



Hybride Weekend Seminar  
in Nürnberg, Caritas-Pirckheimer-Haus and Online via Zoom

## Digitization and AI in global agriculture and food security\*

On-site-seminar: Caritas-Pirckheimer-Haus Nürnberg  
Webinar: Online

July, 3-5, 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 KI-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 losses, 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](http://www.stube-bayern.de)

A very warm welcome to this event!

### Speakers and organizational team

**Freyday, July 3, 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: "AI in agriculture and food security" incl. discussion  
21:00 End of their first evening

**Saturday 4, July 2020**  
8:45 Opening of Zoom for technical adjustments  
9:00 to Unit 2: lection and discussion  
10:30 short break  
11:00 to Unit 3: lection and discussion  
12:30 60 min break for lunch  
13:30 to Unit 3: lection and discussion  
15:00

**Sunday, 5, July 2020**  
8:45 Opening of Zoom for technical adaptation  
9:00 to group discussion in breakout rooms, conducted by Hannah Hadaller  
10:30 finalization of the seminar, evaluation, farewell  
12:00 lunch for the on-site participants

Lecturers from various Universities and NGOs are requested. Their names will be announced in the next few days

*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](http://www.stube-bayern.de)

funded by:  
The Federal Ministry of  
Economic Cooperation and Development



Bundesministerium für  
wirtschaftliche Zusammenarbeit  
und Entwicklung

**STUBE** BAYERN

Mission EineWelt  
STUBE Bayern  
Königstraße 64, 90402 Nürnberg  
Telefon: 0911 36 672 15  
Fax: 0911 36 672 19  
[stube@mission-einewelt.de](mailto:stube@mission-einewelt.de)  
[www.stube-bayern.de](http://www.stube-bayern.de)