



Knowledge Alliance in Air Transport

With the support of the Erasmus+ programme of the European Union



Launching Conference

University Politehnica of Bucharest

26th of January 2018





*Opening speeches and project presentation.
Partners interventions.
55 participants.*



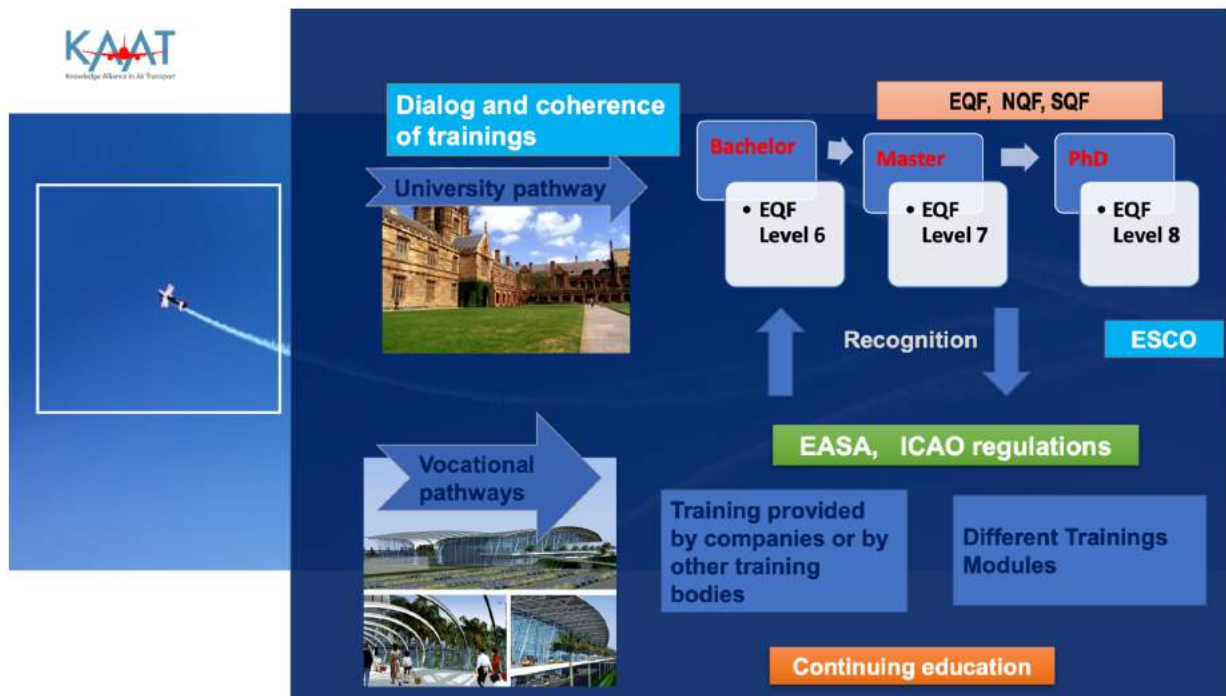


- 1 Occupational analysis in air transport
- 2 Qualification analysis in air transport
- 3 New innovative study program "IT applied in aviation"
- 4 Methodology for Sectorial Qualification Framework (SQF) (tool for recognition of prior learning and work experience in aviation)
- 5 European Network for Aviation Training and Education (ENATE)

Attending the ACI Europe Leadership and Human Resources Forum

Athens, Greece

7th to 19th of May 2018



Presentation of some ideas from Report on Qualifications in Air Transport, an opportunity to interact with other relevant stakeholders involved in managing airports, to IT in aviation and to establishing contacts for the deployment of master ITAA.

The impact was on approximative 30 participants from 15 countries.

AIR TRANSPORT LABOUR MARKET

- The air transport industry has a very **'mobile' labour market** and is increasingly relying on **higher skills levels**;
- **Globalization** implies **interdisciplinarity** and this requires **professional competencies** and **transversal competencies** capable of ensuring maximum of job efficiency.
- Qualifications offered by the university programmes **do not fully cover the specific requirements of the air transport industry labour market**.



