

MADE IN UAE

Biocraft

DESERT MIGHT BE GREEN



ABOUT US

At Biocraft, we leverage high-innovation biotechnology to produce eco-friendly soils and multipurpose biofertilizers designed to restore and transform arid and degraded lands into thriving green ecosystems. Our innovations enhance soil health, promote biodiversity, and support sustainable food production. By harnessing the power of nature and science, we help farmers and communities improve soil fertility, increase crop productivity, and contribute to long-term environmental sustainability.



OUR MISSION

To provide modern, affordable, and sustainable solutions for agriculture worldwide through Biocraft's innovative products and technologies. We create soils, restore fertility, and support the development of green ecosystems, enhancing the quality, productivity, and resilience of the agricultural sector in the UAE, the MENA region, and global markets.





OUR VISSION

To become a leading international biotechnology company transforming agriculture with innovative, eco-friendly solutions. Biocraft is committed to global greening, the restoration of degraded lands, and the creation of sustainable ecosystems that ensure food security and the well-being of future generations.





OUR GOALS

- Restore degraded soils and improve soil health
 - Enhance crop productivity and sustainability
 - Localize and adapt our special biotech solutions for regional needs
 - Make a significant contribution to the development of agriculture in the UAE and MENA region and global market.
 - Promote biodiversity and resilient ecosystems
 - Empower farmers with modern, affordable technologies
 - Greening cities, parks, and public spaces through innovative soil-creating technologies.
- 

OUR PRODUCTS



TERRABIONIC

PRO



Vermi Tech-Enriched Premium Black Soil

Terrabionic Pro is an advanced soil improver and fertilizer, formulated as a stabilized organic-mineral complex through the bioprocessing of carefully selected organic materials by Earthworms and beneficial microorganisms. It enriches soil with essential nutrients, humic substances, and a diverse microbial community, enhancing fertility, improving soil structure, optimizing moisture retention, and supporting vigorous, healthy plant development. Suitable for a wide range of soils and crops, Terrabionic Pro maximizes productivity while offering easy and efficient application.

KEY PROPERTIES

TERRABIONIC
PRO

- Provides essential macro- and micro-nutrients, organic matter, and humic acids to restore and maintain optimal soil fertility.
- Actively increases and activates the beneficial microbial population, creating a vibrant ecosystem that supports plant health.
- Accelerates growth, strengthens root systems, and significantly enhances overall crop yield and quality by providing balanced, easily digestible nutrients.
- Creates a stable, highly porous soil structure, improving aeration and water retention for Strong root development.
- Strengthens plant immunity and reduces stress, helping crops better withstand environmental pressures and diseases.
- Free from unpleasant odours, harmful impurities, chemicals, and weed seeds.
- Suitable for a wide range of soil types and crops.

COMPOSITION

TERRABIONIC
PRO

Organic Matter	40 % - 65 %
Ph	7.5
Ec	2 - 3 ds/m
Moisture %	40 % - 45 %
Humic Acid %	25%
CN Ratio	25 : 1
Total N %	2.42%
Available P	1.51%
Available K	2.71%
Microbial Composition	Rhizobium species , Phosphate Solubilizing Bacteria



APPLICATION RATES

TERRABIONIC
PRO

Crop / Use	Application Rate
Soil Application	1.5–2.0 kg/m ² , incorporate into topsoil
Potting Media	Mix 15–20% by volume with growing media
Vegetables	1–2 kg/m ² before planting Or 100 g/plant every 15 days
Fruit Trees	Young: 2–3 kg/tree Mature: 5–7 kg/tree (every 3 months)
Palm Trees	20–25 kg/tree around root zone (every 3 months)
Field Crops	1.0–1.5 tons/ha before planting 0.5–1.0 tons/ha topdressing
Ornamental Trees	2–4 kg/tree every 2–3 months
Lawns / Turf	Establishment: 2 kg/m ² Maintenance: 0.5–1.0 kg/m ² every 1–2 months

