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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 fifth SolACE newsletter with you, and look forward to sharing more news with you soon. Enjoy!

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## The effects of climate change and increasing abiotic stress on wheat and potato: A discussion with project experts

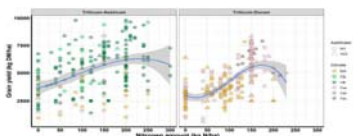


We discussed the relevance of SolACE in the context of climate change and increasing abiotic stresses with three SolACE experts: Jacques Le Gouis, Pasquale de Vita and Orsolya Papp. With a focus on the SolACE focal crops (bread wheat, durum wheat and potato) the experts provided input about the major stresses for the different crops and the resulting impacts, as well as what we can do to address these problems.

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## Analysis of past nitrogen trials across Europe reveals variability in response to nitrogen fertiliser



Using existing data, we studied the wheat response to nitrogen fertiliser across Europe. The results show that the nitrogen response between durum wheat and bread wheat differed across climatic zones.

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## Potato's little helpers



By harnessing the soil microbiome, SolACE aims to select potato cultivars that are better able to cope with combined water and nutrient limitations.

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## Capacity of bread wheat cultivars to recover the nitrogen supply from a preceding legume crop under combined nitrogen and water limitations



The capacity of four bread wheat cultivars to enhance nitrogen and water use is being tested in a controlled field experiment as well as four on-farm trials in Spain. Proximal and remote sensors are used to monitor crop nitrogen and water status to improve resource efficiency and reduce fertilizer application.

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## 2019 results from the SolACE Hungarian field experiment



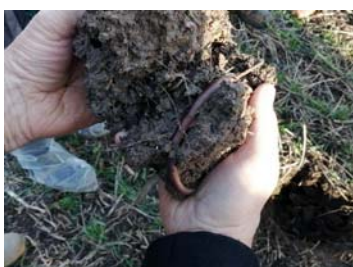
As part of the SolACE project, we are investigating the effects of different pre-crop and inoculation treatments on organic potato varieties under combined stress conditions. In the crop rotation trial, we applied rye and soybean pre-crop treatments and examined four potato varieties under optimal vs. no irrigation with different nitrogen treatments. In the inoculation trial, we tested another four potato varieties with three microbial inoculant treatments, under optimal vs. no irrigation with different levels of phosphorus supply.

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## SolACE project presented to the French consortium for conservation agriculture



In December 2019, Arvalis organised a seminar with the French Consortium for Conservation Agriculture in which the participants were introduced to the SolACE project. They also took part in individual interviews on barriers and enablers regarding agricultural policies. Their contribution will help SolACE give policy recommendations on enhancing sustainable agricultural practices.

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## Proceedings from the third SolACE Stakeholder Event

The proceedings from the third SolACE Stakeholder Event are now available.

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## New video about SolACE phenotyping platforms

What is a phenotyping platform? Find out about this and more in the new SolACE video.

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### Contact information

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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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