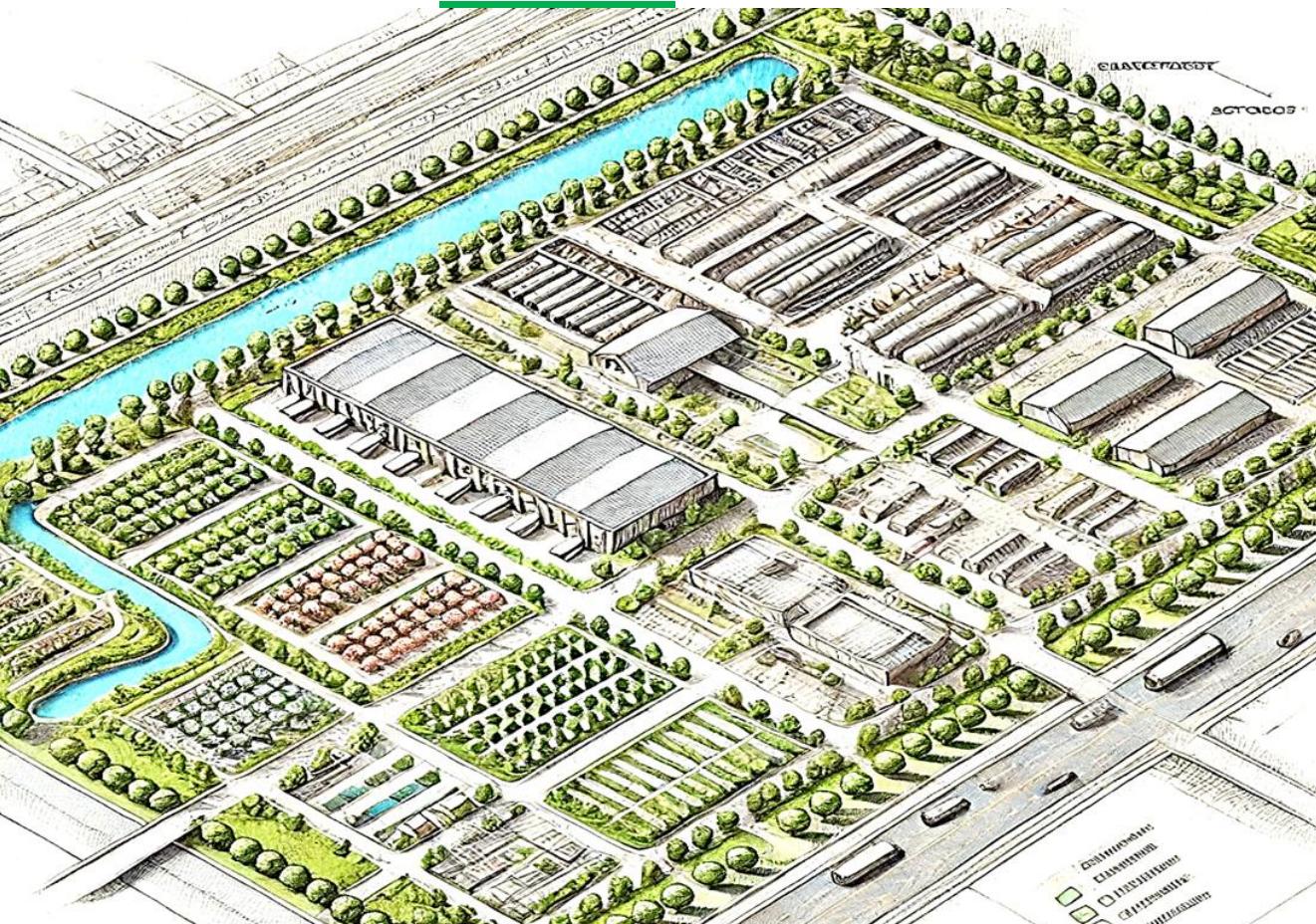
By strengthening **distribution chains** and improving access to nutritious food, our association aims to enhance livelihoods and contribute to sustainable development.



## AGRICULTURAL DEVELOPMENT



**Design, construction & assemblation new agro industries in the African**



**Website:** <https://fdiangopermanente.pt/index.html> - [fdiafoodgroup.eu](http://fdiafoodgroup.eu)

**Projects & videos:** <https://fdiangopermanente.pt/download.html>

**Email:** [incubator@fdiangopermanente.pt](mailto:incubator@fdiangopermanente.pt)

**Email:** [eu.secretary@fdiangopermanente.pt](mailto:eu.secretary@fdiangopermanente.pt)

## FDIA SMART AGRO INDUSTRY

### AGRICULTURAL DEVELOPMENT <sup>©</sup>

#### 1. Smart Agriculture & Technology Integration

1. Implement IoT and blockchain-based smart irrigation systems in greenhouses and open fields.
2. Robotic solution in the farm (without reducing jobs)
3. Utilize **hydroponic smart systems** for efficient vegetable and fruit production.



#### 2. Expanding Agro-Industry Opportunities

1. Produce a wide variety of vegetables and fruits, both in greenhouses and vast farmlands.
2. Ensure **soil conservation** and optimize rich, expandable farmland for sustainable cultivation.

#### 3. Local & International Cooperation

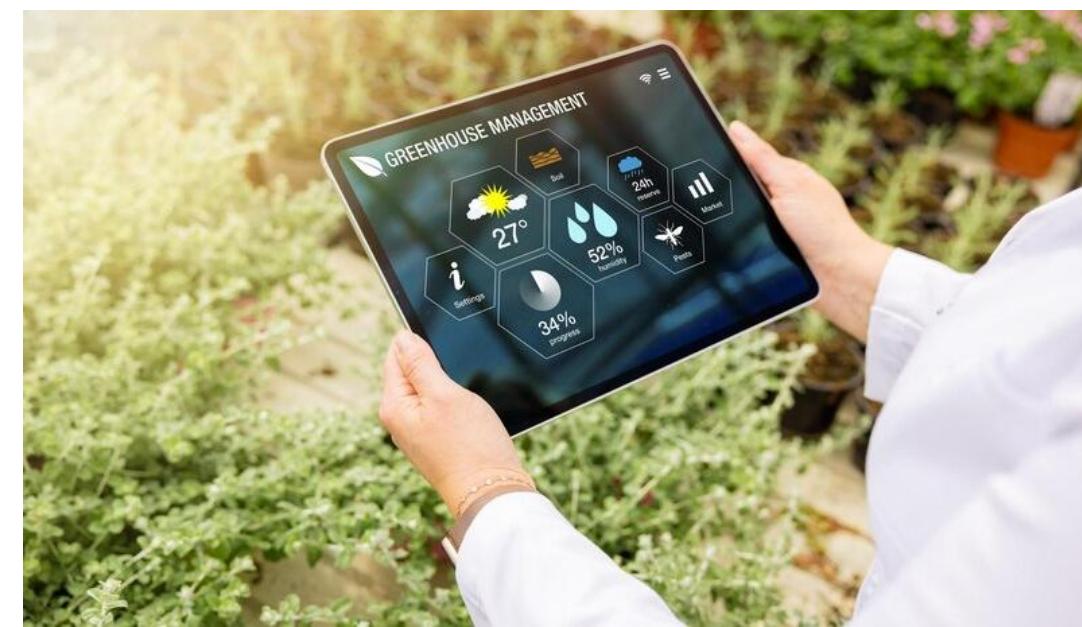
1. Collaborate with African producers for fair trade and cooperative food imports.
2. Establish future warehouses for storing and distributing food products.

#### 4. Modernization & Equipment Adoption

1. Provide modern agricultural machinery and adopt innovative techniques for farm development.
2. Support African partner farms in improving productivity and efficiency.
3. Promotion of a smart, resilient & diversified agricultural sector ensuring food security. Increase agricultural productivities.

#### 5. Sustainable Food Security & Fair Trade

1. Cultivate essential crops (cereals, beans) to ensure a **healthy food supply** for local communities.
2. Maintain **fair pricing** through partnerships, avoiding market speculation, and focusing on humanitarian needs.



## GEOLOGICAL SOLUTIONS FOR COMBATING WATER SCARCITY, LAND DEGRADATION, AND DEFORESTATION

### 1. Efficient Water Management

1. Utilize groundwater and rainwater for irrigation through advanced smart agro-industry technologies.
2. Implement smart irrigation systems with water tanks to optimize water usage.



### 2. Water Purification & Supply

1. Construct purification plants and water wells to ensure clean, safe, and reliable water access.
2. Improve drainage systems to enhance water management.

### 3. Sustainable Freshwater Resources

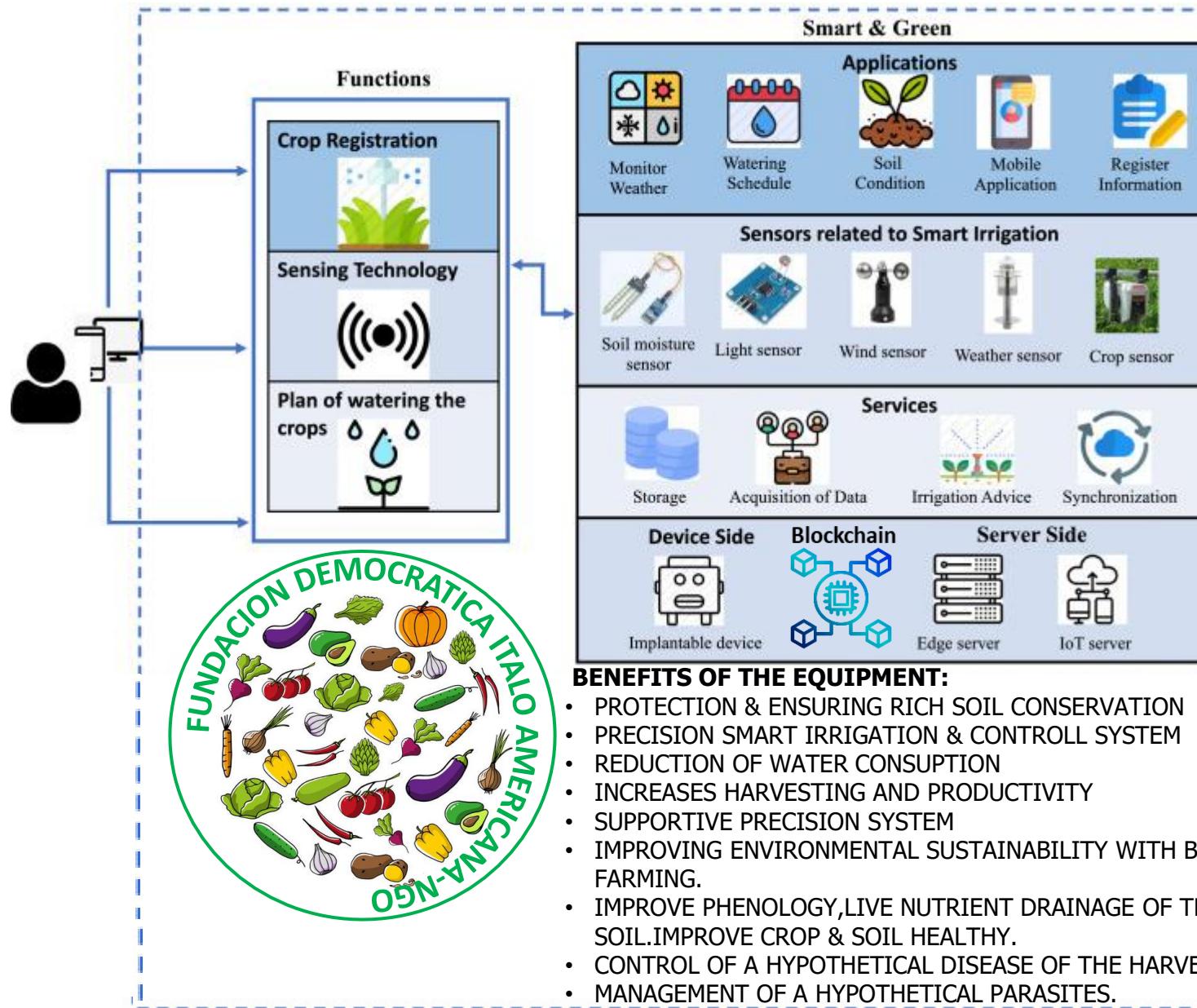
1. Consider socio-economic factors to improve water accessibility.
2. Address precipitation trends to optimize freshwater availability.

### 4. Cost & Resource Optimization

1. Reduce water consumption costs and treatment expenses.
2. Integrate both surface and groundwater resources to maximize overall water availability.

## FDIA SMART AGRO INDUSTRY

### INNOVATIVE SMART SYSTEM FOR AGRICULTURE, IRRIGATION AND HARVEST MONITOR SYSTEM



The FDIA Smart agro industry goal is to building on an array of digital technologies: Internet of Things, Big Data, Artificial Intelligence, and of digital practices: cooperation, mobility, open innovation.

# SPIN-OFF NEW SMART AGRO INDUSTRIES

THE MISSION IS TO ENHANCE THE SUSTAINABILITY OF THE DAIRY SUPPLY CHAIN FROM PRODUCTION TO PROCESSING BY DIGITALIZING CERTIFICATION AND TRACEABILITY, IMPROVING ANIMAL AND FARMER WELFARE, AND INTRODUCING TECHNOLOGICAL INNOVATIONS TO PROMOTE CIRCULARITY AND WASTE REDUCTION. THE INITIATIVE FOCUSES ON CREATING ADDED VALUE FROM DAIRY BY-PRODUCTS, TESTING NEW VALORIZATION METHODOLOGIES FOR AGRI-FOOD AND LIVESTOCK BY-PRODUCTS, AND EVALUATING INNOVATIVE TECHNOLOGIES SUCH AS NEW PRODUCTION LINES & ADVANCED DIGITALIZATION



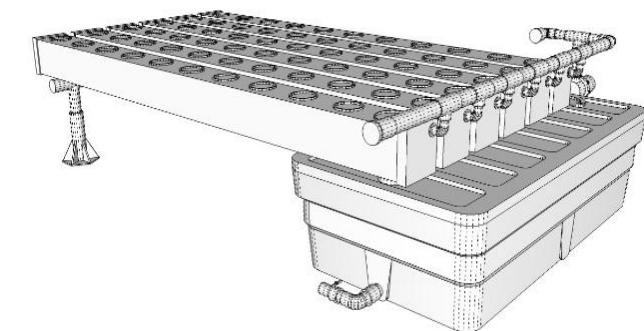
## BENEFITS OF THE HYDROPONICS SYSTEM:

- Increased efficiency and better water/nutrient management.
- Extended production cycle duration.
- Reduced transportation and management costs.
- Water savings through recovery and reuse in irrigation.

The hydroponics system leverages artificial intelligence, IoT, and specialized lighting to optimize harvest cycles in greenhouses or confined spaces. LED lights provide the necessary illumination with wavelengths tailored to each crop.



FDIA HYDROPONICS PROJECT



**Website:** <https://fdiangopermanente.pt/index.html>

**Projects & videos:** <https://fdiangopermanente.pt/download.html>

**Email:** [incubator@fdiangopermanente.pt](mailto:incubator@fdiangopermanente.pt)

**Email:** [eu.secretary@fdiangopermanente.pt](mailto:eu.secretary@fdiangopermanente.pt)

## MODERNISING INFRASTRUCTURES

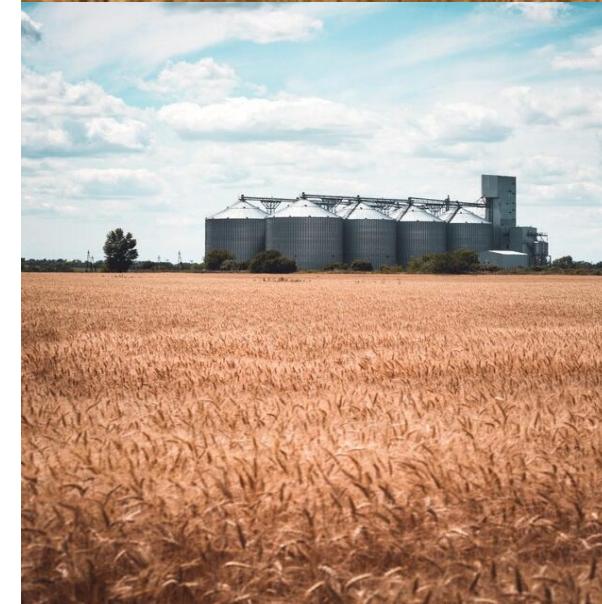
A crucial challenge in the adoption of the IoT in agriculture is the development of communication infrastructures and infrastructural modernization in the rural areas. Current wireless communication networks, having a strong emphasis on periferical areas of African villages. This innovative communication networks will have to be developed in rural areas.



## SENSOR

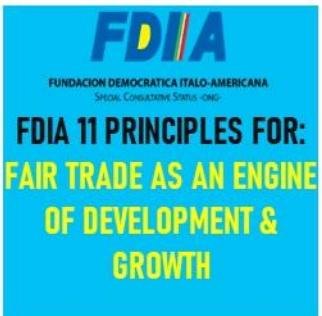
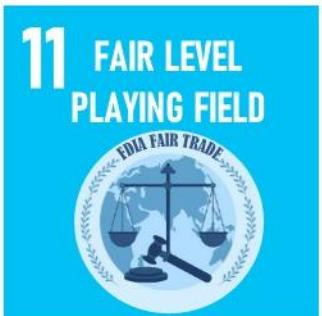
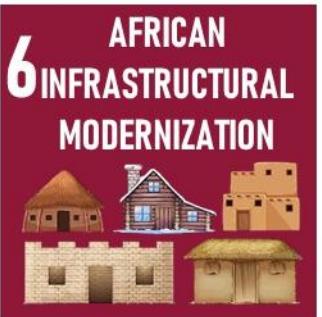
Sensor deployments and connectivity enables the industry to monitor the production chain and the products. The data acquired enables the industry to enhance and monitoring the quality of the harvest by knowing technical-scientific information from the land tillage to the cereal storage activity.

