



EDUCATING THE NEXT GENERATION OF PROFESSIONALS IN THE AGRIFOOD SYSTEM

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What is NEXTFOOD?

NextFOOD is an International project funded by Horizon 2020 Research and Innovation Framework Programme that started in 2018 and will last until 2022




















Will drive the crucial transition to more **sustainable and competitive agrifood and forestry systems** development by designing and implementing education and training systems to prepare budding or already practicing professionals with competencies to push the green shift in our rapidly changing society

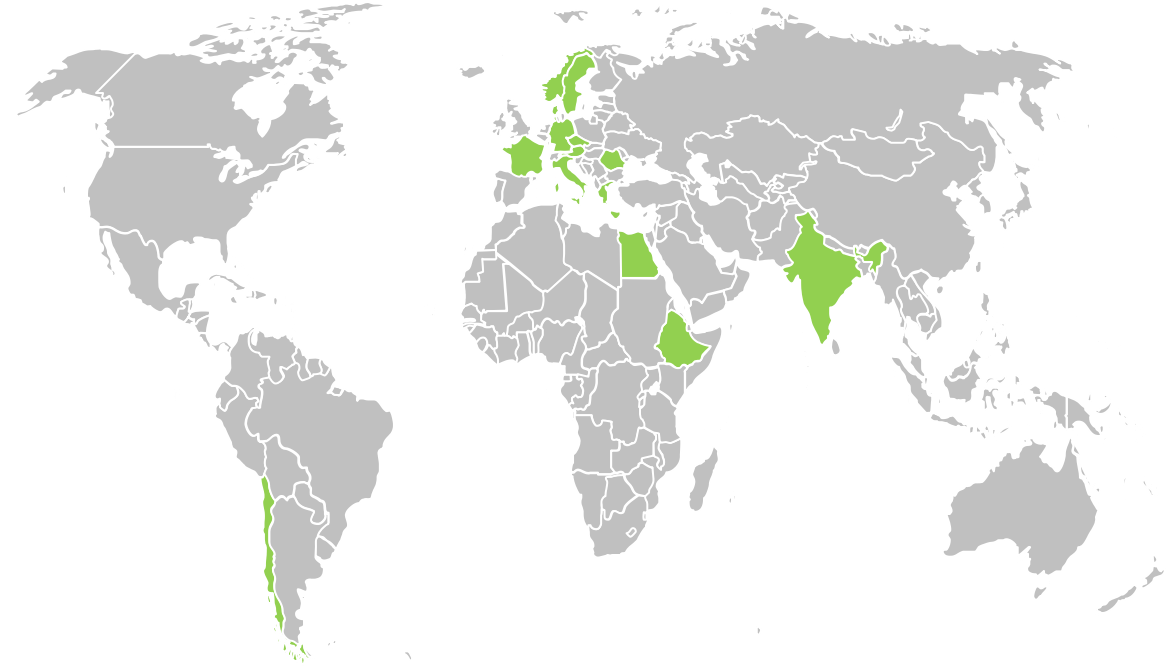


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A consortium of 19 Partners

Europe	Africa	Latin America
   		
   		
   		
   		