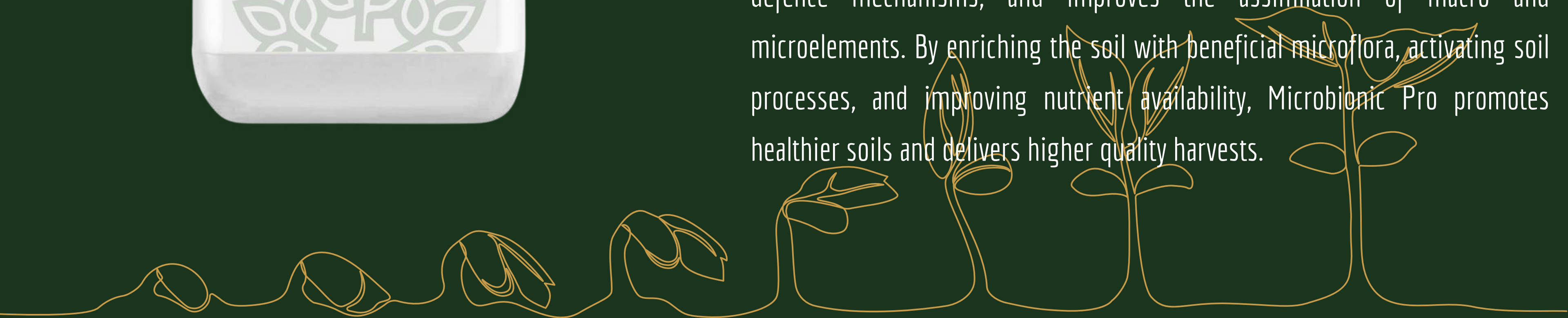


MICROBIONIC PRO



Liquid Bio stimulant with Complex Action

Microbionic Pro is a unique natural formulation enriched with beneficial soil microorganisms, humic acids, amino acids, vitamins, and biologically active compounds. It stimulates plant growth and development, enhances natural defence mechanisms, and improves the assimilation of macro and microelements. By enriching the soil with beneficial microflora, activating soil processes, and improving nutrient availability, Microbionic Pro promotes healthier soils and delivers higher quality harvests.

