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Erasmus+ Programme
of the European Union



ERASMUS+ PROJECT STEPS MSc in Sustainable Food Production Systems

WP4 – STEPS development Discussion:

STEPS WP4

Deliverable 4.2 – Development and harmonization of STEPS courses



What was the STEPS WP2?

- **WP2 – STEPS structure and courses design**
- **Del. 2.1 Design of the MSc programme**
- **Del. 2.2 Selection of faculty staff and organisation of working groups**
- **Del. 2.3 Organization of study visit**
- **Del. 2.4 Design of the MSc programme courses**
- **WP2 – Curriculum development???**



STEPS program(s) courses

- WP2 – outcomes
- 6 HEIs in 3 PCs
 - 5 MSc/MA study programs (AUT & EUT joint program?)
 - 5 HEIs – 2 years (120 ECTS) MSc/MA study program + 1 HEI (UNBI) 1 year study program (60 ECTS)
- Simple addition (all courses of all programs of all HEIs) = **106 courses** = 106 syllabi
- Program core courses – **1st semester; 6 courses at all HEIs** (AUT & EUT?)
 - More or less the same course titles
- Courses' syllabi – **some finished/published, some not yet ???**
 - Among the finished/published courses – different approaches (and content), even **different ECTS loading**, but mostly comparable basic learning outcomes ...



STEPS program(s) – Courses

- Besides **6 core courses, 32 (elective) courses**, at the level of the (at least comparable) course titles, without insight into courses' contents
- Among 32 elective courses:
 - 3 courses at all HEIs
 - 3 courses at 5 HEIs
 - 4 course at 4 HEIs
 - 7 courses at 3 HEIs
 - 6 courses at 2 HEIs
 - 9 courses at 1 HEI

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Advanced Food Science and Technology	C						
Agricultural and Food Industry Waste Management	C						
Food Ethics	C						
Fundamentals of Agri-Food Production Systems	C						
Governance, Policy and Legislation in the Agri-Food Sector	C						
Research Methodologies and Tools	C						
Harvesting and Post-Harvesting Technologies for Agricultural Products	E						
Marketing of Sustainable Agri-Food Products	E						
Total Quality Management in the Agri-Food Sector	E						
Consumer Science and Sustainable Consumption	E						
Innovation and Entrepreneurship for Sustainable Food Production Systems	E						
Sustainable Food Value Chain Management	E						
Environmental Chemistry towards Food Processing	E						
Quality System Development, Management and Shelf Life Assessment of Food	E						
Traceability systems of food products	E						
Sustainable Ecology for Fish Management and Conservation	E						
Sustainable Technology of Dairy Products	E						
Sustainable Technology of Meat Products	E						
Business Economics and International Trade in the Agri-Food Sector	E						
Data Analysis and Decision-making	E						
Innovative Product Development	E						
Management of Sustainable Food Supply Chain	E						
Quality and Sustainability of Animal-source Food Production	E						
Low Input Agriculture	E						
Nutritionism	E						
Sustainable Land Management	E						
Sustainable Technology of Bakery Products	E						
Sustainable Technology of Fruit and Vegetable Processing Products	E						
Sustainable Technology of Wine, Beer and Spirits	E						
Agri-food Economics	E						
Animal Food Technology Science	E						
Packaging Technology	E						
Project Cycle Management	E						
Quality and Sustainability of Plant-source Food Production	E						
Rural Development	E						
Sustainable Animal Production	E						
Sustainable Plant Production	E						
Waste and recycling technologies in agriculture	E						



STEPS program(s) courses – Development & Harmonization – WP4

All universities

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Advanced Food Science and Technology	C						
Agricultural and Food Industry Waste Management	C						
Food Ethics	C						
Fundamentals of Agri-Food Production Systems	C						
Governance, Policy and Legislation in the Agri-Food Sector	C						
Research Methodologies and Tools	C						
Harvesting and Post-Harvesting Technologies for Agricultural Products	E						
Marketing of Sustainable Agri-Food Products	E						
Total Quality Management in the Agri-Food Sector	E						



STEPS program(s) courses – Development & Harmonization – WP4

5 universities

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Consumer Science and Sustainable Consumption	E						
Innovation and Entrepreneurship for Sustainable Food Production Systems	E						
Sustainable Food Value Chain Management	E						