- Overseeing the live temperature, progress and humidity of the farm soil and wheat inside silo.
- Inventory of MT weight available of cereals inside silo.
- Geo-mapping of the smart agro industry lands for better supply chain process.
- Interactive tablet to monitor the wheat details of the storage activity.
- The efficiency resides in the ability to remotely collect, use, analysis the agricultural data, conditions of harvest and exchange data.





## AFRICAN AGRICULTURAL DEVELOPMENT







FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA  
FDIA -REPRESENTAÇÃO PERMANENTE

# FDIA SMART AGRO INDUSTRY

SMART HARVEST MONITORING FOR TRACTOR AND COMBINE HARVESTER  
ROBOT WITH PHOTOVOLTAIC PANELS FOR AGRICULTURAL SERVICES

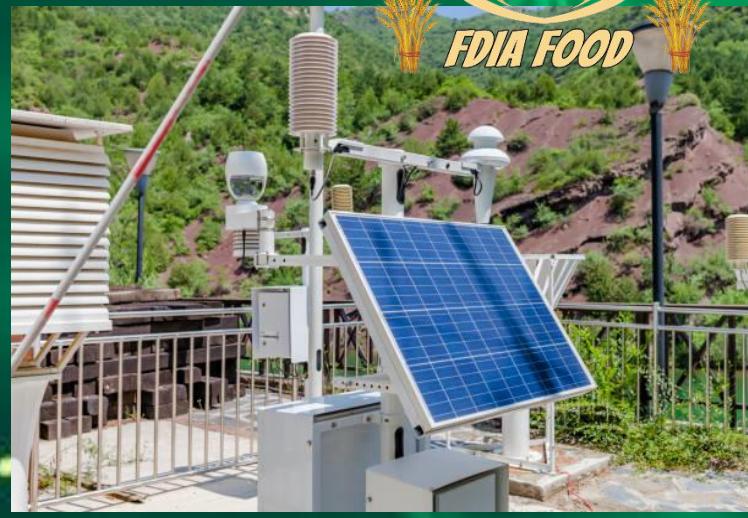


## INNOVATIVE WEATHER STATION <sup>©</sup>

AGRICULTURE IS HIGHLY IMPACTED BY CLIMATE CHANGE, WITH RISING TEMPERATURES AND ERRATIC RAINFALL POsing SIGNIFICANT CHALLENGES. INCREASING TEMPERATURES ARE EXPECTED TO HAVE THE GREATEST NEGATIVE IMPACT, PUSHING MANY CROPS BEYOND THEIR TOLERANCE LIMITS. THE VARIABILITY IN RAINFALL FURTHER EXACERBATES THE ISSUE.

AGRO-METEOROLOGICAL STATIONS OFFER A SOLUTION BY HELPING LOCAL FARMS AND VILLAGES MONITOR ESSENTIAL WEATHER DATA, INCLUDING TEMPERATURE, RAINFALL, AND HUMIDITY. THESE STATIONS CONSIST OF MEASURING INSTRUMENTS THAT TRACK ATMOSPHERIC CONDITIONS OVER TIME, PROVIDING VALUABLE DATA FOR METEOROLOGICAL AND CLIMATIC PURPOSES.

ACCURATE MONITORING OF ATMOSPHERIC PARAMETERS IS CRUCIAL FOR OPTIMIZING AGRICULTURAL PRODUCTION, ESPECIALLY IN SMART AGRO-INDUSTRY AND REMOTE AFRICAN VILLAGES LOCATED FAR FROM AGRICULTURAL HUBS. THIS DATA-DRIVEN APPROACH ENHANCES FOOD SECURITY AND SUSTAINABILITY IN VULNERABLE REGIONS.





FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA,  
FDIA -REPRESENTAÇÃO PERMANENTE

©

# FDIA SMART AGRO INDUSTRY SMART DEPARTMENT STORE



FDIA INDUSTRIAL GROUP

## AGRICULTURAL PRODUCTIVITY FACTORS:

- ✓ Nature and quality of seed and plant density
- ✓ Land preparation
- ✓ Harvesting
- ✓ Seeding
- ✓ Bio natural farm
- ✓ Smart equipment
- ✓ Harvest nutrients in the soil
- ✓ Technology was created by humans to advance nature and humanitarian progress.
- ✓ Research and Development
- ✓ Education
- ✓ Infrastructure
- ✓ Use method of mechanization, diversification, precision and specialization.





## MARKET STRATEGY:

- 1) Product
- 2) Fair price, free food, food donation humanitarian kit
- 3) Place of distribution to humanitarian structures through other companies, foundations in partnership
- 4) Promotion with welfare programmes for guaranty food security and humanitarian aid.



## CHAIN ANALYSIS:

- Incoming products from African lands to warehouse
- Registration of products
- Processing
- Packaging with traceability the products
- Eliminating food waste across the chain
- Transformation:cultivation and harvesting, washing, sorting and classification, processing, packaging and labelling, storage, distribution and fair & international trade as engine for development and growth.
- Conduct research and development in the sectors of the environment, water, agriculture, technology, science and marketing.
- Logistics



## MANAGEMENT AND ORGANIZATION

FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA, FDIA -REPRESENTAÇÃO PERMANENTE represented by: President Lawyer Vincenzo Cortegiani, General Director Dr. Fabio Rosati and Dr. Luca Rosati Secretary-project manager.

**PLAN OF ACTIVITIES:** The production schedule for the various crops will be displayed, along with the expected yield per hectare and the total production for each year for the various harvest.

Plan for implementation: The implementation plan will be based on the amount of time required for agriculture tasks as well as the investment made in the plantation. It will provide the following information when will be construction the total project in a second step: statistical charts, the financial forecasting, the study's financial analysis, the possibility scenario of project funding, investment expenses need and the predicted production costs.

- 1) SWOT analysis (Strengths, weaknesses, opportunities, and threats) will be evaluated.
- 2) In order to help decision makers about the investments that could be carried out in the future smart agro-industry, will be evaluate the project's social-economic and humanitarian benefit to the nation, will be made a SWOT analysis
- 3) The panel of experts will present their instructions & guidelines for what should be done during the project's investment and production phases.

## METHODS

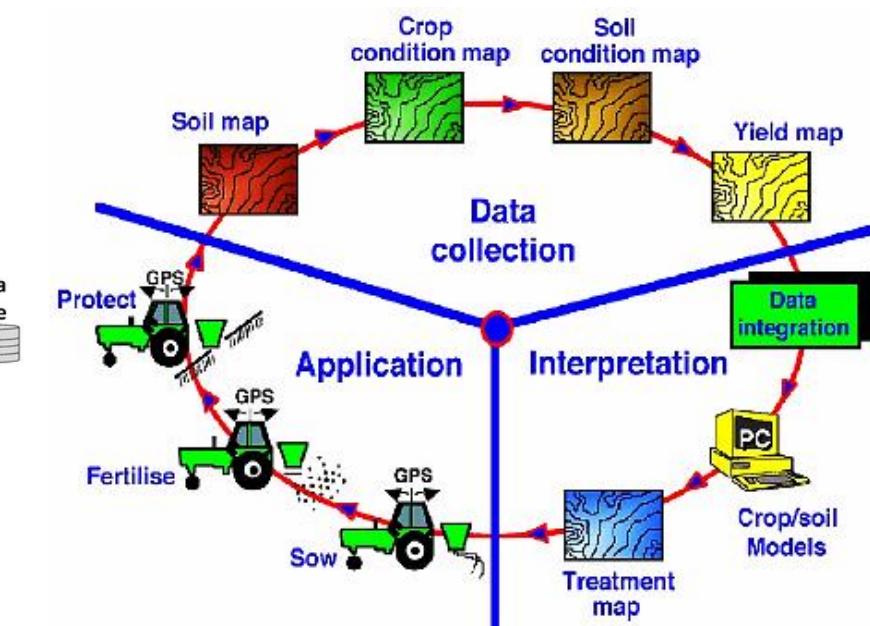
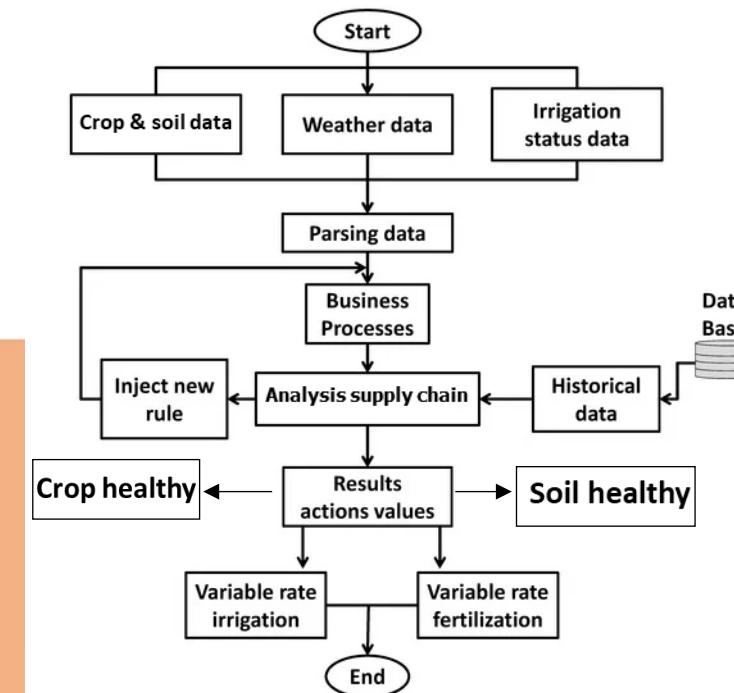
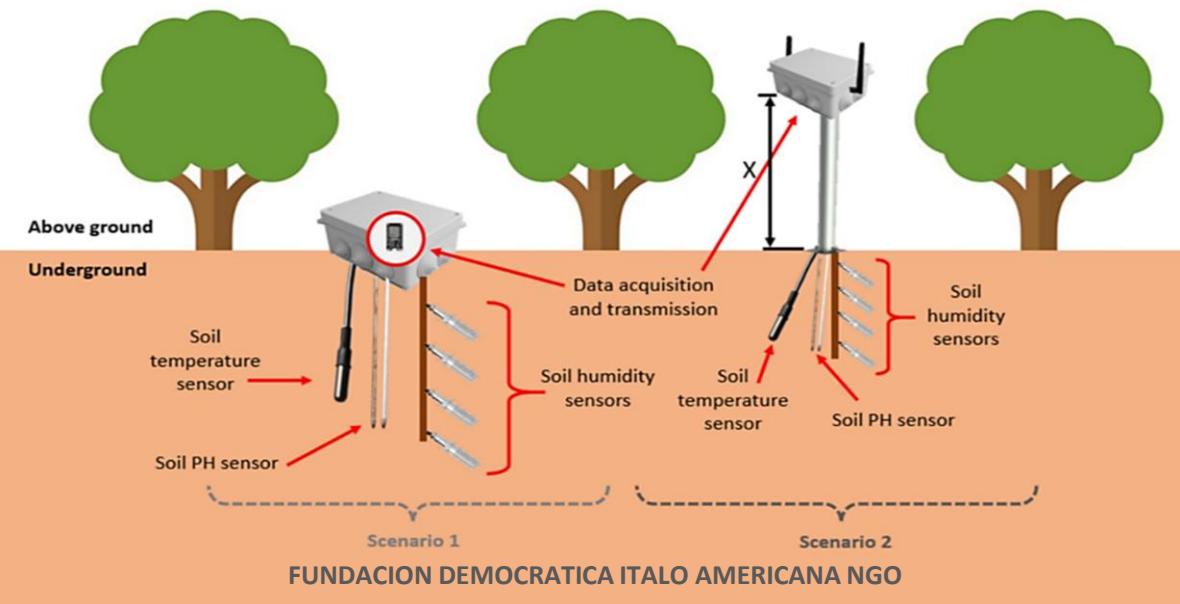
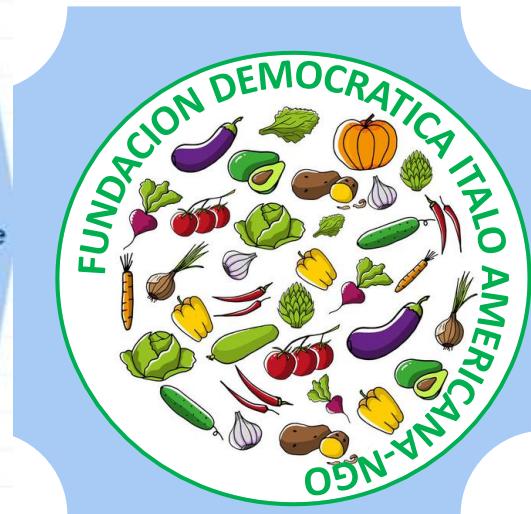
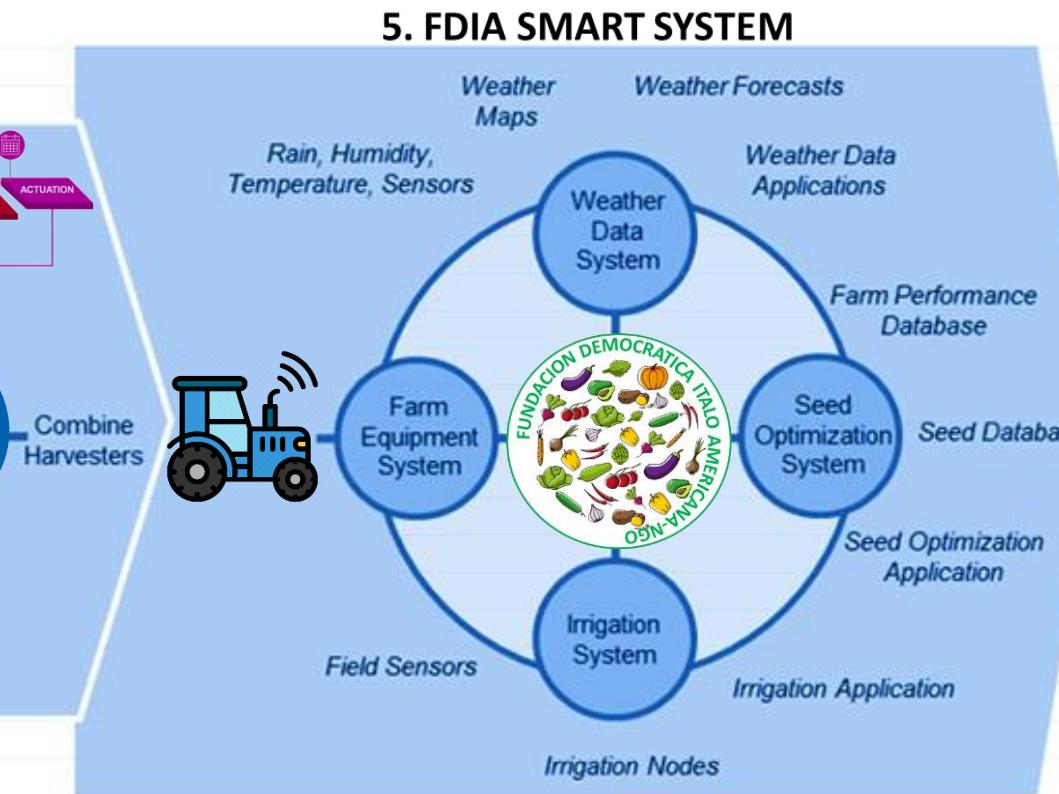
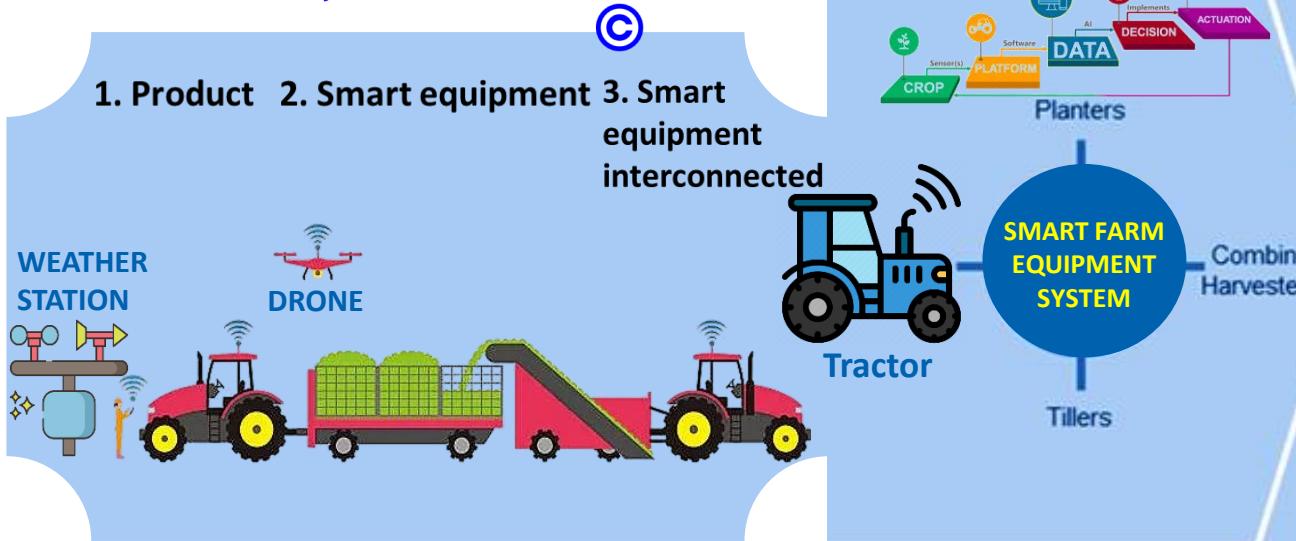
Topographic Analysis is crucial for carrying out topographic surveys.

A team of surveyors, engineers and an assistant will be sent in the field of activity.