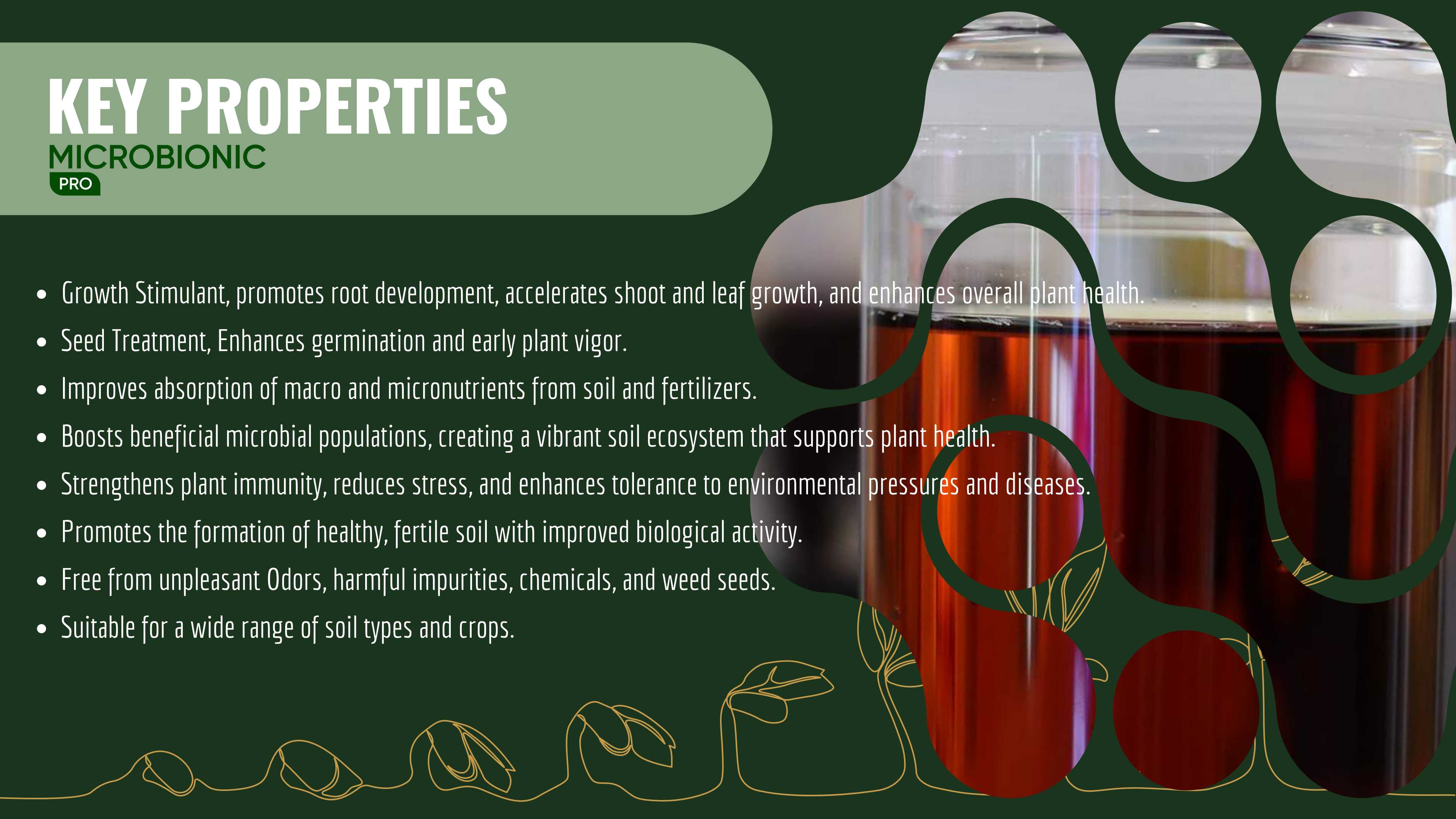


KEY PROPERTIES

MICROBIONIC

PRO

- Growth Stimulant, promotes root development, accelerates shoot and leaf growth, and enhances overall plant health.
- Seed Treatment, Enhances germination and early plant vigor.
- Improves absorption of macro and micronutrients from soil and fertilizers.
- Boosts beneficial microbial populations, creating a vibrant soil ecosystem that supports plant health.
- Strengthens plant immunity, reduces stress, and enhances tolerance to environmental pressures and diseases.
- Promotes the formation of healthy, fertile soil with improved biological activity.
- Free from unpleasant Odors, harmful impurities, chemicals, and weed seeds.
- Suitable for a wide range of soil types and crops.



COMPOSITION

MICROBIONIC
PRO

Ph	6.5 - 8
Ec	2-3 ds/m
Total N	120 mg/l
Available P	150 mg/l
Available K	1000 mg/ l
Microbial Composition	Ammonifiers (Bacillus spp., etc.)
	Nitrogen fixers (Rhizobium leguminosarum, Agrobacterium spp., Azotobacter spp., etc.)
	phosphate mobilizers (Bacillus amyloliquefaciens, Bacillus subtilis, etc.)



APPLICATION RATES

MICROBIONIC

PRO

Crop / Application	Dosage / Concentration	Method / Frequency
Seed Treatment	100 ml / 1 L	Seed soaking before sowing
Vegetables / Leafy Greens (Open Field)	10 ml / 1 L	Foliar feeding 2-3 times during the growing season
Vegetables / Leafy Greens (Hydroponics)	5 ml / 1 L	Drip irrigation / Root feeding at intervals of 7-10 days
Fruit and Ornamental Trees	5 ml / 1 L	Drip irrigation / Root feeding at intervals of 7-10 days
Date Palm	5 L / 1000 L	Drip irrigation / Root feeding at intervals of 10-15 days
Field Crops	10 ml / 1 L	Drip Irrigation/Foliar feeding 2-3 times during the growing season
Lawns / Turf	5 ml / 1 L	Drip irrigation / Root feeding at intervals of 10-15 days



OUR TECHNOLOGY



VERMI TECH.

Biocraft's Vermitech is a modern, non-traditional approach to soil enrichment and biofertilizer production. By combining advanced microbes, optimized organic substrates, and controlled conditions, it accelerates nutrient availability, boosts plant growth, and restores degraded lands sustainably perfectly suited for UAE and MENA agriculture.



DESERT GREEN TECH.

A modern approach to greening arid and degraded lands by forming large areas of fertile surface through the layering of organic waste, biofertilizers, and Biocraft products. This technique restores soil structure, enhances microbial activity, and creates productive, sustainable ecosystems in challenging environments.





VALUE ADDITION TECH.

