



# "HECTARE OF THE FUTURE Maximum profit, minimal footprint"

Sustainable management of 1 hectare of farmland in the spirit of  
local regenerative agriculture.



# SHORT CONTEXT

A project for small farms in Central and Eastern Europe, showing how to achieve maximum income from just 1 hectare of land while ensuring:

- ✓biodiversity,
- ✓water retention,
- ✓decarbonization,
- ✓climate resilience,
- ✓local self-sufficiency

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# PROJECT ASSUMPTIONS



Area: 1 hectare = 100 x 100 meters  
(for expl.: 9 strips, each productive 10  
meters wide; 3 diversity strip 3 meters )

Layout: strip-based  
(agroforestry + permaculture)

Goal: multifunctional plant and bio  
diverse production, climate-friendly and  
supportive of the local economy

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# BENEFITS:

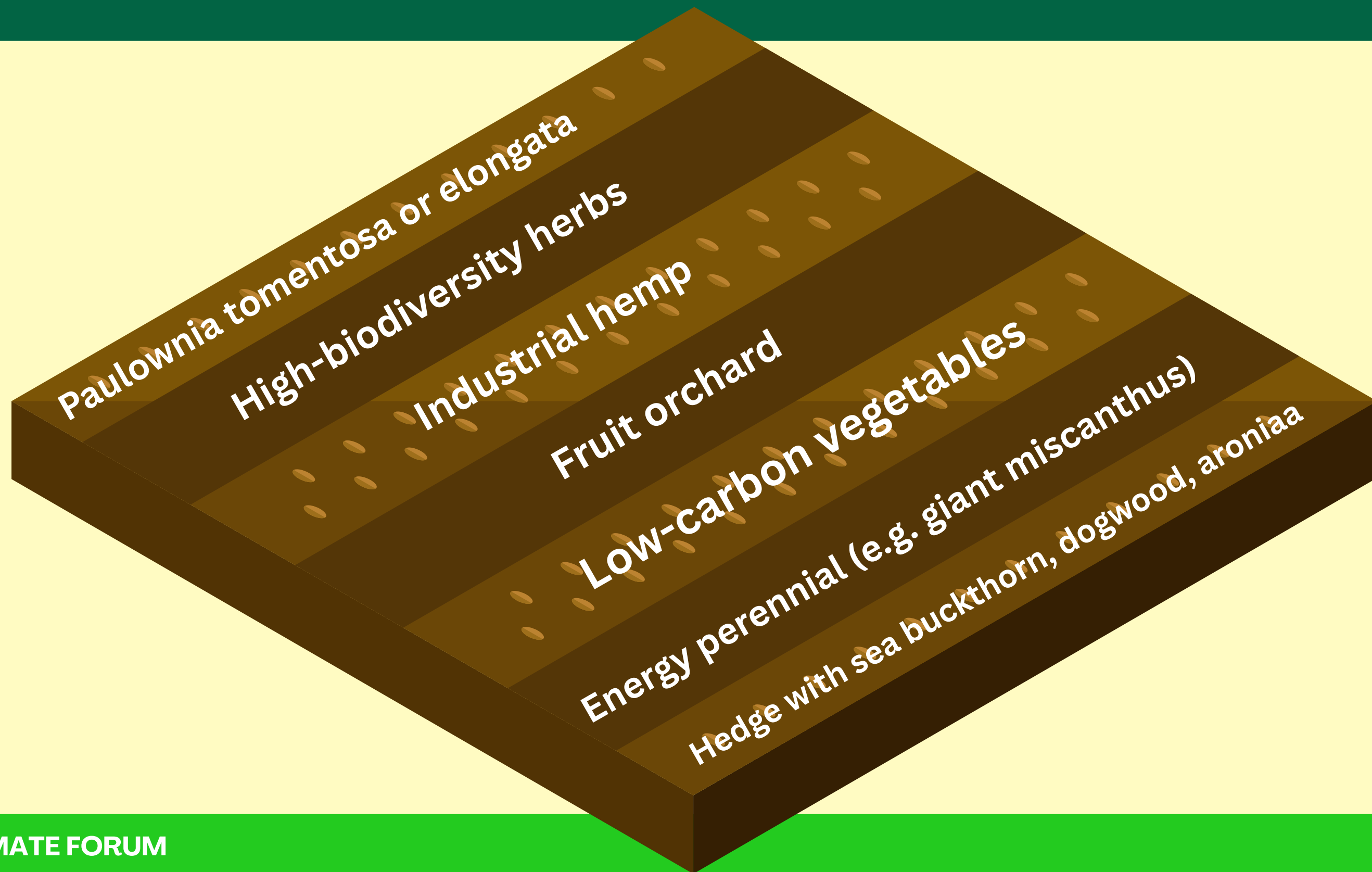
- ✓ Income from multiple sources: food, herbs, biomass, beekeeping, timber
- ✓ Lower operational costs thanks to self-sufficiency (water, compost, energy)
- ✓ Increased resilience to drought and inflation
- ✓ Potential for municipal cooperatives and shared processing
- ✓ Scalable and easy to implement within the CAP, EAFRD, and Horizon Europe frameworks



