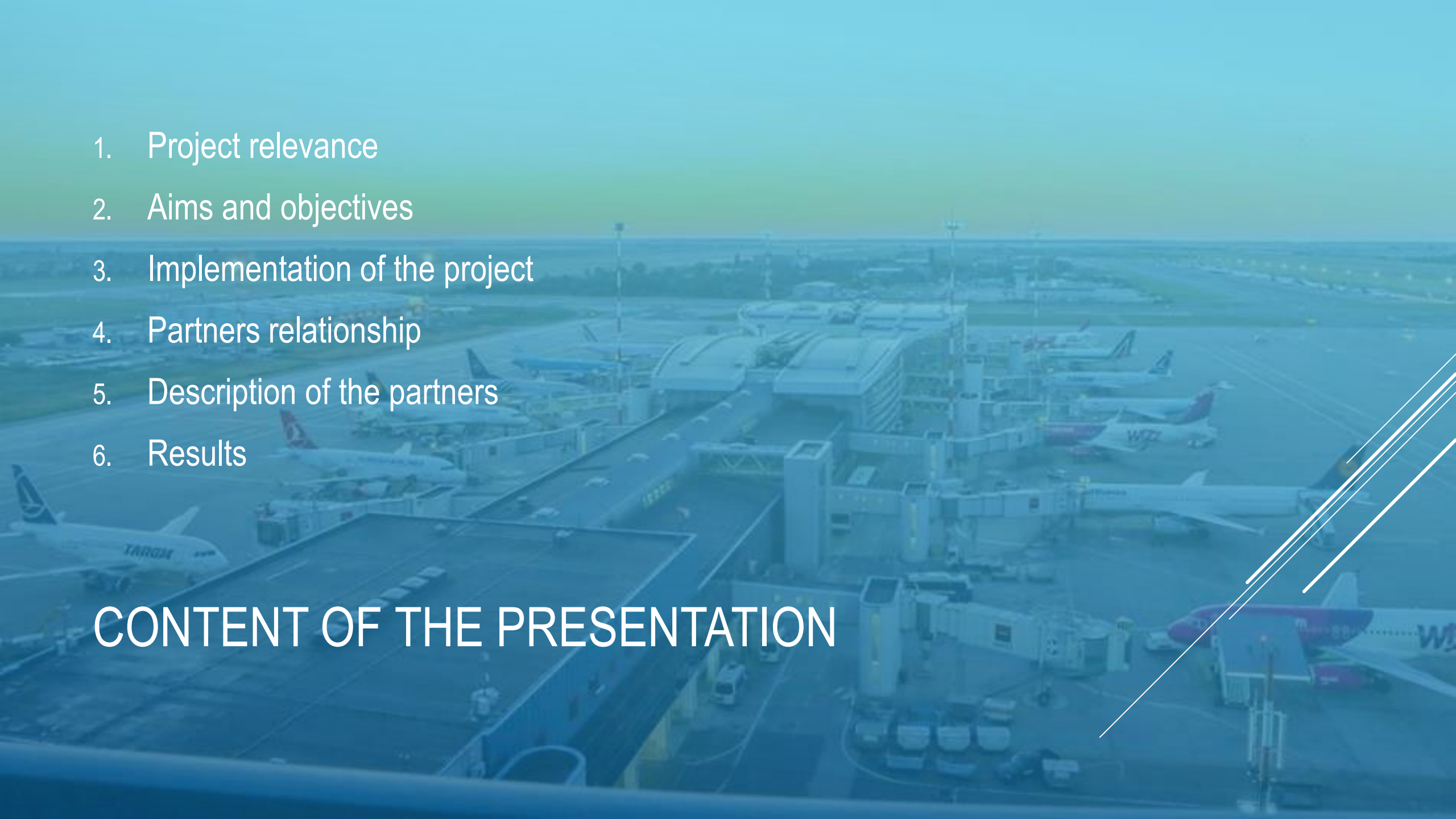




KNOWLEDGE ALLIANCE IN AIR TRANSPORT (KAAT)

- **Project leader :**
University “Politehnica” of Bucharest
- **Project manager:**
Sorin Eugen Zaharia

{sorin.zaharia@gmail.com }

- 
1. Project relevance
 2. Aims and objectives
 3. Implementation of the project
 4. Partners relationship
 5. Description of the partners
 6. Results

