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OA5.4.1 – Sustainability Plan Report

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1. INTRODUCTION

LAPASSION (Latin-America Practices and Soft Skills for an Innovation Oriented Network) is a project from the program Erasmus+ within the line KA2 – Cooperation for innovation and the exchange of good practices – Capacity Building in the field of Higher Education (reference 585687-EPP-1-2017-1-PT-EPPKA2-CBHE-JP). It involves partners from Portugal, Finland, Spain, Brazil, Uruguay and Chile. LAPASSION consortium has as motivation to create a unique solution to address different problems affecting youth in HEI, helping students to obtain a better training in terms of innovation, soft skills, and internationalization. This solution is obtained by LAPASSION MP/I (Multidisciplinary Projects/Internships) for students' teams to help them to co-create, and co-develop projects proposed by enterprises and other organizations, or to accelerate innovative ideas in an international context involving students from several countries.

The aim of LAPASSION is to increase the innovation culture of HEI and the connection with Enterprises/Organizations (E/O) with impact in Employability, and Internationalization. This aim is pursued by implementing multidisciplinary projects/internships(MP/I) for co-creation, co-development and acceleration of innovative ideas, integrated in the educative project of the involved institutions. MP/I will be implemented by means of students' teams involving students with different backgrounds, different graduation levels, and from different countries, and solving challenges posed by E/O.

1.1 Consortium of LAPASSION

LAPASSION is a consortium with 15 partners, including 13 Higher Education Institutions (4 from Europe and 9 from Latin America), 1 Association of Enterprises from Portugal, and 1 Council of the Federal Institutes from Brazil. The list of the partners is the following:

- Polytechnic of Porto (IPP, Portugal)
- Tampere University of Applied Sciences (TAMK, Finland)
- University of Vigo (UVIGO, Spain)
- University of Salamanca (USAL, Spain)
- Federal Institute Riograndense (IFSUL, Brazil)
- Federal Institute of Triângulo Mineiro (IFTM, Brazil)
- Federal Institute of Goiás (IFG, Brazil)
- Federal Institute of Maranhão (IFMA, Brazil)
- Federal Institute of Amazonas (IFAM, Brazil)

University of the Republic of Uruguay (UDELAR, Uruguay)

Technological University of Uruguay (UTEC, Uruguay)

Foundation of Professional Institute (DUOC, Chile)

Catholic University of Chile (PUC, Chile)

Association of Enterprises of Portugal, Commerce and Industry Chamber (AEP, Portugal)

Council of Federal Institutes of Brazil (CONIF, Brazil)

IPP is the coordinator institution of the project.

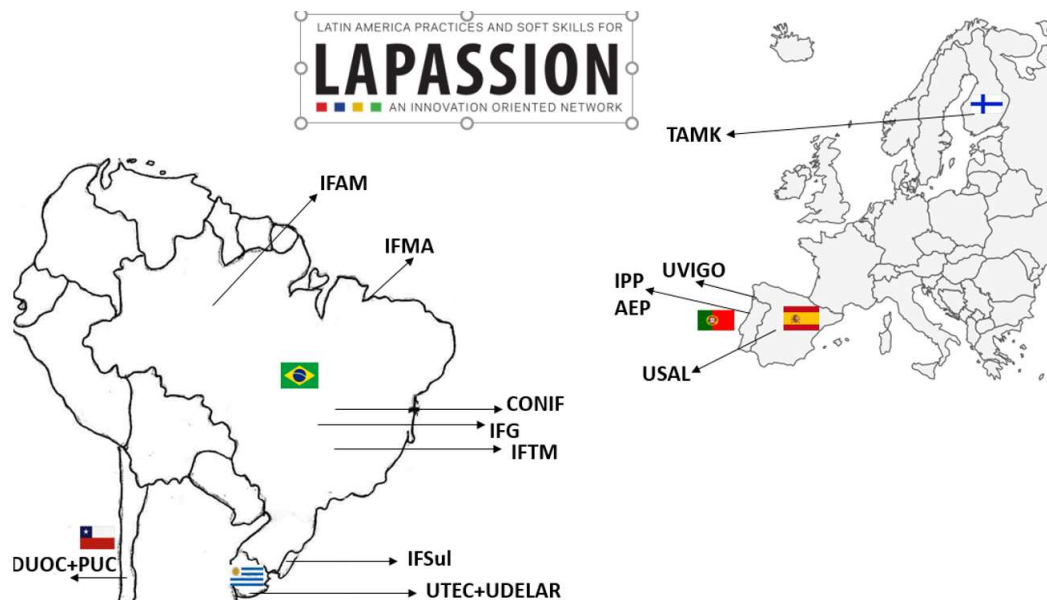


Figure 1 - LAPASSION partners in Latin America and Europe

1.2 Workpackages of LAPASSION

LAPASSION involves the following Workpackages:

WP1 – Preparation and Training for Multidisciplinary Projects/Internships (MP/I)

WP2 – Development of MP/I

WP3 –Quality Planning & Control (QP&C)

WP4 –Communication Plan, Dissemination and Exploitation Strategy

WP5 – Management

In the Work package WP5 – Management one of the important points is to guarantee the Sustainability of the project. In fact, with a funding of almost 1 M€ of EU, it is not expected that the practices developed during LAPASSION are simply forgot after the project. This was transmitted for all partners at the beginning of the project, and a common compromise was established to try to initiate the sustainability of the project still during LAPASSION execution, and without funding of

LAPASSION budget.

2. SUSTAINABILITY OF LAPASSION IS ALREADY A SUCCESS STORY

The aim of LAPASSION was to increase the innovation culture of HEI and the connection with Enterprises/Organizations (E/O) with impact in Employability, and Internationalization. This aim is pursued by implementing MP/I for co-creation, co-development and acceleration of innovative ideas, integrated in the educative project of the involved institutions. MP/I was implemented by means of students' teams involving students with different backgrounds, different graduation levels, and from different countries, and solving challenges posed by E/O. The sustainability of the project is currently ensured in Brazil, Chile, and Uruguay, and can be extended to other Latin-America countries, like Colombia.

In Brazil LAPASSION introduced the challenge-oriented projects, team working, multidisciplinary projects, user-centric, ideation, and Design Thinking, a complete set of new practices for HEI teachers and students. These practices impacted directly the 5 Federal Institutes that are in LAPASSION consortium, but other 10 Federal Institutes have sent students to LAPASSION projects. The Ministry of Education has decided to support a set of 143 IFMakers (FabLab-type spaces) for Federal Institutes (76 already supported) and LAPASSION-based projects will run in these spaces.



Figure 2 – LAPASSION was very important for the launching of IFMaker programme by the Ministry of Education of Brazil in which spaces for innovation and soft skills training are being created

The use of a IFMaker space to run a LAPASSION-inspired set of development projects was done in Itumbiara city, Goiás state, that organized a set of 4 multidisciplinary projects for students based in LAPASSION practices named BRAMPSSOL ().



Figure 3 – BRAMPSSOL joins several impacting projects in IFG, namely LAPASSION to give the soft skills input, but also IFMaker for the space, and ANEEL for the main challenge oriented for Energy Efficiency

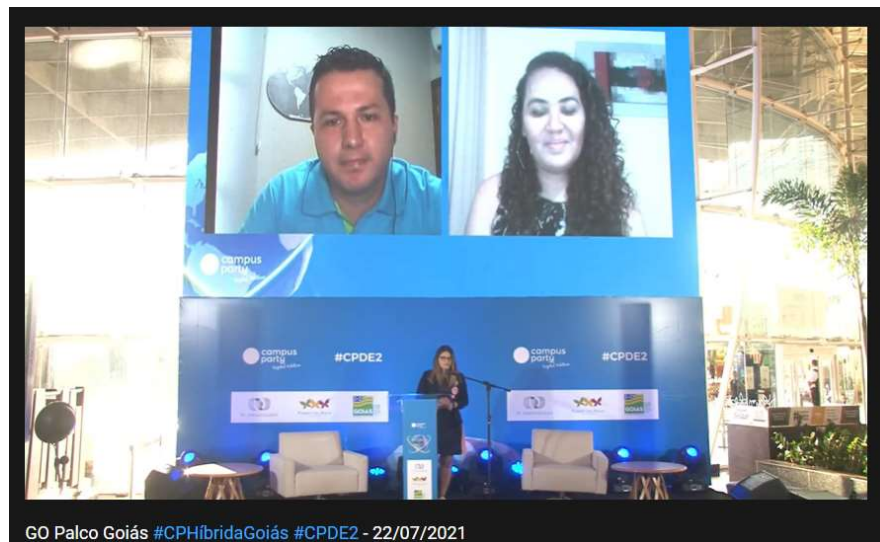


Figure 4 – After LAPASSION@Goiania IFG has started BRAMPSSOL in the city of Itumbiara, the project was developed in 2021 in IFMaker space and using practices trained during LAPASSION

