



ETH zürich



Agroscope



hiphen

PhenoSoy – Precision Agriculture for the Future of Soybean Breeding

With the PhenoSoy project, DSP Ltd. is setting new standards in data-driven plant breeding. The aim is to assess the development and performance of soybean genotypes under real field conditions in a precise and efficient manner. This is particularly valuable in early breeding generations, where reliable yield assessment is not yet possible.

The project uses modern drone technologies and multispectral sensors, which regularly provide high-resolution data on plant growth, vitality and stress responses. These objective measurements complement traditional field assessments and allow for a more differentiated evaluation of breeding lines and future cultivars.

By linking agronomic observations, site-specific environmental data and genomic information, PhenoSoy creates a robust basis for the selection of high-performing soybean genotypes adapted to local conditions. In this way, the project makes a concrete contribution to the sustainable production of plant-based protein in Switzerland.

In cooperation with ETH Zurich, Agroscope and HiPhen, DSP Ltd. contributes its long-standing expertise in plant breeding and combines it with innovative technologies – practical, efficient and focused on the requirements of tomorrow's agriculture.

The project is funded by contributions from the Swiss Federal Office for Agriculture (FOAG) in accordance with Article 140 of the Swiss Agriculture Act, as well as by in-kind contributions from the project partners.



Experimental soybean field in Delley.