The elevation data for the sample plots must be established using the square grid technique of topographic survey.

Using airborne photography.

The physiographic and slope data will be used to identify the land units. It is well recognized that these two characteristics strongly connect to regional soil variance. A legend with a symbol will be provided for each mapping/land unit. Generic legends that correspond to the kind of landform will be used.



## FIELDWORK

### •Auger Observation

- Used as the **initial step** to explore **soil properties and variability**.
- Helps determine **soil profile pit locations** and adjust **soil unit boundaries**.

### •Project Implementation

- Engineers will follow **FAO guidelines** for precision & sustainability.

### •Monitoring & Data Collection

- Weather station setup for climate monitoring.

### •Field monitoring via video & photo documentation.

- GPS-based topographic analysis for precise mapping.

### •Soil Mapping & Laboratory Testing

- Soil samples collected and processed while mapping continues.

- Final soil report & maps will be generated **after** lab test results are received.

### •Final Analysis & Recommendations

- The report will **describe soil fertility & crop potential** in the project area.

- Analysis will **evaluate soil traits, land-use impact,**

- and **management strategies** to enhance agricultural efficiency.



© **AFRICAN AGRICULTURAL DEVELOPMENT**



**PRODUCTION OF POWDERED MILK FOR INFANT NUTRITION WITH  
TECHNOLOGICAL PRODUCTION LINES. SPIN-OFF A NEW SMART  
DAIRY FARM**



This feasibility study explores a **future dairy farming industry project** that may be realized through project financing. The primary focus is on **economic viability** and **competitive advantage** for **small and midsize commercial dairy producers**.

### Key Objectives:

#### 1. Financial Support & microcredit

1. Develop **financing and grant programs**.
2. Implement **donation incentives and micro-credit programs** for **small-scale dairy producers and agricultural farmers** in **Italy, the Maghreb region, and Cameroon**.

#### 2. Boosting Dairy & Food Production

1. Increase **food and milk production**.
2. Facilitate **humanitarian aid initiatives**.

#### 3. Equipment Donation & Expansion

1. Provide **suitable dairy and industrial equipment** to support small farmers.
2. Develop **value-added processing and distribution** for **high-capital-intensive expansion**.

#### 4. Expert Support & Industry Development

1. Offer **customized assistance** from a **cross-functional team of experts**.
2. Address **challenges in dairy farming, human capital, and manufacturing**.
3. Facilitate **entry into an emerging dairy industry sector**.

The project aims to strengthen **dairy farming infrastructure**, encourage **industry collaboration**, and promote **sustainable agricultural growth** while providing **humanitarian support** in target European & African regions.

# FDIA - "Fair Trade as an Engine for Development and Growth" Initiative

The Fundación Democrática Italo Americana (FDIA) - Representação Permanente, led by:

• **President:** Lawyer Vincenzo Cortegiani

• **General Director:** Dr. Fabio Rosati

• **Secretary & Project Manager:** Dr. Luca Rosati

is promoting a humanitarian initiative called "**Fair Trade as an Engine for Development and Growth**".

## Key Objectives:

### 1. Support African Farmers

1. Address the **challenges and hardships** faced by local farmers.
2. Advocate for **fair trade principles** to enhance **financial, social, and economic recovery**.

### 2. Sustainable Economic & Social Development

1. **Cooperate with local farmers** to improve productivity and working conditions.
2. Establish a **smart production system** for agricultural efficiency.
3. **Create full employment** and ensure optimal labor conditions.

### 3. Humanitarian & Economic Growth

1. **End hunger and achieve food security**.
2. **Modernize agricultural infrastructure** in Africa and other developing regions.
3. **Promote sustainable agriculture** with innovative solutions.
4. **Enhance opportunities** for disadvantaged workers and producers by ensuring **fair competition**.

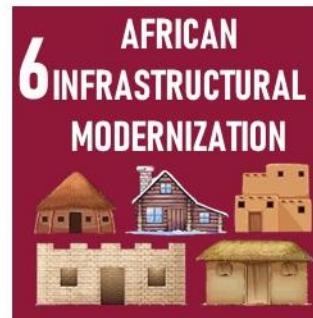
This initiative aims to **overcome inequalities**, drive **innovation**, and generate **sustainable prosperity** in developing countries through **fair trade**, **smart agriculture**, and **infrastructure modernization**.



FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA,  
FDIA - REPRESENTAÇÃO PERMANENTE



## FAIR TRADE AS AN ENGINE FOR DEVELOPMENT AND GROWTH



## FUTURE PROJECT OF SMART DAIRY FARM





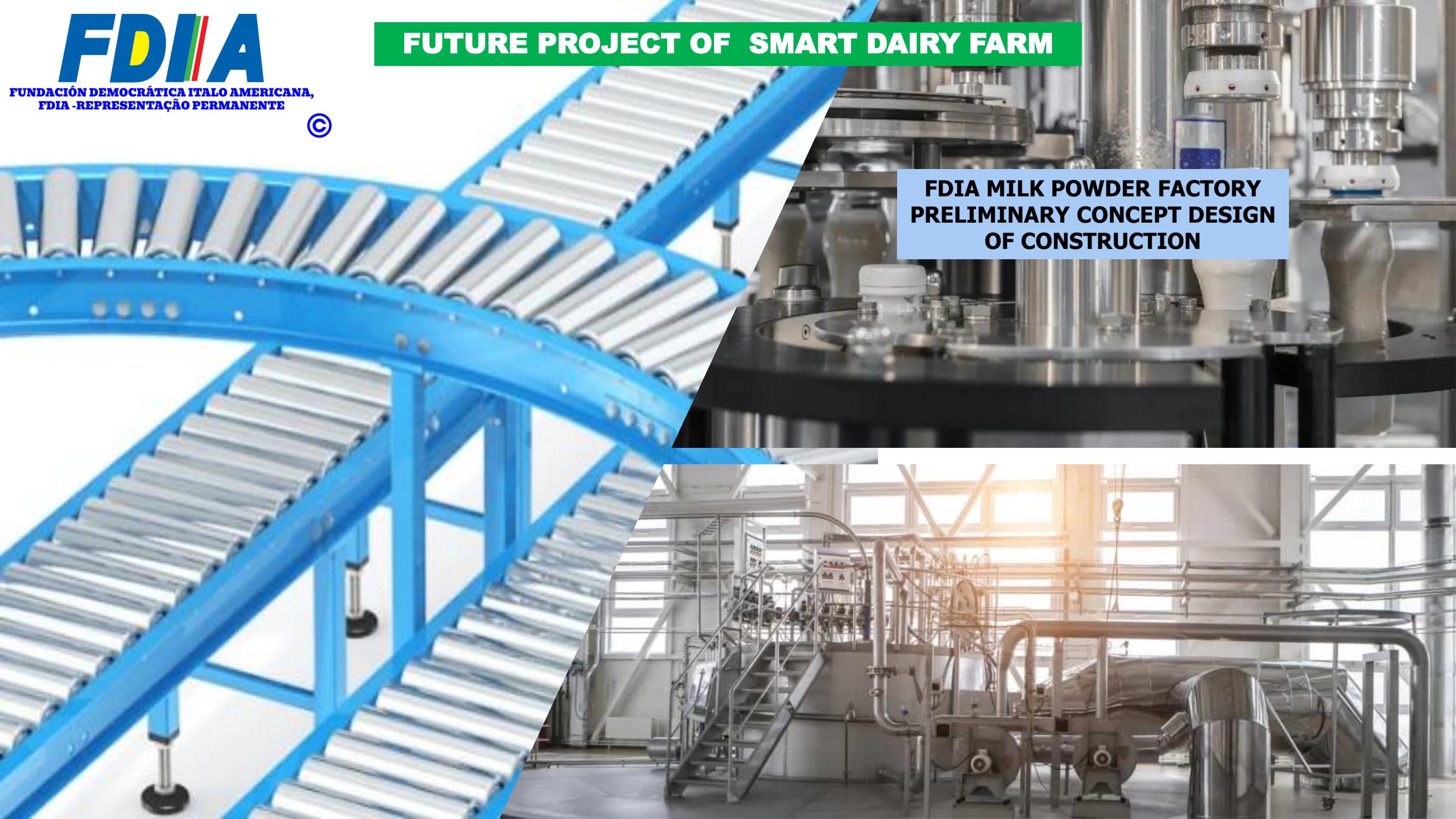
***THE SUPPLIER OF EQUIPMENT THAT WILL NEED FOR  
SUPPORT LOCAL FARMERS IN HUMANITARIAN  
SCENARIO IN DAIRY SECTOR WILL BE:***

***COPY & PAST THE URL FOR SEE THE SUPPLIERS INFORMATION.***

***<https://www.pharma1humanitas.com/password.html>***

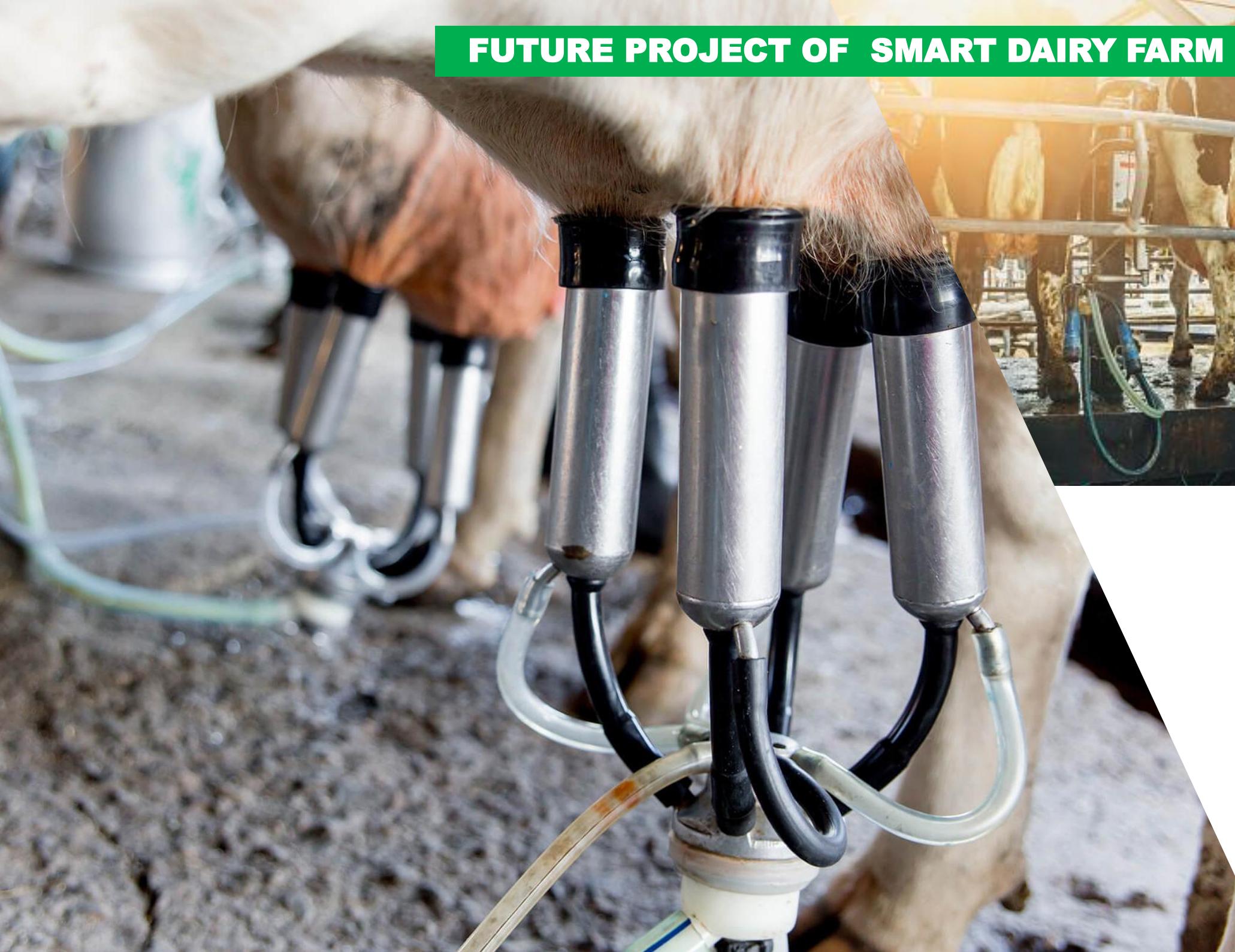
***<https://www.pharma1humanitas.com/dairyfarm.pdf>***

## FUTURE PROJECT OF SMART DAIRY FARM



**FDIA MILK POWDER FACTORY  
PRELIMINARY CONCEPT DESIGN  
OF CONSTRUCTION**

## FUTURE PROJECT OF SMART DAIRY FARM



THREE-DIMENSIONAL VIEWS OF  
THE FUTURE PROJECT OF THE  
DAIRY FARM FOR PRODUCTION  
MILK POWDER & FRESH MILK  
(THE AESTHETIC DESIGN,  
WINDOWS, ...) IS PURELY  
INDICATIVE)

## FUTURE PROJECT OF SMART DAIRY FARM



- THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE DAIRY FARM FOR PRODUCTION MILK POWDER & FRESH MILK (THE AESTHETIC DESIGN, WINDOWS, ...) IS PURELY INDICATIVE)



## FUTURE PROJECT OF SMART DAIRY FARM



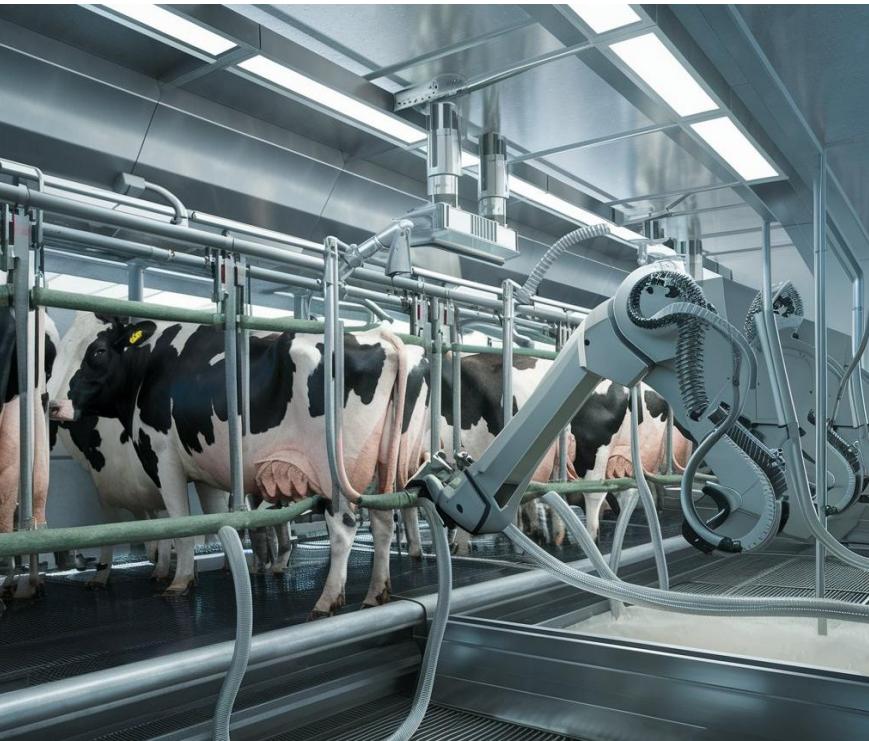
**FDIA**

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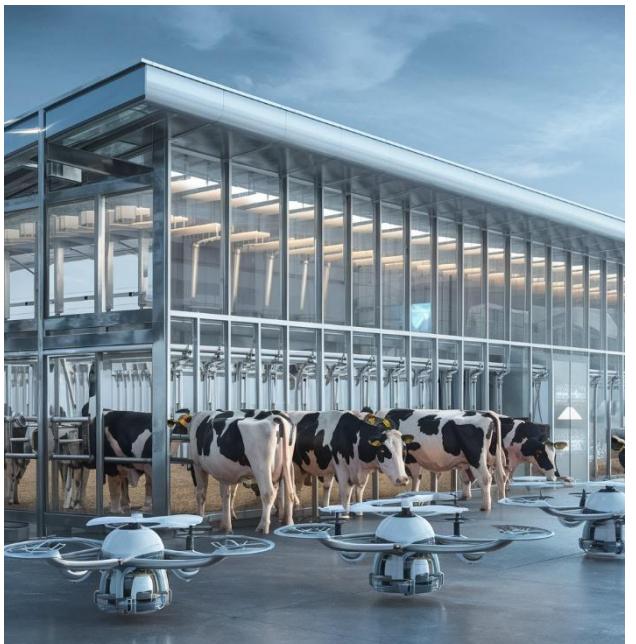
THREE-DIMENSIONAL VIEWS OF  
THE FUTURE PROJECT OF THE  
DAIRY FARM (THE AESTHETIC  
DESIGN, WINDOWS, ...) IS PURELY  
INDICATIVE)

- *THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE DAIRY FARM FOR PRODUCTION MILK POWDER & FRESH MILK (THE AESTHETIC DESIGN, WINDOWS OF THE INFRASTRUCTURE, ...) IS PURELY INDICATIVE)*