At Biocraft, our Value Addition Technology is designed to go beyond traditional organic inputs by fortifying them with carefully balanced macro elements (N, P, K) and micro elements . This unique combination transforms raw organic matter and biofertilizers into high-value, nutrient-rich solutions that directly address plant requirements and soil deficiencies. By merging organic and mineral nutrition, this technology ensures improved soil fertility, optimized crop performance, and long-term sustainability, making it especially suitable for the challenging soils

OUR SERVICES



Soil Restoration & Regeneration



Agro-Ecosystem Development



Desert Greening Projects



Partnerships & Collaborations



Crop Advisory & Consultancy



Provide sustainable farming Inputs



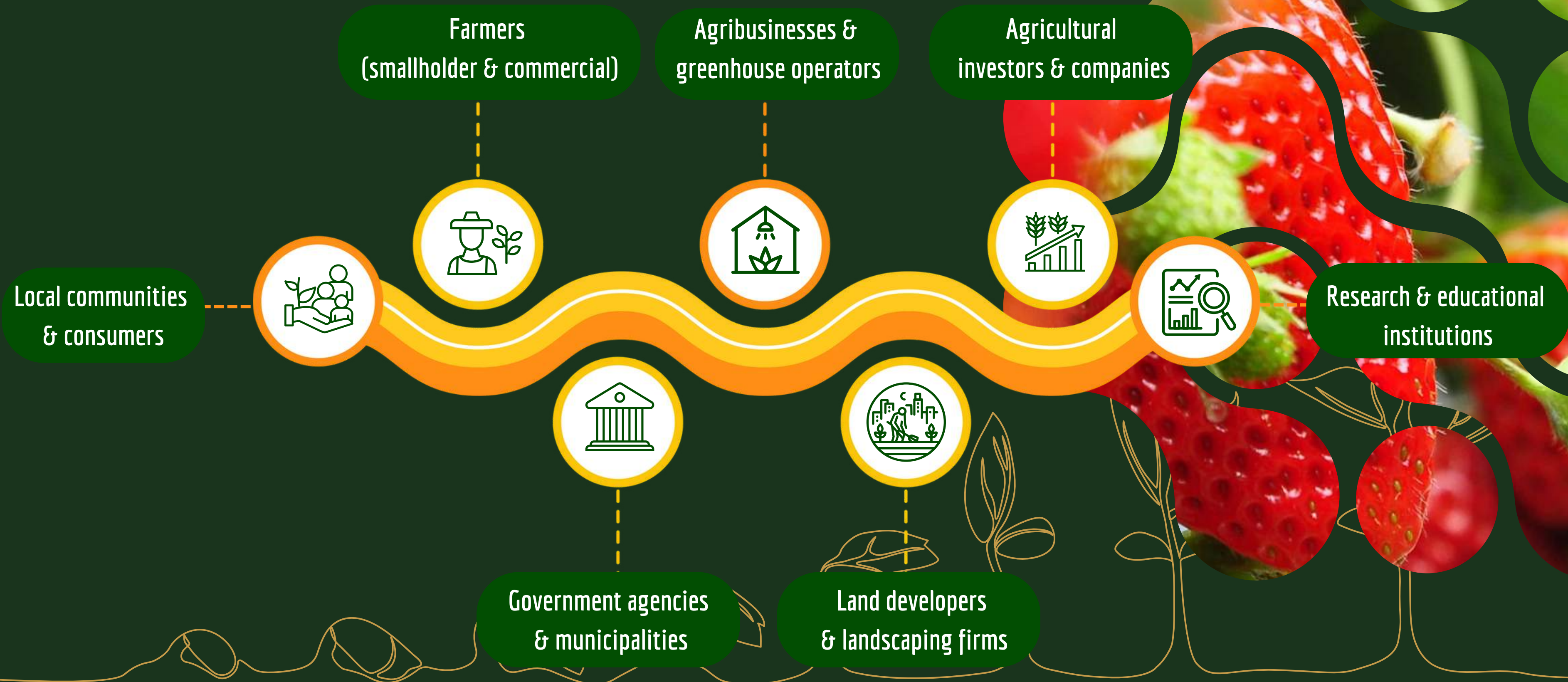
Research & Development



Training & Workshops



OUR BENEFICIARIES



TRIALS & EXPERIMENTS



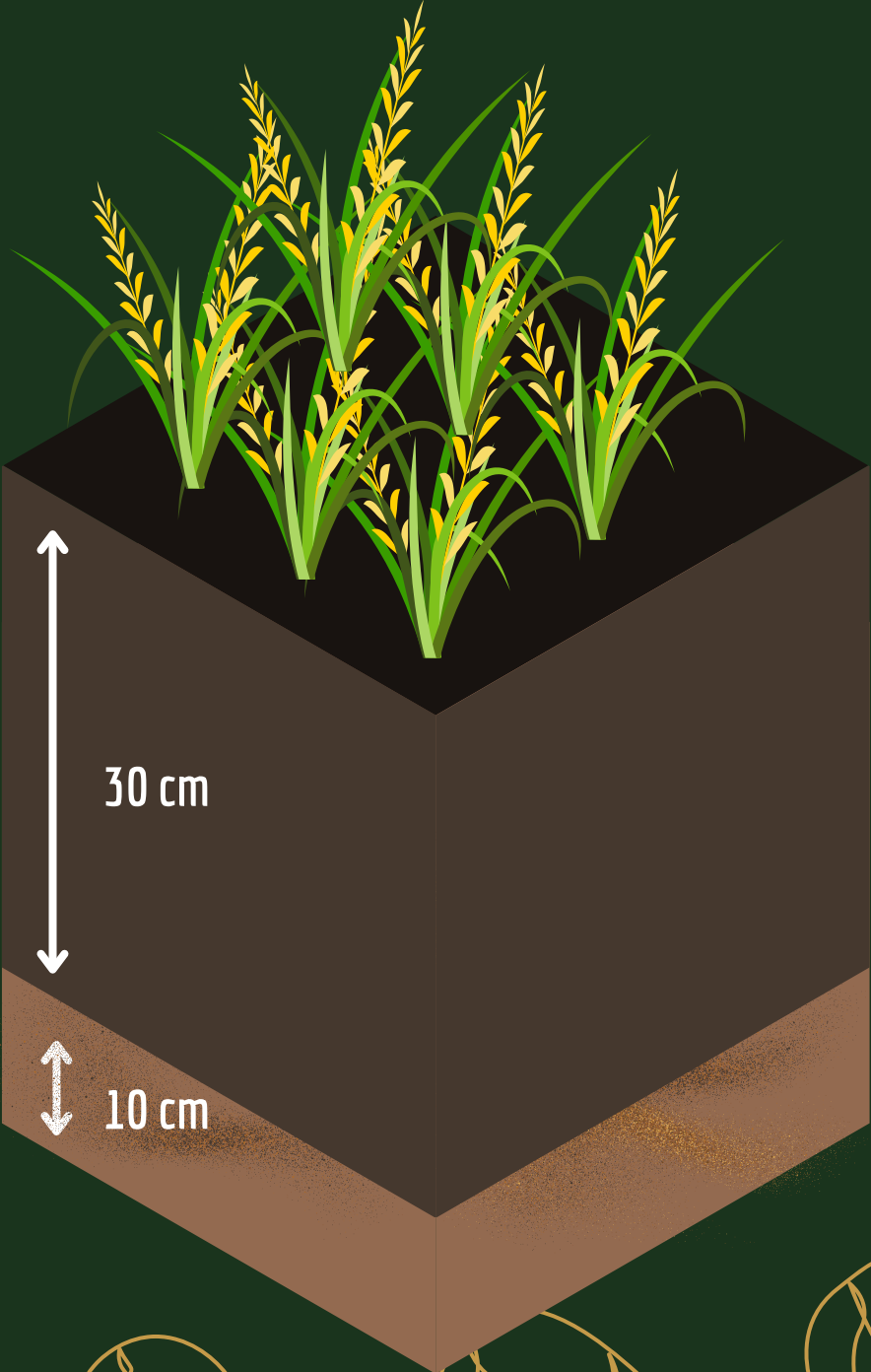
DESERT SOIL LAYER FORMATION

The UAE's desert environment presents major challenges for agriculture, with sandy soils lacking organic matter, moisture-holding capacity, and essential nutrients. Traditional cultivation practices in such soils often fail without significant inputs. To address this, a soil layering technique incorporating organic materials was tried to improve soil fertility, water retention, and overall crop performance. This method uses readily available organic waste and compost materials to create a productive growing medium over poor sandy soil.