CONTENT OF THE PRESENTATION



1. PROJECT RELEVANCE

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

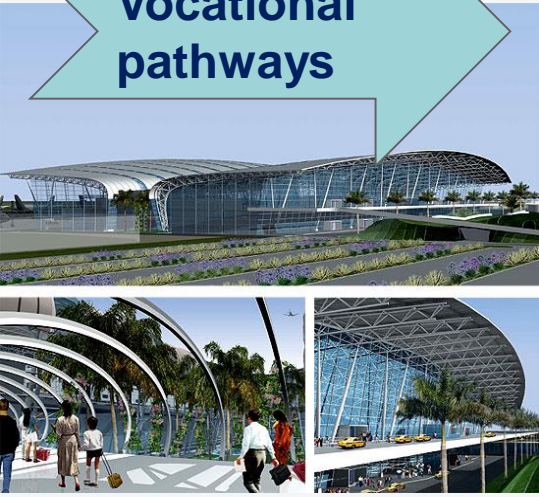


Dialog and coherence of trainings

University pathway



Vocational pathways



EQF, NQF, SQF



ESCO

EASA, ICAO regulations

Training provided by companies or by other training bodies

Different Trainings Modules

Continuing education



Recognition and compliance

- **Dialogue between universities, trainers and employers** is crucial in order to **enhance coherence** of training in the air transport industry.
- Ensuring **compliance between EC tools and air transport regulations**.
- The **joint development of tools defining learning outcomes** for each training level, such as National Qualifications Framework (NQF), Sectoral Qualifications Framework (SQF) or other specific systems such as those used by Eurocontrol, Competence Based Assessment System (CBAS), EASA or ICAO.



Increase flexibility of learning pathways at European level

Learning outcomes is a tool for flexibility and a common measure for the level of knowledge and competences which should :

- Reflect a **clear evolution** of the individual professional capacity;
- Ensure **the increase of knowledge and skills** development for bringing **added value** to the learning process ;
- Foster the **link** between different training providers;
- Ensure the **recognition** between the 2 pathways;
- Enhance **employability** of competent graduates.



2 AIR TRANSPORT LABOUR MARKET

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





2. NEEDS AND OBJECTIVES

Needs

Objectives

A better qualified workforce

- Ensuring a **high quality workforce** by **the improvement of level of learning outcomes** with particular regard to their relevance for the labour market

Modernisation of curricula and an innovative and multidisciplinary approaches

- Fostering innovation, new, innovative and multidisciplinary approaches to teaching and learning and facilitating the exchange, flow and co-creation of knowledge.

A much better link between occupations and qualifications

- **The improvement of transparency and of recognition tools** for HE and VET for ensuring a cohesive and flexible professional pathways through transnational cooperation.

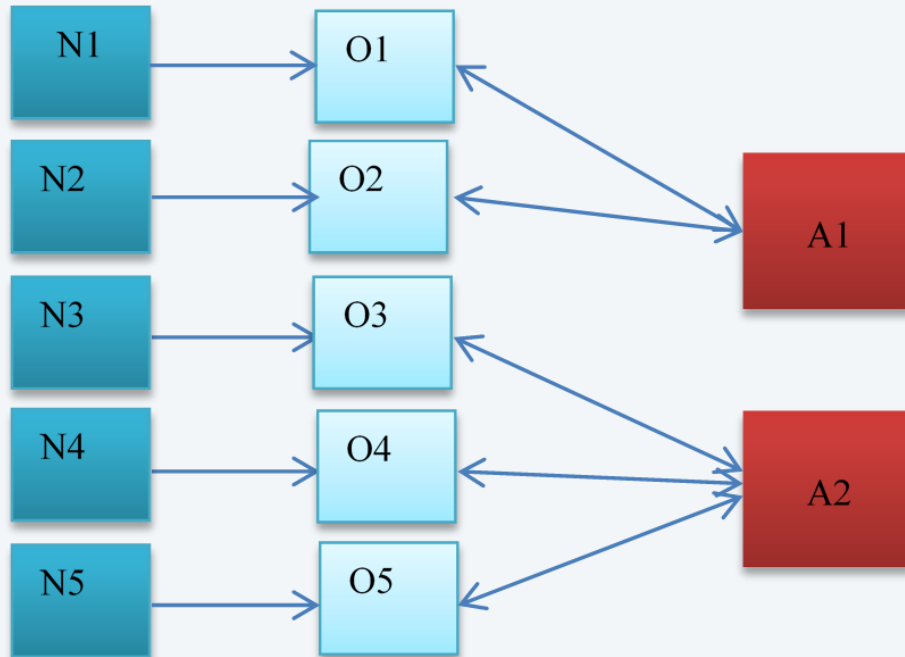
European dimension of education and training

- Enhance **the international dimension of education and training** through cooperation between EU institutions, HEIs, VET providers, employers, international regulatory bodies ICAO and EASA and other stakeholders.

