



Challenge base, prototyping labs and awards



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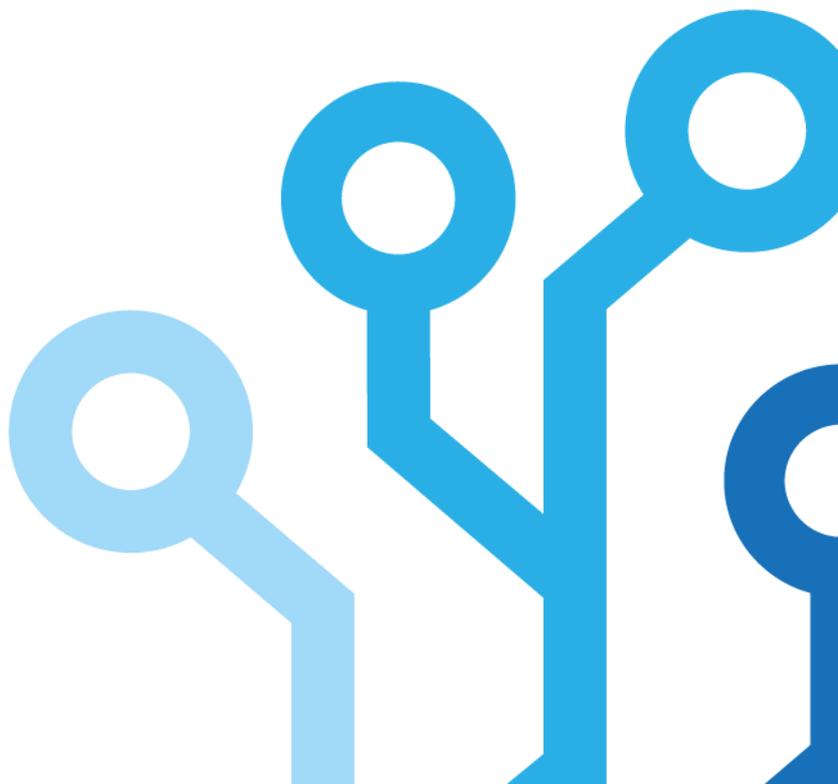


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1. Introduction

In the context of the ATHIKA course, the contents of the course have been developed and deployed in the ATHIKA platform. As the students are approaching to the end of the last Unit (Itinerary specific), a Workshop related to the discipline is celebrated and, also, the Competition is launched. The objective is preparing different challenges, following the ATHIKA challenge identification framework, to be solved by the students during their mobility. The prize for the winning teams is a 2 weeks Mobility in one of the companies of the Partnership.

This document gathers the information about the challenges proposed by the partners of the ATHIKA partnership in order to be solved by the ATHIKA students, the competition requirements and the mobility details.

2. Challenges proposed for the Mobility

The ATHIKA partners candidates to host students have prepared different challenges related to their expertise, listed here:

- **User-driven services and data-driven resource optimization in health and social care provisioning in urban environments [FTSS]**. Developed by FTSS, this challenge focuses on data integration of different issues. The objective of this scenario is to promote and facilitate user-driven services and data-driven resource optimization in health and social care provisioning in urban environments, for a more systemic approach of citizen's quality of life in urban settings (health, environment and emergency service coordination), focusing on the emergence of new data-driven services and business models.
- **Transport Planning in the cities 2050 [MCRIT]**. Developed by MCRIT, this scenario focuses on the impact of the transport in terms of Climate Change and Public Health. The transport sector is currently changing through several emerging technological innovations. The majority of today's trend studies assigns new technological developments a key role in the transformation process of the transport system. Whether it is about the reduction of CO2 emissions through optimization of combustion engines, the electrification of propulsion systems or the development of new battery technologies, all these developments and forecasted trends have a major potential to change the mobility system towards sustainability in the future.
- **A dynamic economy: resolving practical bottlenecks with AI in health [Pharmatics]**. Developed by Pharmatics, the aim of this exercise is to characterize driving forces influencing the development of AI-powered healthcare that are likely to be shared across the growth segments (issues) and stakeholders; and to develop hypothetical scenarios of how the development may unfold in 2020-30.
- **Data-driven services adaptation and optimization for a better aging [Technosens]**. Developed by Technosens, the objective of this scenario is to determine how IA and machine learning in combination with IoT devices can help better ageing at home with an ethical perspective.

3. Workshop, Competition and Mobility dynamics

In this section, the workshop, competition and mobility dynamics are shared for each of the Itineraries. Moreover, the Mobility details are depicted. During the Workshops hosted at the end of the ATHIKA course, a competition is launched. The objective of this competition is proposing a final challenge where the students will need to use all the knowledge and skills acquired during the course.

Workshop & Competition

During the first day of workshop, the Workshop agenda is presented. Also, the competition and mobility details are presented (**Competition presentation**). Experts from the field are invited to present and discuss trending topics of the eHealth sector. Moreover, the Academic Challenge (**Competition Challenge**) is presented by the sponsor (**Challenge presentation**) and the groups are prepared. During this first day, the groups have the chance to solve doubts with the sponsor and, also, have the support from the partners.

During the second day, the dynamics are kept and the groups work on the challenge with the partners' support. At the end of the day, the groups must share a preliminary version of their solution.

The final deadline for the delivery is 3 weeks since the Workshop finished. After the final delivery, the jury (experts from the partnership) decide which team wins each of the competitions (IoT, AI&ML, Gov&Ethics).

- IoTWorkshop: 28 & 29/April 2021
 - o Final challenge delivery: 16/May 2021
- AI&ML Workshop: 11 & 12/May 2021
 - o Final challenge delivery: 23/May 2021
- Gov&Ethics Workshop: 4 & 5/May 2021
 - o Final challenge delivery: 16/May 2021

Mobility

The process at this point is deciding how to distribute the students among the companies of the project and close the days. The final version of the coaching methodology and the documents to be filled are described in the D6.3 Final Report on Prototyping Labs.

- Mobility: From 5/JUL to 18/JUL 2021*

*Due to Covid, UWS students mobility: 11/OCT to 24/OCT 2021

4. Summary

The company partners have prepared challenges for the students during their mobility. During the ATHIKA course, the students have acquired knowledge and skills related to the eHealth sector. In order to close the course, an itinerary Workshop is held and the Competition is launched through the presentation of a final challenge. The jury decided who are the winners. The winners of each competition gain the rights to go

2 weeks to one of the companies of the consortium. The companies will prepare a Coaching Plan for the hosted students and it will be presented in the Students Symposium (D6.2).