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# SAMPLE OF STRIP PLANTING VARIANTS AND THEIR FUNCTIONS



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# STRIP PLANTING FUNCTIONS

✓ **Paulownia** - Energy wood (harvest in 3–5 years), shade, microclimate, water retention

✓ High-biodiversity herbs (e.g. milk thistle, black cumin, chamomile, tansy)

Essential oil production, pollinator food source, income from niche herbal markets

✓ **Industrial hemp (*Cannabis sativa*)** - Biomass, fiber, soil remediation, CO<sub>2</sub> sequestration

✓ **Fruit orchard** (dwarf plum, pear, apple trees) - Perennial yield, bird habitat, biodiversity +

Beehives + nectar plants (e.g. phacelia, melilot)

Beekeeping products, pollination, education

✓ **Low-carbon vegetables (carrots, parsley, beets, garlic)** - Food self-sufficiency, local market sales, crop rotation

✓ Hedge with sea buckthorn, dogwood, aronia

Functional fruits, soil protection, windbreak

✓ **Forest mushrooms (e.g. oyster, shiitake)** in microclimate under trees

Innovative food source, organic matter decomposition, educational value

✓ **Energy perennial** (e.g. giant miscanthus)

Biomass, soil cover, low-carbon energy alternative

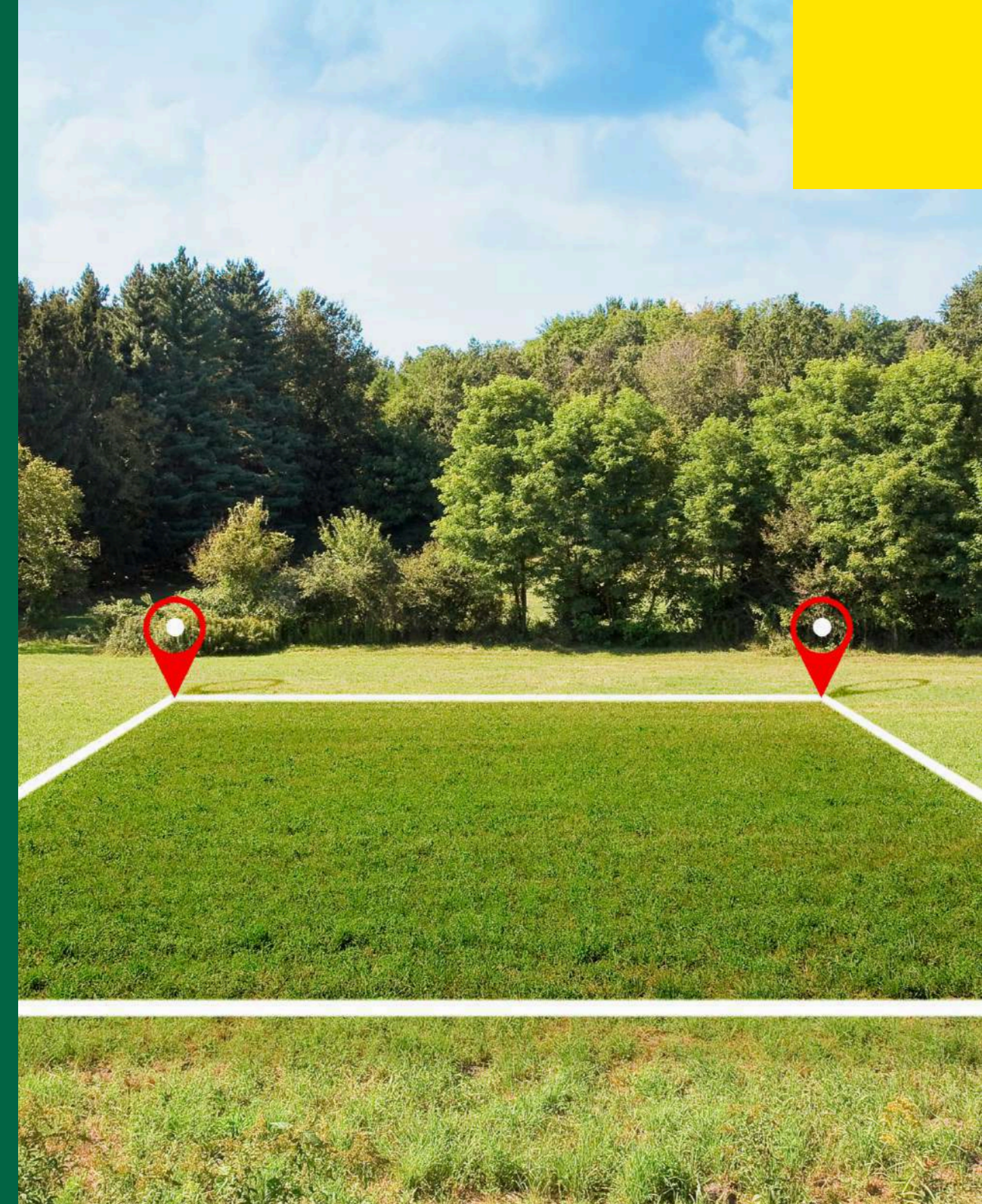
✓ **Flower and compost strip** Pollinator support, soil enrichment, organic matter recycling



