

Global Conference on Sustainability in Agriculture & Food Systems

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Abstract of the intervention:

Organic Farming & Agroecology in Food System Management

Sustainable agricultural systems are only achievable with an open culture of innovation, especially because the number of people who need to be fed will continue to grow until 2050 and because the stable supply of people is made more difficult by wars, conflicts and natural disasters. The challenges for social, ecological, institutional, economic and technological innovation are great. In their implementation, they require a combination of traditional farming knowledge, practical experience in dealing with nature and scientific-technical innovations. The concept of ecological or sustainable intensification is based on a strong reduction of dependence on fossil energy, on a transformation to closed nutrient cycles, on diversified and resilient systems and on the use of ecosystem services. Various modern technologies support this concept of sustainable intensification, such as modern breeding tools with targeted mutagenesis, the comprehensive solutions brought by digitalisation and the material sciences that preserve and protect food. The future requires new methods of participation, where farmers, traders and consumers get involved. In doing so, numerous changes are being created that are harmoniously coordinated with each other.