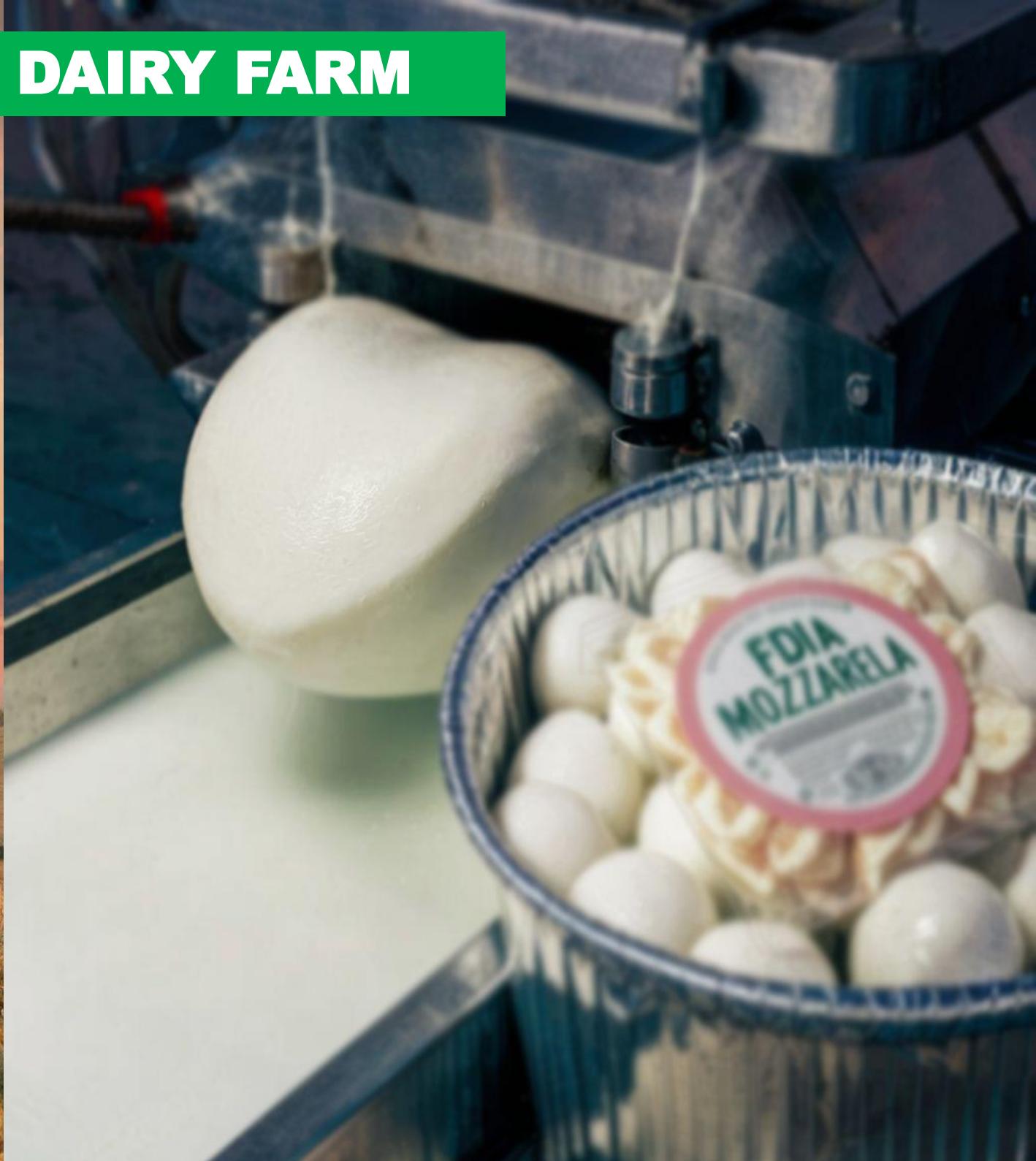




# FUTURE PROJECT OF SMART DAIRY FARM



# FDIA SMART DAIRY FARM





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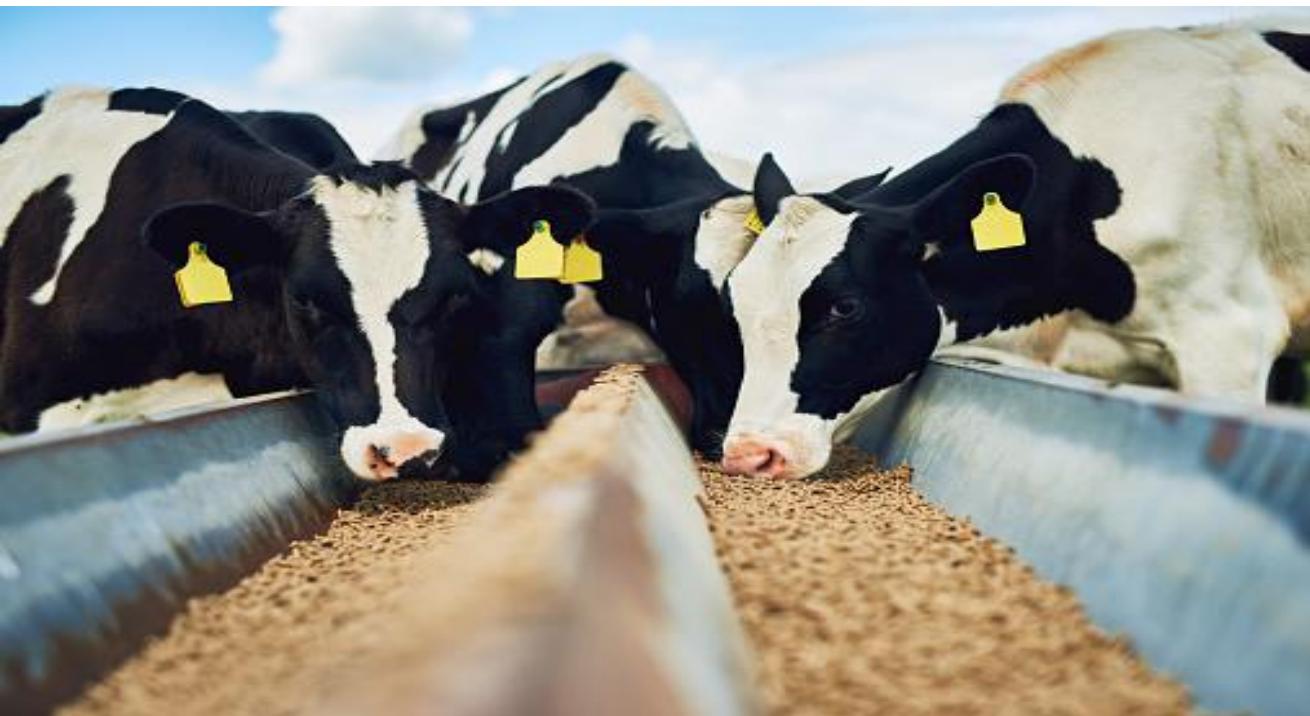
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- *THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE DAIRY FARM FOR PRODUCTION MILK POWDER & FRESH MILK (THE AESTHETIC DESIGN, WINDOWS, ...) IS PURELY INDICATIVE)*



A facility for manufacturing blended animal feed

- preparing waste for grinding and processing into mixed feed; creating mixed feed; department in charge of "making a daily ration of cow feed (mixed feed, fodder plants, etc.) - this will be a section of the factory that makes combined feed. • Dosed mixing of mixed feeds and fodder plants together with other formulations for the manufacture of a single portion of bovine feeding;



- **MINI POWER STATION FOR DISTRIBUTION THE ELECTRIC.**



- Electricity for each sector / departments of this Complex will be supplied separately, which will allow to minimize / exclude the "stopping" of the whole Complex due to a malfunction in the power supply system



## FUTURE LABORATORY OF ARTIFICIAL INSEMINATION

- Carrying out of breeding
- Conducting- "targeted point-of-insemination".

Due to this method will increase the insemination and fertilization of the cattle;

- Minimizing the "depletion" of bulls- insemination;



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**SUPPORT SMALL  
SCALE AFRICAN  
FARMERS**

**FAIR TRADE**



# PLANT FOR PRODUCING BIOGASES FROM ANIMAL PRODUCTION LINE WASTE

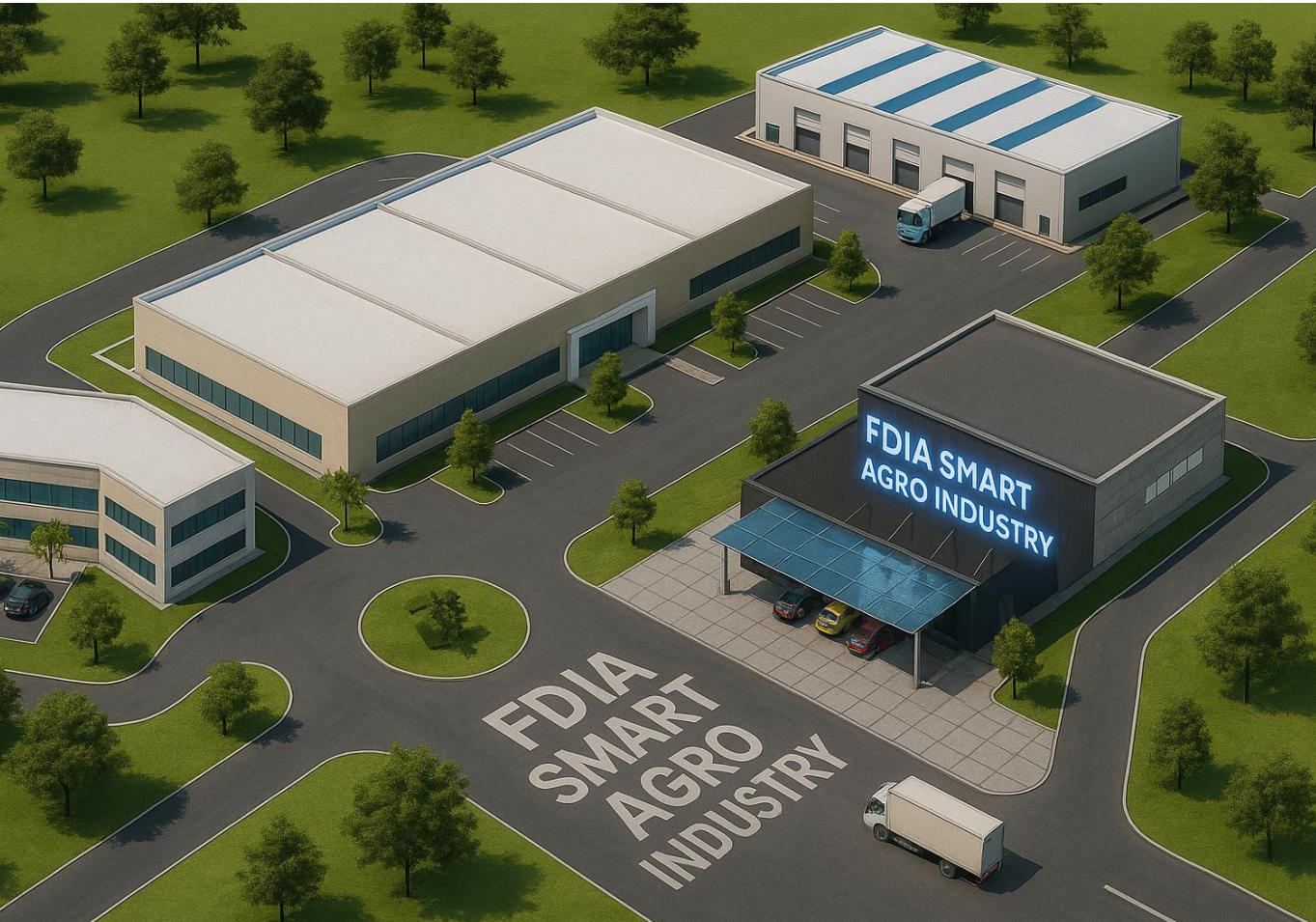


### Modular type stations for water purification

- In addition to the general treatment water supplied to each of the Farms will pass through this station;
- Reduce or even exclude the poisoning of cattle with heavy metals, toxic chemicals and compounds;
- Enrichment of water with microelements, ions, oxygen, etc.



# 3D DESIGN OF FUTURE NEW SMART FOOD DEPARTMENT STORE PROJECTS IN: IN AFRICAN MAGHREB



THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE SMART  
DEPARTMENT STORE (THE AESTHETIC DESIGN, WINDOWS, ...) IS PURELY  
INDICATIVE)





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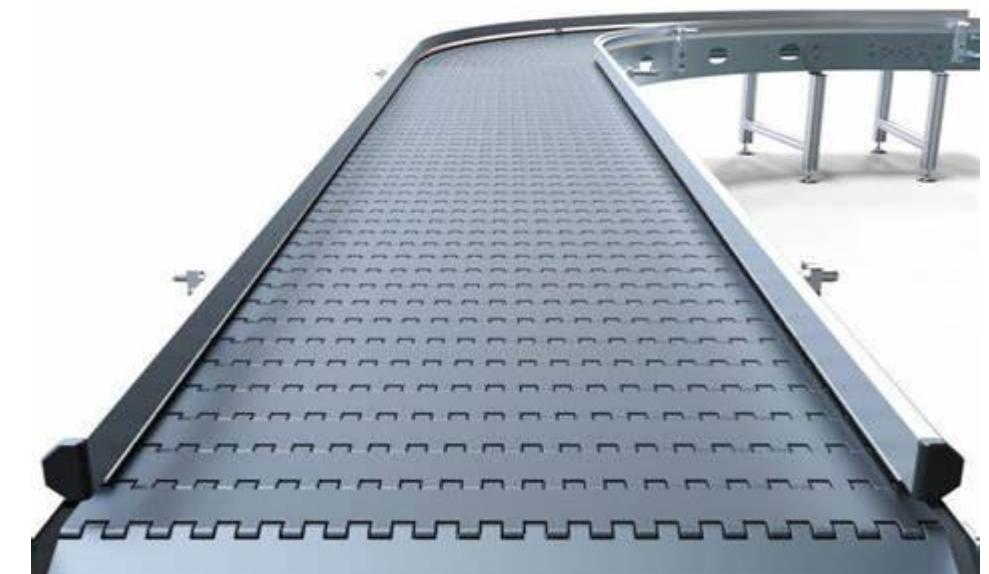
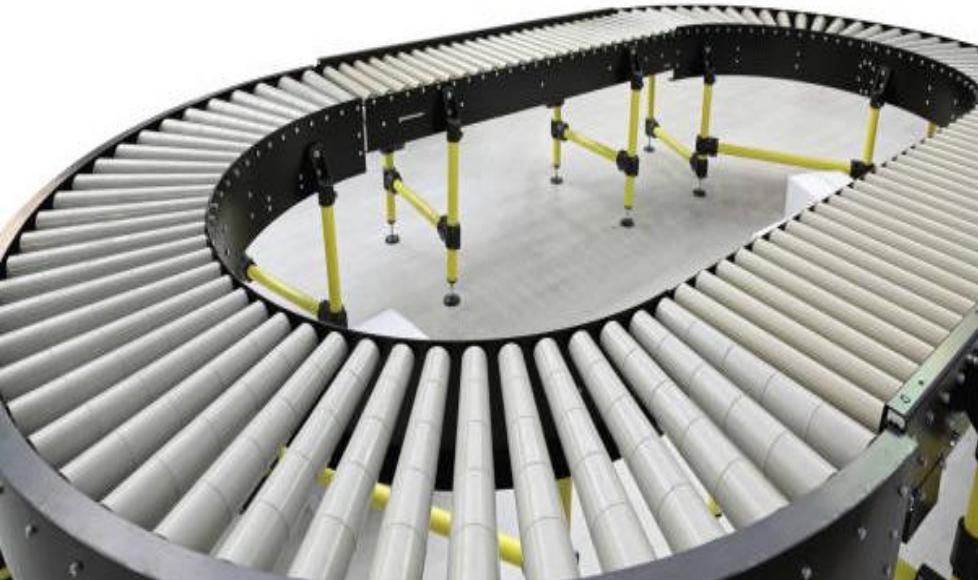
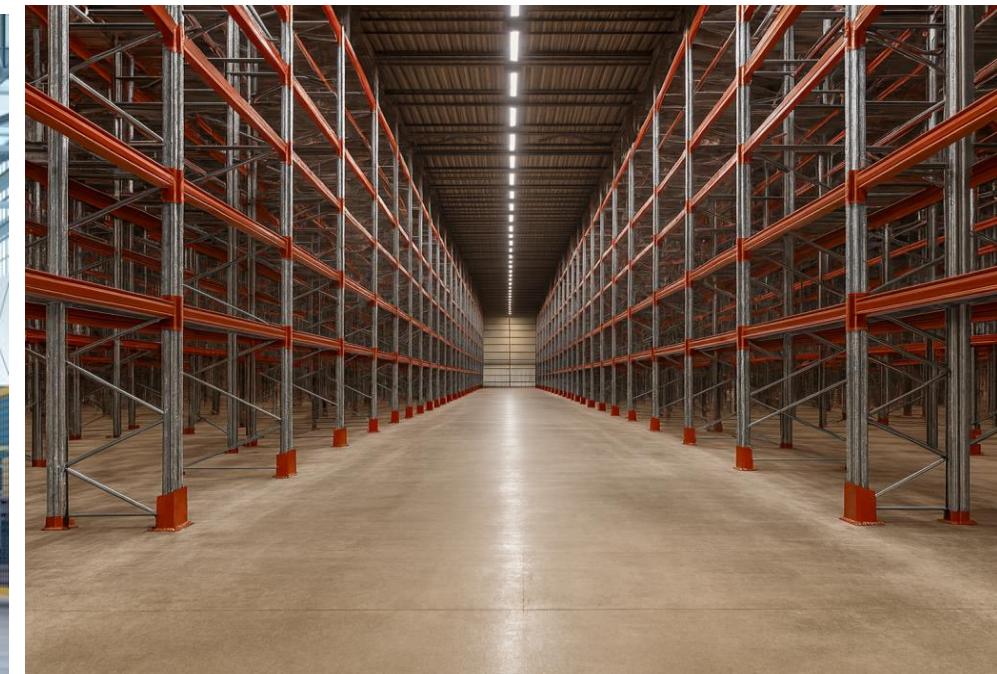
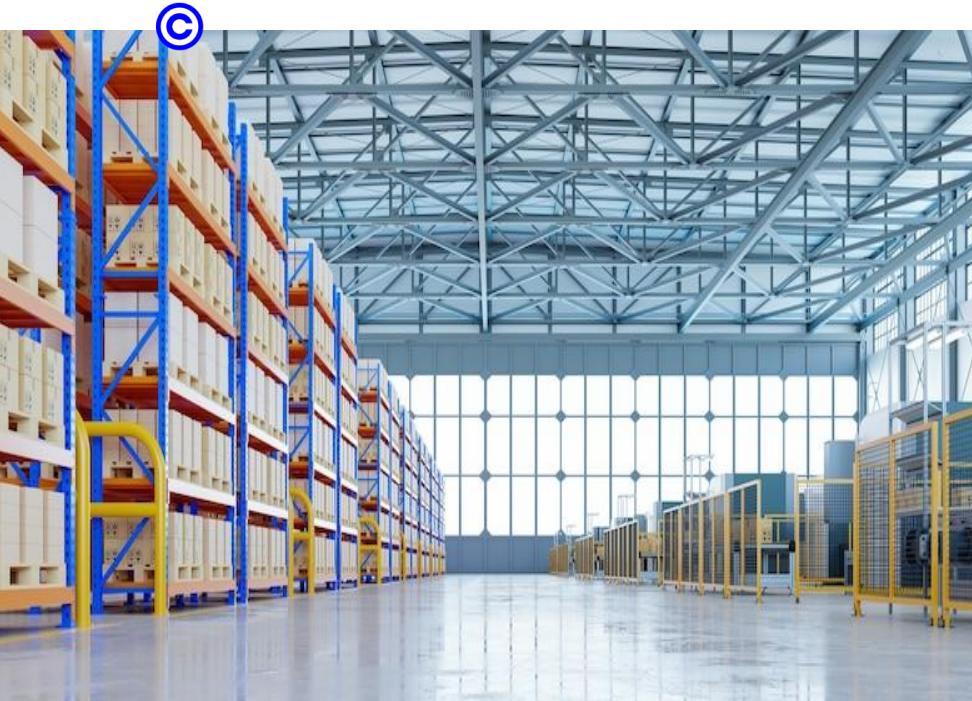


THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE  
SMART DEPARTMENT STORE (THE AESTHETIC DESIGN, WINDOWS,  
(...) IS PURELY INDICATIVE)



THREE-DIMENSIONAL VIEWS OF THE FUTURE PROJECT OF THE  
SMART DEPARTMENT STORE (THE AESTHETIC DESIGN, WINDOWS,  
(...) IS PURELY INDICATIVE)

## 3D PHOTOGRAPHIC HYPOTHESIS OF THE FUTURE NEW CONSTRUCTION



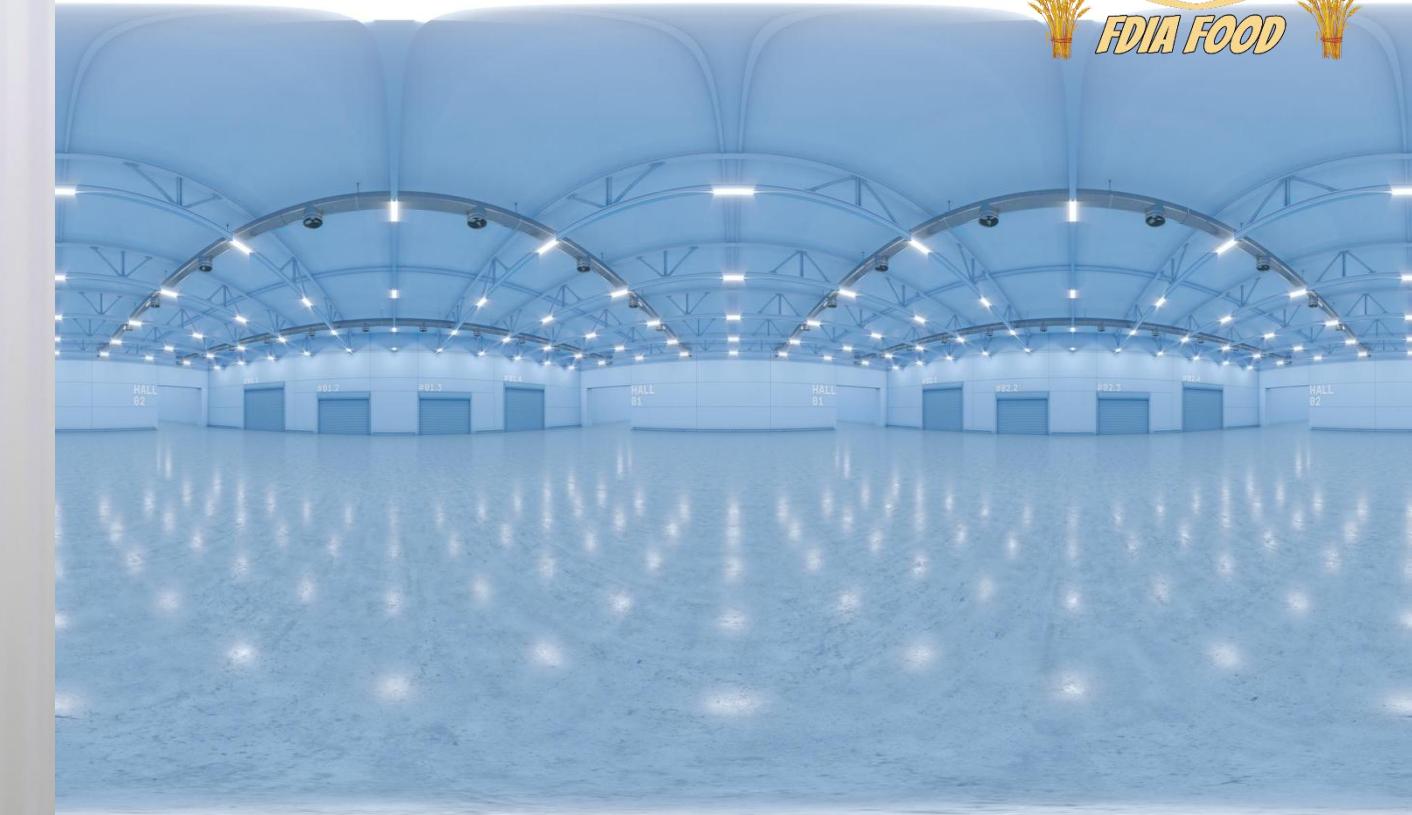


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COLD ROOM



3D PHOTOGRAPHIC HYPOTHESIS  
OF THE FUTURE CONSTRUCTION





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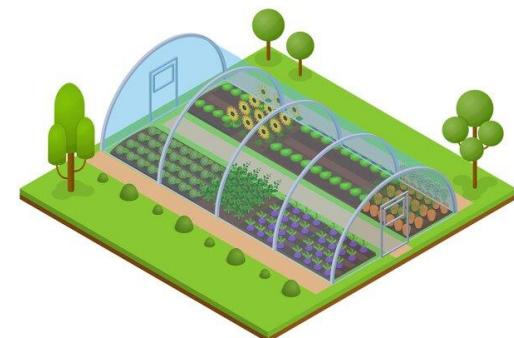
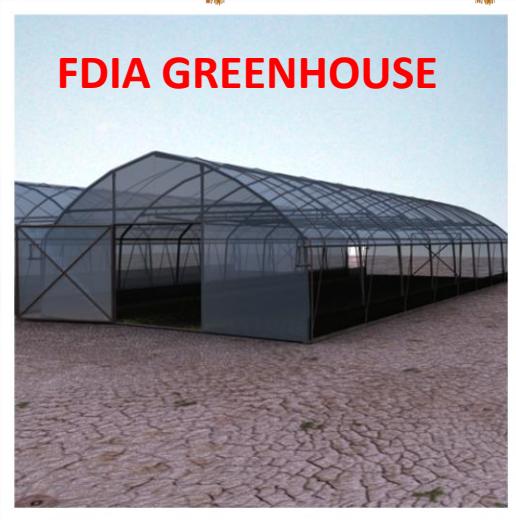
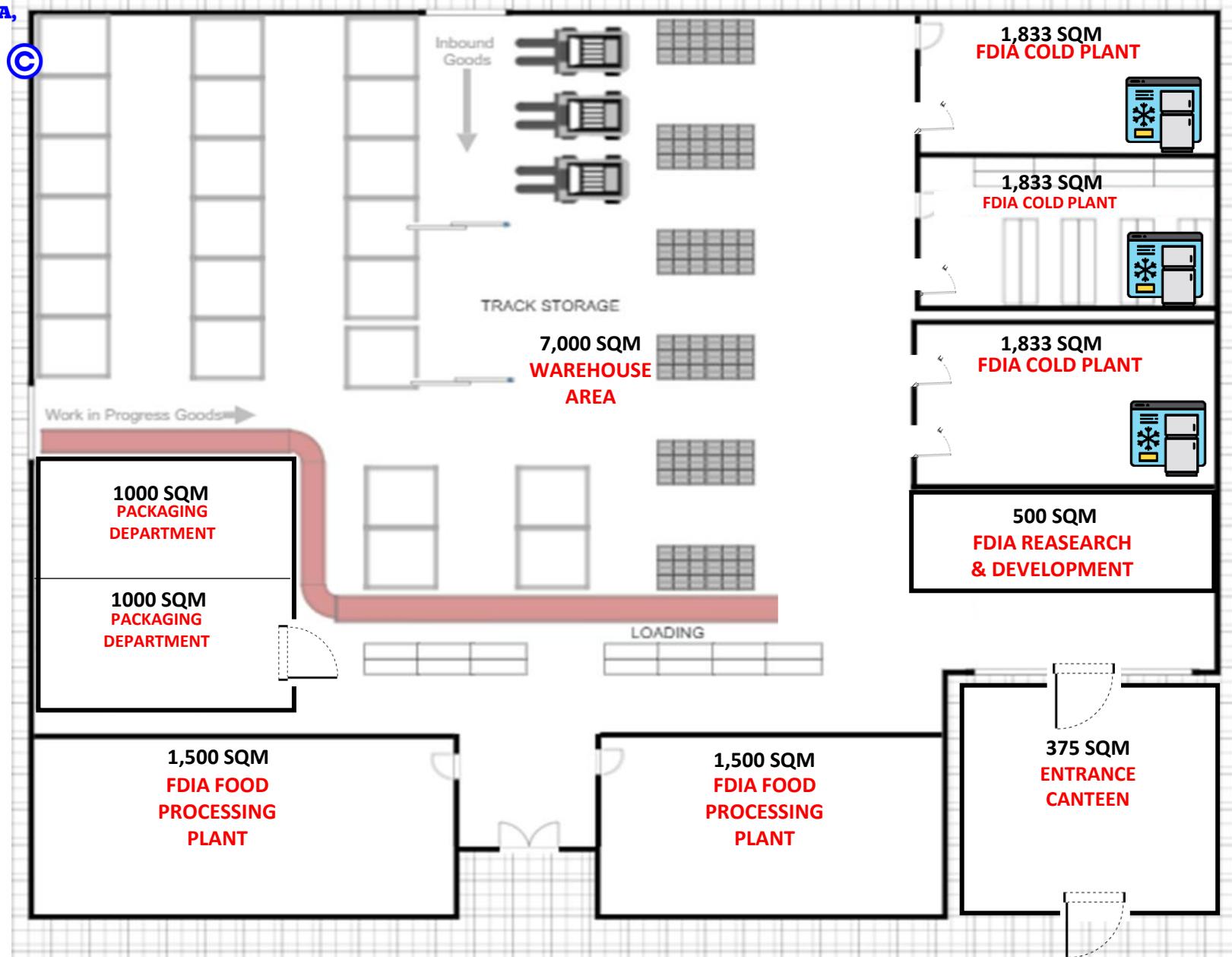




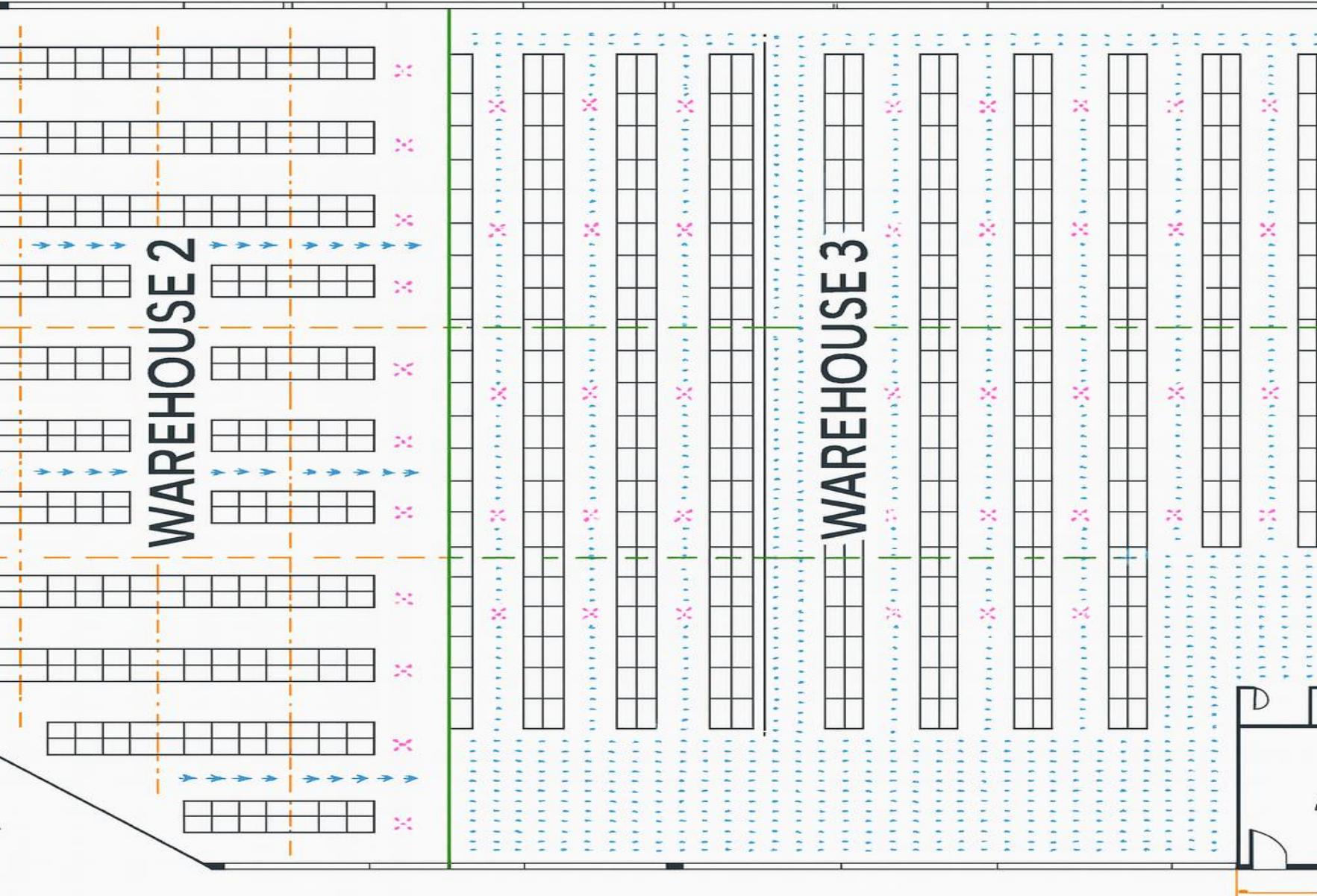
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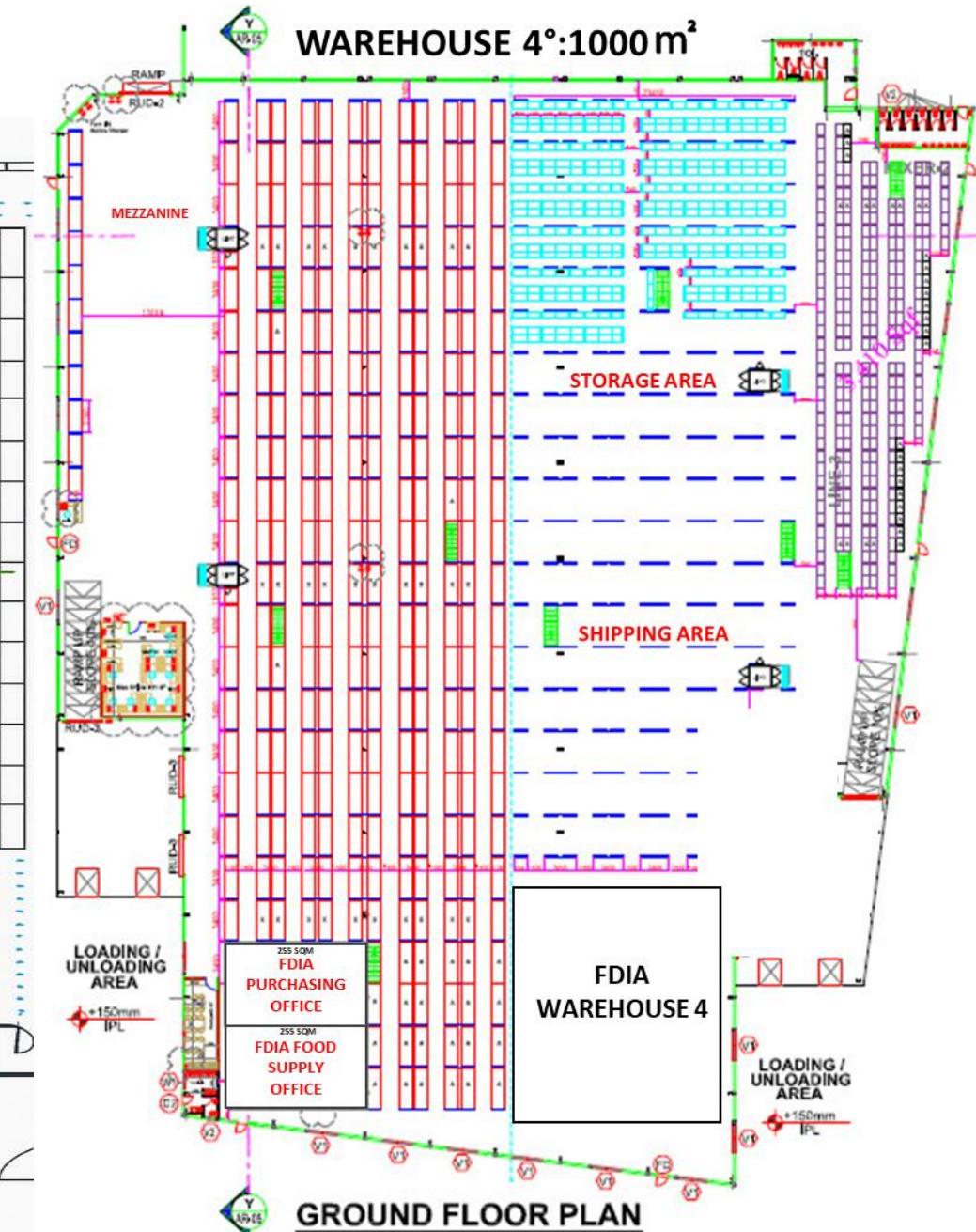
ENTRANCE+ CANTEEN+PROCESSING PLANT + PACKAGING DEPARTMENT  
+MEZANINE+STORAGE+WAREHOUSE + COLD PLANT+REASEARCH & DEVELOPMENT= 18,374 m<sup>3</sup>



