Supporting bioeconomy deployment through education, research and entrepreneurship: highlights from recent EBU projects

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FOEBE







### **European Bioeconomy Scientific Forum 2025**

Boosting regional and international bioeconomy collaboration and skills







EBU 5th Avnniversary, Nov. 2024

### Effectuation

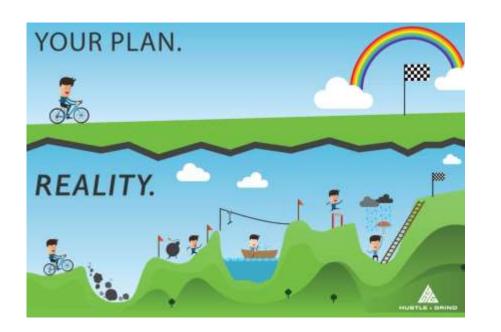
Entrepreneurship is a method anyone can learn, Decades of research into how expert entrepreneurs think and act led to

Effectuation, a powerful, proven set of principles created by UVA Darder Professor Sarasvathy for startup success

### Watch a Q&A with Professor Sarasvathy

www.effectuation.org













Caviro Biorefinery Site, IT







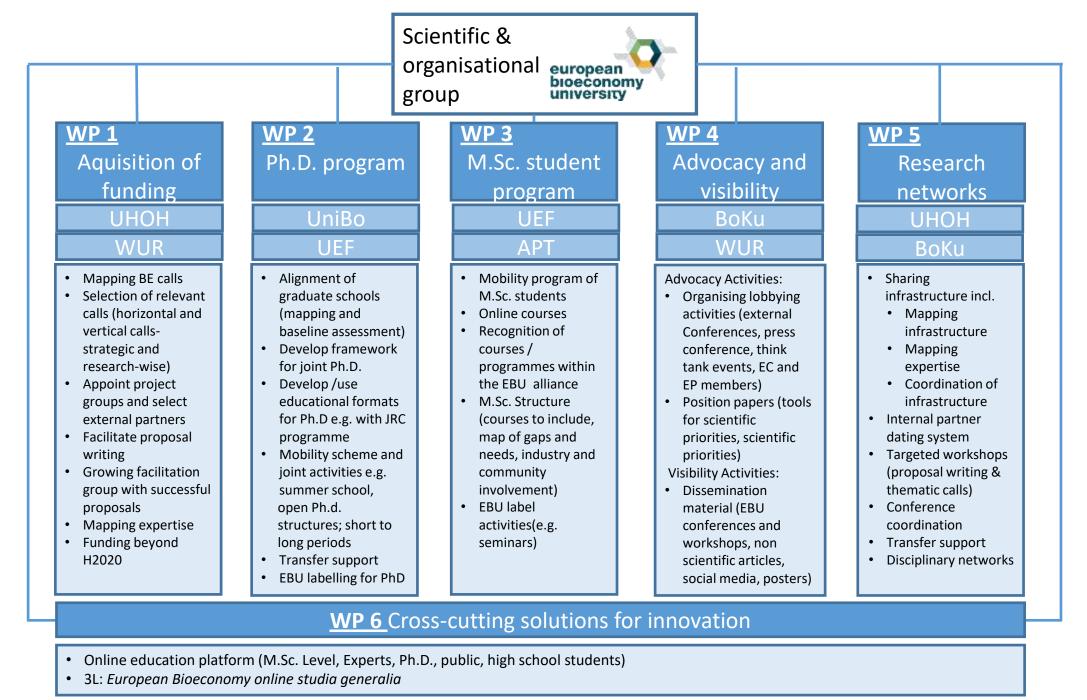


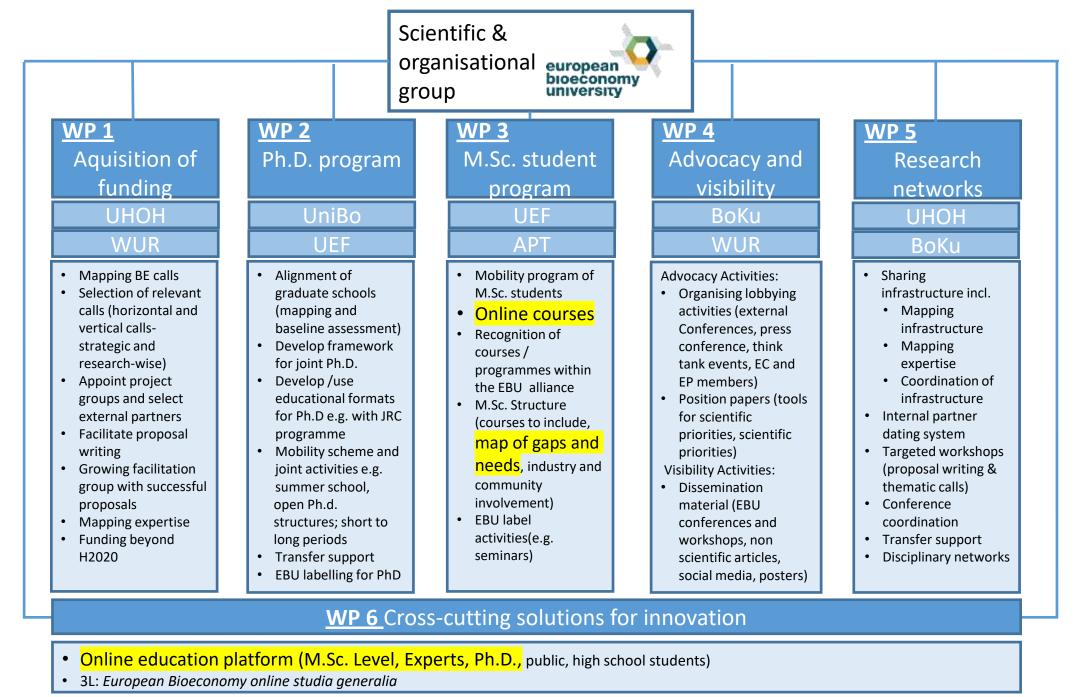






