POLISH CLIMATE FORUM
BY MAGDA RADKE

"HECTARE OF THE FUTURE
Maximum profit, minimal footprint"

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

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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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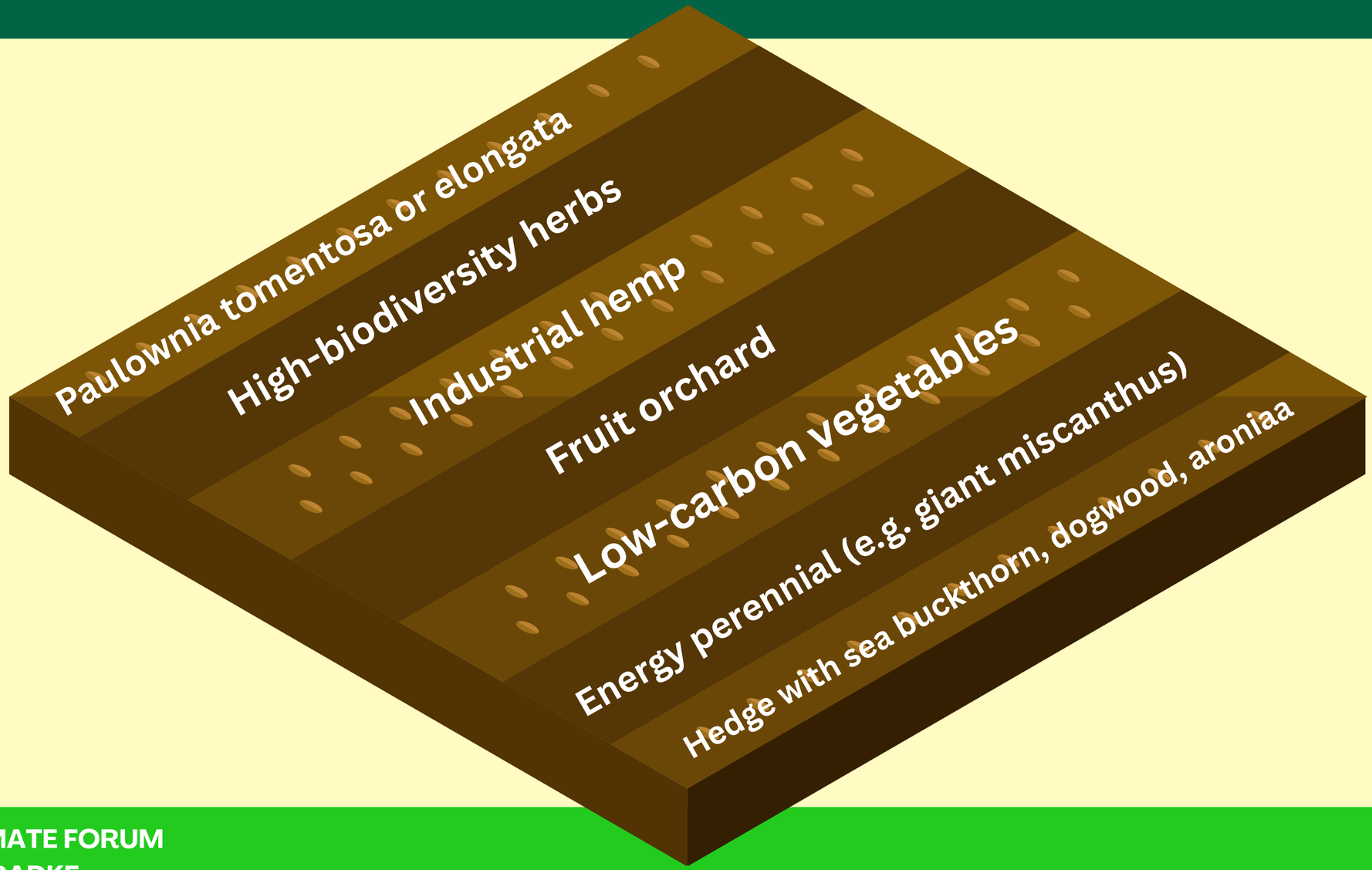
SAMPLE OF STRIP PLANTING VARIANTS AND THEIR FUNCTIONS



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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_2 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**

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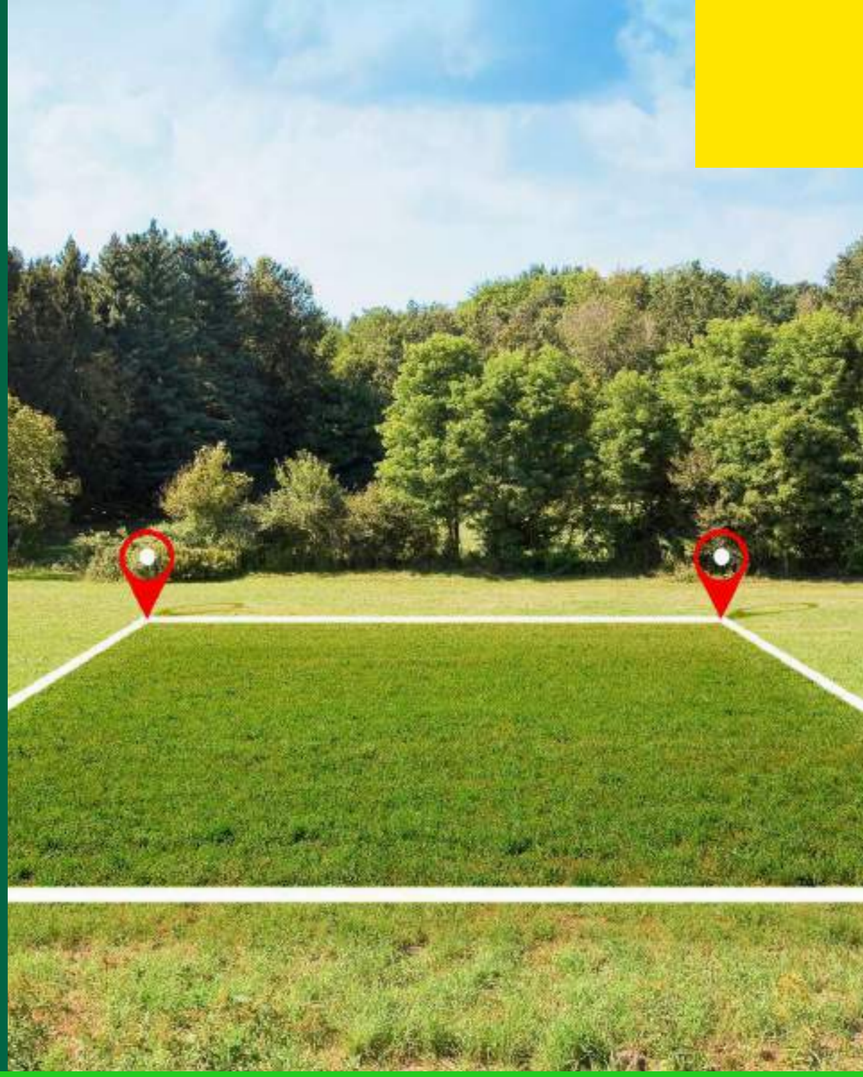
SCALABILITY AND IMPLEMENTATION



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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„HECTARE OF THE FUTURE„

“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.

ADDITIONAL ELEMENTS

– WHAT ELSE CAN BE IMPLEMENTED

- ✅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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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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