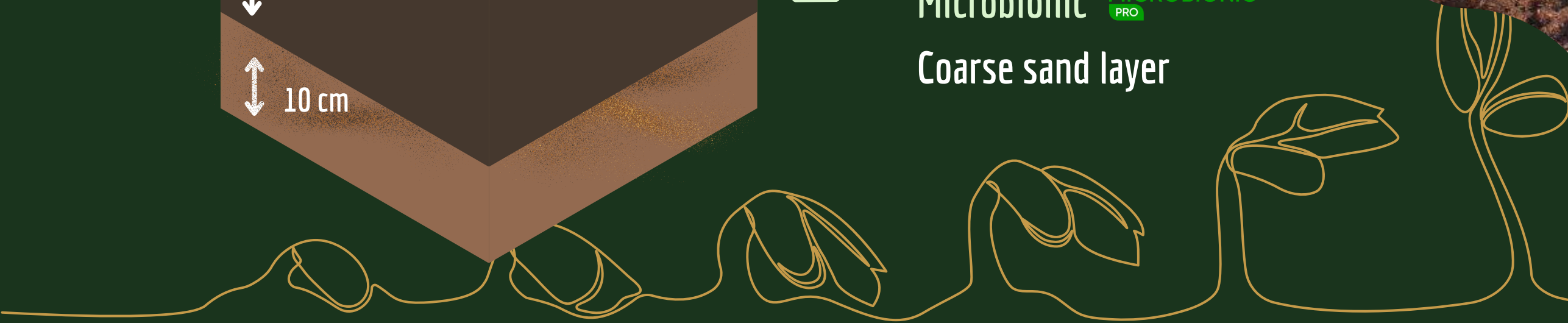


DESERT SOIL LAYER FORMATION

Example visualization of the Layering :



- Compost
- Vegetable waste
- Straw
- Terrabionic TERRABIONIC PRO
- Manures
- Microbionic MICROBIONIC PRO
- Coarse sand layer



DESERT SOIL LAYER FORMATION



Abu Dhabi - Al Nahda

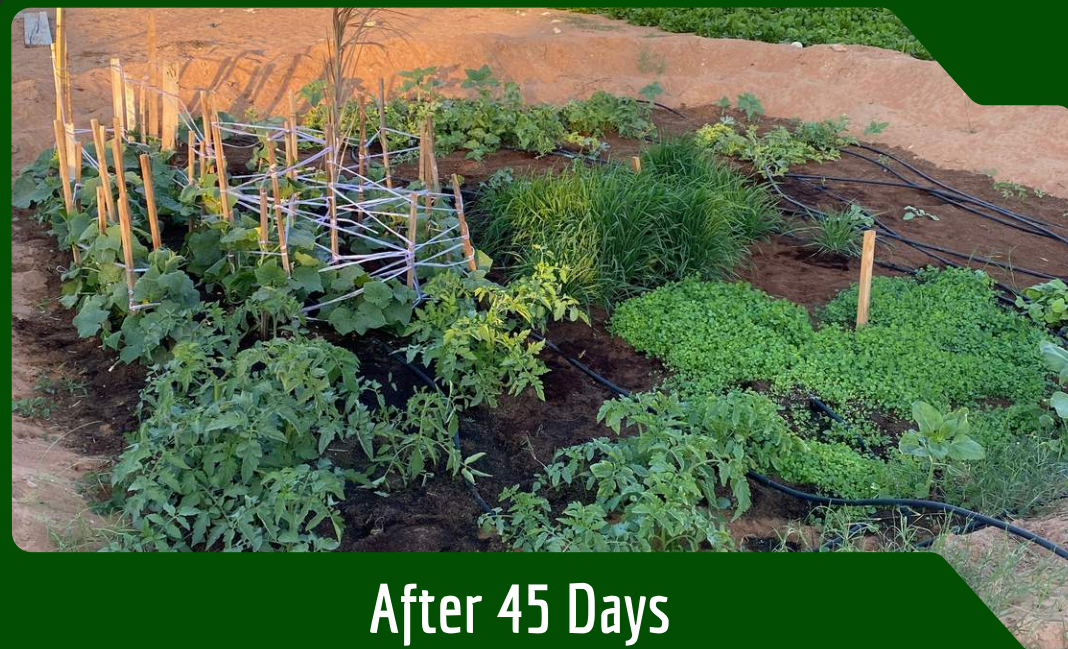
The soil layer was formed in just 30 Days