Attending the ICAO EMEA Summit Aviation

Bucharest, Romania

8th of May 2018

EDUCATION AND TRAINING

- The air transport sector:
 - a highly **regulated** sector,
 - including very **particular training** institutions,
 - comprises a **wide diversity of regulated occupations** which involve **specific training** and award of licenses,
 - comprises a wide **diversity of non-regulated occupations** which involve specific training but without licenses



The project was presented, it was discussed the development of a national strategy for NGAP, coordination and collaboration between government, education, labour and industry to engage and retain the next generation of aviation professionals.

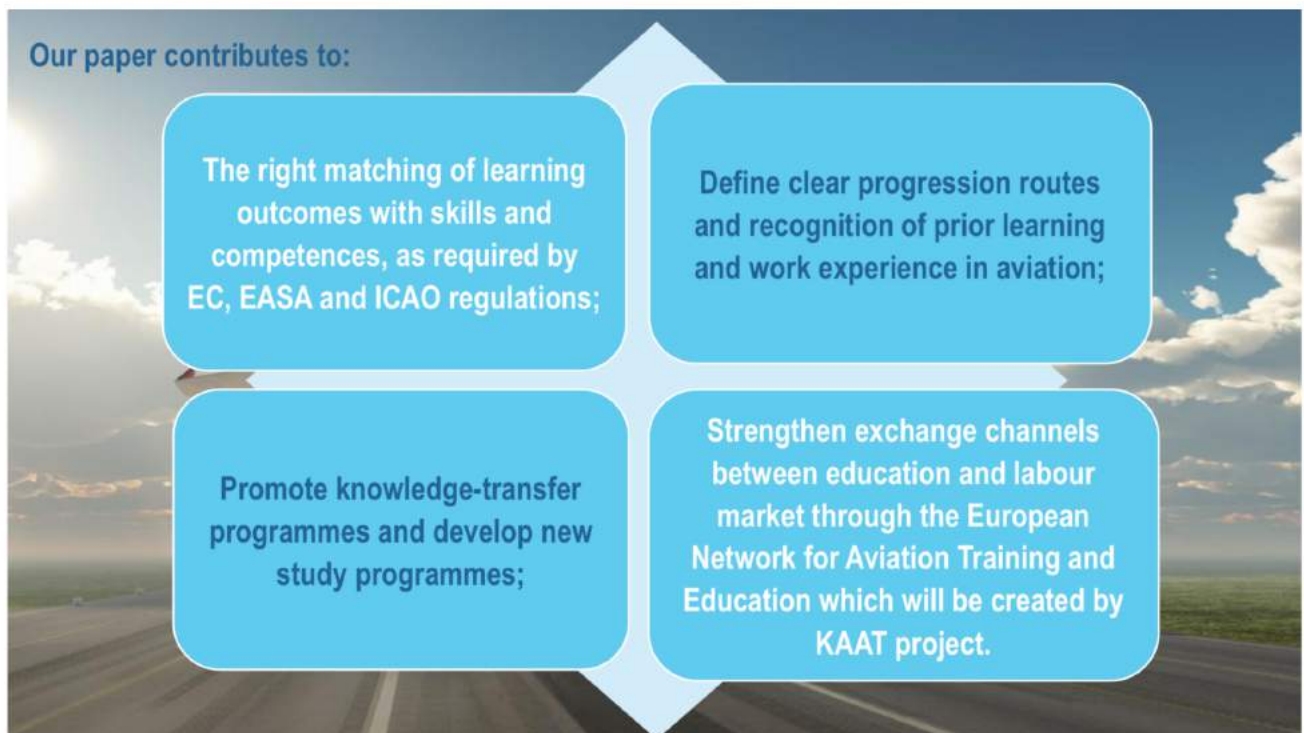
The impact was on approximative 100 participants.



Edulearn - Palma de Mallorca

Palma de Mallorca, Spain

2nd to 4th of May 2018



Was presented the paper "Better partnerships for better skills and employability in air transport". The paper highlights some of the preliminary results of the occupations and qualifications reports in the KAAT project.

The impact was on almost 800 delegates from 80 different countries.