WAREHOUSE 2°:500 m<sup>2</sup>



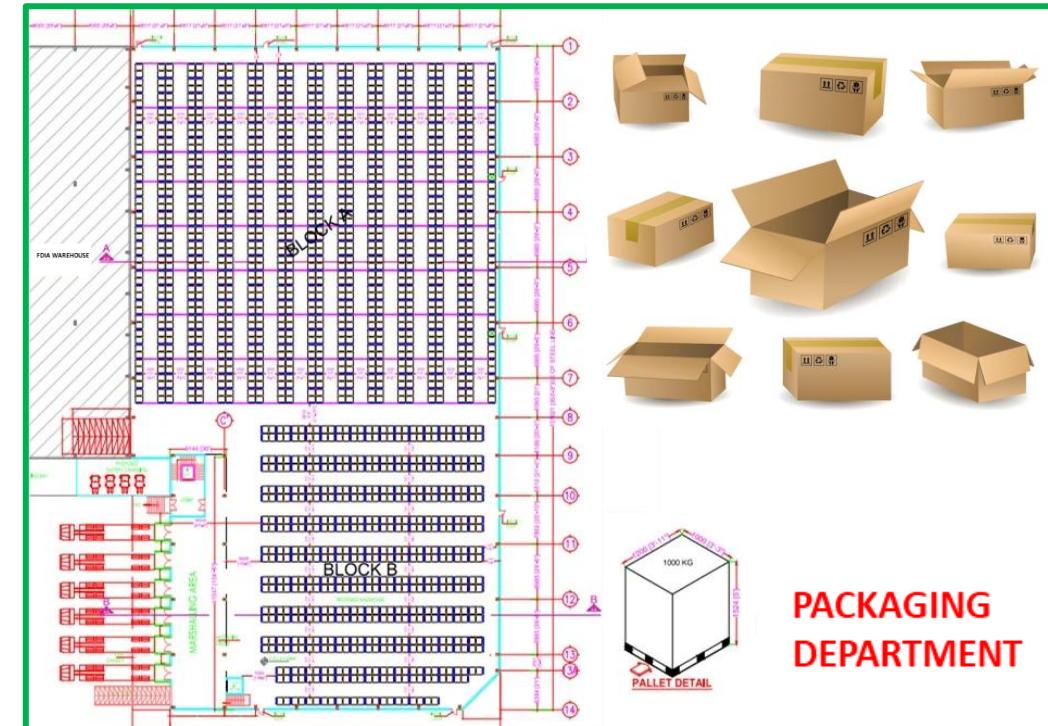
WAREHOUSE 3°:1000 m<sup>2</sup>



## PACKAGING



## IMPORT OF FOOD FROM AFRICAN FARMS & PRODUCERS TO WAREHOUSE IN TUNISIA, MOROCCO, CAMEROON & Maghreb.



**EXPORT PROCESSED FOOD FROM DEPARTMENT STORES TO HUMANITARIAN FACILITIES, CORPORATIONS and OTHER FOUNDATIONS PARTNERS:**

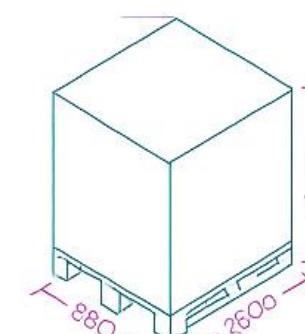
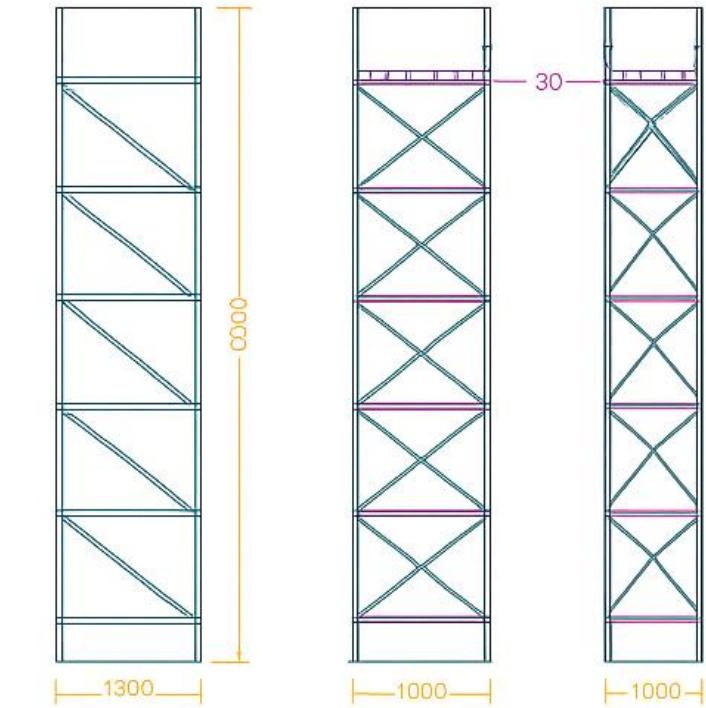
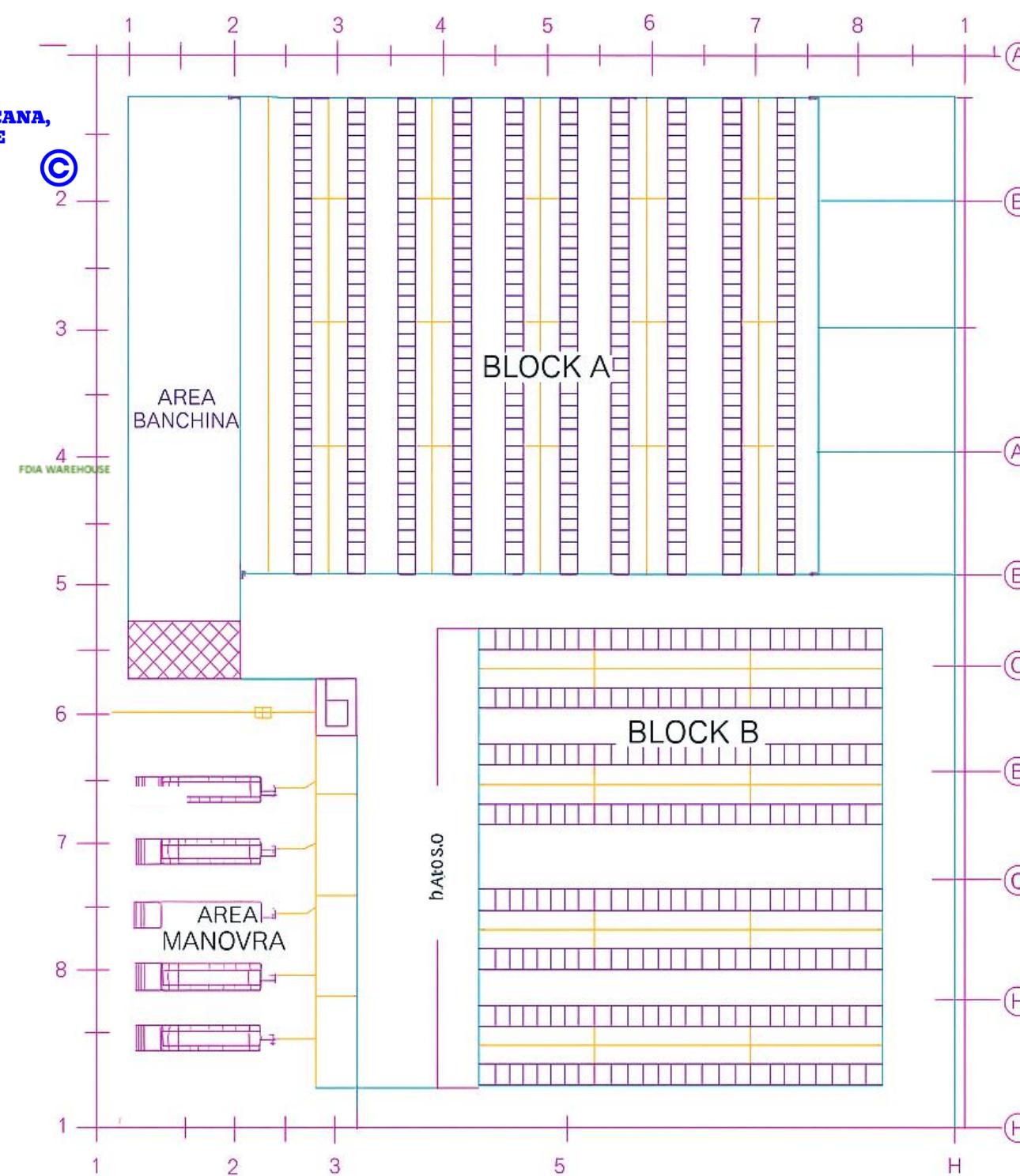


# IMPORT OF FOOD & FRUIT

# **SUPPLY FOOD**

# AGRICULTURAL DEVELOPMENT

# PRODUCERS IN AFRICA

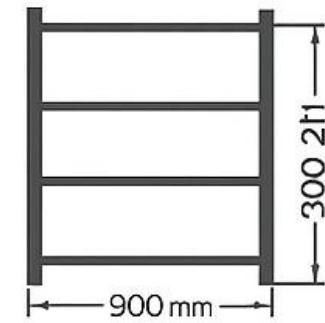
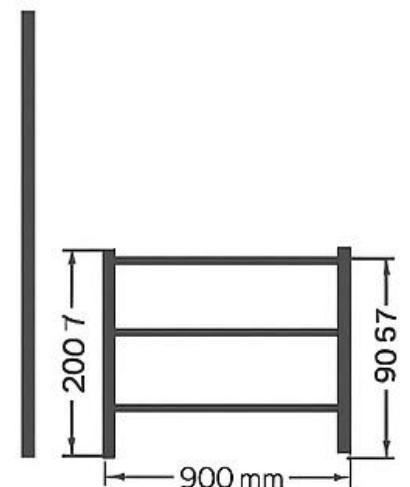
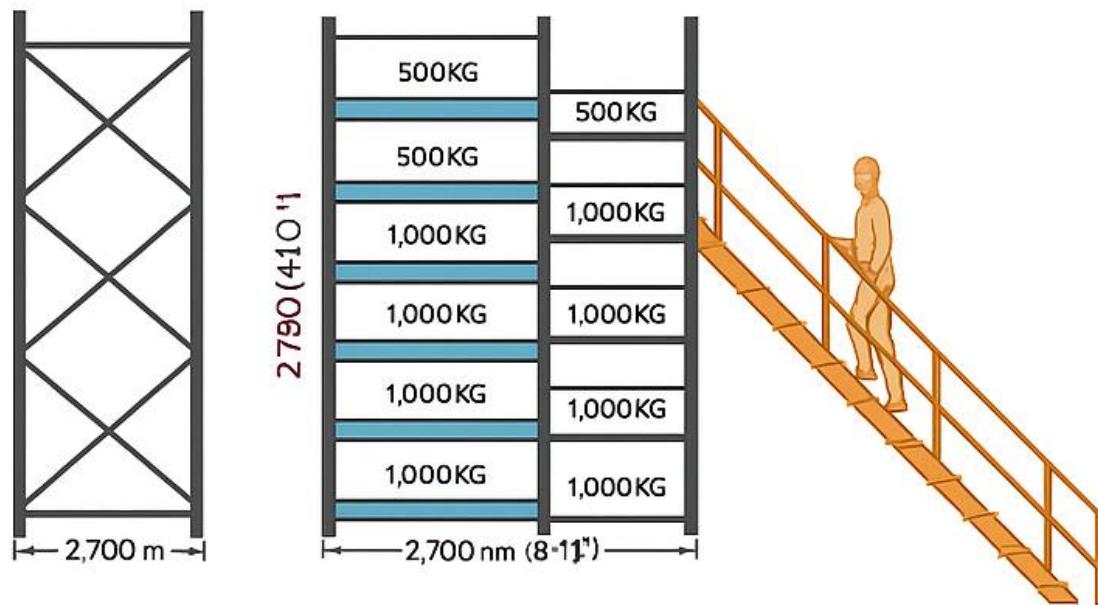
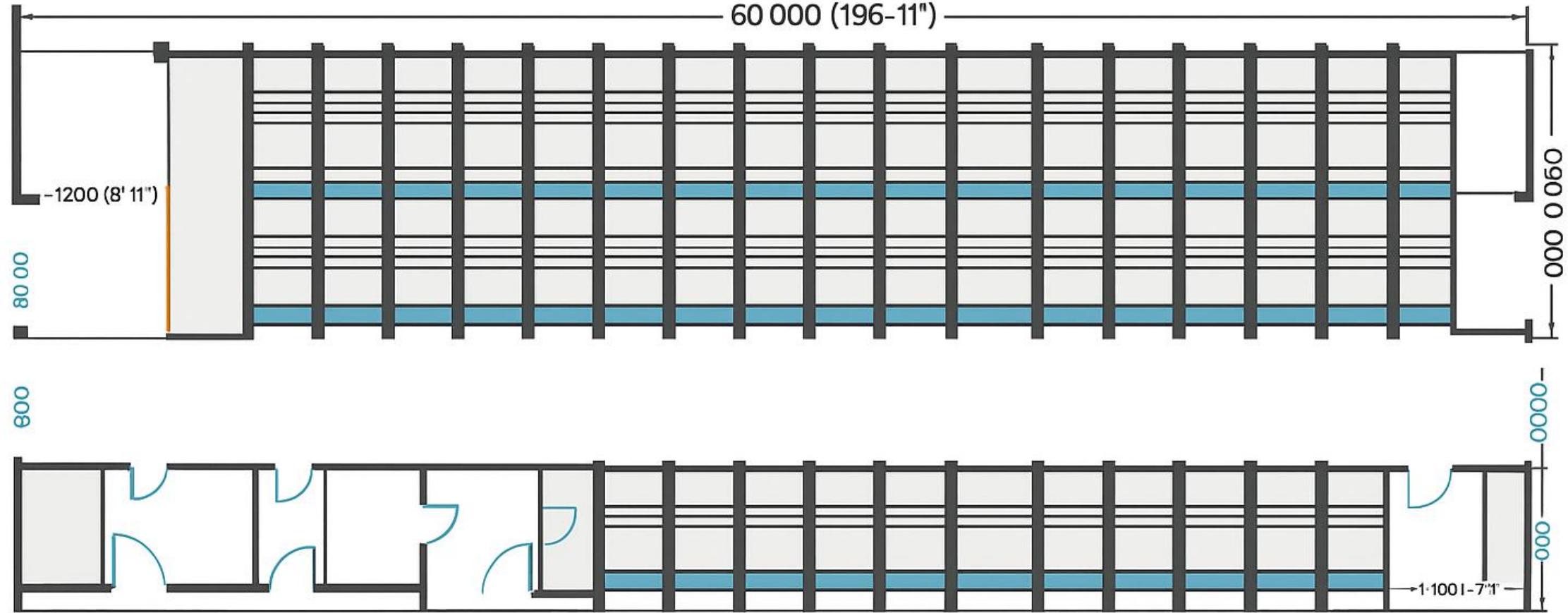


## PALLET DETAIL

- ELEVATION
- Walkmn
- Pallet tacks
- Dimensioni
- Dimensioni

COLORI

- Wall
- Pallet acks
- Texti



## FDIA SMART DEPARTMENT STORE

- 1)EASILY FIND AND RETRACE ROUTES & PRODUCTS.
- 2)CLASSIFY AND CATALOGUE PRODUCTS ACCURATELY.
- 3)LOCATING THE EXACT POSITION OF THE FOODSTUFFS IN SMART DEPARTMENT STORE & SMART AGRO INDUSTRY.
- 4)RECEIVE TAILORED RECOMMENDATIONS AND CORRELATIONS.
- 5)RECREATE IN PHYSICAL ENVIRONMENTS MODELS OF ANALYSIS AND CUSTOMISATION OF PATHS TYPICAL OF THE WEB.
- 6)REDUCTION OF PREPARATION ERRORS IN THE SMART DEPARTMENT STORE.
- 7)INCREASING OPERATIONAL EFFICIENCY
- 8)OPTIMISATION IN CATALOGUING AND CLASSIFICATION OF PRODUCTS DELIVERIES.
- 9) CREATE A SMART INVENTORY MANAGEMENT SYSTEM
- 10) PROVIDE TECHNOLOGICAL INSTRUMENTS.
- 11) TECHNOLOGY ENHANCED FROM FARM TO WAREHOUSE TO HUMANITARIAN CENTERS WITH SENSORS, PROCESSORS, MEMORY, COMMUNICATIONS