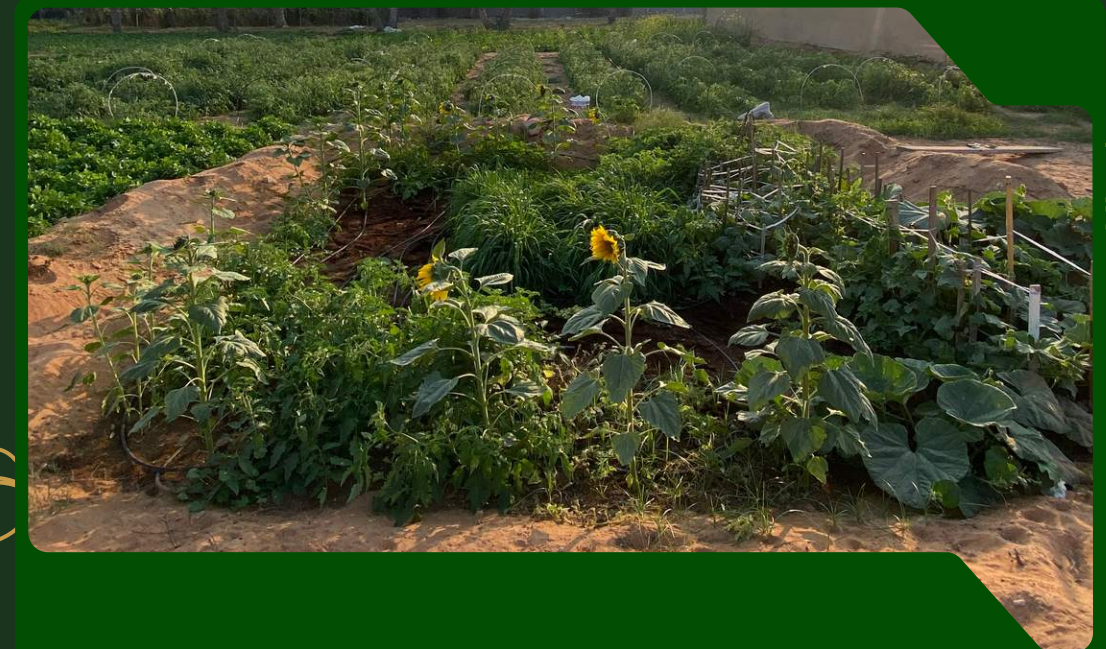
Before



After 30 Days



After 45 Days



DESERT SOIL LAYER FORMATION

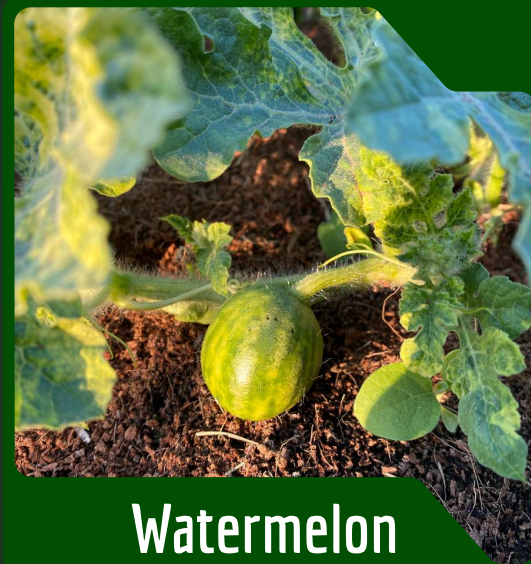
Planted Crops:



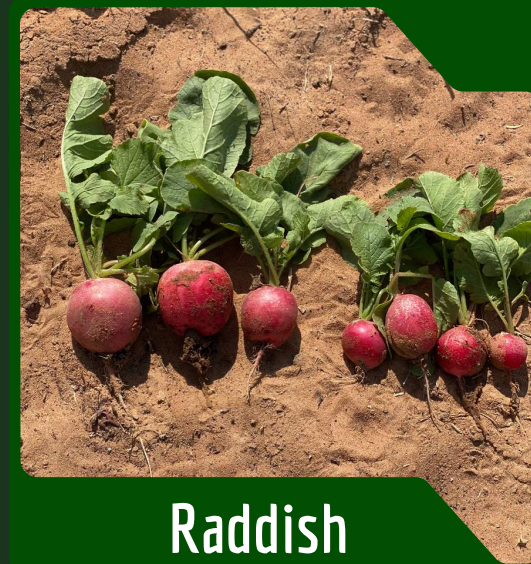
Wheat



Tomato



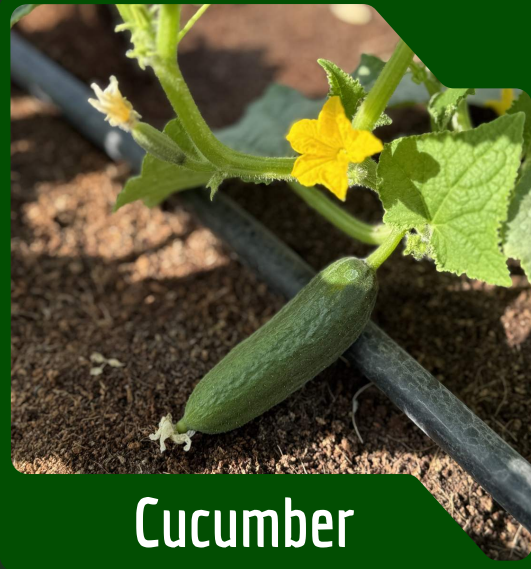
Watermelon



Raddish



Cotton



Cucumber



Faba Bean



Sunflower

- Strong plant establishment across most crops
- Well-developed root systems with lateral spread and taproot depth
- Crops exhibited 10% more green leaves
- Early vigor noted in sunflower, wheat, and leafy greens
- Moisture retention was effective, with reduced irrigation needs
- Estimated 10% increase in biomass/yield potential

DESERT SOIL LAYER FORMATION

The soil layering method significantly enhanced the growth environment in sandy soils. The combination of coarse sand for drainage and an organic top layer led to noticeable improvements in root formation, water retention, and early vegetative growth. The addition of Microbionic liquid biofertilizer enhanced microbial activity and nutrient availability. The plants demonstrated better resilience and faster development than typically seen in untreated sandy plots. This method supported diverse crop types, indicating its suitability for integrated desert farming systems.



BIOCRAFT - ICARDA FABA BEAN TRIAL



Biocraft , developed for arid climates, provides a transformative pathway by converting organic waste into fertile, biologically active soils. When combined with microbial innovations such as Microbionic, this approach enables successful cultivation of crops like faba beans ,a high-protein, nitrogen-fixing legume with strong cultural and nutritional importance in the Middle East.

The project was realised in collaboration with **ICARDA** (International Center for Agricultural Research in the Dry Areas) and the **Biocraft** team, combining global legume research expertise with local agri-innovation platforms.

BIOCRAFT - ICARDA FABA BEAN TRIAL



Chronological Development of Faba Bean Plant:



Germination



Early Growth



Flowering stage



Pod Development



Mature Pods (Harvest)



BIOCRAFT - ICARDA FABA BEAN TRIAL



Key Results :

- Strong Performance: Robust germination, growth, and pod development achieved
- Yield Potential: Estimated 3.6 tonnes/ha, outperforming traditional rainfed yields in Ethiopia & Sudan
- Soil Benefits with Biocraft Tech :
 - Improved root development & soil microbial balance
 - Superior water retention, reduced irrigation needs
 - Cultivation possible on non-arable desert lands

OUR EXPERIENCE & EXPERTISE

- 7+ years of proven success in Russia with large-scale soil restoration and biofertilizer production.
- 30+ scientific research studies conducted on soil health, biofertilizers, and sustainable agriculture.
- Professional, multidisciplinary team including engineers, agronomists, microbiologists, and soil specialists.
- Strong track record of innovating modern biotechnology solutions for arid and challenging environments.
- Now expanding our expertise to the UAE and MENA region & global to drive sustainable agriculture and food security.



OUR GALLERY

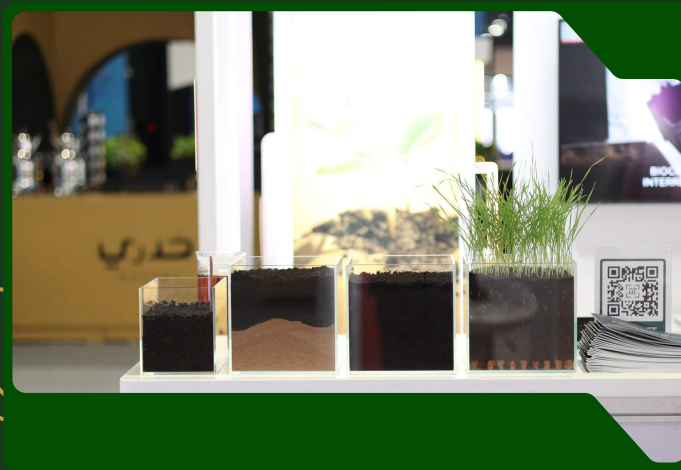
AgraME

Agra ME -2022



اصنع في الإمارات
MAKE IT
IN THE EMIRATES

Make it in the Emirates -2025



Biocraft

DESERT MIGHT BE GREEN

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