



Horizon Europe Brokerage Event  
Cluster 6 Calls 2025  
Warsaw, 27 May 2025

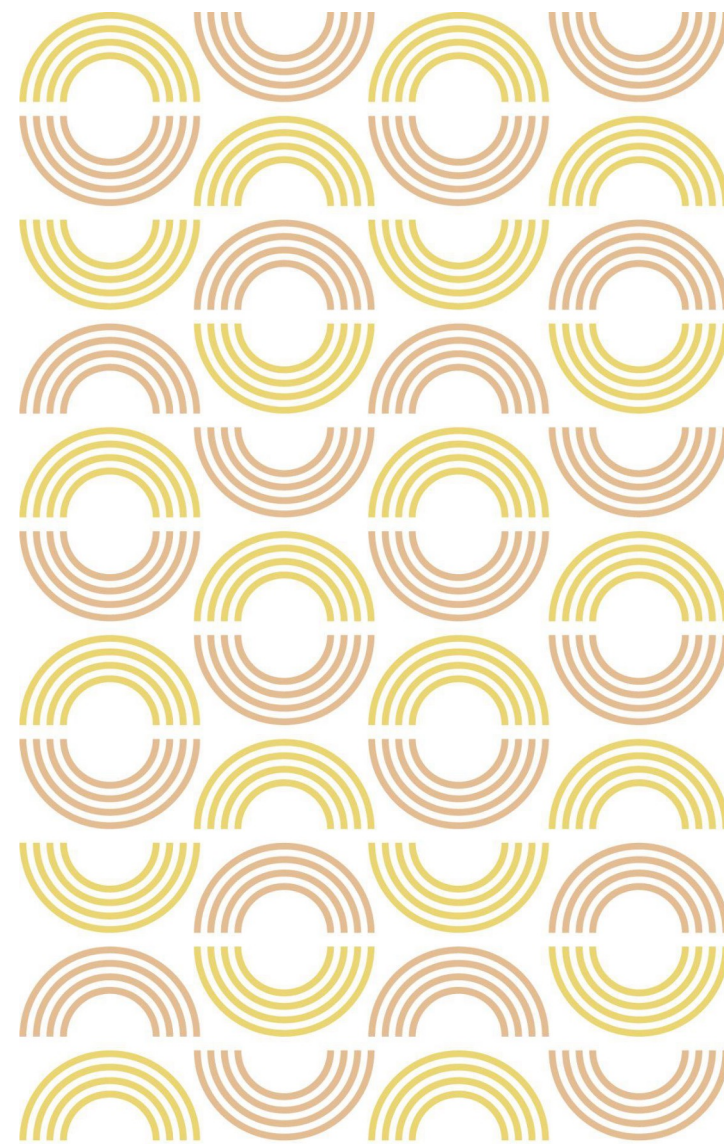
## Designing and Modelling On-campus Vertical Farming (VF): economic and societal potentials of controlled environment agriculture.

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## Topic(s) addressed:

- Innovation and digitalization in agriculture and food systems.
- Circular urban farming and sustainable agri-food systems.

## Other topics of interest:

- On-campus vertical farming and campus economy
- Food security, circular economy, repurposing urban areas and creating new landscapes.
- Innovation in education
- Urban agriculture and sustainable urban development.



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## Project idea

- Develop conceptual designs for small-scale urban vertical farming (VF) prototypes and implement a pilot project at Ozyegin university premises.
- Evaluate the economic feasibility of different VF prototypes (e.g., aquaponic garden and greenhouse farming).
- Identify high-value crops that will be utilized in the hands-on courses within the University's Gastronomy and Culinary Arts BSc degree program and Le Cordon Bleu certificate program.
- Analyse societal impacts of on-campus VFs through promoting innovation in education.
- Identify obstacles and opportunities for new circular urban farming models.

## Main expertise offered / sought

- Food scientists – in our Gastronomy and Restaurant Management department and instructors chefs in our on-campus L'Atelier Bleu Restaurant – will be working on **identifying and evaluating the alternative high-value crops potential for VF system production.**
- **Supply chain optimization for VF systems:** industrial engineers will focus on supply chain optimization analysis to analyze the economic viability of alternative on-campus VF systems.
- Interior architects (expertised with permaculture and alternative building-attached landscape) for conceptual design of VF prototypes on university premises.
- Property (re)valuation: property finance researchers will work on the financial feasibility analysis and revaluation models for urban space (new landscape opportunities and vision, reuse and repurpose of urban space as a new commercial property usage type.

## Our research team – involved in the following funded projects:

- Neo-Farmers, Rural Transformation and Rural Gentrification in Turkey funded by TÜBİTAK 1001 Program for 3 years.
  - Agriculture, local food networks, rural development
  - Project coordinator.
- On-Campus Smart Urban Farming: Vertical Farm and Aquaponic Garden Prototype Design and Development funded by Seed Research Fund Programme.
  - Project coordinator.
- Financialization, Economy, Society and Sustainable Development Project funded by EU 7th Framework Programme for Research.
  - Project partner – W P Task Coordinator



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- Academic institution – Özyeğin University is a research university focused on global impact, student development, and academic excellence.
  - 25 bachelor's, 36 master's, and 10 doctoral programs across 7 faculties and 3 graduate schools.

<https://www.ozyegin.edu.tr/en>