



**Hybride Weekend Seminar
in Nürnberg, Caritas-Pirckheimer-Haus and Online via Zoom**
**Digitisation and Artificial Intelligence
in global Agriculture and Food Security***

On-site-seminar: Caritas-Pirckheimer-Haus Nürnberg
Webinar: Online
3-5 July 2020



High-Tech Agriculture: a chance for sustainable production?

Beyond the fears of comprehensive monitoring, control, monopolization and gigantic data traffic, a new approach to the use of human, land and resources is emerging. While industrial agriculture is still dominated by soil cultivation machines with immense power weighing several tons, in the near future these are to be replaced by box-sized, highly flexible, but above all self-optimising small tractors. These tractors regularly determine the nutrient content of the soil and the fertiliser requirements of the plants and automatically regulate them optimally. They combat plant pests manually and in a targeted manner - without adversely affecting the desired soil life. Food production can thus

become gentler and more sustainable. Points of discussion will be: Which technologies are already available? How do national and international markets deal with these AI-based apparatus? Who will determine the technical, social and ethical-moral developments? What opportunities and risks can arise from this? In this seminar, we will look in particular at the technical possibilities, already realised or in planning, and consider how we can understand and discuss new forms of global cooperation, including in the field of "open source" technologies, while taking into account sustainable development goals. We also get involved with post-harvest los-

ses, since large contracts for harvested crops through spoilage and animals. Here too, digital technology and management offer opportunities to improve the effectiveness of food supply.

Please contact us if you want to take part in the on-site seminar at Caritas-Pirckheimer-Haus Nürnberg. If you want to join the seminar via Zoom please register Online: www.stube-bayern.de

A very warm welcome to this event!

* Food security is a measure of the availability of food and individuals' ability to access it

Speakers and organisational team

Friday, 3 July 2020
17:30 Registration and check in at Caritas-Pirckheimer-Haus Nürnberg
18:00 Dinner
18:45 Opening of Zoom for technical adjustments
19:00 Welcome and Introduction into organisation and time table of the weekend, familiarisation with participants and program
19:30 Unit 1: Nagarjun Devabhakthini "Digitalisation of agriculture and it's role in food and nutrition", incl. discussion
21:00 End of the first evening

Saturday 4 July 2020
8:45 Opening of Zoom for technical adjustments
9:00 to 10:30 Unit 2: Michael Hesse: Digitisation and post harvest management I
10:30 short break
11:00 to 12:30 Unit 3: Michael Hesse: Digitisation and post harvest management II
12:30 60 min break for lunch
13:30 to 15:00 Unit 4: lecture and discussion

Sunday, 5 July 2020
8:45 Opening of Zoom for technical adjustments
9:00 to 10:30 Hannah Hadaller, STUBE BW: group work in breakout rooms: "Innovation projects in the farming sector. What we can learn from each other"
11:30 finalisation of the seminar, evaluation, farewell
12:00 lunch for the on-site participants

Michael Hesse Dep. of Agricultural and Biosystems Engineering, University Kassel

Nagarjun Devabhakthini University Hohenheim

Hannah Hadaller, Norbert Brunner, Christian Pfliegel, Hannah Tonn & the team of STUBE Bayern and STUBE Baden-Württemberg

Further Information, online registration and conditions of participations at www.stube-bayern.de

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