

E³UDRES²

Engaged and Entrepreneurial European University as
Driver for European Smart and Sustainable Regions

5.2 2nd E³UDRES² Hackathon

Work Package 5

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Overview

Deliverable nr.	Deliverable name	Person responsible	Corresponding HEI
D 5.2	2nd E ³ UDRES ² Hackathon	WP5 members	MATE

Brief summary

On 13 and 14 October 2022, E³UDRES² hosted its second Hackathon titled “2nd International E³UDRES² Hackathon”. The hybrid event took place under the motto "Make your Europe & Make it Work" and strongly integrated local stakeholders of all E³UDRES² regions. Within the framework of the international hackathon, teams of students, interested employees of the universities participating in E³UDRES² or external persons were able to work on challenges for 36 hours, which were submitted by regional stakeholders. For six challenges 110 competitors applied and formed 15 teams at three hubs in Portugal, Belgium and Hungary. One team with the most promising solution was chosen by a jury as the winning team.

The 36-hour hybrid event was strongly advertised in advance via social media and also covered live on Teams.

Challenges

1. The challenges provided by universities are listed below in detail:

The university issuing the challenge	Challenge	Challenge owner
STPUAS: St. Pölten University of Applied Sciences	Sustainable Tourism for a Mountain Valley	N’Cyan
IPS: Polytechnic Institute of Setúbal	Add Value in Musculoskeletal Healthcare	Project SPLIT
MATE: Hungarian University of Agriculture and Life Sciences	Developing Sustainable Food Products	Medifood Ltd.
UCLL: University College Leuven Limburg	How might we design a booking platform for care on a European scale?	Book.care
UPT: Polytechnica University Timisoara	Digital Technologies and Advanced Manufacturing: Lack of innovation transfer to support open and collaborative innovation processes and entrepreneurship	Nokia Romania Timisoara
ViA: Vidzeme University of Applied Sciences	Development of Start-Up village	Valmiera Development Agency

2. Short description of the challenges:

Sustainable Tourism for a Mountain Valley

Tourism is the main source of the economic income of most mountain valleys in Austria. These Austrian regions are mainly well known for their top-quality winter tourism opportunities, like skiing or hiking. However, also summer tourism is important for these regions. The pandemic has hit this specific industry very hard, creating the need to protect the local population from subtraction. On top of that, climate change is starting to threaten the winter season. Austrian Alpine destinations need to re-think their strategies towards broader “touristic” offerings and all-year destinations.

Add Value in Musculoskeletal Healthcare

Project SPLIT intends to transfer to the market the knowledge developed by a team of researchers and clinicians. Focusing on the health condition that causes more disability in

users, both in Portugal and in the world, low back pain, SPLIT is defined as an integrated, interdisciplinary care program informed by the best available evidence that allowed a reduction of 80% in the probability that users will develop persistent and disabling (chronic) low back pain compared to usual care provided in primary care.

Developing Sustainable Food Products

Global food systems face dual challenges of increasing food demand while competing for resources such as land, water, and energy. The global production of food is responsible for a third of all greenhouse gases emitted by human activity, with livestock farming for meat production causing twice the pollution of producing plant-based foods. Thus we have to significantly decrease carbon footprint of agri-food supply chains. One way is to develop new food products with high nutrition content, low production costs, and low environmental impact. Alternative protein sources seem to be a good solution for that.

How might we design a booking platform for care on a European scale?

Since a few months, Geriatro.com is a successful online marketplace for respite care in senior living in the West of Flanders (Belgium). It provides recovery stays after hospitalization or illness for elderly people and supports families/ caretakers in need of a break. Soon after the launch, care providers outside of elderly care start asking if they could also offer their services on the Geriatro platform. Think of care facilities for people who are disabled, recovery resorts for people between 18 - 65 years old with for example a broken leg, meal care providers and so on.

Geriatro as a brand is a great fit in all European languages, but limited to (post-hospitalization) elderly care.

Digital Technologies and Advanced Manufacturing: Lack of innovation transfer to support open and collaborative innovation processes and entrepreneurship

There is still a critical mass of people that could benefit from enriching their innovation and entrepreneurship abilities - there are various financial resources and projects available, and they support partnership, networking, open and collaborative innovation, and knowledge transfer. There has been a huge increase of innovation activity at a country level according to the 2021 European Innovation Scoreboard, Romania having the status of Emergent Innovator.

Development of Start-Up village

One problem in start-up culture is that when a good idea is born, there is not always a good plan for implementation, development to business. Even when the idea owner has done a good job creating a business model or even a detailed business plan, often things fail due to lack of team or dedication of team members. This problem could be solved with a long-term vision and different approaches at different start-up development stages.

Hubs of Hackathon

Each University student could choose to participate online or on-site. There were three hubs, which were in Portugal, Belgium and Hungary. The table below shows how each university's student could participate at one of the hubs if they chose to participate on-site, depending on which university's students they were. From all of the participants, 102 joined on-site at one of the hubs, and 5 participants were involved online.

St. Pölten UAS (STPUAS)	Applicants participated at MATE, Hungary hub and participated online
Polytechnic Institute of Setúbal (IPS)	Applicants participated at IPS, Portugal hub and participated online
Hungarian University of Agriculture and Life Sciences (MATE)	Applicants participated at MATE, Hungary hub and participated online
Vidzeme UAS (VIA)	Applicants participated at UCLL, Belgium hub and participated online
Politehnica University Timisoara (UPT)	Applicants participated at MATE, Hungary hub and participated online
UC Leuven-Limburg UAS (UCLL)	Applicants participated at UCLL, Belgium hub and participated online

Evaluation

The opinions of the participants and organizers were also collected and will be presented in the annual report.

Dissemination

A report about the second International E³UDRES² Hackathon in the form of an aftermovie can be viewed here:

→ <https://youtu.be/8ONHVXC2Q0>