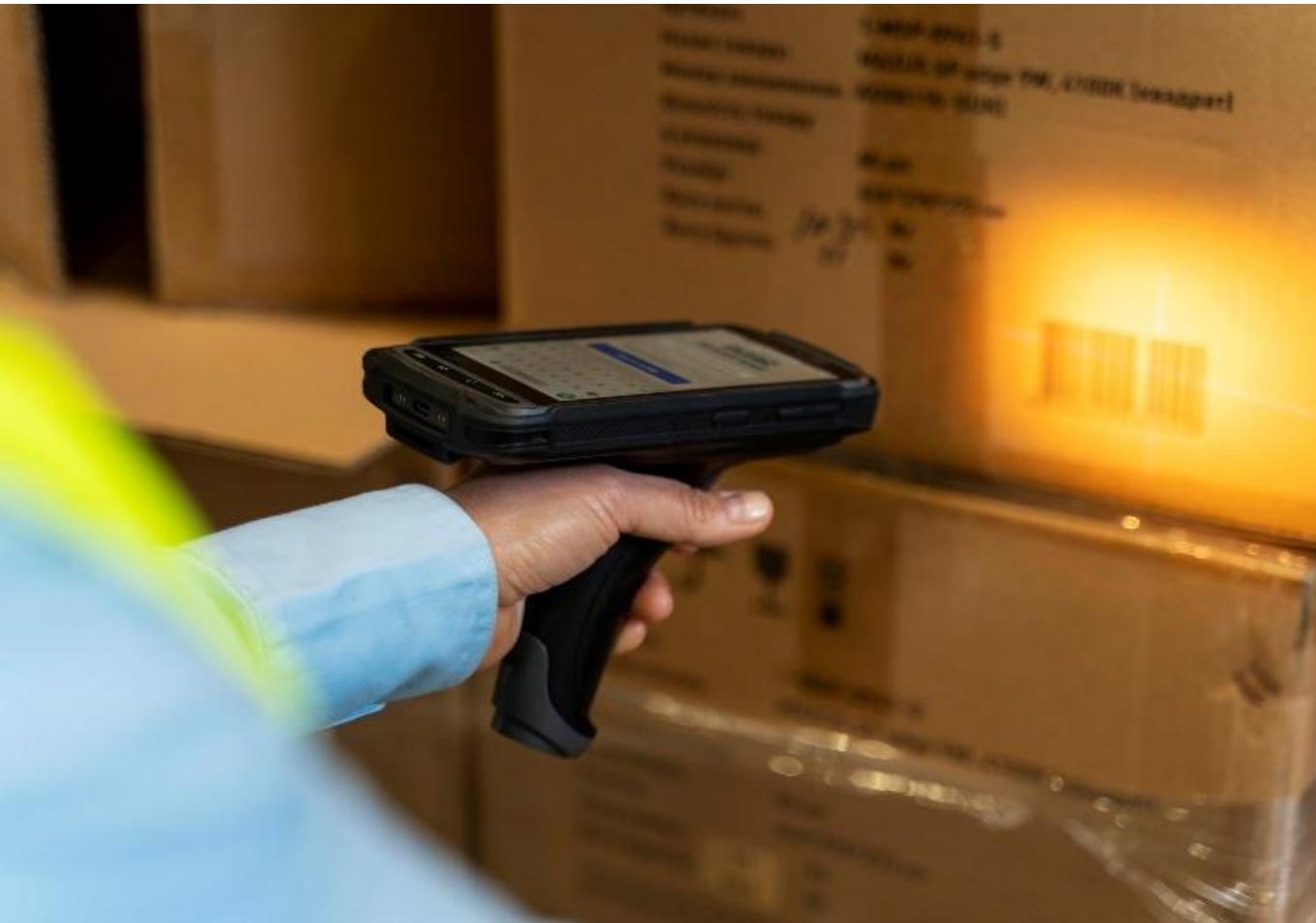
These electronic devices are capable of generating specific frequencies that are propagated through special instrument. The obtained findings show the effectiveness of developing a mathematical & computer model for the assessment of the distribution of production tasks across multiple plants to achieve maximum production in the quickest amount of time and efficient & quickly shipping.

Place sensors in smart department store and in all boxes. Build networks everywhere & analyse everything to greatly improve performance and users satisfaction. A smart supply chain applies the Internet of Things, advanced robotics, and big data analytics in the operation of supply chains. Unique, remote and wireless identification of products via radio frequency devices.





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## RESEARCH AND DEVELOPMENT



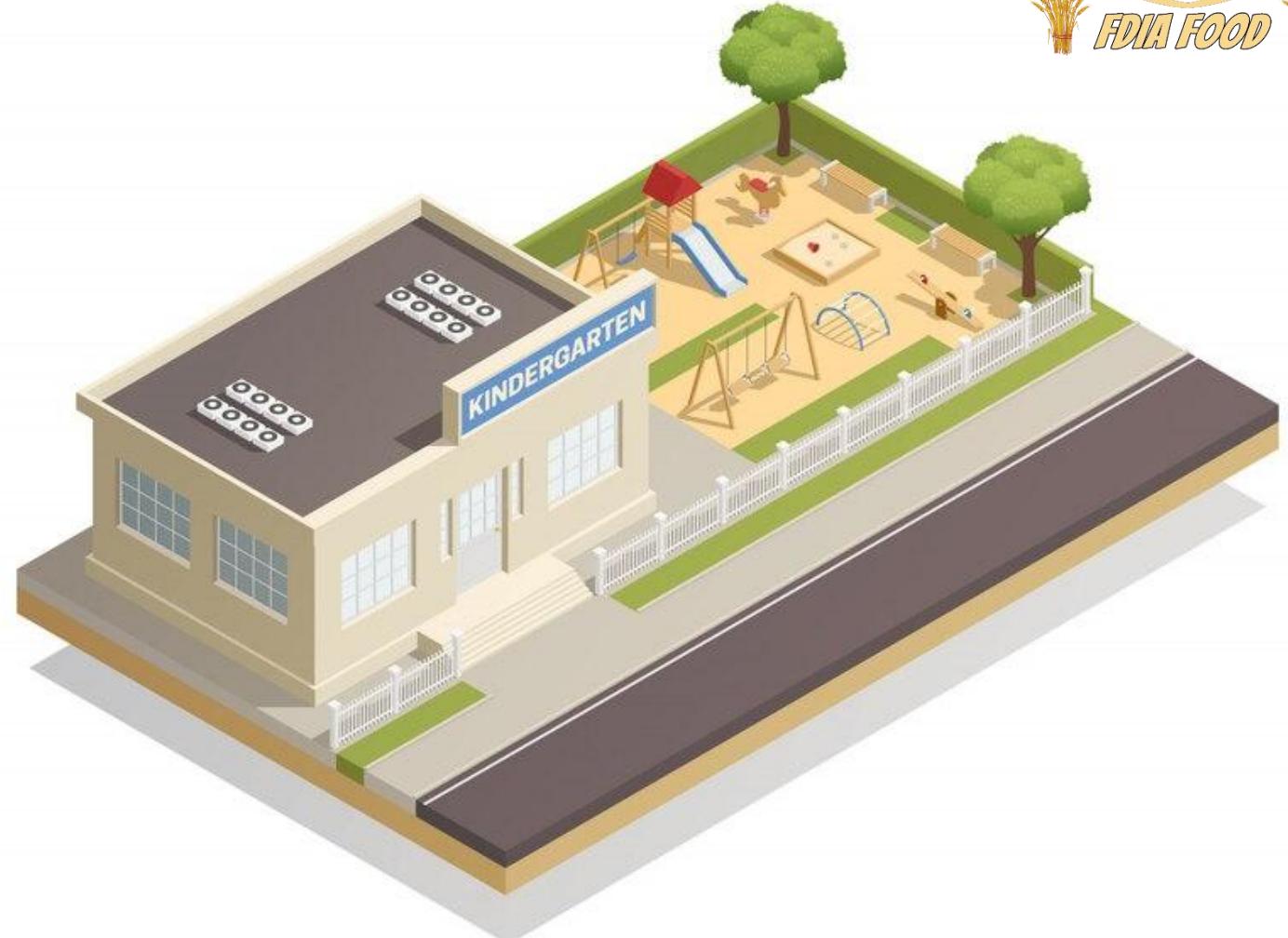
Promote and apply scientific research for the benefit of society,  
directly or indirectly, through universities, institutes or institutions and  
with other Foundations.



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## FDIA HUMANITARIAN INFRASTRUCTURE



ITALICO INDUSTRIAL GROUP

# FDIA AGRIVOLTAIC

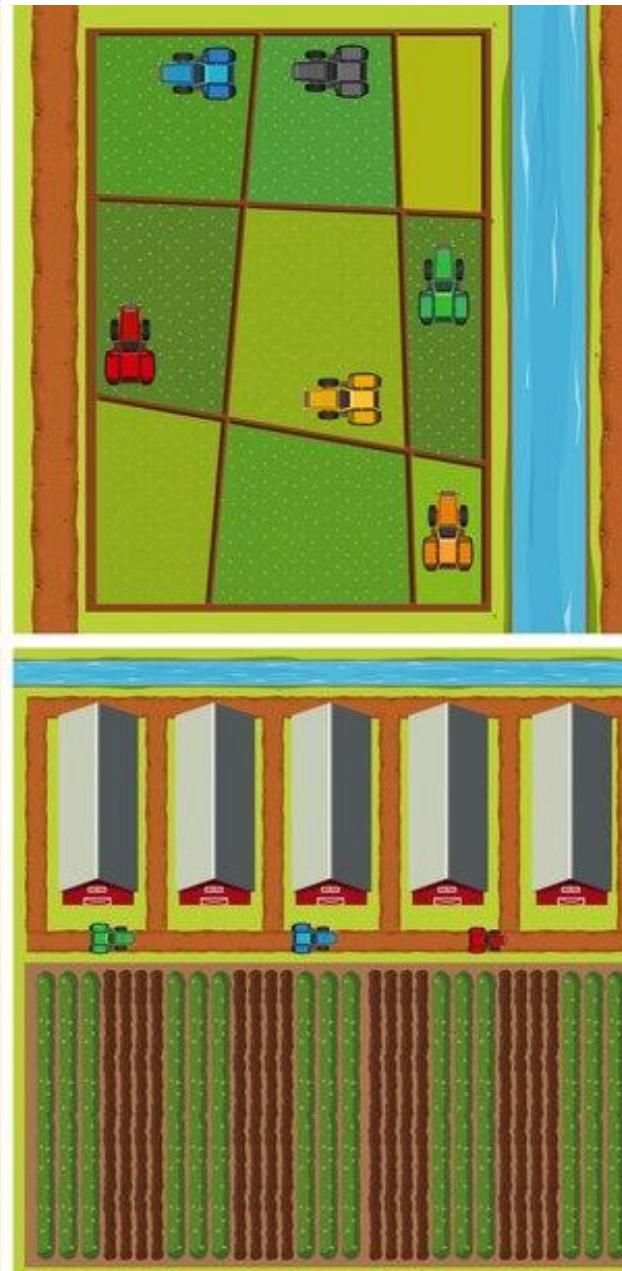
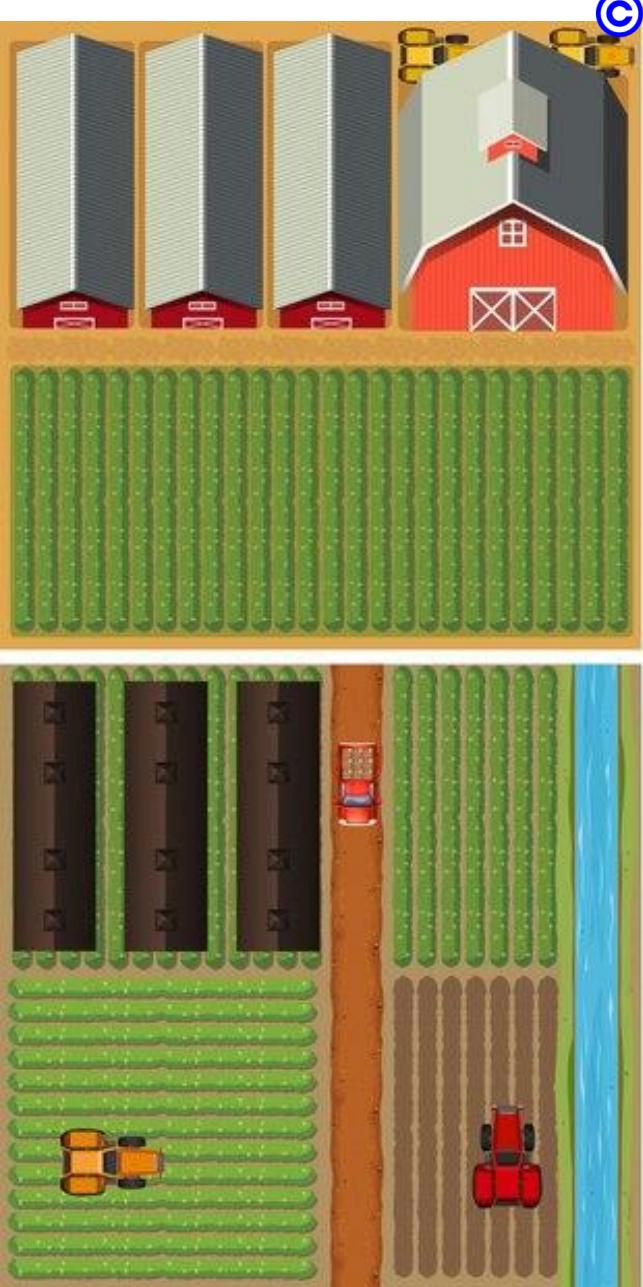


THE HYPOTETICAL PHOTO OF THE FUTURE PROJECT OF THE  
AGRIVOLTAIC (THE AESTHETIC DESIGN, PHOTOVOLTAIC PANELS IN THE  
ROOF, LAND AREA (...) IS PURELY INDICATIVE)

# FDIA AGRIVOLTAIC

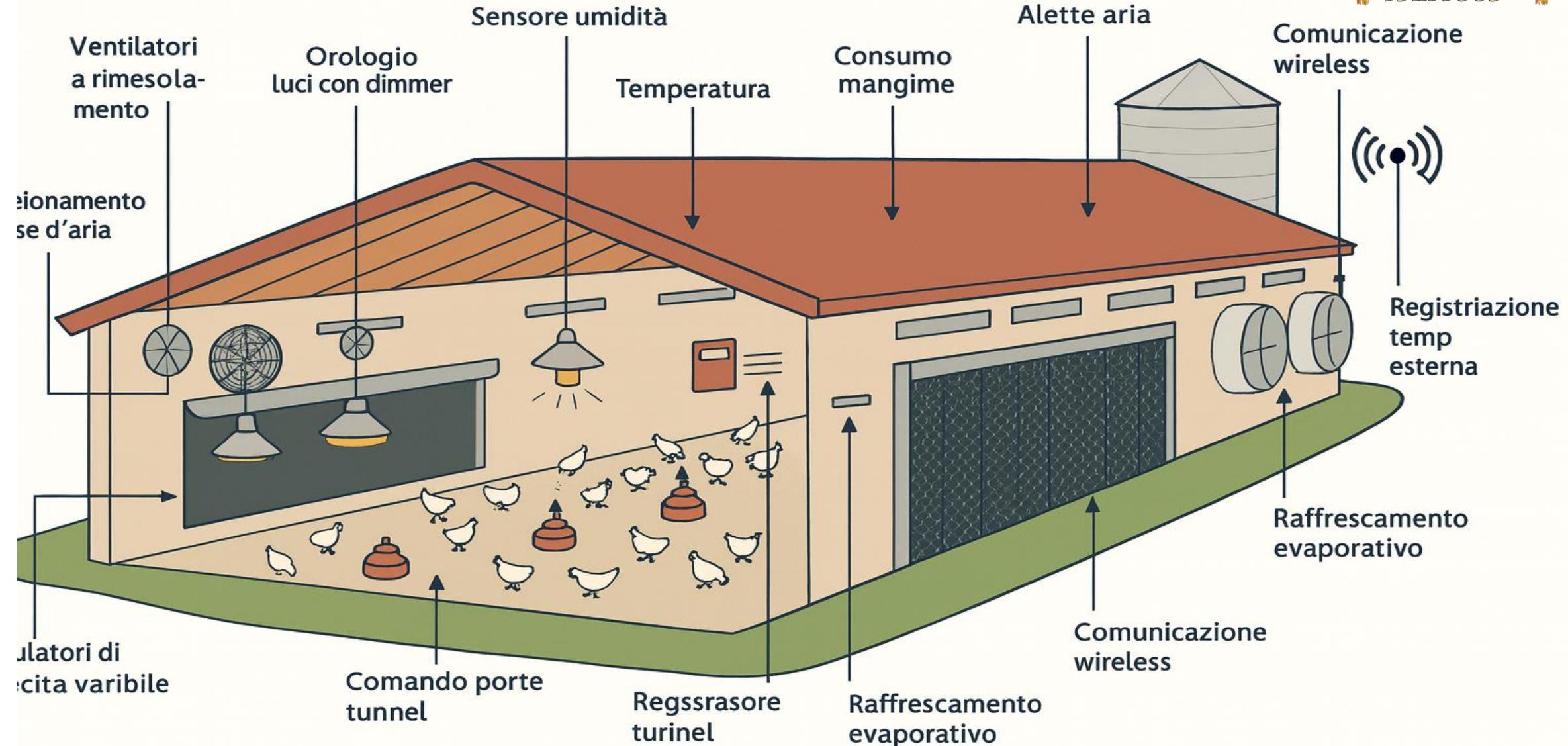


THE HYPOTHETICAL PHOTO OF THE FUTURE PROJECT OF THE  
AGRIVOLTAIC (THE AESTHETIC DESIGN, PHOTOVOLTAIC PANELS IN THE  
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## POULTRY LIVESTOCK FARM