# SCALABILITY AND IMPLEMENTATION

The 10x10x10 model  
(ten 10-meter-wide strips per 1 hectare) offers:

- ✓ Simple planning and clear structure
- ✓ Easy adaptation to local soil and climate conditions
- ✓ Potential for demonstration and educational modules
- ✓ Compatibility with EU programs (EAFRD, LIFE, Horizon, Interreg)



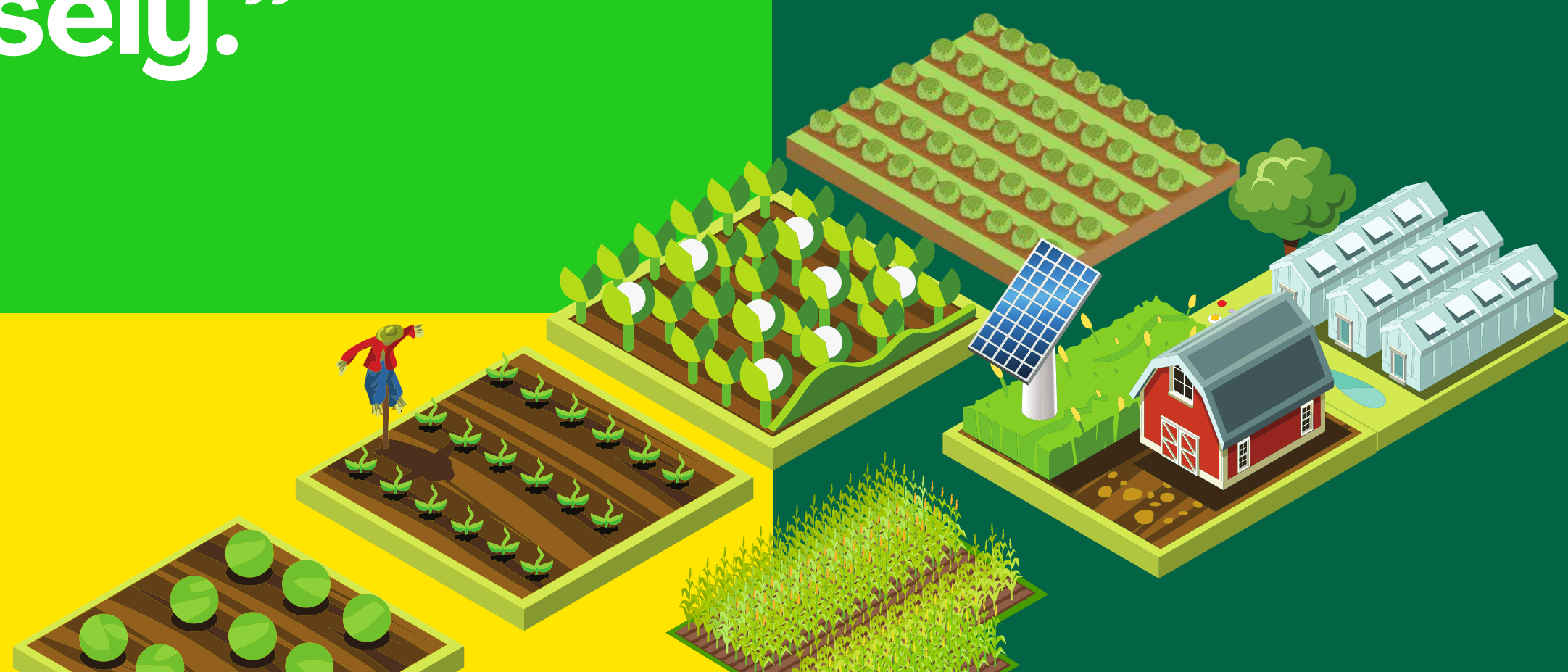
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“1 hectare can feed,  
generate income, and  
protect the climate –  
if we plan it wisely.”

We need SUPPORT for small  
farmers implementing model  
REGENERATIVE MICROSYSTEMS!

This is the future of CRISIS-  
RESILIENT European agriculture.



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✓ Agro-photovoltaic installations  
(e.g. above herb rows)

✓ Rainwater harvesting and micro-irrigation  
systems

✓ Municipal composting stations

✓ Mobile processing and local market units

✓ Educational programs for schools  
and local communities

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# ADDITIONAL ELEMENTS

## — WHAT ELSE CAN BE IMPLEMENTED



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Great change doesn't always require great investment.

What we need is smart planning, respect for the land,  
and real support for small-scale farmers.

The Hectare of the Future is ready to be implemented –  
locally, systemically, and with significant impact on  
climate, environment, and Europe's food sovereignty.





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CONTACT US FOR MORE DETAILS & CALCULATIONS

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