

## Training on innovative methods to contrast the climate change impacts in the agriculture sector

**Date: 21 – 23 January 2025**  
**Venue: Roskovec Municipality**

Day 1 - 21/01/2025	
08:30 – 09:30	Registration and welcome greetings
09:30-10:00	Site visit 1 Greenhouse/Farm with Pressurized Irrigation
10:00-11:00	<b>Session 1: Current Practices of Pressurized Irrigation Technology</b>
Contents and inputs	<p><b>Erjon Kalaja, Water Resource Management and Irrigation Expert</b> <b>Farm Owner (TBD)</b></p> <ul style="list-style-type: none"> <li>• Discussion of current practices of pressurized irrigation technology and application</li> <li>• Discussion of current challenges and opportunities</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Introduction of participants to regional best practices in agriculture and water management</li> <li>• Understanding Efficient Irrigation Use (drip and mini sprinkler irrigation)</li> <li>• Learning about automation (automation system and monitoring tools)</li> <li>• Exploring Sustainable Practices</li> <li>• Discussion of wider problems related to irrigation (agriculture productivity, know how limitations, etc.)</li> <li>• Networking among participants</li> </ul>
11:00-12:00	<b>Session 2: Climate Related Risk Assessment and Pollution Sources</b>
Contents and inputs	<p><b>Erdona Demiraj, Expert on Environmental Pollution Chemistry and Management</b></p> <ul style="list-style-type: none"> <li>• Discussion on Chemical Use (water quality, use of fertilizers, fertigation, etc.)</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Introduction of participants to the importance of Climate Adaption and its influence in water quality</li> <li>• Exploring Sustainable Practices</li> <li>• Introduction to Climate Related Risk Assessment and Pollution Sources</li> </ul>
12:00-12:30	<b>Questions and Answers</b>
12:30-13:00	<b>End of the Site Visit and Return to Roskovec Municipality</b>
13:00-14:00	<b>Lunch Break</b>
14:00-15:00	<b>Session 3: Irrigation Planning</b>
Contents and inputs	<p><b>Erjon Kalaja, Water Resource Management and Irrigation Expert</b></p> <ul style="list-style-type: none"> <li>• Irrigation Planning</li> </ul>

	<ul style="list-style-type: none"> <li>○ Irrigation Water Sources</li> <li>○ Irrigation Need</li> <li>○ Irrigation Types</li> </ul>
<b>Expected output</b>	<ul style="list-style-type: none"> <li>● Participants Understanding of Irrigation Planning</li> <li>● Identification of Risks and Vulnerabilities on the Current Irrigation Practices</li> <li>● Adaption Strategies</li> <li>● Water Source Mapping (mapping of available water sources)</li> <li>● Irrigation Scheduling (simple practices and tools)</li> <li>● Comparison of Irrigation Methods</li> <li>● Discussion of Best Practices</li> </ul>
<b>15:00-16:00</b>	<b>Session 4: Irrigation of Water Quality</b>
<b>Contents and inputs</b>	<p><b>Erdona Demiraj, Expert on Environmental Pollution Chemistry and Management</b></p> <ul style="list-style-type: none"> <li>● Irrigation Water Quality (water sources and potential water quality issues)</li> <li>● Fertigation and Adaption of Fertilization based on Water Quality</li> </ul>
<b>Expected output</b>	<ul style="list-style-type: none"> <li>● Assessment of Water Quality used for Irrigation</li> <li>● Participants understanding Fertigation and Adaption of Fertilization based on Water Quality</li> </ul>
<b>16:00-16:15</b>	<b>Key takeaways from Sessions</b>
<b>16:15-16:30</b>	<b>Day 1 Examination for each session</b>
<b>16:30-16:45</b>	<b>Evaluation of the training session</b>
<b>16:45-17:00</b>	<b>Delivery of certificates of attendance to participants</b>
<b>17:00 End of the Session</b>	

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Day 2 - 22/01/2025	
08:30 – 09:30	Registration and welcome greetings
09:30-10:00	Site visit 2 Open Field Farm with Pressurized Irrigation and Intense Agriculture Production
10:00-11:00	Session 1: Current Challenges and Opportunities in Irrigation
Contents and inputs	<p>Erjon Kalaja, Water Resource Management and Irrigation Expert Farm Owner (TBD)</p> <ul style="list-style-type: none"> <li>• Discussion of current practices of pressurized irrigation technology and application</li> <li>• Discussion of current challenges and opportunities</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Introduction of participants to regional practices in agriculture and water management</li> <li>• Understanding Efficient Irrigation Use (sprinkler and mini sprinkler irrigation)</li> <li>• Discussion on Irrigation Water Sources and Water Quality</li> <li>• Exploring Sustainable Practices</li> <li>• Discussion of wider problems related to irrigation (agriculture productivity, know how limitations, etc.)</li> <li>• Networking among participants</li> </ul>
11:00-12:00	Session 2: Climate Change and Sustainable Productivity
Contents and inputs	<p>Shpresa Ohri, Sustainability Expert</p> <ul style="list-style-type: none"> <li>• Climate Change and Sustainable Productivity</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Climate Smart Practices</li> <li>• Integrated Management</li> <li>• Cost Effective Solutions</li> <li>• Impact Assessment</li> </ul>
12:00-12:30	Questions and Answers
12:30-13:00	End of the Site Visit 2 and Return to Roskovec Municipality
13:00-14:00	Lunch Break
14:00-15:00	Session 3: Crop Water Requirements and Irrigation Scheduling
Contents and inputs	<p>Erjon Kalaja, Water Resource Management and Irrigation Expert</p> <ul style="list-style-type: none"> <li>• Crop Water Requirements and Irrigation Scheduling</li> </ul>

