

Highlights of the Tomaszyn Smart Village Strategy

Poland



About Tomaszyn

Tomaszyn is a small village located close to the town of Olsztynek and a few kilometers away from a large city in the north-east of Poland – Olsztyn. The region of Mazury is famous for its lakes and woods, quite popular among people from the capital who often go there for recreation and holidays. The area is popular for its natural environment, but also for its derelict rural lands.

The village itself was dying out until recently, but the set-up of the cooperative breathed new life into it. All farmers from the countryside are partners in the 'Ostoja Natury' – 'Refuge of Nature' cooperative.

The cooperative gives farmers who produce high-quality food throughout the region a better access to consumers, both locally in Olsztynek and to a much wider market through the distribution channels we build.

Key challenges & assets

The main challenges of the Ostoja Natury association in the struggle for establishing new ways and standards of healthy food production are:

- Establishing the five farms of the cooperative;
- Construction of infrastructure;
- Searching for and implementing of innovative solutions and technologies;
- Organisation of a Bio Hub short delivery chain for ecological products;
- Enhancing the workstation;
- Automatisatation and mechanisation of farm/field work;
- Development and implementation of good agricultural practices.



Main objectives of smart village strategy

Objective 1: Increase the production of high-quality food and of the number of entities involved in this production in the region of Warmia i Mazury.

Objective 2: 'BioHub': innovative distribution hub, storage, and platform in line with the 'from farm to fork' strategy.

What is smart?

Smart Strategy Development

Our smart strategy goal is to complete the missing and strengthen the weak links in the system:

1. We want to better organise farmers producing organic food in a way that strengthens their position in the food production chain and gives them the opportunity for a better income.
2. We develop 'BioHub', a place for storing, packaging and preparing ecological products for sale.
3. We strengthen the multi-element sales and distribution sub-system.

Links to other strategies

We have already started the implementation of several strategies on 'Healthy food farm', 'Innovation farm', 'Green energy farm', 'Health Farm', 'Culture farm' (communication and education system).

These strategies are the basis for building a coherent overall strategy of 'Nature Refuge village 3.0'. Some of them are already significantly advanced. Our understanding of 'smart' brings us to achieve greater coherence and harmony between ongoing and planned activities.

What smart actions are implemented and planned?

- ✓ Probiotechnology – a technology based on live probiotics and other useful microorganisms. At Ostoja Natura, we use this in the cultivation of cereals, vegetables and fruit.
- ✓ Farmer Foil Tunnels – crops under cover energy effective solution. A tunnel (greenhouse) measuring 30 x 9 meters has been installed on our farm.
- ✓ Walczak Pipes – passive heat exchangers and sonic furnace. This innovative idea for central heating solutions is installed and used in our greenhouse.
- ✓ Bio treatment plant allowing 99% of water recovery.
- ✓ Hemp production with certified seeds for sowing CBD, CBG, hemp teas, hemp oils, hemp seeds for food preparations, dried for vaporisation.
- ✓ Vegemat – a fully automated sales system based on a network of automated stores.

A smart action that we are planning...

- ✓ Wasteless, self-sufficient habitat for rural households built with the most efficient and environmentally friendly technology.
- ✓ Construction of a small agricultural biogas plant with a co-generation engine enabling electricity production, heat and cold, thereby creating a 360 cycle where waste is a fuel.
- ✓ 'BioHub' – distribution hub, storage, and platform in line with the 'from farm to fork' strategy.



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