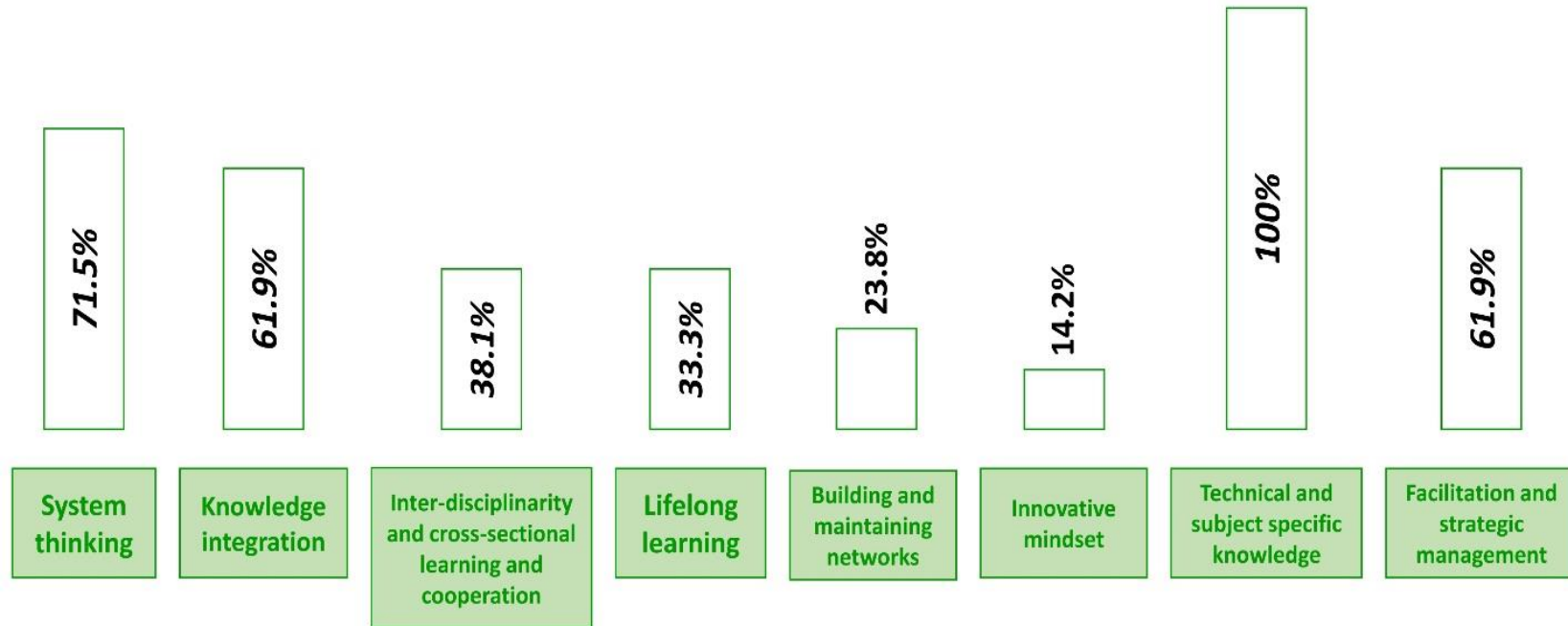


Skills needed in the future

1. Navigating in a changing world
2. Collaboration
3. Systems thinking
4. Digital and technical skills
5. Building and maintaining networks
6. Strategic development
7. Negotiation of sustainability

Gaps of skills in existing educational programs at NextFood partners

Approximate provision of associated skills by analyzed courses (% of courses)



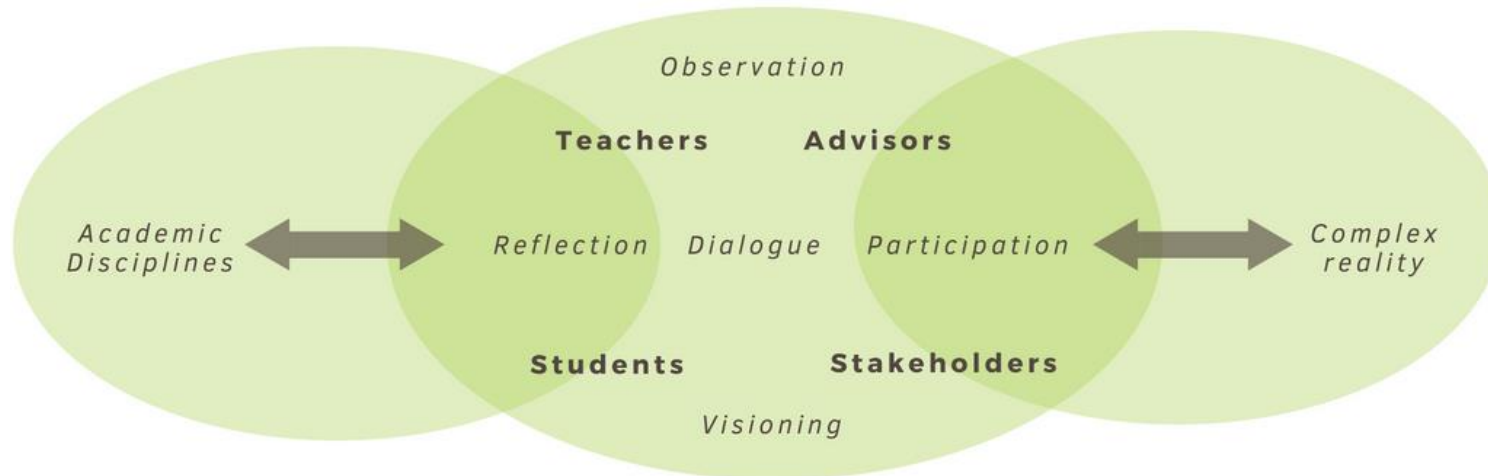
Overall themes identified in Peer-reviewed literature