An improved dialog university – employers.

- Establishing an improved and systematic dialog between education and business by the creation of a **European network for aviation training and education** with the participation of education and industry stakeholders - **ENATE**





A1, “Develop new, innovative and multidisciplinary approaches to teaching and learning”

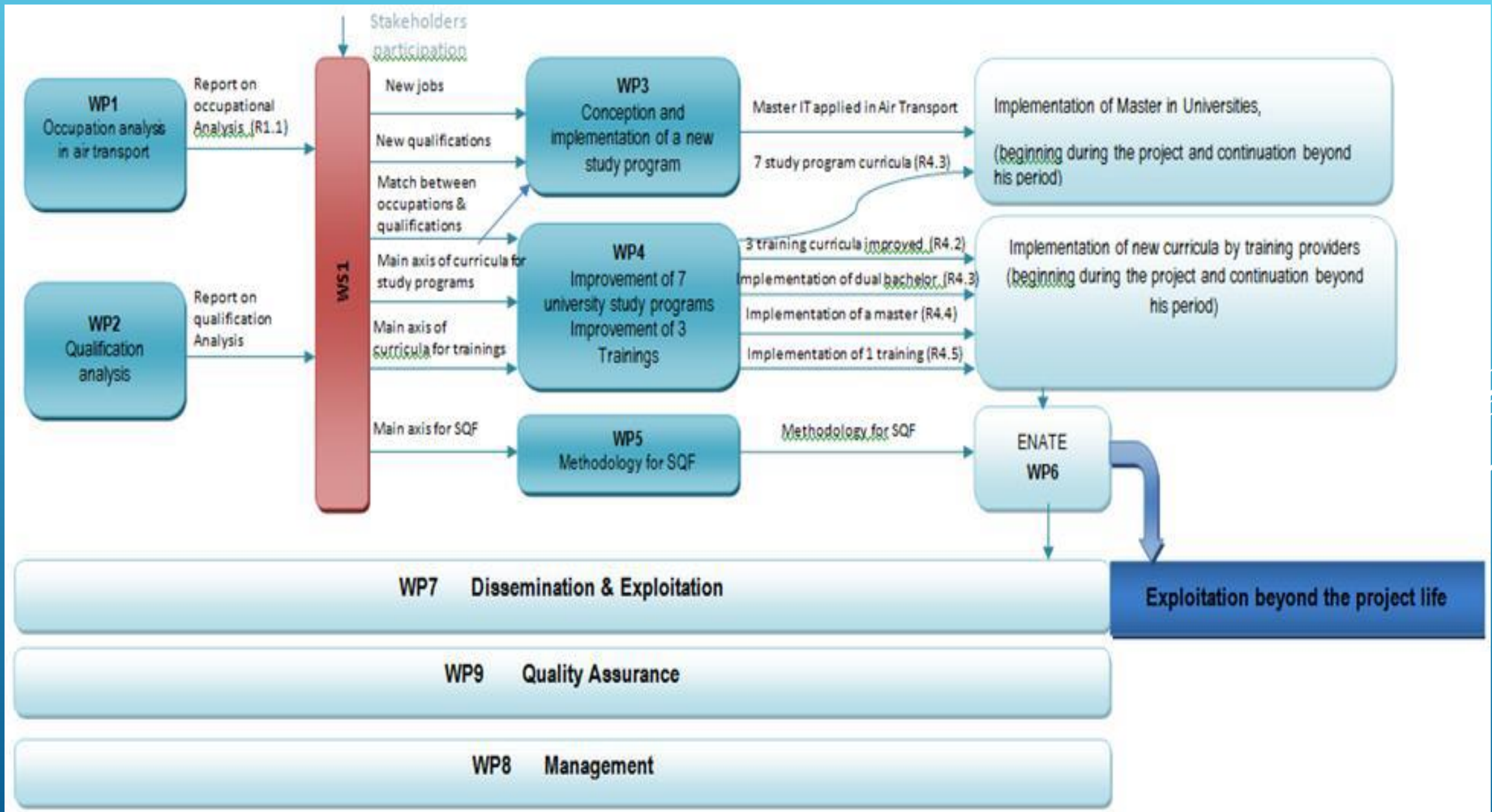
A2 , “Facilitate the exchange, flow and co-creation of knowledge”