EMBRAPII Poles (Brazilian Research & Innovation entities organization) are Science&Technology poles supported in HEI in Brazil to allow Universities to work close with the Enterprises and real problems of the Society. In 2020 it was decided to create 4 of these poles in the Federal Institutes of Brazil, and in many applications 3 of the successful proposals were made by Federal Institutes involved in LAPASSION (Federal Institutes of Amazonas, Goiás, and Triângulo Mineiro). The areas of actuation of these 3 EMBRAPII poles are related with the challenges launched in the LAPASSION projects for students.



Figure 5 –Jerônimo Rodrigues, Rector of IFG, actively involved in LAPASSION, in the official Ceremony of creation of the EMBRAPII pole in IFG, dedicated to Energy Technologies for Industry, Energy Efficiency was in LAPASSION students' teams challenge



Figure 6 – Dean of Uberaba campus of IFTM, in an interview for Globo channel MGTV, explaining the new EMBRAPII Pole installed in IFTM, and dedicated to Agrifood Solutions, LAPASSION@Uberaba was dedicated to Food for the Future



Figure 7 – Opening of IFAM EMBRAPII Pole of IFAM, dedicated to Sustainable Development and Industry 4.0, Sustainable Development of Amazonia was the main challenge of LAPASSION@Manaus

Federal Institutes of Maranhão (IFMA), Amazonas (IFAM) and Santa Catarina (IFSC) have funded fellowships of students to go to Porto to participate in three editions of LAPASSION in Porto. Erasmus+ CBHE just allowed the development projects for students to take place in Latin America, thus 42 students were funded by these three Federal Institutes to participate in LAPASSION-inspired projects.



Figure 8 – In 2018 ten students of the Federal Institute of Amazonas have been in Porto for developing Multidisciplinary projects, funding was given by FAPEMA the Foundation for Support to the Research of Amazonas state in Brazil

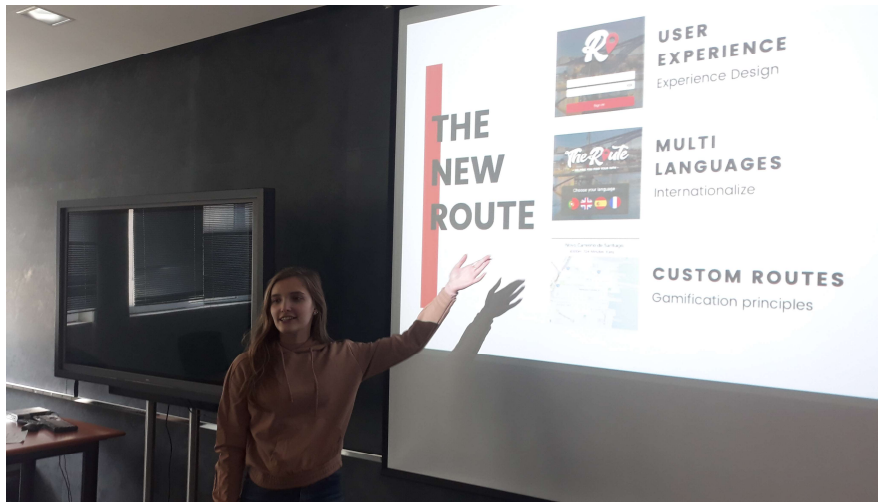


Figure 9 – A Student from Federal Institute of Santa Catarina in 2019 presenting a Project she has developed in Porto with students from the Federal Institute of Maranhão, and from IPP



Figure 10 – Students from Federal Institute of Maranhão in Porto in 2021 for developing projects with practices from LAPASSION