WORKSHOP “Smart qualification for smart air transport occupations”

Lisbon, Portugal

10th of July 2018



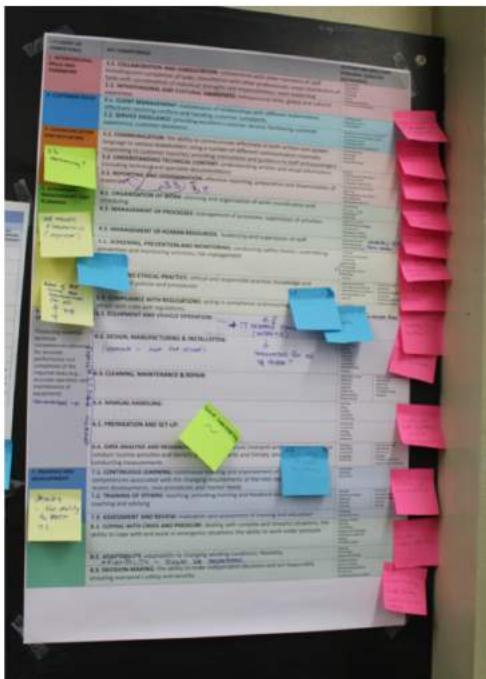
The workshop aimed to discuss the match between occupations and qualifications in air transport. Key representatives from airlines companies, airports, handling and air traffic management gave their contributions and interventions to improve the project's outputs. The workshop included, besides the project partners, 13 external stakeholders.



Steering Comitee 2

Lisbon, Portugal

11th of July 2018



The workshop held in Lisbon was a step in achieving the main objectives of identifying new occupations in air transport and new qualifications and learning outcomes to be provided by study programmes. The workshop reunited several types of companies grouped in working group dedicated to specific occupations and qualifications on airports, air companies, air traffic control and handling. The outputs of working groups were used for improvement of Qualification.



11th ACI EUROPE Leadership and HR Forum

Vienna, Austria

17th to 20th of July 2018



Preparation of common meeting ACI EUROPE – KAAT Project for May 2019 in Iași, Romania



The 6th International Conference RMEE2018

Cluj-Napoca, Romania

20th to 22nd of September 2018

Technological revolution in the airport sector

- Robotics in physical processing used for passenger facilitation
- Self-service capabilities
- Block-chain technologies
- IOT platforms
- Efficient security processes

Goal:

- Optimize the airport operations and technology infrastructure
- Enhance process efficiency
- Improve the passenger journey

The paper "New trends in airport management" was presented during the 6th International Conference RMEE2018 (Review of Management and Economic Engineering) Performance Management or Management Performance.

One of the points raised in the paper refers to the human resource aspects regarding the future occupations and qualifications in the aviation industry that are further elaborated in the KAAT report regarding occupations and qualifications.

WP3 Objectives

CREATION AND IMPLEMENTATION OF A NEW INNOVATIVE STUDY PROGRAMME : **IT APPLIED IN AIR TRANSPORT**

- 140 students enrolled in 7 universities.
- 15 trained teachers.
- A new up to date qualification
- Modern curricula developed and implemented in participating universities.
- Innovative teaching materials for new programme

Conference “Erasmus+ in higher education: a step beyond mobility”

Bucharest, Romania

11th of October 2018

REPORT ON **OCCUPATIONS** IN AIR TRANSPORT



1. INTRODUCTION (scope, structure, definitions, methodology)
2. SECTORIAL BREAKDOWN OF CURRENT AND EMERGING OCCUPATIONS IN THE AVIATION SECTOR
 1. Classification of the occupations
 2. Competences framework
 3. Description of 120 occupations in term of tasks, competences and expected learning outcomes.
3. RESULTS
 1. Current occupations in the aviation sector
 2. Emerging and future occupations in the aviation sector
 - **Key knowledge, skills and competences**
 - **Education and training**
4. CONCLUSIONS AND NEXT STEPS

Airport missions: Ensure Safety First, Optimize Services, and Achieve Normal Flight Operations

AAR - Iasi 2018



Shorten incident response time and improve collaborative emergency response capabilities



Cut aircraft turnaround time



Minimize passengers' time at customs and security checks to increase shopping/meal time

Big Data



AI

Video



IoT

Cloud Computing



Mobility

Continuous innovation in technology

New trends in AM

6th Conference and General Assembly of the Romanian Airport Association (RAA)

Iasi, Romania

1st to 2nd of November 2018



New trends in airport
management

Prof. dr. Sorin Eugen ZAHARIA

Director of UNESCO Chair "Engineering for
Society" University POLITEHNICA of Bucharest

The main findings of the Qualifications report were presented at this conference. At the conference sessions were invited the representatives of state institutions with aviation safety and security responsibilities, general managers from airports, airlines, handling companies, air traffic companies from all categories and specialists from aviation industry in the country and abroad. Impact was on 300 participants and stakeholders of aviation from Romania, others then countries and others representatives bodies (IATA).