Huffington Post







### FOstering Entrepreneurship and innovation for a sustainable BioEconomy

- 2 Erasmus+ projects (2020-2023 and 2023-2026) with 7 EBU partners
- Hybrid learning programme: 8 online modules + "Challenge Week"
- 4 cohorts trained : ~ 170 students
- Delivering certificates & ECTS credits
- Some career paths for FOEBE/+ alumni:
  - 2 became EU Bioeconomy Youth Ambassadors
  - 3 were involved in 2 BISC-E challenge winning teams (BioAroma, Biosurfers)
  - Several continued their entrepreneurship projects through PhD or start-up creat
- 1 scientific publication:
  - "The bioeconomy transformation as an external enabler of sustainable entrepreneurship"

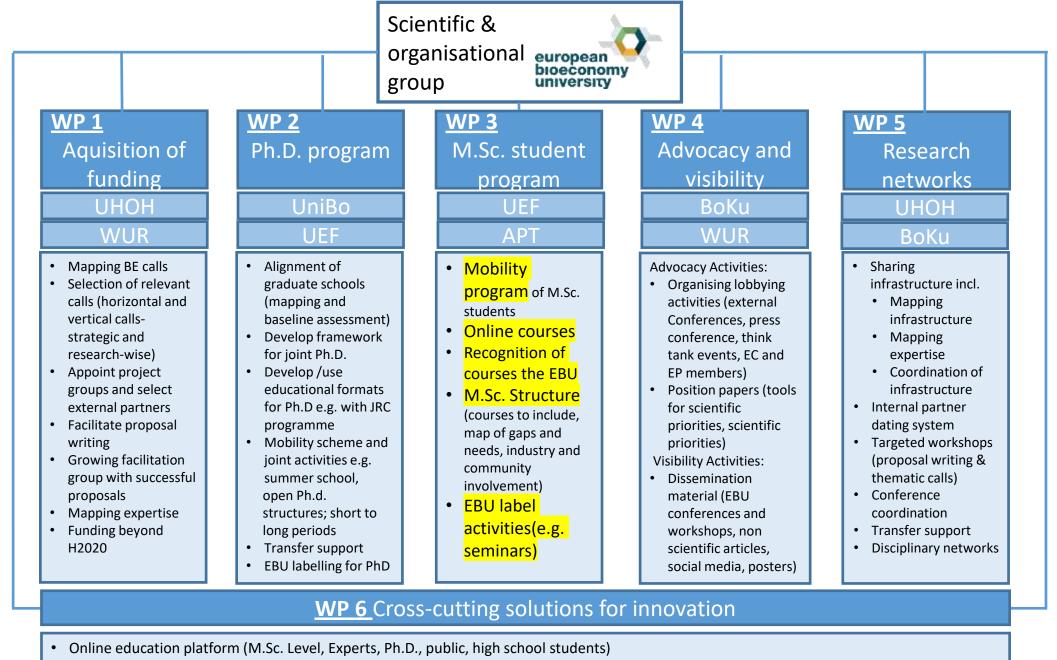








**FOEBE** FOEBE



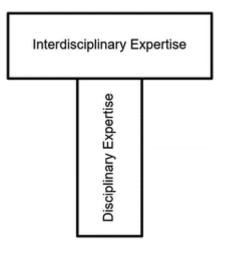
• 3L: European Bioeconomy online studia generalia

