

<b>METK</b> Centre of Estonian Rural Research and Knowledge	<p>Pioneers of Estonian Rural Life</p>
	<h1>Centre of Estonian Rural Research and Knowledge</h1>
	<p>A brief overview</p>



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The diagram consists of three colored boxes arranged horizontally. The first box, on the left, is yellow and contains the text 'Research Activities'. The second box, in the center, is blue and contains 'Laboratory, Field Testing'. The third box, on the right, is yellow and contains 'Networking'. Each box is accompanied by a brief description of its focus area.

**Three Main Focus Areas**

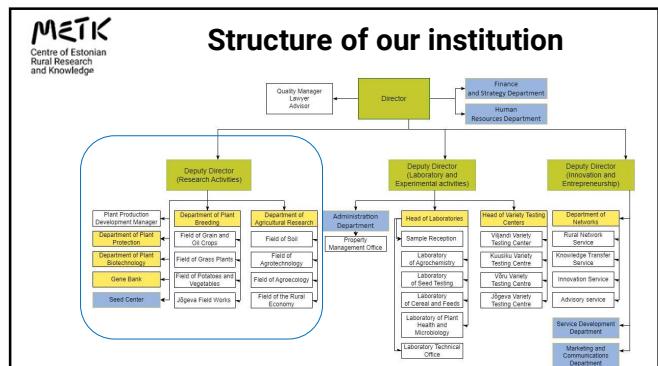
- Research Activities**  
Plant variety breeding, plant protection, plant biotechnology, gene bank; soilHUB, CAP evaluation, FADN, and many other areas of importance to agriculture.
- Laboratory, Field Testing**  
The accredited laboratories provide a wide range of laboratory services for the agricultural sector and high-level analytical competence. Field testing centers conduct the field trials for Value for Cultivation and Use (VCU) Board and other essential tests.
- Networking**  
Networking activities in the field of agriculture and rural life, AKIS coordination centre, National CAP Network, knowledge transfer actions, Advisory Services, Innovation Support Services including EIP-AGRI.



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The image is an aerial photograph of the Jõgeva Campus of the Centre of Estonian Rural Research and Knowledge (METK). The campus is a cluster of modern agricultural buildings, including large barns and processing facilities, situated in a rural landscape with green fields and a river. A yellow arrow points from the bottom of the image towards the central building complex, and another yellow arrow points from the top towards a specific building on the right side of the campus.

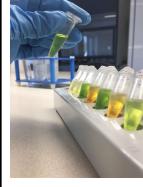


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 <p><b>METK</b> Centre of Estonian Rural Research and Knowledge</p> 	<h2>Employees and academic staff</h2> <ul style="list-style-type: none"> <li>330 people works at METK, of whom <b>134</b> <b>worked in research-related</b> departments</li> <li>Researchers made up 15.4% of all METK employees, with 35.8% in departments related to research</li> <li>There is research <b>staff of 48</b> people - researchers, and 10+ PhD candidates in partnership with universities</li> <li>The research activity was positively assessed by an international committee in 2024</li> </ul>
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 <p><b>METK</b> Centre of Estonian Rural Research and Knowledge</p> 	<h2>Projects</h2> <ul style="list-style-type: none"> <li>The CoE <b>Agroecology and new crops in future climates</b> project addresses the challenges of agriculture in future climates and the non-sustainable ecological footprint of food production systems</li> <li>The CoE for <b>Sustainable Land Use</b> project focuses on developing an innovative data cube to address relationships between biodiversity and carbon at various spatial and temporal scales considering the societal drivers and impacts</li> <li>We contribute to a number of EU wide networking projects e.g. ClimateFarmDemo , Climate Smart Advisors, EJP Soil C arouNd and modern AKIS</li> </ul>
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 <p><b>METK</b> Centre of Estonian Rural Research and Knowledge</p> 	<h2>Databases and collections</h2> <ul style="list-style-type: none"> <li>Gene bank seed and <i>in vitro</i> collections of plant genetic resources</li> <li>Breeding collections consists genotypes for breeding of 22 different crop species, including cereals, legumes, oil crops</li> <li>A database of 216 DNA fingerprints based on SSR markers for wheat, barley, and potato varieties</li> <li>Phytopathogenic fungi collection</li> <li>Database of agrochemical analysis of soil samples</li> <li>Farm Accountancy Data Network (FADN) database</li> </ul>
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 <p><b>METK</b> Centre of Estonian Rural Research and Knowledge</p> 	<h2>R&amp;D infrastructure</h2> <ul style="list-style-type: none"> <li>Breeding Centre I in 2019, net surface area 1100 m<sup>2</sup></li> <li>Renovated laboratory renovated in 2020 with net surface area 600 m<sup>2</sup>, which incorporates activities of the departments of Plant Biotechnology, Plant Protection and Gene Bank</li> <li>Seed-processing facility opened in 2023 with net surface area 2500 m<sup>2</sup></li> <li>Field testing area with adjustable precipitation (2023, testing area 8250 m<sup>2</sup></li> <li>Multi-purpose greenhouse (2024, net surface area 1800 m<sup>2</sup></li> </ul>
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 <p><b>METK</b> Centre of Estonian Rural Research and Knowledge</p>	 <p>Lab Centre in Saku – 2023</p>
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## Main outcomes of recent years

- Expansion of plant biotechnology research
- Launching fungicide resistance research
- Applied research in agrotechnology
- Creation of the precise science-based soil nutrient models
- Digital soil map applications and fertilisation guidelines
- Integrating agro drones to plant breeding and plant protection trials



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## Infrastructure



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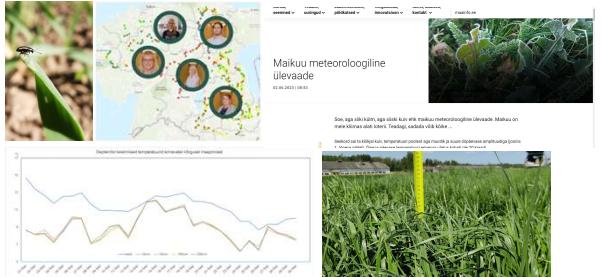
## Field Days and farmer networks



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## Monitoring and knowledge transfer



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## Knowledge transfer



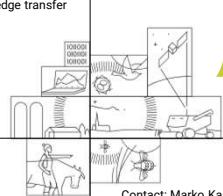
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## Pioneers of Estonian Rural Life

We are good at

- research
- field studies
- knowledge transfer



Contact: Marko Kass, PhD  
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We are looking for cooperation



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