SEEB Logistics

Zagreb, Croatia

5th November 2018



The conference brought together more than 50 renowned participants from government, education, science, economics and public entities in the South East Europe region, who discussed the state and challenges of developmental change in logistics and supply chains. There, UPB and Faculty of Transport and Traffic Sciences had two presentation of the KAAT project and cooperation between academia and industry.

Cooperation - Associate Partners

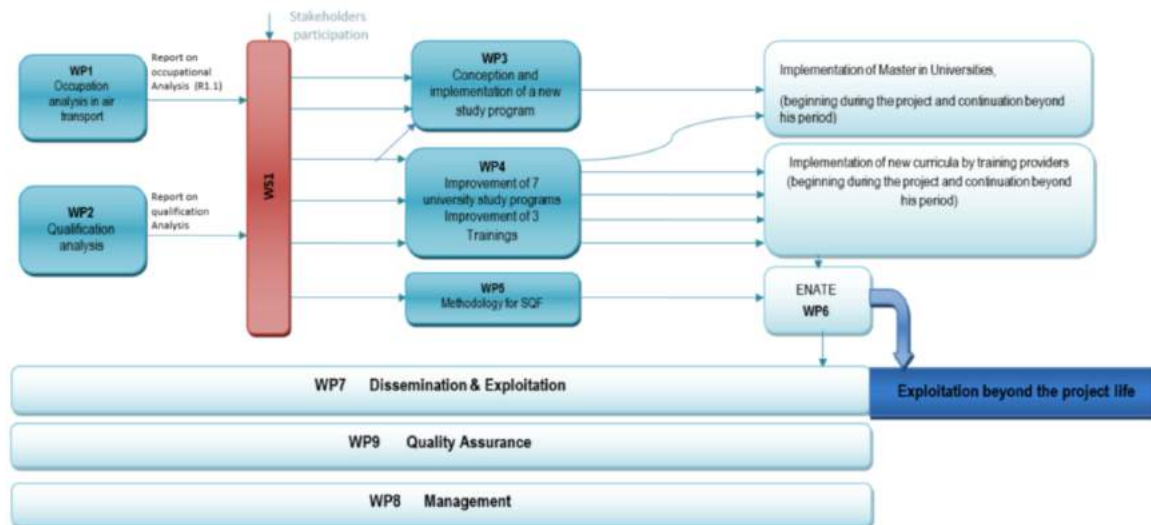


INAIR

Hainburg an der Donau, Austria

20th to 21st of November 2018

STRUCTURE OF WP



Prof. Sorin Eugen Zaharia, from the University Politehnica Bucharest, presented the paper "Challenges in airport digital" focused on the skills and competences necessary for the new generation of students for challenges of the airport digitalization.

Antonin Kazda from University Zilina held the presentation entitled "Airport disruption - risk analysis for airports" highlighting the importance of preparing for the future, including the personnel aspects. The INAIR conference is a forum in which industry and academia meet to exchange their ideas.



Steering Committee 3

Zagreb, Croatia

13th to 14th of December 2018



At Steering Committee 3 (SC3), the main topics were:

- Approval of the final version of the two reports (WP1 & WP2)
- Discussions regarding the progress of WP3 – Conception and implementation of a new innovative study program „IT applied in air transport”
- Individual discussions with each partner on their progress regarding the supporting documents for the interim report
- Working plan and discussions on WP5
- Progress on WP7
- Evaluation and questionnaires for WP10
- Closing remarks & Next activities

At SC3 there were 24 persons from 15 partners.

Some of the project results



- ☐ Report on occupational analysis in air transport industry
- ☐ Report on qualifications analysis in air transport industry
- ☐ Improvement of university study programmes and of adult trainings
- ☐ Implementation of a new master programme ***"IT Applied in Aviation"***
- ☐ Elaboration of the Methodology for Sectorial Qualification Framework (SQF) and recognition of prior learning and work experience in aviation
- ☐ Establishment of European Network for Aviation Training and Education (ENATE)

CEDEFOP



Thessaloniki, Greece

22nd November 2018



The visit offered the occasion for a detailed discussion regarding the most salient results of the KAAT the "Report on Occupational Analysis in Air Transport Industry" and the "Report on Qualifications in Air Transport", which were appreciated as relevant information. The new study programmes organized by the UNESCO Chair at UPB, one of them as a direct result of the KAAT project, namely "IT Applied in Aviation" generated a lot of enthusiasm from the CEDEFOP representatives who expressed their interest in updates. During the meeting, representatives of CEDEFOP and KAAT found common relevant topics and created the basis for furthered collaborations among the two teams.