- EBU student journey Bioeconomy qualification supplement
- Erasmus+ project (2020-2023)
- Objectives:
  - upgrade and connect existing EBU university bioeconomy-related curricula on the master level with inter-and trans-disciplinarity, cross-sectoral collaboration and sustainability competencies.
  - Recognize the acquired skills with a common qualification supplement.
- 2 editions, 2 pilot journeys, 64 students
- Success stories:
  - EBU label team won EBSF2023 poster competition •
  - Informal alumni networks
  - Alumni becoming bioeconomy PhD students
  - Now a regular educational element of EBU partners



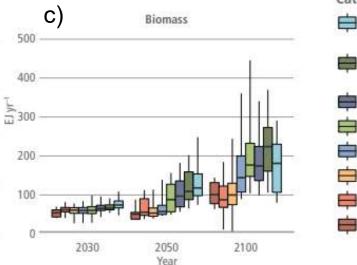


EBL Labe

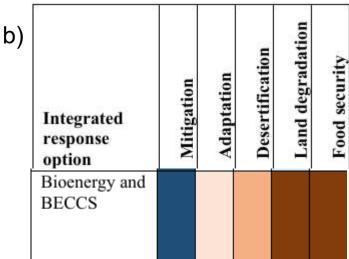


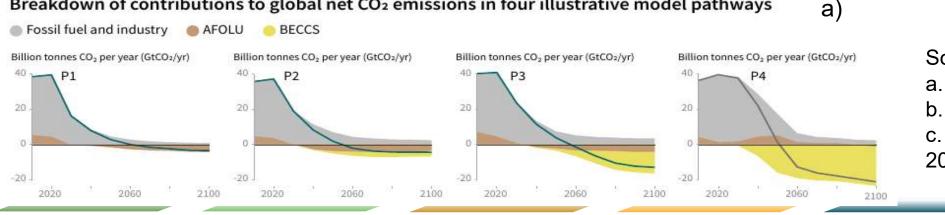


# Sustainable biomass: how much for the bioeconomy?



Category C1: limit warming to 1.5°C (>50%) with no or limited overshoot C2: return warming to 1.5°C (>50%) after a high overshoot C3: limit warming to 2°C (>67%) C4: limit warming to 2°C (>50%) C5: limit warming to 2.5°C (>50%) C6: limit warming to 3°C (>50%) C7: limit warming to 4°C (>50%) C8: exceed warming of 4°C (≥50%)





Breakdown of contributions to global net CO<sub>2</sub> emissions in four illustrative model pathways

Sources :

a. IPCC AR6 (WGIII), 2022 b. IPCC SR1.5, 2018 c. IPCC SR Climate and Land, 2019





### The DESTINY Doctoral Network



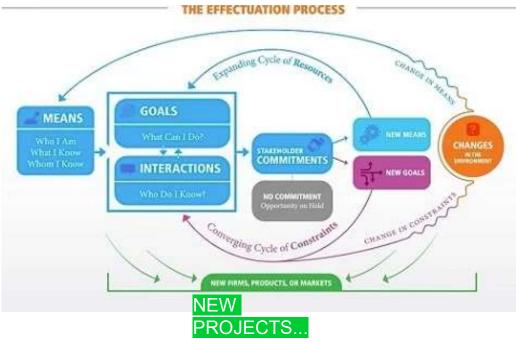
DEsign and SusTainability Assessment of Innovative biomass production systems and value-chains in the BioecoNomY Vision of DESTINY SUSTOINGBIUT AA TROPOLI TAINABLE SAFEGUARD DESTINY Vision FLOSYSTE MS Shaping the future by SERVICE Pachocriok revolutionising blomass use and supply to ensure a sustainable world Blomass HUCTI-SCAU INCLUSIVE Theme GOURSDANCE VALORIZATION SOUTION

DESTINY Deliverable 2.1 (forthcoming)



## Highlights in a nutshell

- ~250 students trained or exposed to the EBU so far
- 6 projects lead by the EBU
- 15 doctoral students hired and co-tuelles
- A wealth of new collaborations and networks, extending beyond core EBU members





## Acknowledgements

- The EBU Coordination group
- Project coordinators and teams
- The EBU Label, FOEBE/+ and DESTINY students cohorts
- EBU Presidents and Rectors
- The EBSF organization committee