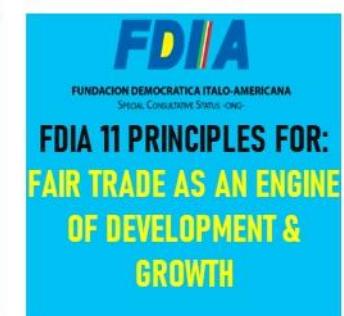
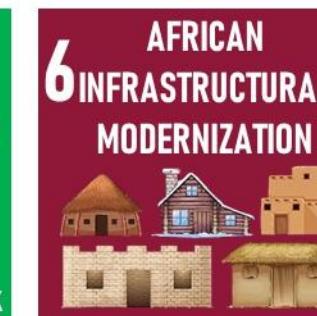
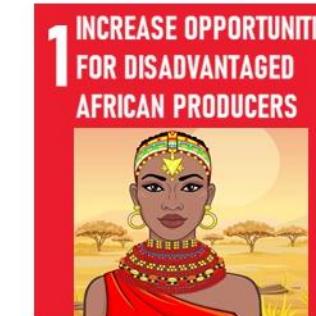




## FAIR TRADE AS AN ENGINE FOR DEVELOPMENT AND GROWTH

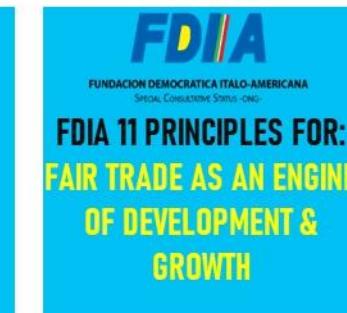
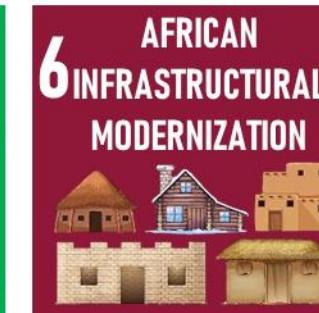
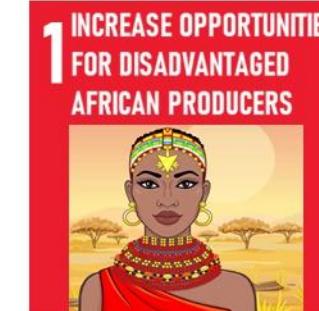
FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA, FDIA - REPRESENTAÇÃO PERMANENTE represented by: President Lawyer Vincenzo Cortegiani, General Director Dr. Fabio Rosati and Dr. Luca Rosati Secretary-project manageri. Our initiative is called "FAIR TRADE AS AN ENGINE FOR DEVELOPMENT AND GROWTH" and is promoted to support in humanitarian and fair purposes the goals and rights of African farmers that are facing hardships and challenges. Therefore, the eleven principles of our solidale initiative represented in the following pictures are the common goals that will accelerate financial, social and economic recovery in the developing countries. The goals are to cooperation with local farmers in African continent and creating a full employment, smart production system and optimal work condition for African agriculture producers.

This humanitarian project is a way to overcoming inequalities and to accelerate a sustainable economic and social development. Our initiative ensures innovation, prosperity and progress generating sustainable economic growth in the developing countries. End hunger, achieve food security, modernise African and other continents' infrastructure, promote sustainable agriculture, increase opportunities for disadvantaged workers and producers by creating a fair level playing field (.....).



## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

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## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

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1 INCREASE OPPORTUNITIES  
FOR DISADVANTAGED  
AFRICAN PRODUCERS



2 PHILANTROPY



3 FAIR MARKET



4 ETHICAL  
RESPONSE



5 GOOD WORKING  
CONDITIONS IN  
SAFETY & HEALTHY



6 AFRICAN  
INFRASTRUCTURAL  
MODERNIZATION



7 FAIR COMMERCE  
IN COOPERATIVE  
PURPOSE



8 AID CHILDREN  
GENDER EQUITY  
HUMAN RIGHT



9 SAFEGUARD  
FAIR TRADE



10 CREATE  
ECOLOGICAL SYSTEM



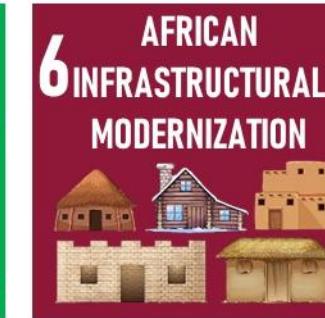
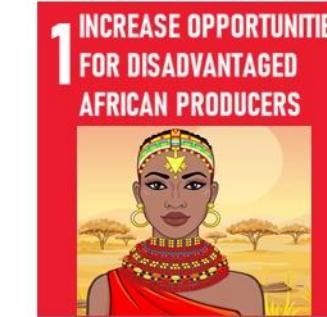
11 FAIR LEVEL  
PLAYING FIELD



FDIA  
FUNDACIÓN DEMOCRÁTICA ITALO-AMERICANA  
SPECIAL CONSULTATIVE STATUS-ONG  
FDIA 11 PRINCIPLES FOR:  
FAIR TRADE AS AN ENGINE  
OF DEVELOPMENT &  
GROWTH

## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

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## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

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1 INCREASE OPPORTUNITIES  
FOR DISADVANTAGED  
AFRICAN PRODUCERS



2 PHILANTROPY



3 FAIR MARKET



4 ETHICAL  
RESPONSE



5 GOOD WORKING  
CONDITIONS IN  
SAFETY & HEALTHY



6 AFRICAN  
INFRASTRUCTURAL  
MODERNIZATION



7 FAIR COMMERCE  
IN COOPERATIVE  
PURPOSE



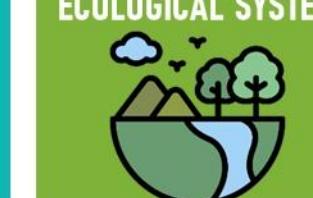
8 AID CHILDREN  
GENDER EQUITY  
HUMAN RIGHT



9 SAFEGUARD  
FAIR TRADE



10 CREATE  
ECOLOGICAL SYSTEM



11 FAIR LEVEL  
PLAYING FIELD



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FUNDACIÓN DEMOCRÁTICA ITALO-AMERICANA  
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FDIA 11 PRINCIPLES FOR:  
FAIR TRADE AS AN ENGINE  
OF DEVELOPMENT &  
GROWTH

# **SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY**

FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA, FDIA -REPRESENTAÇÃO PERMANENTE represented by: President Lawyer Vincenzo Cortegiani, General Director Dr. Fabio Rosati and Dr. Luca Rosati Secretary-project manager with the support of our companies partners deals with political-economic aspects of food procurement in the field of food security. We offer a wide range of food in sufficient quantities for the population volumes to be served and related to the achievement of expected eating and nutritional styles; of a quality suitable for proper nutrition. FDIA FOOD department creates efficient production, import & export and food aid in cases of crisis.

A unique way of doing FAIR TRADE and being on the market, which combines economic logic with social responsibility, not dividing profits, but accumulating resources to be invested for the benefit of the community and in anticipation of future challenges.

## SUPPORTING AFRICAN LOCAL FARMERS STRENGTHENS COMMUNITY AND LOCAL ECONOMY

- FDIA FOOD cooperate with our producers to ensure that appropriate storage operations are carried out at harvest time or in the most favourable years quantitatively, adjusting supply to demand, in order to stabilise prices.
- Our vision is to implement trade policies, with social protection networks, build up production stocks, emergency reserves and increase agricultural productivity with innovative technological equipment and new production lines.



## BEEKEEPING FARM

- 1.BEEHIVE BOXES & ACCESSORIES FEEDERS.
- 2.PROVIDE BEEKEEPERS EQUIPMENT.
- 3.BEEKEEPERS PROTECTION SAFETY EQUIPMENT.
- 4.BEEHIVES BREEDING EQUIPMENT.
- 5.CAGES AND MARQUEES BEEKEEPERS.
- 6.USE FLOWERING MEADOWS WITH HEALING PLANTS AND NATURAL HERBS.



SMOKER



HIVES



BEEKEEPING



BEE SUIT



HONEY BEE



FRAMES



HONEYCOMB



HONEY





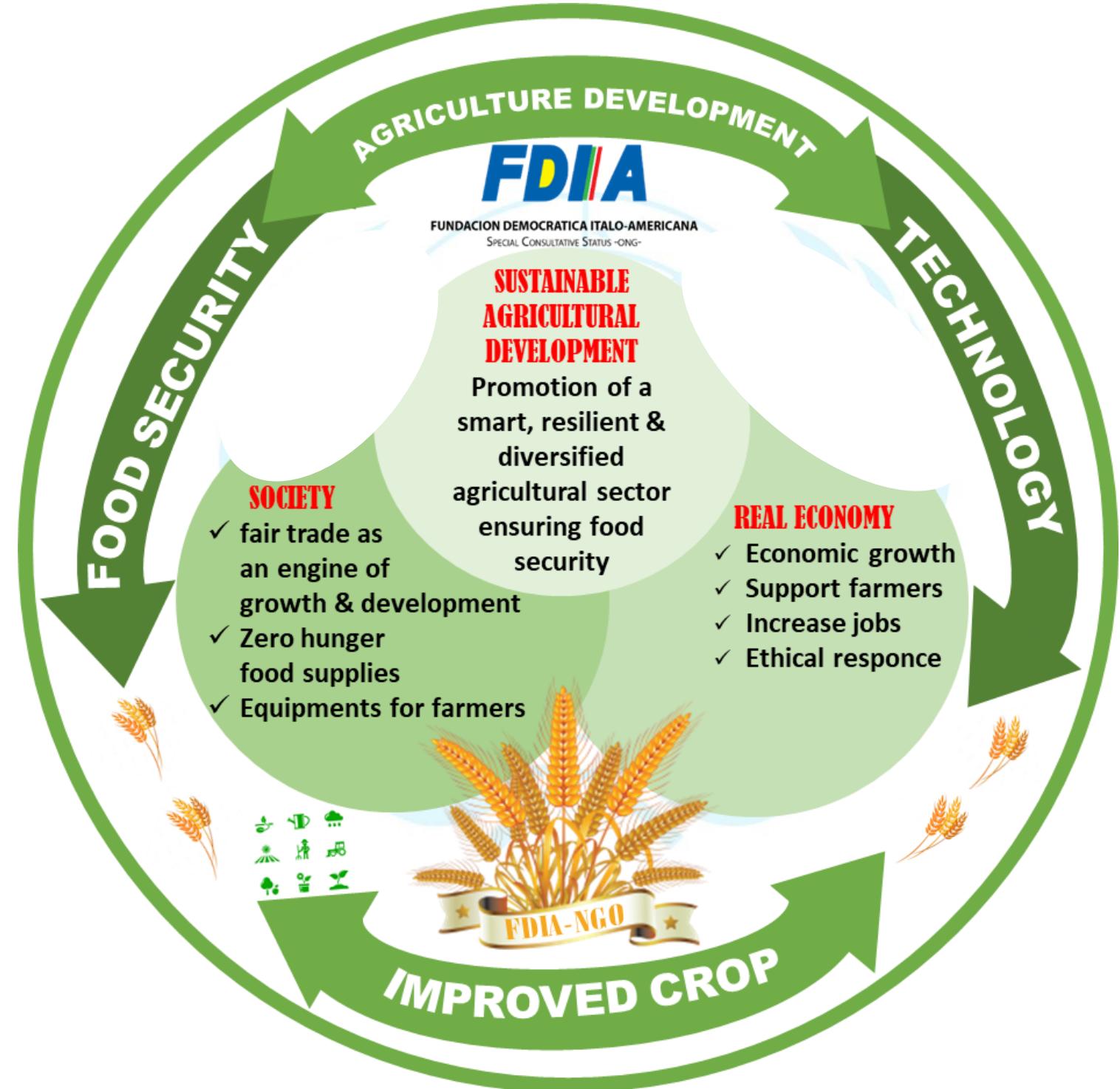




## HUMANITARIAN AID



Promote and apply scientific research for the benefit of society, directly or indirectly, through universities, institutes or institutions and other foundations.





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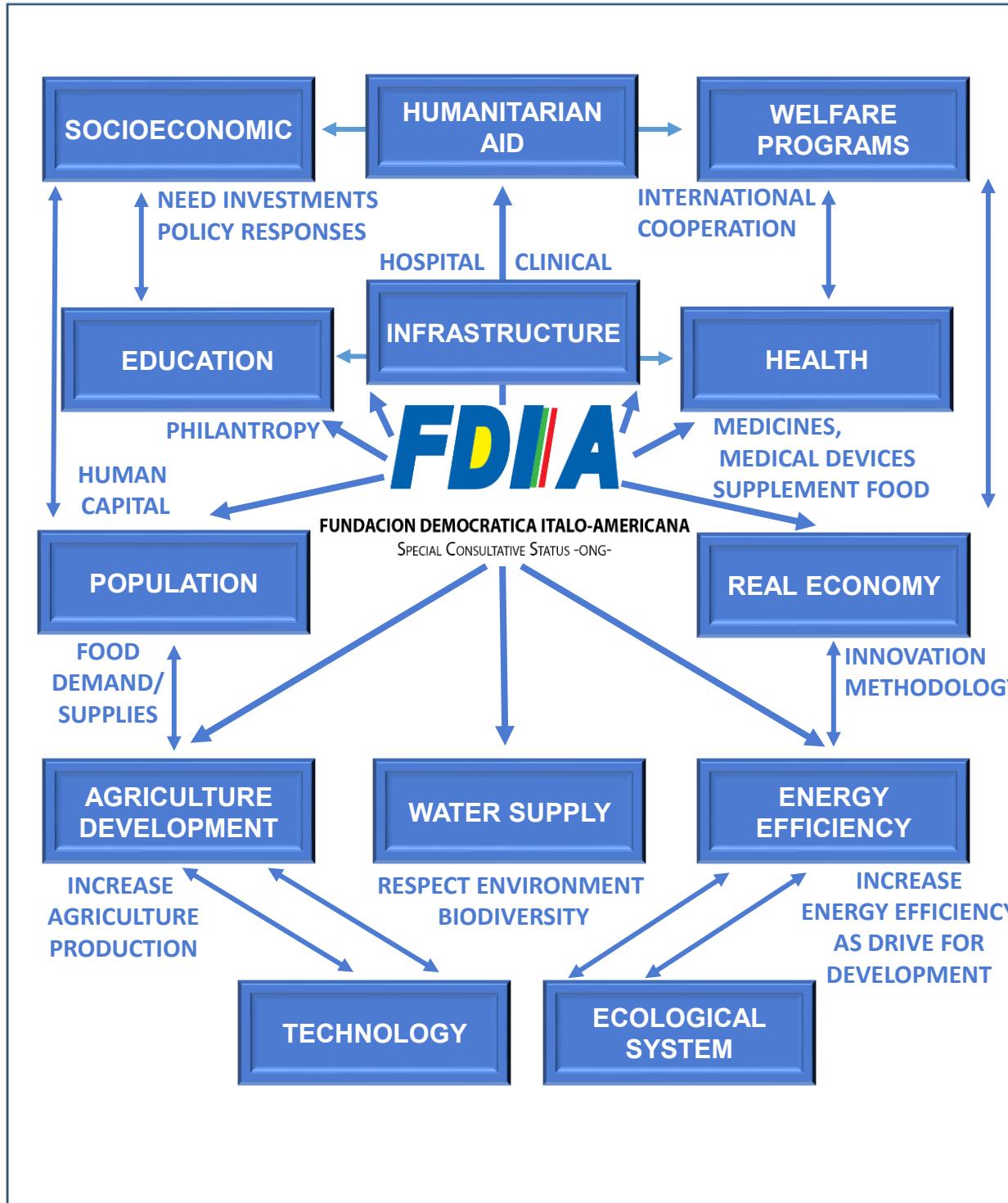


***THE SUPPLIER OF EQUIPMENT THAT WILL NEED FOR  
SUPPORT LOCAL FARMERS IN HUMANITARIAN  
SCENARIO IN DAIRY SECTOR WILL BE:***

***COPY & PAST THE URL FOR SEE THE SUPPLIERS INFORMATION.***

***<https://www.pharma1humanitas.com/password.html>***

***<https://www.pharma1humanitas.com/dairyfarm.pdf>***



**THIS FEASIBILITY STUDY MATERIAL & HUMANITARIAN PROJECT IT  
IS FOR THE PERSONAL USE OF THE PROJECT DEVELOPER  
DENOMINATED FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA, FDIA  
- REPRESENTAÇÃO PERMANENTE REPRESENTED BY PRESIDENT  
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# SUPPLIER/STARTUP INCUBATOR

IT IS REPRESENTED BY PHARMA1HUMANITAS HOLDINGS LTD



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**Videos:** <https://www.pharma1humanitas.com/holding.html>

**Email:** pharma1humanitas@gmail.com

# PROJECT OWNER/PROJECT DEVELOPER

FUNDACIÓN DEMOCRÁTICA ITALO AMERICANA, FDIA -  
REPRESENTAÇÃO PERMANENTE REPRESENTED BY:

**PRESIDENT:** LAWYER VINCENZO CORTEGIANI

**GENERAL DIRECTOR:** DR. FABIO ROSATI,

**WEB DESIGNER/PROJECT DESIGNER:** DR. LUCA ROSATI

**Permanent Headquarters:** Portugal, AV 5 DE OUTUBRO,  
63 R/C - CODIGO POSTAL 1050-048,R/C, LOJOA 1 E  
3,LISBOA, distrito de Lisboa, concelho de Lisboa,  
freguesia de Avenidas Novas.



**Website:** <https://fdiangopermanente.pt/index.html>

**Projects & videos:** <https://fdiangopermanente.pt/download.html>

**Email:** incubator@fdiangopermanente.pt

**Email:** eu.secretary@fdiangopermanente.pt