

## eCOURSE LAUNCHED AND PILOTED IN ONE REGION

IO No.	5	IO Title	Course Development
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# 1 Introduction

## 1.1 ALTAS Overview

Assistive Living Technology (ALT) helps people learn, communicate and live more independently. Assistive living technology is any product or service that maintains or improves the ability of individuals with disabilities or impairments communicate, learn and live independent, fulfilling and productive lives.

The ALTAS project addresses the shortfall of Assistive Living Technology (ALT) training courses for health and social care staff that will ultimately enable their clients and patients to benefit from smart solutions to live independently, self-care and improve their health and well-being.

## 1.2 Document purpose and objectives

O5 course development aim is to develop ALTAS course and its materials iteratively with the trainers based on the standards and in parallel with the assessment framework. Within output five, two main results should be achieved, ALTAS face-to-face course and its materials, and ALTAS e-Course. The e-Course should be launched and piloted in one region in order to evaluate it.

This deliverable collects all the information relative to the launching and piloting of ALTAS e-Course in one region of the participant countries.

## 1.3 Structure

This document is structured into four sections. The deliverable begins with the introduction, giving the overview of the project and document. Section 2 corresponds with the description of the launching process of ALTAS e-Course in the selected platform, after that, third section includes the description of the piloting process over the selected platform and region.

The deliverable finishes with a conclusion section about the work performed for this document and the process of launching and piloting the course.



## 2 ALTAS e-Course launching

Assistive Living Technologies in the field of Health and Social Care is not a new concept. Today, people live longer; therefore, the risk of living with long-term or chronic conditions becomes greater as people get older. In addition, pressures on health and social assistance providers to support people in their own homes or in local communities, has led to changes in the provision of care and in the promotion of the use of assistive technologies to promote independence and improve the results of care.

ALTAS eCourse was design and developed based on ALTAS main course, developed on intellectual Output 5, and included in deliverables:

- **O5-D1 Learning material**, that includes rationale, aim, learning outcomes, suggested content, learning methods, assessment method, reading list, on-line resources list and guidance for teachers/trainers; and,
- **O5-D2 Deployment materials** that corresponds with presentation slides and technical handbooks.

ALTAS eCourse adapted previous materials to an on-line context and Spanish framework, as it was planned to be launched in Valencian region, but maintaining main purpose and general concepts.

ALTAS course has been designed to improve and develop knowledge, skills and competencies of healthcare personnel that support people who can use or consider the use of assistive technologies to promote independence and improve their quality of lifetime.

ALTAS course is aimed at professionals in the field of socio-health care, with the objective of providing the knowledge, skills and abilities necessary for the adoption of assistive technologies in their usual practice, and specifically in its use in the support of dependents and with long-term pathologies. In the same way, it is intended to provide the confidence and capacity for the adoption of appropriate technologies to promote health and independence within a health and social care environment.

ALTAs eCourse maintains the previous objectives and learning outcomes, therefore, the course was structured into four modules plus a final exam:

1. Modulo 1. Introduction to ALTAS and definition
2. Module 2. Assistive Living Technologies
3. Module 3. Digital Literacy and ALT
4. Module 4. Barriers to ALT
5. Final course evaluation

As it was said, the eCourse should be piloted in one region in order to test and evaluate it, the region chose was Valencia, mainly because of Valencian partner, UPV, has its own e-Learning Platform UPV[X] that is also member of the prestigious platform edX. The selection of the region determine the language and context of the eCourse.



All lessons and materials associated were developed in Spanish as main target users of the course are low skilled in English, ALTAS consortium believes that eCourse could be better profit (guarantee maximum acquisition of competences and reduction of % of people that are not finally completing the course) if it is delivered in students' language. Full ALTAS course specification and implementation is included in deliverable IO5 – D4 – Contents and format for e-Course.

ALTAS e-Course was launched through UPV[X] platform on **19<sup>th</sup> June 2018 and will remain open until 31<sup>st</sup> of December 2018** (although statistics and results collected within this document reflect data until 31<sup>st</sup> of July 2018).

ALTAS course is available through the following link:

<https://www.upvx.es/courses/course-v1:MedicinaPreventivaYSaludPublica+altas1+2018-01/about>

🐦	👍	✉
📄 Código del curso	altas1	
📅 Inicio de las clases	Jun 19, 2018	

Figure 1 ALTAS e-Course about

Main page of the course (previous beginning date) included four sections:

- About: general information about the course, lessons, structure, etc.
- Learning outcomes: main learning outcomes for the course.
- Previous knowledge correctly following up the course.
- Course trainers' team.