	<ul style="list-style-type: none"> <li>○ Irrigation Scheduling Principles</li> <li>○ Crops and Crop Water requirements</li> <li>○ Irrigation Efficiencies</li> <li>○ Pre-season Planning</li> <li>○ In season Planning</li> </ul>
<b>Expected output</b>	<ul style="list-style-type: none"> <li>● Participants Deeper Understanding of Irrigation Planning</li> <li>● Irrigation Scheduling techniques and tools</li> <li>● In-season Adaption Strategies</li> <li>● Monitoring of Irrigation Efficiency and Irrigation Cost</li> <li>● Discussion of Best Practices</li> </ul>
<b>15:00-16:00</b>	<b>Session 4: EU Food Safety, Veterinary and Phytosanitary Policy</b>
<b>Contents and inputs</b>	<p><b>Shpresa Ohri, Sustainability Expert</b></p> <ul style="list-style-type: none"> <li>● EU Food Safety, Veterinary and Phytosanitary Policy (Chapter 12 of Negotiations)</li> </ul>
<b>Expected output</b>	<ul style="list-style-type: none"> <li>● Introduction to EU Acquis</li> <li>● Introduction to EU Chapter 12 requirements</li> <li>● Farmers Adaption towards EU integration</li> <li>● Circular Economy and Sustainable Practices</li> </ul>
<b>16:00-16:15</b>	<b>Key takeaways from Sessions</b>
<b>16:15-16:30</b>	<b>Day 2 Examination for each session</b>
<b>16:30-16:45</b>	<b>Evaluation of the training session</b>
<b>16:45-17:00</b>	<b>Delivery of certificates of attendance to participants</b>
<b>17:00 End of the Session</b>	

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Day 3 - 23/01/2025	
08:30 – 09:30	Registration and welcome greetings
09:30-10:00	Site visit 3 Open Field Farm with Traditional Irrigation, Focused on Fodder Production
10:00-11:00	<b>Session 1: Climate Change Impact on Agriculture Productivity</b>
Contents and inputs	<b>Erjon Kalaja, Water Resource Management and Irrigation Expert</b> <b>Farm Owner (TBD)</b> <ul style="list-style-type: none"> <li>• Climate Change Impact on Agriculture Productivity</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Discussion with participants with the observed climate changes over the years</li> <li>• Discussion of Vulnerabilities (traditional and new due to Climate Change)</li> <li>• Hail, Frost, Snow impact on agriculture production</li> <li>• Drought and Wet Years</li> <li>• Weather Forecast</li> </ul>
11:00-12:00	<b>Session 2: Integrated OnFarm Monitoring</b>
Contents and inputs	<b>Gentian Gace, Monitoring and Automatization Expert</b> <ul style="list-style-type: none"> <li>• Monitoring Potential</li> <li>• Sensor types and Installation Scheme</li> </ul>
Expected output	<ul style="list-style-type: none"> <li>• Discussion on Climate Smart Practices</li> <li>• Introduction to Integrated Monitoring</li> <li>• Weather and other data interpretation</li> </ul>
12:00-12:30	<b>Questions and Answers</b>
12:30-13:00	<b>End of the Site Visit 3 and Return to Roskovec Municipality</b>
13:00-14:00	<b>Lunch Break</b>
14:00-15:00	<b>Session 3: Climate Change and Adaptive Water Management</b>
Contents and inputs	<b>Erjon Kalaja, Water Resource Management and Irrigation Expert</b> <ul style="list-style-type: none"> <li>• Climate Change and Adaptive Water Management                             <ul style="list-style-type: none"> <li>○ Decision making implication</li> <li>○ Long term investment</li> <li>○ Know How transfer</li> </ul> </li> </ul>

<b>Expected output</b>	<ul style="list-style-type: none"> <li>• Deep Understanding of Adaptive Water Management</li> <li>• Climate Resilient investment planning</li> <li>• Integrated Management of own resources</li> <li>• Addressing Extreme Event Risk (droughts, floods)</li> </ul>
<b>15:00-16:00</b>	<b>Session 4: Greenhouse Monitoring</b>
<b>Contents and inputs</b>	<p><b>Gentian Gace, Monitoring and Automatization Expert</b></p> <ul style="list-style-type: none"> <li>• Greenhouse Monitoring             <ul style="list-style-type: none"> <li>○ Parameters monitored</li> <li>○ Sensor types and Installation Scheme</li> <li>○ Data Acquisition and Remote Controlling</li> </ul> </li> </ul>
<b>Expected output</b>	<ul style="list-style-type: none"> <li>• Climate Smart Practices</li> <li>• Integrated Monitoring</li> <li>• Data Acquisition and Processing</li> <li>• Improvement in Agriculture Productivity and Cost Recovery</li> </ul>
<b>16:00-16:15</b>	<b>Key takeaways from Sessions</b>
<b>16:15-16:30</b>	<b>Day 3 Examination for each session</b>
<b>16:30-16:45</b>	<b>Evaluation of the training session</b>
<b>16:45-17:00</b>	<b>Delivery of certificates of attendance to participants</b>
<b>17:00 End of the Session</b>	