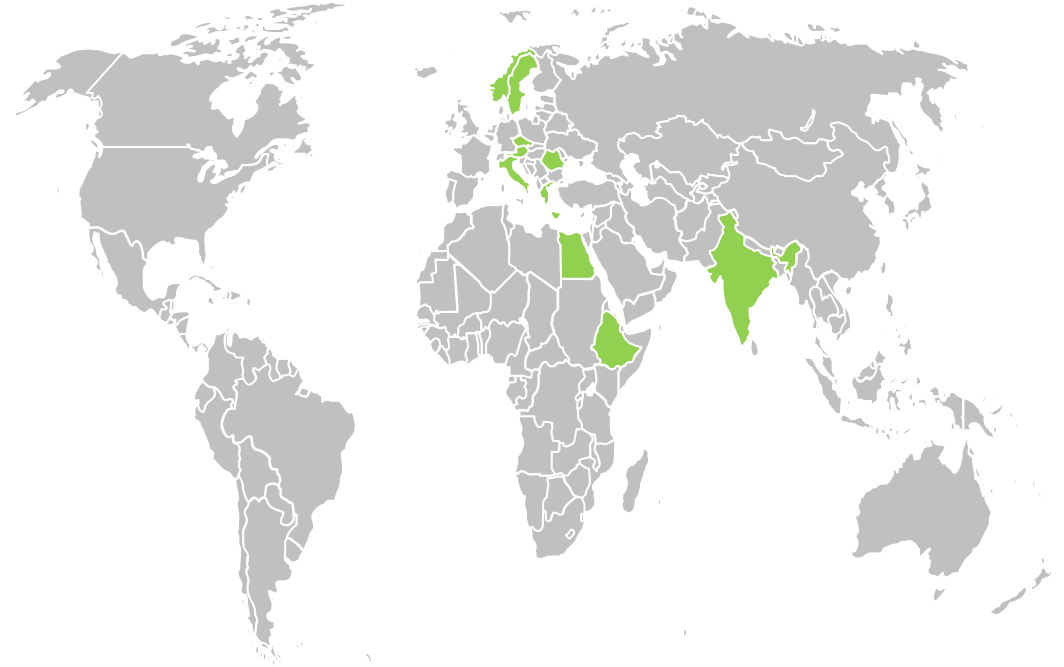
Action-learning

In 2018 it was agreed to use methodology based on case studies using as a reference the action-learning model adapted from Lieblen *et al* (2012), which seeks to generate a close link between University and Society.

TRANSFORMATIVE AND PARTICIPATORY LEARNING MODEL

COLLABORATIVE AND ACTION-ORIENTED LEARNING





Case Studies

Some of the learning outcomes of students:

- Develop critical thinking and self-direction
- Change and adaptation by envisioning
- Learn how to collaborate
- Develop systems perspective
- Train networking skills
- Motivate students to become change agents





The case in Austria at ISEKI

Food association

(Sustainable *Supply Chain Innovation Competition*)

Overall idea:

Student teams compete to find the best solutions to a sustainability challenge.

Example on learning activities:

- Peer-learning in teams of 4-5 students
- Certificate course
- On-line training with virtual visits to companies
- Soft skill workshops
- Challenges:
 - No physical contact with students
 - No interaction between teams



2019 FOOD FACTORY-4-US
Sustainable Supply chain
International Student
Competition





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The case in Ethiopia at Mekelle university (*MSc in agroecology*)

Overall idea:

Learn from real life experience of farmers outside of the class room. Using the Farmer Training Centres as a learning arena.

Example on learning activities:

- Walk across the farm and lands
- Visit to local food markets
- Student spent 10 days on case farms
- Dialogue with farmers and FTC stakeholders
- Reflection on the learning process
- Final case work presentation
- Fit into current education system



Photo: Tor Arvid Breitland



The case in Pollenzo, Italy.

MSc in Agroecology and Food Systems in collaboration with the slow food movement



Università di Scienze
Gastronomiche di Pollenzo
University of Gastronomic Sciences of Pollenzo

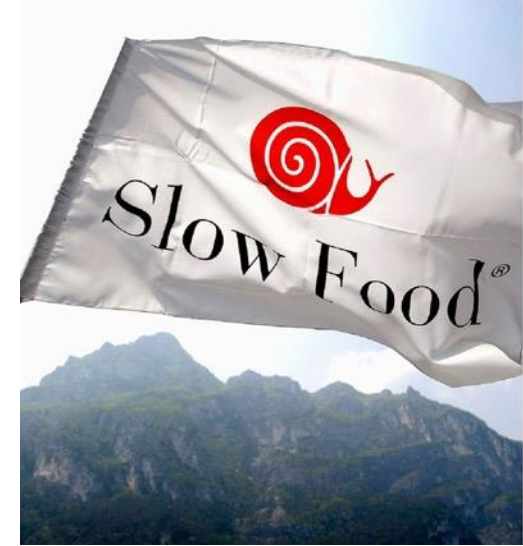
Overall idea: A short course in Agroecology within an existing MSc in Gastronomy, in a multistakeholder setting.

Example on learning activities:

- Lessons in university restaurant
- Farms and field visits
- Visits to food enterprises
- Peer learning (group presentations)
- Examination: on-line multiple choice and group paper

Obstacles:

- Increased work planning the course
- Difficult to find good supporting literature to students
- Facilitators need to be flexible
- Some facilitators not ready for action learning





A roadmap for education

Learning outcomes
Toolbox for teachers
Audit tool for institutions



Sustainability education
Action-oriented
Learner-centered



Mindset
Institutional barriers
Stakeholder engagement





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