### 3 ALTAS e-Course piloting

ALTAS e-Course was supposed to be launched and piloted in one region in order to test its purpose, content and methodology. Spain, and more concretely Valencia, was the region chosen for launching and piloting ALTAS e-Course. Pilot duration was between **19<sup>th</sup> June and 31<sup>st</sup> of July 2018**.

This supposed that, although the course is available worldwide as it is implemented through UPV[X] platform (accessible for everyone for free), partners from Valencia region recruited local staff in order to enrol and follow the course, so ALTAS team could control piloting.

The platform organises modules in different weeks, although all material was accessible from the beginning, following image shows the main page of the course with the different modules and lessons:

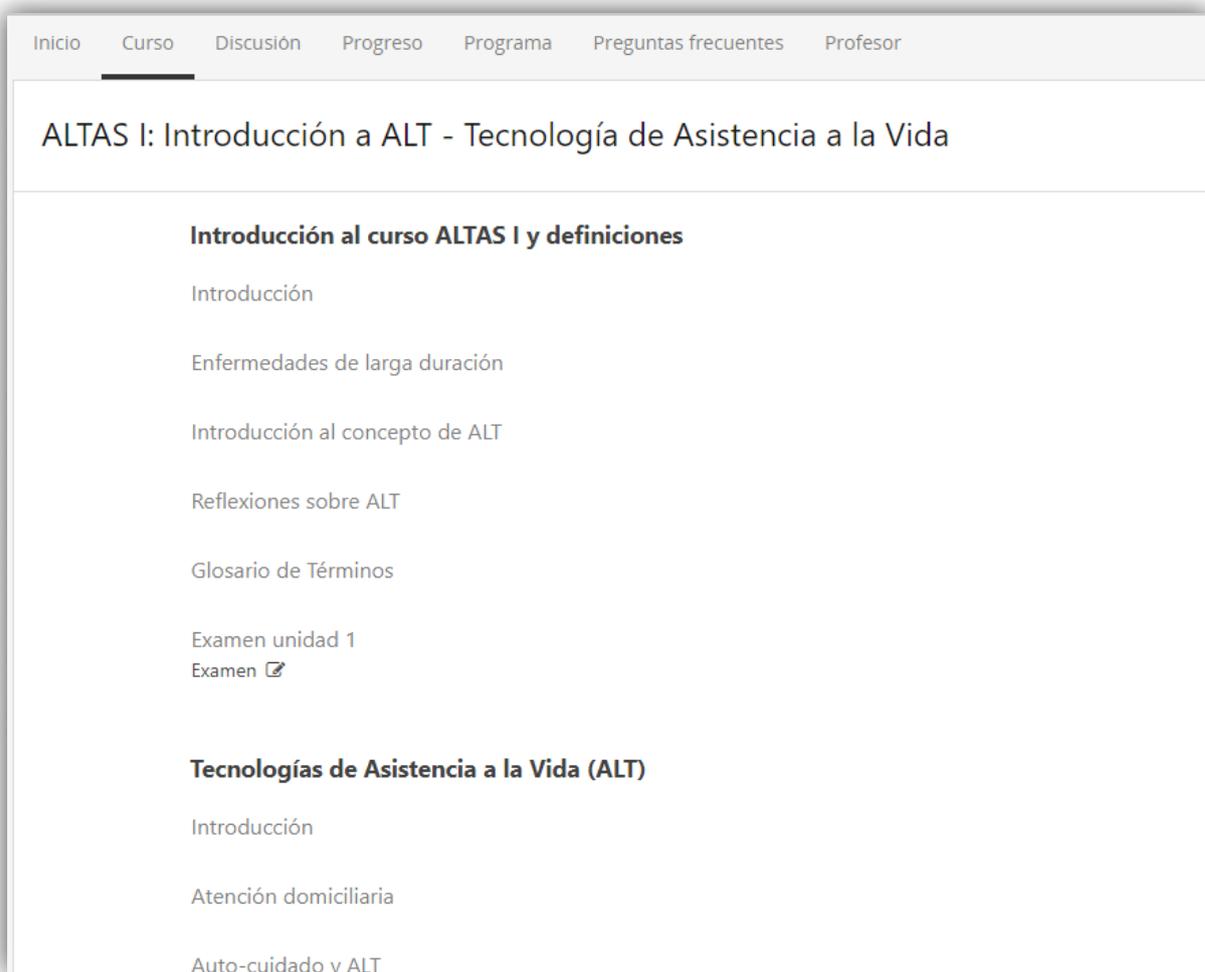


Figure 2 Organisation of the course

Course materials, power points, videos, pdfs, reading, links, etc. were also accessible for the students at any time:

**Today is Jul 27, 2018 12:33 CEST**

### **Apuntes del curso**

1. 0-1 Presentacion curso
2. 1-1 Introducción unidad 1
3. 1-2 Enfermedades de larga duración
4. 1-2 Servicios sociosanitarios. E-Inclusión
5. 1-3 Introducción al concepto de ALT
6. 1-3 Telemedicina I
7. 1-3 Telemedicina II
8. 1-4 Reflexiones sobre ALT
9. 1-4 Telecuidados una opcion efectiva y accesible
10. 1-5 Glosario de Términos
11. 2-1 Introducción a la unidad 2
12. 2-2 Atención domiciliaria y perosnas con diversidad funcional I
13. 2-2 Atención domiciliaria y perosnas con diversidad funcional II
14. 2-2 Informe centac
15. 2-3 Auto-cuidado y ALT
16. 2-4 Telemedicina III
17. 2-4 Sensores aplicados a la Telemedicina
18. 2-4 Domotica y vida independiente
19. 2-4 Clase Politécnica
20. 2-5 Ejemplos de uso de ALT

*Figure 3 Course materials*

Each lesson has its corresponding learning sequence:





Figure 4 Example of learning sequence

In addition, each module has its corresponding exam, plus a final exam:

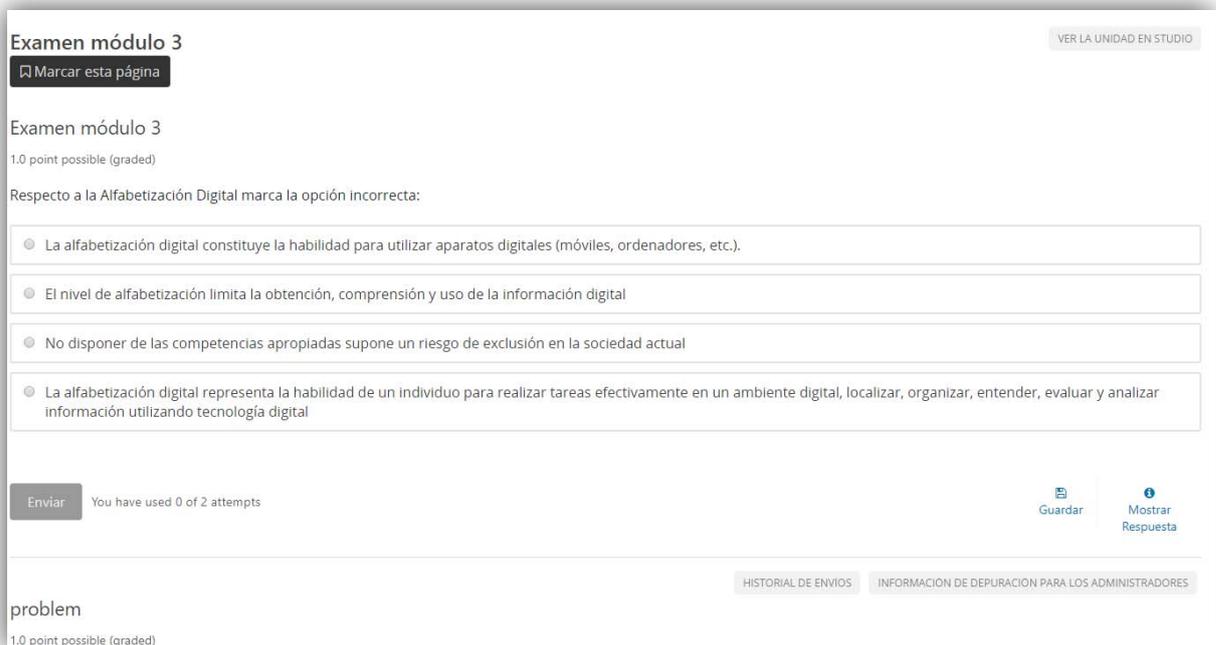


Figure 5 Example of exam

Final score was calculated using the score from all module exams and final exam as follows:

$$\text{Final score} = \text{Final exam} * 0.4 + \text{Average module exams} * 0.6$$

Students have a discussion blog to ask about technical issues as main as questions related with the content of the course, as a direct channel with professors.

