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Dear reader,

In SolACE – Solutions for improving Agroecosystem and Crop Efficiency for water and nutrient use – we strive to help European agriculture face major challenges, notably increased rainfall variability and reduced use of nitrogen and phosphorus fertilizers. The project is funded under Horizon 2020, the European Union's Research and Innovation programme.

We are pleased to share the fourth SolACE newsletter with you, and look forward to sharing more news with you soon. Enjoy!

SolACE is making major steps forward as it gets closer to the half-way point of the project



SolACE organized its second Annual Meeting in Dundee, Scotland in early October 2019, partly together with its European partner project TomRes – A Novel and integrated approach to Increase multiple and combined stress tolerance in plants using tomato as a model. As SolACE is almost half-way through the course of the project, this was a great opportunity to share lots of new results from the experiments conducted since the previous meeting in Foggia.

[Read more](#) >

Semi-field phenotyping for winter wheat deep rooting: measuring deep root growth, water and nitrogen uptake



A semi-field platform (RadiMax) has been developed to identify possible phenotypic variation in root traits. In particular, it looks at deep root growth potential and activity in fully grown winter wheat crops. As a part of the SolACE project, 14 winter wheat genotypes were sown in the RadiMax platform in 2019. They are being grown under two nitrogen doses. This better understanding of genotype performance is essential to identify genotypes which cope better with water and nutrient deficiencies.

[Read more](#)

Potato and wheat experiments with microbial formulations from DCM



In 2019, Agroscope, ÖMKi and the University of Newcastle performed successful potato field trials, which used DCM's microbial formulations based on the DCM Minigran® technology. Additional experiments are currently being set up at Agroscope and the University of Hohenheim with these microbial formulations.

[Read more](#)

Harvesting potatoes in the SolACE Hungarian field experiment



We recently harvested the potatoes from the small plot potato experiments in Hungary. The field experiment tests various potato genotypes, microbial inoculants and crop rotations enriched with soybeans. The aim of the field experiment is to enhance the combined stress resistance of the plants to drought and nutrient deficiency.

[Read more](#)

Putting a novel breeding method for potato to the test



The application of the hybrid breeding system for potato has resulted in hybrid varieties that were tested under drought stress.

[Read more](#)

SolACE Stakeholder Event

At the third SolACE stakeholder event, which took place in Dundee, UK, in October 2019, we showed stakeholders some of the innovations we are working on to reduce water and nutrient stress in crops and received valuable feedback and comments on these innovations. The event



was held together with the TomRes project, who also presented some of their innovations.

[Read more](#) >

Video introducing the farmer networks

This video describes the farmer networks, their main aims and objectives, their locations and the type of crop they are dedicated to. It also illustrates how the results of these networks feed into the SolACE project.

[Read more](#) >

New practice abstract on bio-fertilizer

Applying mycorrhizal fungi is a simple technique for improving the growth as well as tolerance against biotic and abiotic stresses of a wide range of crop plants. In addition, they can help improve the soil structure and prevent nutrient leaching.

[Read more](#) >

New practice abstract on undersowing

Sowing a grass-clover ley into the cereal crop in March/April uses the residual soil moisture from winter for the establishment of the ley. In most cases, the sowing is successful.

[Read more](#) >

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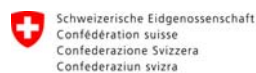
Newsletter

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727247 (SolACE)



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