



AGRICOLA MODERNA

Company Presentation

AGRICOLA
MODERNA



Agriculture today is unsustainable

1. Demand for produce 365 days a year, regardless of season.
2. Food travels on average 1500km, goes through 28 different pairs of hands.
3. 30% of crops is wasted. food that does survive the long journey is →
4. Not fresh, lacks vital nutrients, and is covered in pesticides and herbicides.
5. 70% of global water is consumed in Agriculture (FAO).
6. 1/3 of global energy consumed for Agriculture (FAO).
7. By 2050 population 9.7 billion requiring extra farmland the size of Brazil.

Why Vertical Farming

In our closed plant production systems,
Agricola Moderna can grow:



SUSTAINABLY

- 90% less water than traditional agriculture
- 10x Yield rates



HEALTHY SUPERIOR TO ORGANIC

- Harvest to shelf on same day
- No transportation



PLANTS ALL YEAR ROUND AT VERY HIGH AND VERY PREDICTABLE RATES OF YIELD

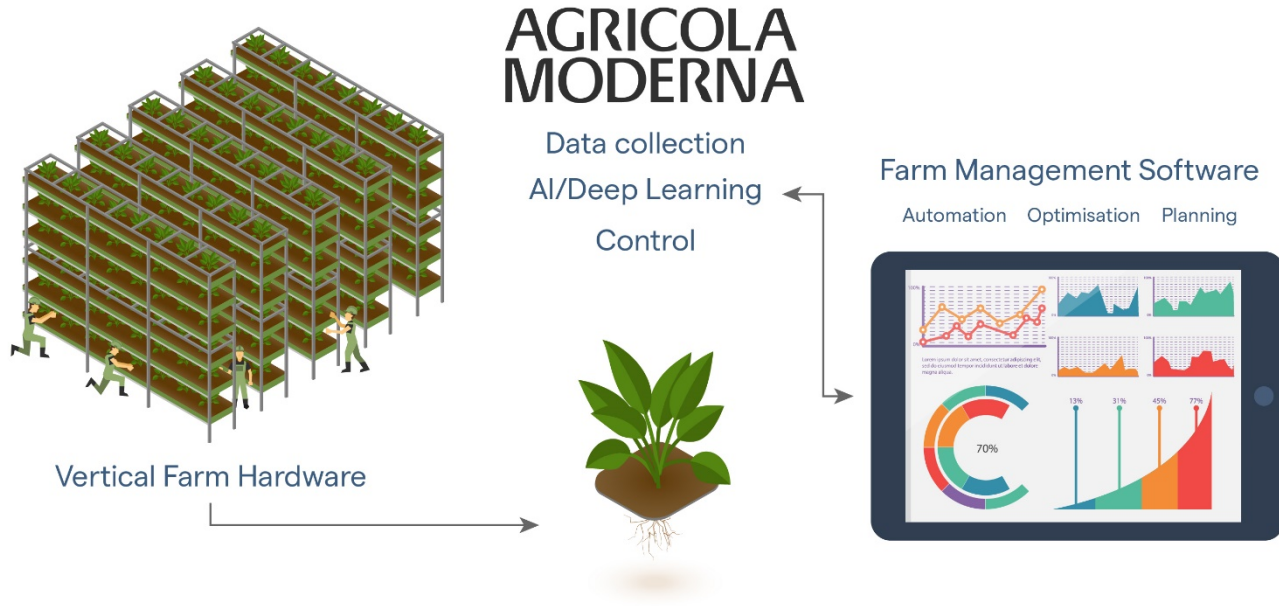
- On Demand, 365 d/y
- Traced and tracked



PESTICIDE-FREE

- Only natural plants, no pesticides, no heavy metals
- Far far fresher

Agricola Moderna Solution



- Vertical Farm Hardware, where the plants grow indoor, stacked and hydroponically.
- Data Collection, Visual Recognition and Deep Learning.
- Farm Management Software, for automation, optimisation and planning of the Vertical Farm.