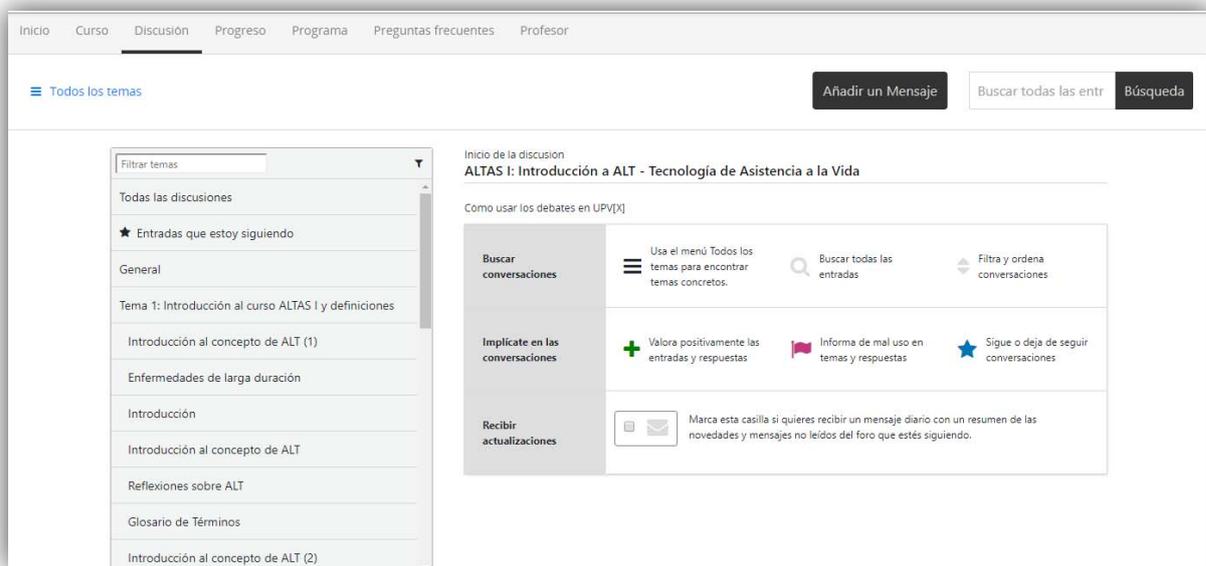


Figure 6 Discussion blog

Following data corresponds piloting period (collected at the end of the period, 31<sup>st</sup> of July of 2018).

#### General data:

- Total number of students enrolled in the course: 43 students
- Total number of students that finish: nine students.
- Finalisation rate: 20.9%. The envisage objective by the eCourse team was > 25% that was nearly achieved. Even so, the consortium thinks this is a very good rate as average finalisation rate for MOOC courses is 10%. Moreover, there were five students enrolled during the last 10 days of July, so they have no time for completing the course, for that reasons ALTAS eCourse team considered 20.9% as a good finalisation rate).
- Required technical maintenance: 0, this data shows the robustness of platform used for launching and piloting the course, UPV[X] Platform.

