

SC2 and KET-B Brokerage Event

Food Security | Sustainable Agriculture and Forestry | Marine, Maritime
and Inland Water Research | Bioeconomy | KET-Biotechnology |

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The AproSeed logo consists of the word "AproSeed" in a green serif font, with a stylized orange and green seed icon integrated into the letter "o".

AproSeed

Session 1: Sustainable Food Security

Elaboration of eco-innovative soybean lines with unique traits for the
provision of biodiversity

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#BioBrokerage

- Name: Katerina Esaulova
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- Type of organization: SME
- Country: Poland

Possible topic to participate in:

SFS-28-2018-2019-2020: Genetic resources and pre-breeding communities

Keywords: unique ecological soybean lines, genetic diversity in germplasm, breeding achievements adapted for changing climate, collaboration in plant genetic resources use

The project idea is to deploy, research and study soybean ecological lines especially bred for organic farming suitable for Northern regions of Europe.

Key studying points of eco-innovative soybean lines are:

- The lack of dependence on a day length along with simultaneous provision of high yields;
- Developed root system taking nutrients and moisture from deep soil and benefiting to water economy;
- Decreased level of anti-nutrients;
- Minimal necessity of Crop Heat Units to be suitable for northern regions;
- Favorable taste qualities and suitability for food processing industry.

Aproseed is the soybean breeding company operating in a network of organizations involved in the production of soybeans, maintenance of existing varieties, ensurance of primary seeding, provision of seeds reproduction and sales of qualified soybean seed material. The company's team has more than 20-year experience in soybean business, including breeding activities, organization of demonstrations, Field Days, consultations, and interactions with final users.

The project objective is to create multidisciplinary cooperation between breeders, research organizations, laboratories and biotechnological institutes in order to breed, research, study and implement innovative ecological soybean lines with unique genetic traits suitable for northern regions of Europe.

Problematic aspects to address:

- 95% of European protein is imported;
- Lack of ecological varieties with high productivity;
- Plant protection products ban of the European Commission (disrupting farmers' ability to meet 5% of Ecological Focus Areas requirement);
- Increasing world population to 9 bln by 2050.

We are looking for:

Scientific Research Organizations, Biotechnological Institutes, Laboratories, Dietary Institutes and all potential partners interested to join the consortium and benefit to the creation, research, study and implementation of new ecological lines suitable for Northern regions.