In Chile the complete coupling of a traditional and big University like PUC with DUOC, a HEI oriented for Professional training and practice, around the same international project is amazing. Students did not find any discontinuity between the project when using PUC DI-Lab or DUOC Design Factory. Brazilian and Uruguayan partners recognized LAPASSION@Santiago as a top edition of the set of Multidisciplinary projects for students, what is amazing, considering that this was the first edition,

and all partners learn a lot with PUC and DUOC cooperation. While PUC and DUOC have developed the first edition of LAPASSION projects for students in Santiago (LAPASSION@Santiago) with the involvement of Municipality entities as counterparts, the continuation of LAPASSION in Chile involved going to other cities (Concepción and Viña del Mar) and involving companies like Viña Ventisqueiro, Nestlé Chile, Agrosuper, Buin Zoo, Conservas Centauro, and North Star. DUOC and the Design Factories of Bogota and Cali, in Colombia (settled in Universidad Javeriana), have established an innovation course for students based in the practices of LAPASSION, 23 students (13 from DUOC and 10 from Colombia) have been involved. This is a clear extension of LAPASSION to another Latin-America country not involved in the project partners, and this was an excellent first step to go from countries funded by LAPASSION to other countries.



Figure 11– After LAPASSION@Santiago DUOC has developed Interdisciplinary projects for students basecon LAPASSION practices, for students from Santiago, Concepción and Viña del Mar and involving enterprises as counterparts



Figure 12– After LAPASSION@Santiago DUOC has started to cooperate with the 2 Design Factories of Universidad Javeriana in Colombia (Bogota and Cali) and developed a multidisciplinary set of projects with 13 students from DUOC and 10 from Colombia

In Uruguay, in a traditional University like UDELAR, LAPASSION motivated the development of Multidisciplinary projects involving students from different Programmes. Espacio Interdisciplinario

(Interdisciplinary Space) from UDELAR gained visibility in UDELAR, and now different Faculties are experiencing the benefits of Multidisciplinary projects for students. In new Universities, like UTEC, created at the end of 2012, LAPASSION was a great motivation for the cooperation University-Enterprise and for the internationalization of the institution. #INNOVA was created by UTEC and projects based in LAPASSION practices are being developed. Células de Innovación are students' teams, combining students from UTEC and other Universities, like UTU (Universidad del Trabajo de Uruguay). Up to now 4 editions of the Células de Innovación projects have been developed involving 94 students in 25 teams, a total of 24 Enterprises participated launching challenges for students' teams.



Figure 13 – With the know-how of developing LAPASSION projects for students UTEC has launched Células de Innovación, an initiative that joined students from Universities of Uruguay (UTEC, UDELAR, UTU) for LAPASSION-based projects with enterprises

3. CONCLUSIONS

One reason for the success of LAPASSION was that the Sustainability of the project was considered from the very beginning, in the first meeting of LAPASSION in João Pessoa, Brazil, in November 2017. Notice that the first action of activity not supported by LAPASSION budget happened in October 2018, when 10 students of IFAM have been in Porto for developing projects based in LAPASSION practices, the support was guaranteed by FAPEMA, the Agency that supports Research and Development in the state of Amazonas. Still in 2018, in the second semester, DUOC started with an Interdisciplinary course in Concepción and Viña del Mar in projects with challenges proposed by enterprises. A second edition happened in the first semester of 2019. Still in 2019 and 2020 UTEC launched a big program (Células de Innovación) inspired in LAPASSION and involving 94 students, in 25 projects with 24 enterprises. Several Federal Institutes of Brasil not involved in LAPASSION created fellowships for sending students to LAPASSION@SãoLuís in 2019, and for LAPASSION@Manaus and LAPASSION@Goiania in 2020. In 2019 15 students from IFMA and 5 from Federal Institute of Santa Catarina (that was not partner of LAPASSION) have been in Porto as well funded by these institutes. Covid Pandemic created problems for the continuation of these initiatives in presential mode in 2020, but DUOC launched an innovation course with students of Universidad Javeriana of Colombia

(Bogota, and Cali). And when the situation opened for intercontinental travels 12 students from IFMA were in Porto for another edition of LAPASSION inspired projects.

The main conclusion is that Sustainability needs to be considered from the beginning of the project.