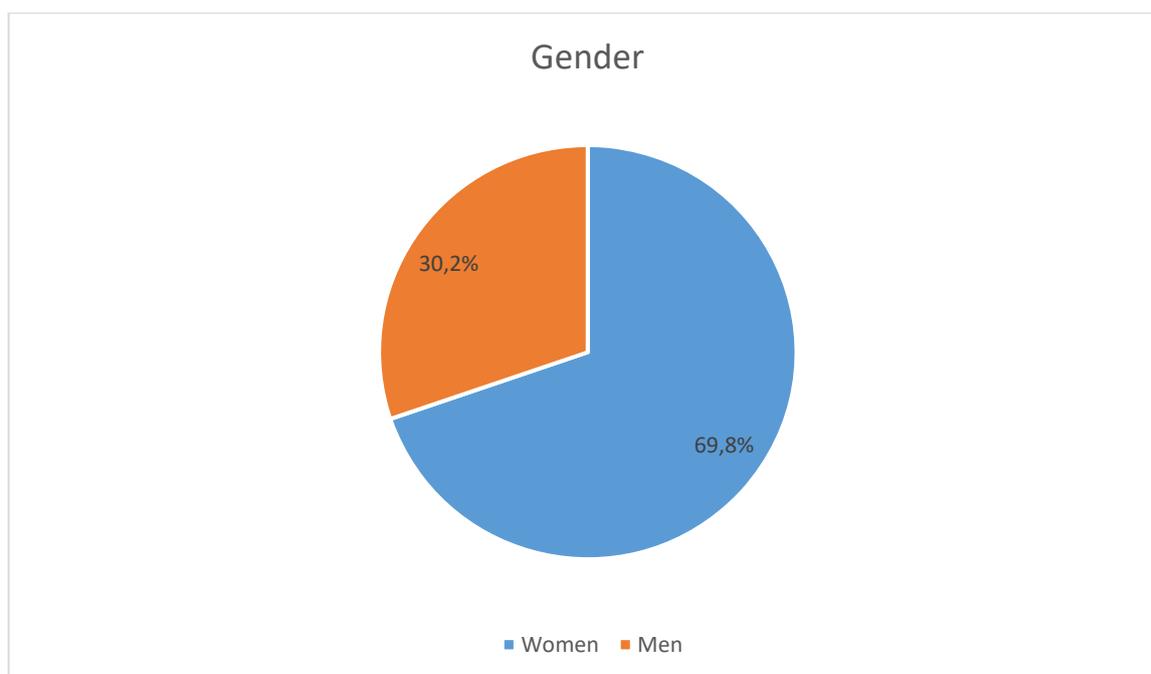
Concretely, 43 students (data form 31<sup>st</sup> July 2018) were recruited with following education profiles:

- Students form Social care worker degree
- Nursing assistant



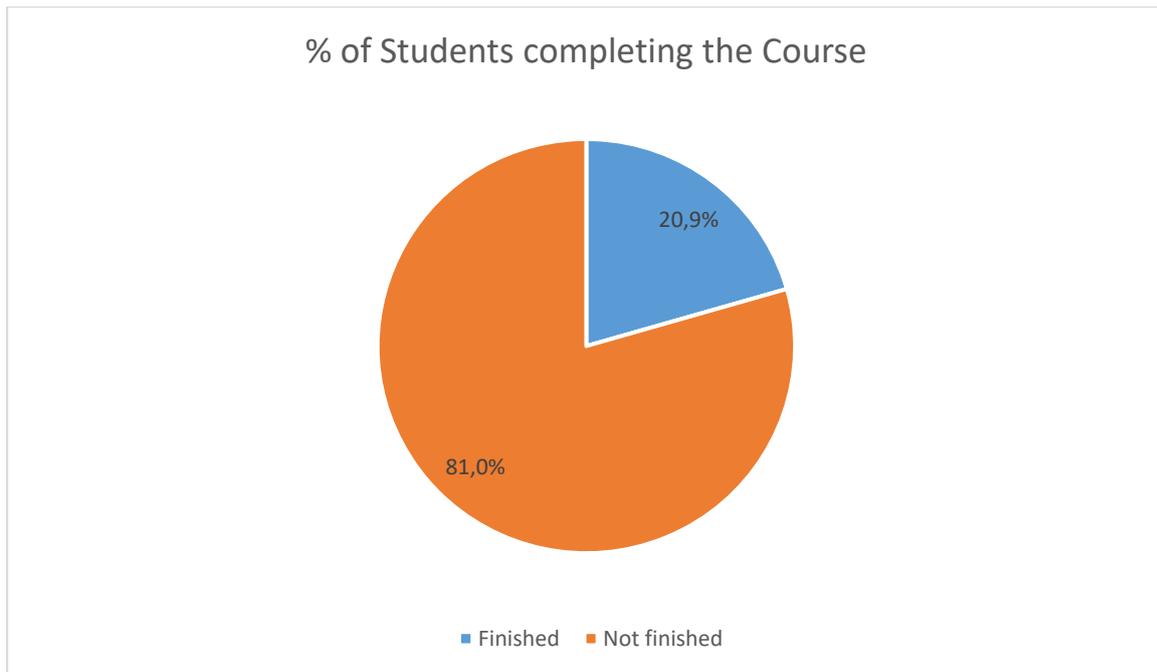
- Social care
- Professors from social care degree
- Students from social care professional certificates
- People with no education
- People who not specified their profile

Majority of students were women, as can be seen in the following image:



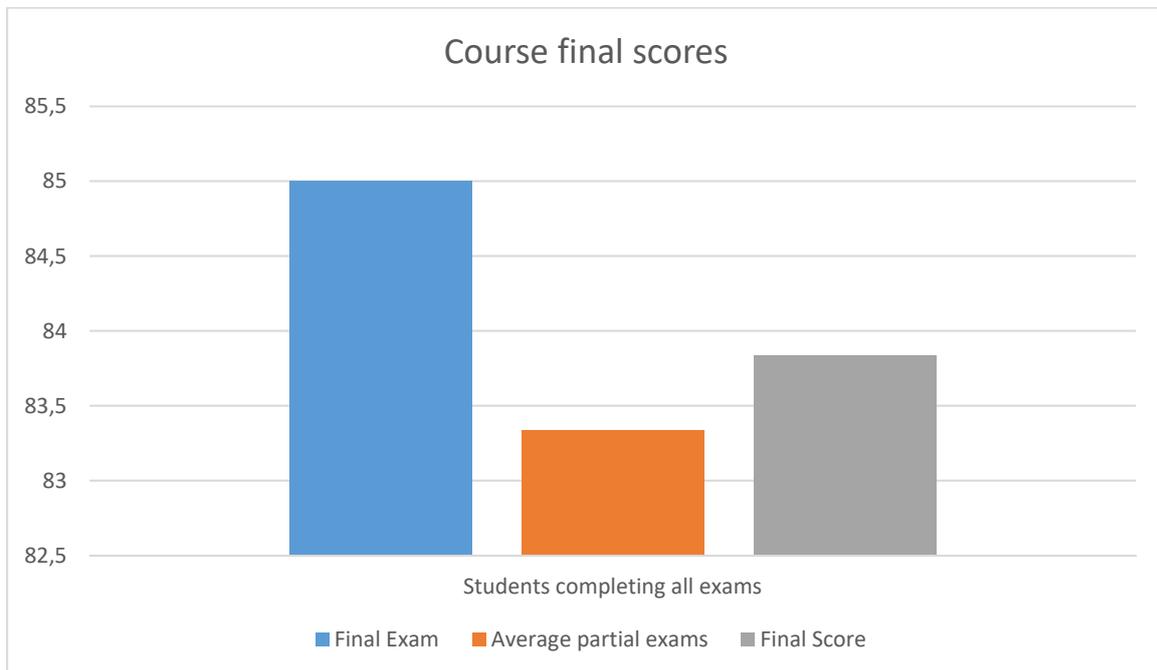
*Figure 7 Students distribution by gender in ALTAS eCourse*

From the total of enrolled students, at 31<sup>st</sup> of July 2018, 9 finished the course that supposed a 20% of the total students:



*Figure 8 % of students completing ALTAS eCourse*

From those students completing the course, next graphic shows scores from final exam, average from units' exams and total score of the course. These results show that students completing the course have acquire a very good rate of knowledge:



*Figure 9 Course scores from students completing all exams*



## 4 Conclusions

ALTAS eCourse was launched and piloted through UPV[X] MOOCs Platform during 6 weeks (from 19<sup>th</sup> June, 2018 until 31<sup>st</sup> July, 2018). During these 6 weeks 43 were enrolled and followed the course, although only 9 students completed the whole course (at 31<sup>st</sup> of July). This has supposed a 20.9% finalisation rate, this data is under ALTAS objective of 25%, but it is a considerably good data, moreover considering average finalisation rates for MOOCs are around 10%.

Profiles from enrolled students came from different sectors, but always related with social care environment and matching with ALTAS target users.

It is remarkable that number of enrolled students continued growing after piloting period, reflecting the good acceptance of the ALTAS eCourse and supporting eCourse developing team decision of keep the course active until the end of 2018. This will give the opportunity to finish the course to those who had no enough time, and having new students during these months.

### 4.1 Next Steps

As it has said, the idea is course remains open until 31<sup>st</sup> December, 2018; during that period feedback from students will be collected in order to correct some issues, mostly related with the re-recording of some videos, in order to include ALTAS eCourse into edX Platform, one of the most popular MOOCs platform nowadays.

ALTAS team believes that edX could be a perfect way to widely spread project results, mainly the eCourse, so main next step will be adapt ALTAS content to edX platform requirements.

Most ALTAS eCourse videos were recorded as screencast (without showing professor “image”, only her/his voice), but edX developing rules established that all videos have to show professor “teaching” the lesson. This would supposed an affordable work, so eCourse team will try to carry out.

Other possible next step would be translate eCourse into other languages, making the course available to other countries audiences.