4 universities

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Environmental Chemistry towards Food Processing	E						
Quality System Development, Management and Shelf Life Assessment of Food	E						
Traceability systems of food products	E						
Sustainable Ecology for Fish Management and Conservation	E						



STEPS program(s) courses – Development & Harmonization – WP4

3 universities

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Sustainable Technology of Dairy Products	E						
Sustainable Technology of Meat Products	E						
Business Economics and International Trade in the Agri-Food Sector	E						
Data Analysis and Decision-making	E						
Innovative Product Development	E						
Management of Sustainable Food Supply Chain	E						
Quality and Sustainability of Animal-source Food Production	E						



STEPS program(s) courses – Development & Harmonization – WP4

2 universities

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Low Input Agriculture	E						
Nutritionism	E						
Sustainable Land Management	E						
Sustainable Technology of Bakery Products	E						
Sustainable Technology of Fruit and Vegetable Processing Products	E						
Sustainable Technology of Wine, Beer and Spirits	E						



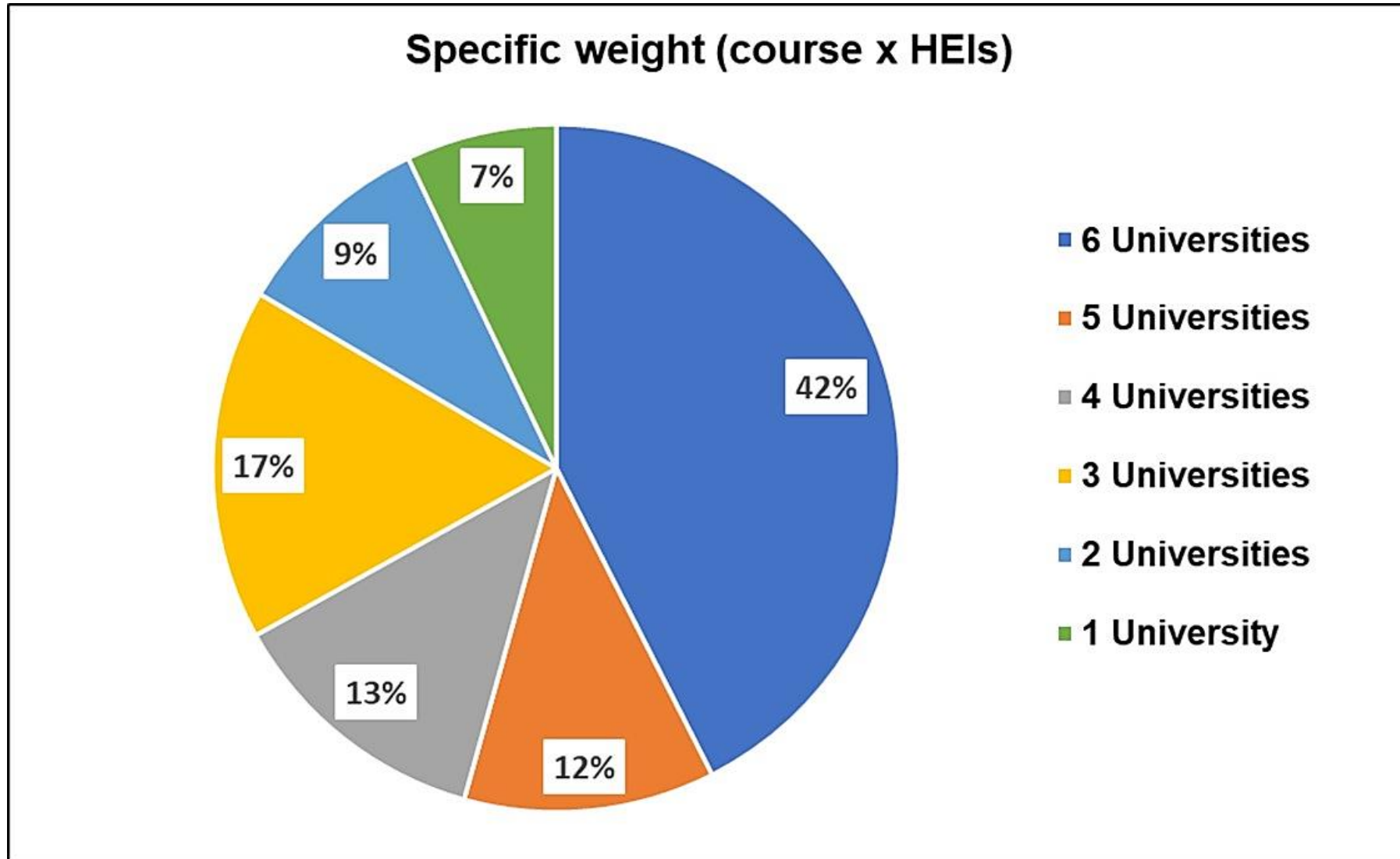
STEPS program(s) courses – Development & Harmonization – WP4

