

INDOOR GARDENING ON RENEWEABLE FOREST SOIL

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 BUILD
GREEN

WHY INDOOR AGRICULTURE?

Good for the planet. Good for people. Good for producers.



Planet

- Less water useage
- Less land required
- No pesticides
- No run-off
- Less Food Miles



People

- Fresher, more nutritious produce
- Better than organic (no GMO, herbicides or pesticides)
- Year round supply
- Greater food safety and security
- Local produce, local jobs



Producers

- Reliable and predictable crops
- Higher yield
- Higher margins
- Less waste
- Flexibility of crops

Source: InvertiGro

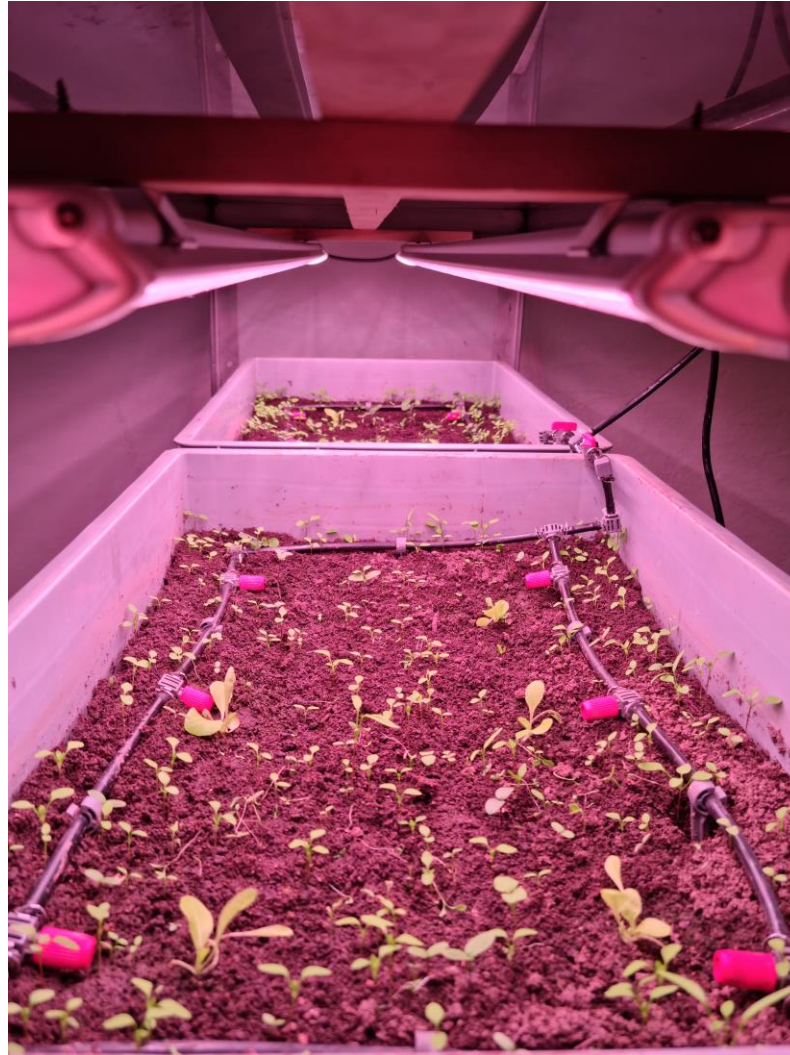


WHY INDOOR AGRICULTURE?

Indoor farming, global vertical farming market has been grown since 2010 every years more than 8% and expected to grow 31.6% from 2017 to 2025. It promise a future of agriculture that able to operate anywhere, virtually invincible against pests, pathogens, and poor weather, and producing local, fresh, high-quality, lower- carbon food year-round. We set an indoor lettuce growing system where the growing medium is organic to verify if we can produce healthy food on a more natural way.



WITH FOREST SOIL





METHOD



In our system we used as growing medium a soil that came from the soil surface (1-3 cm) of a natural deciduous forest ecosystem and we grown lettuce (*Lactuca sativa L. var. Capitata L.*) on it in two similar growing boxes.



METHOD

According to our experience it is possible to make indoor lettuce growing on unsterilized soil without plant protection and we believe it is one of the most important factors for healthy, economic and also ecologic indoor food production.

References

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CONCLUSION



THANK YOU FOR YOUR
ATTENTION!

Potentials of indoor lettuce production in natural forest soil at limited watering
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