Polifest

Bucharest Romania

11th-13th April 2019



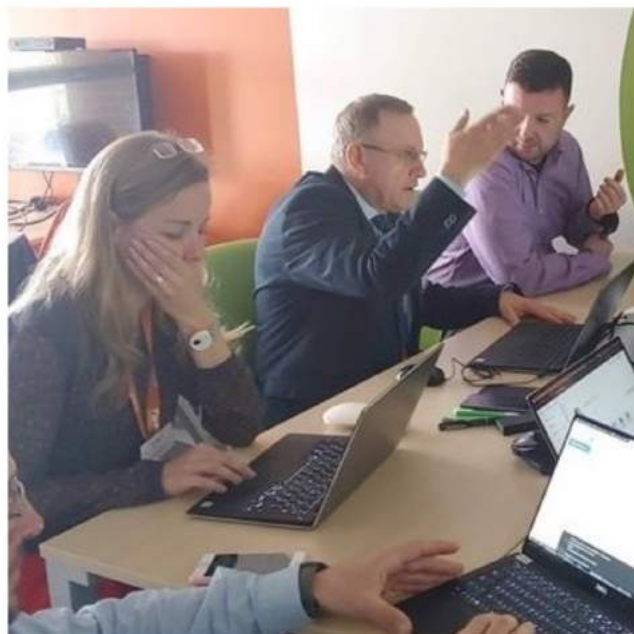
The event was dedicated to collaboration between the academic and socio-economic environment and the largest fair for presenting the educational offer of university have promoted the ITAA Master's Program to interested people. The impact was on more than 1000 visitors and especially 85 persons from higher education, aeronautical field or students interested in master ITAA.



E-Learning Week

Albi, France

14th-19th April 2019



The e-learning session organized at the Ecole de Mines d'Albi was not only a learning mobility but also an important moment of dissemination. During mobility, the KAAT project was presented to representatives of universities and others representatives of airports dedicated to supporting education.

In this week, the participants had the opportunity to attend presentations, conferences and workshops, delivered by specialists in various fields. In fact, this event represents a significant way to reach one important objective of KAAT projects, which is fostering innovation in air transport by developing new and multidisciplinary approaches to teaching and facilitating the exchange, flow and co-creation of knowledge.

The purpose of the week was to gather the Higher Educations Institutions that are partners in the KAAT project and improve the curriculum and organization of the master programme "IT Applied in Aviation". This event aimed to allow participants to discover the different tools, techniques and pedagogical means useful and necessary in the development of e-learning training.



12th ACI Europe Leadership and HR Forum

Iasi, Romania

5th-7th May 2019



In this event, was given the possibility to disseminate the KAAT Project, since some partners joined the discussion of the ACI forum, disseminating the currently most salient results of the project: "Report on Occupational Analysis in Air Transport Industry" and the "Report on Qualifications in Air Transport". In addition, The ACI members acknowledged with great interest another results of the KAAT project: the new master program "IT Applied in Aviation" that is scheduled to be launched at UPB and other 2 universities this fall. The impact followed is on human resources specialists from European airports and ACI HR & Leadership forum will create a new working group on education within it. At this event was present almost 50 persons from human resources specialists from European airports and specialist from universities.



Steering Committee 4

Rome, Italy

9th-10th October 2019



Presentation of SQF and Recognition of Prior Learning Methodologies, debates, feedback and remarks within KAAT consortium.

Information, analysis and discussions about the EACEA assessment of the Interim Report.

Information, analysis, discussions and updates about the progress of WP3, WP4, WP7, WP9, WP10. Preliminary discussions and planning regarding the establishment of ENATE (WP6).



International Conference: Air Transport Qualifications in the 21st Century

Rome, Italy

11th of October 2019



Presentation of SQF and Recognition of Prior Learning Methodologies, debates, feedback and workshops within KAAT consortium.