1 university

Course	Type	University					
		AUT	EUT	UC	UNBI	UNHZ	UNSA
Agri-food Economics	E						
Animal Food Technology Science	E						
Packaging Technology	E						
Project Cycle Management	E						
Quality and Sustainability of Plant-source Food Production	E						
Rural Development	E						
Sustainable Animal Production	E						
Sustainable Plant Production	E						
Waste and recycling technologies in agriculture	E						



STEPS program(s) courses – Development & Harmonization – WP4





What is the WP4? – STEPS development – Deliverables

- **Del. 4.1 – Development of LMS platform – – Completed (ReadLab)**
 - LMS platform – Open edX[®] – transferred to a subcontractor – platform maintenance (Albania)
- **Del. 4.2 – Development and harmonization of STEPS courses – UNSA**
 - Due date: 15/10/2020
- **Del. 4.3 – Conversion and digitisation of educational material – subcontract?**
 - Due date: 15/10/2020



Del. 4.2 – Development and harmonization of STEPS courses

- What do development and harmonization of STEPS courses exactly mean?
- Development and harmonization in the context of WP4 and WP2 deliverables:

**harmonized development of STEPS courses'
materials for their placement on the Open edX®**

???

- **Confirmation needed**



Del. 4.2 – Development and harmonization of STEPS courses

- If it is so...
- UNSA (WP4 – D.4.2 Lead Organization) to prepare and distribute to all HEIs in all PCs:
 - A **template** for transferring syllabuses of all courses into a formalized structure (the form + requested contents) that can be easily transferred on the LMS platform – **VLE Storyboard Template**
 - Two-section template:
 - **Course about section**
 - **Course content** (+ implementation + resources + ...) section – VLE Storyboard



Del. 4.2 – Development and harmonization of STEPS courses

- If it is so...
- Precondition: **all syllabi (WP2) at all HEIs produced**
- UNSA needs D.4.2 coordinators from each HEI (STEPS project coordinators?)
- **Distribution** of the WP4 – D.4.2 Template (**UNSA → HEI coordinators → course instructors**)
- **Collection** of developed STEPS courses:
 - Course instructor → HEI coordinator → UNSA → Open edX
 - Course instructor → UNSA → Open edX
 - **Course instructor → Open edX (preferable)**



Del. 4.2 – Development and harmonization of STEPS courses

- If Course instructor → Open edX scheme ...
 - All **course instructors – access to Open edX**
 - **Course development** by the **D.4.2 Template + Open edX Studio** (with edX Manual: "**Building and Running an edX Course**")
 - **Deadlines:**
 - WP4 Del. 4.2 (UNSA) - ??? – **15/01/2021**
 - Del. 4.2 Template distributed - ??? – **31/01/2021**
 - All STEPS courses placed on the Open edX - **???**



Del. 4.2 – Development and harmonization of STEPS courses

- **Open edX courses – questions, dilemmas:**
 - In the context of the approaches promoted by Del. 4.1 – **OER** (open educational resources) and **MOOC** (massive open online course) – would the **STEPS courses be publicly available?**
 - STEPS (programs) and **courses closed, semi-closed or open?**
 - **Open edX as a basic or accessory (repository) tool?**
 - All PC HEIs – primarily in class/in laboratory education/training (okay, Covid-19 changed somethings, but ...)
 - **Maintenance of the STEPS LMS (Open edX) platform** after completion of the STEPS project?
- **Digitization ??? – What is the plan?**

- **Sorry for having many questions but not enough answers ...**

- **Discussion ...**