



AgriTech Solutions: Innovating VET for Sustainable Agriculture
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2024-1-RS01-KA210-VET-000244168

FIELD VISITS

Sustainable agricultural practices

Experts/organizations: ZZ "STUBA", TD DZP KLECHOVCE DOOEL, ADUT GVN, AG FUTURA Technologies, „KAV KOMERC AND AGRO KAV KOMERC", COMPANY „STOJCHEVI and WINERY ARBESKA", INDIVIDUAL FARMER MARJAN TANCHEV, LISA – KOM KAVADARCI, INDIVIDUAL FARMER STEFAN STOJCHEV, AGRIJA DOOEL, Individual farmers groups and individuals, IZ Branko Atanasov, Livestock farm

Engaged teachers: Stefanovski Saso, Milosheva Zaklina, Jovanova Kristina, Doncheva Milica, Nikolov Efremcho, Slavkovic Sonja

Location: Kumanovo, Sveti Nikole, Skopje, Strumica, Kavadarci, Valandovo, Veles

Short description

TD DZP Klechovce DOOEL is a company in which appropriate sustainable agricultural practices are applied in all phases of agricultural production, which provide efficient results in the short and long term, both in terms of the amount of yields and in terms of their quality, which is recognizable on the market.

Many sustainable agricultural practices are applied during production to ensure healthy and quality food and at the same time to protect and improve natural resources (soil, water, air).

A crop rotation plan is regularly made on the agricultural holding's land, from season to season, which significantly improves soil fertility and reduces the occurrence of pests and diseases.

Regular composting and organic fertilization significantly improves soil quality, while natural fertilization improves soil structure and nutrient content.

Care is taken to ensure the controlled use of chemicals for protection against diseases, pests and weeds. Natural methods of control are preferred over chemical methods. Of course, to the extent that this is possible in the field.

In terms of using renewable energy sources, the company is investing in the installation of solar panels for heating.

Modern irrigation systems are being effectively applied and on some plots

They install moisture sensors to save water.

A diverse range of crops (agrobiodiversity) is planned, and the cultivation of different varieties and types of plants is also planned to increase resilience.



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Many farmers from the villages of Murtino, Kuklish, and Dobrejci use a drip irrigation system. Most often, farmers in the settlements of Visoka Maala and Nova Maala rotate crops from field crops to vegetable crops, tobacco or wheat or barley, then cucumbers or peppers. A smaller percentage of them use household manure, where they themselves are producers of the same.

Company „ Stojchevi from the village of Sopot, Kavadarci, whose owner is Mr. Vlatko Stojchev, who together with his son Kiril and his wife Gordana run the family business in the Tikvesh wine region. The winery is named ARABESKA after the modern men's clothing boutique owned by the Stojchevi family. According to the owner of the winery, it was founded in 2021 and

The entire wine production or all wine is made from raw materials or own vineyards of about 1.6 ha. This enables sustainable agricultural development and

practice. The

main wine varieties are: Vranec, which is one of the most famous autochthonous grape varieties that is sprayed with preparations on the permitted or Green List, organic preparations and organic fertilization is carried out and from it the much-loved and powerful wine Vranec (red wine), further Rkciteli (white wine) and Rose from the Vranec variety is produced.

The winery has also won a Grand Gold Award at wine festivals for its Rose wine (from the Vranec variety).

This family winery plans to expand its range of highly sought-after wines, namely: Rhine Riesling and Cabernet Sauvignon.

The winery also has its own apartments located in the village of Sopot, just 6 km from the Municipality of Kavadarci, and accepts reservations for 12 guests. So, in addition to wine tourism, the company has also developed rural tourism as a promising sustainable agricultural practice, which should be increasingly practiced in our country. The goal is to attract as many tourists as possible to visit this beautiful small family winery, located in the heart of the Tikvesh region.

Conclusion

Sustainable agricultural practices applied in the production process are certainly the key to long-term successful and environmentally friendly agricultural production through which this company will be recognizable in the market.



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Sustainable agriculture is gaining momentum in the scientific community, becoming more and more interesting for upgrading knowledge. Using a drip irrigation system saves water use, improves yield and quality, and changing crops saves the soil itself with nutrients. Raising domestic livestock leads to the production of domestic manure, which is used in the production of crops. However, despite the great advantages of sustainable agricultural practices, we are also faced with shortcomings, i.e. lack of education or insufficient understanding that

Changing crops and how is quite important for increasing nutrients in soil, even for environmental protection, education in the application and preparation of organic fertilizers for soil improvement. As a result of the large number of materials and literature that can be found on the internet, it allows curricula to be upgraded with both theory and practical examples, which will enable the improvement of generations and their upgrading.

As a future perspective plan of the Winery "Arabeska" is the organization of wine tastings, where they will be able to enjoy the harmonious taste, the possibility of more guest apartments, which will develop both wine and rural tourism. We also plan, as the company and the small family winery said, to sign a memorandum of cooperation with the Vocational School "Gjorce Petrov" from Kavadarci in the near future, with the beginning of the new school year, where students from this school will be able to do practical training or learning through work with an employer, which will allow students to learn the secrets of this funny business and the opportunities for opening their own small business, acquiring a lot of knowledge and practical professional skills.



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