

Online Advanced Course
FOOD SUSTAINABILITY ASSESSMENT: A METHODOLOGICAL APPROACH
Zaragoza (Spain) 15-24 February 2021

PROGRAMME

- 0. Class 0 – Videos: welcome from IAMZ and programme presentation**
- 1. Introduction (3 hours)**
 - 1.1. What is a food system? What are sustainability assessments? (1.1 to 1.4: 1 h) (M. Rezaei, J. Valls)
 - 1.2. How we produce and consume food and why sustainability is important? Need of food system transformation (M. Rezaei, J. Valls)
 - 1.3. Impacts of food production and consumption and food system resilience to shocks and threats. The importance of assessing sustainability (M. Rezaei, J. Valls)
 - 1.4. How we assess sustainability? For what? For whom? Where are they applied – examples from practice (M. Rezaei, J. Valls)
 - 1.5. International and national policy context
 - 1.5.1. The SDGS and The UN Food System Summit (0.5 h) (M. Rezaei, J. Valls)
 - 1.5.2. European framework: European Green Deal, Farm to Fork Strategy, New Circular Economy Strategy, Single Market for Green Products: Product Environmental Footprint (0.5 h) (J.M. Gil)
 - 1.6. Links between food systems in the wider context of a sustainable and circular bioeconomy. National and regional food and bioeconomy strategies (1 h) (A. Bogdanski)
- 2. Good governance (2 hours) (G. Brunori)**
 - 2.1. Stakeholders' mapping
 - 2.2. Coordination mechanisms and power relation
 - 2.3. Prioritization of outcomes and dimensions, and defining criteria
- 3. Measuring sustainability (2 hours) (J. Laso, I. Ruiz)**
 - 3.1. State of the art about measuring sustainability
 - 3.2. Defining system boundaries
 - 3.3. Designing measurable sustainable objectives
 - 3.4. Quantitative and qualitative approaches
 - 3.5. Issues in data availability: simple vs complex indicators
 - 3.6. Creating and maintaining monitoring systems
- 4. Assessment methodologies (16 hours)**
 - 4.1. Global food systems sustainability indicators: type of indicators (1 h) (A. Bogdanski)
 - 4.2. Environmental assessment
 - 4.2.1. Life Cycle Analysis (1 h) (S. Ramos, M. Ciudad)
 - 4.2.2. Environmental footprint (1 h) (S. Ramos, M. Ciudad)
 - 4.2.3. Water footprint (1 h) (M.M. Aldaya, S. Ramos)
 - 4.2.4. Practical exercise: assessment of the environmental footprint of dairy and seafood products (5 h) (M.M. Aldaya, S. Ramos, M. Ciudad, D. Egas)
 - 4.3. Social assessment: Social Life Cycle (2 h) (S. Valdivia)
 - 4.4. Economic assessment
 - 4.4.1. Life Cycle Cost (2 h) (M. Vittuari, F. de Mena)
 - 4.4.2. Extended Cost-Benefit Analysis (1 h) (J.M. Gil)
 - 4.5. Food and nutrition composite indicators (2 h) (M. Bianchi)
- 5. Synergies and trade-offs among environmental, social, economic and nutritional assessments. Resolution of conflicts (4 hours) (J.M. Gil, Z. Kallas)**
 - 5.1. Synthetic indicators (5.1 to 5.3: 2 h)
 - 5.2. Participatory tools
 - 5.3. Mathematical tools
 - 5.4. Practical exercise on resolution of conflicts (2 h)
- 6. The example of the nexus water-energy-food (2 hours) (L. Batlle-Bayer)**

- 6.1. Why considering the nexus water-energy-food
- 6.2. State of the art about indicators to measure the nexus water-energy-food in rural and urban areas
- 7. **Round table discussion: how to engage public and private actors in assessing sustainability of food systems? (2 hours)** (J.M. Gil, S. Ramos, M.M. Aldaya, Z. Kallas, L. Batlle-Bayer, A. Bogdanski, M. Rezaei, J. Valls)