R&D farm – Proof of concept

- Agricola Moderna 50m2 R&D Farm is located in the heart of Milano inside the Milan food district.
- The R&D Farm collaborates with FGA CHEF school
- Can produce 50+ different products
- Fully modular, Beta testing Innovation and produce.
- Al Cortile restaurant trial produce with end consumers



R&D farm – Trialing with CHEF



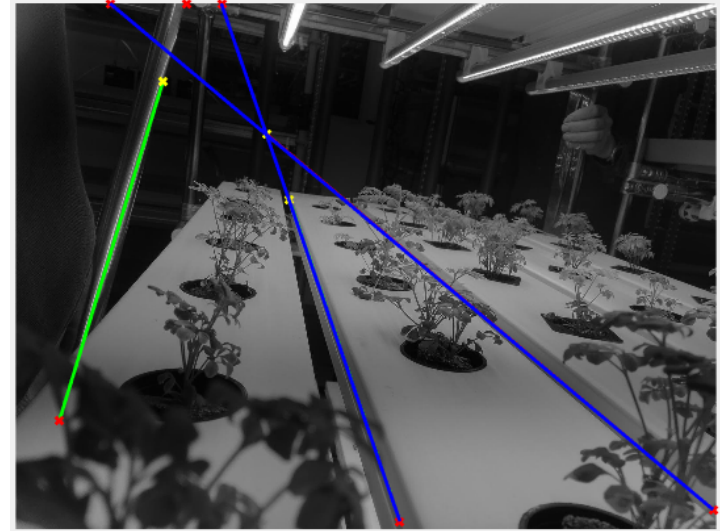
Innovation and Technology

AI – Deep Learning & Visual Recognition



SAPIENZA
UNIVERSITÀ DI ROMA

- Partnership with Robotics & AI group, Department of Computer Science.
- Project on Visual Recognition of the Plant growth, using Deep-Learning.
- The use of machine learning algorithms will optimize plant growth.

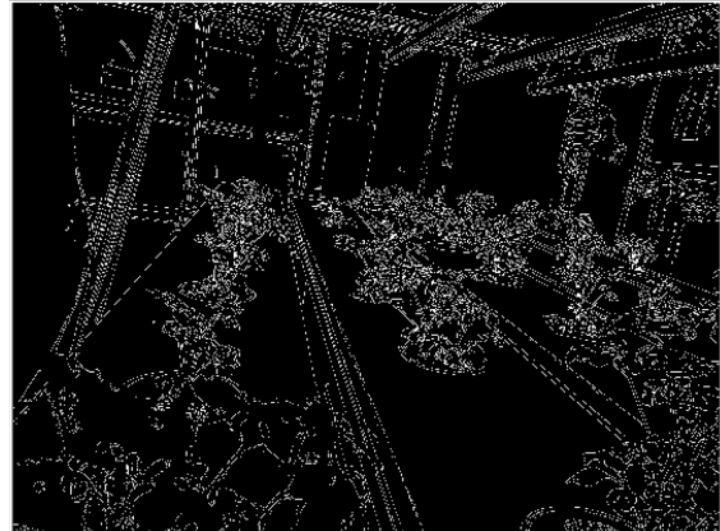


Data Collection & Automation



POLITECNICO
MILANO 1863

- Partnership with Department of Electrical Engineering.
- Project on measurements and instrumentations.
- The collected data is fed to algorithm in real time.





Products

AGRICOLA MODERNA



Microgreens

A PRODUCT FOR THE
HEALTH CONSCIOUS CONSUMER

OVER 40 TIMES HIGHER LEVELS
OF NUTRIENTS COMPARE WITH MATURE
COUNTERPARTS (SUPER FOOD)

OVER 50 VARIETIES

MIX SALAD READY TO EAT
OR LIVE PRODUCT



Microgreens



Greens and Aromatics

A PRODUCT FOR THE ENVIRONMENTALLY
CONSCIOUS CONSUMER

FRESH AND INTENSE FLAVOUR

OVER 30 VARIETIES
(DIFFERENT BASIL, PARSLEY,
KALE, RUCOLA ECC..)

MIX SALAD AND AROMATICS
READY TO EAT



Greens and Aromatics



Team



Pierluigi Giuliani (CEO)

Ten years experience in the food & beverage industry



Dr Benjamin Franchetti (CTO)

Previous director of technology SME. PhD in Mechanical Engineering



Dr Duccio Piovani (Data Science)

Data Scientist, Research Associate UCL, PhD mathematics.



Niccolo Cacciotti (AI)

MSc thesis, Artificial Intelligence and Robotics, La Sapienza University.



Dr Tiara Heinmann (Agronomer)

PhD in Agronomy from Nottingham University. Photosynthesis expert



Luke Barnes (Agronomer)

Environmental scientist and Agronomer

Thank you
for your attention

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