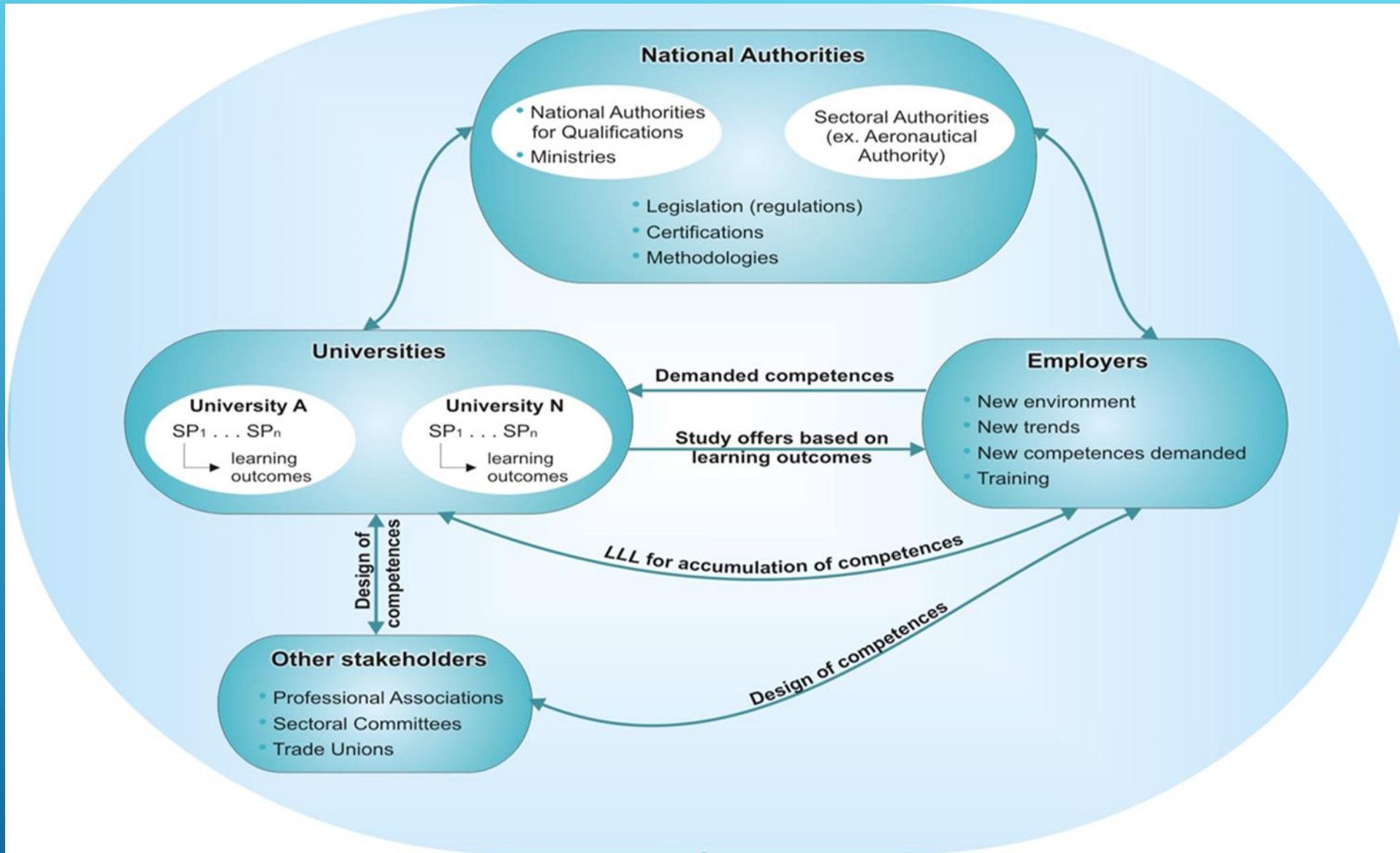
3. IMPLEMENTATION OF THE PROJECT

The overview of project structure and methodology



4. PARTNERSHIP

The background is a solid blue gradient. In the center, there is a stylized, light blue outline of a jet airplane flying towards the right. Above the airplane, there are several curved lines representing signal waves or radar, with small lightning bolt symbols at their peaks. On the right side of the image, there are several parallel white lines that appear to be motion blur or speed lines, extending from the top right towards the bottom right.



The main routes of dialog in aviation sector for education and training

Partnership consists in 17 organizations from 7 countries

The partnership covers all categories of occupations of air transport: regulatory, maintenance, handling, airports, ATC, airlines:

7 HEIs (6 universities and 1 école supérieure) with aviation, logistic and management study programmes,

2 adults training providers (P6, P8),

8 enterprises:

1 airport (P13),

1 ATM provider (P14),

2 airlines(P12, P15),

1 maintenance (P10),

1 handling provider (P11),

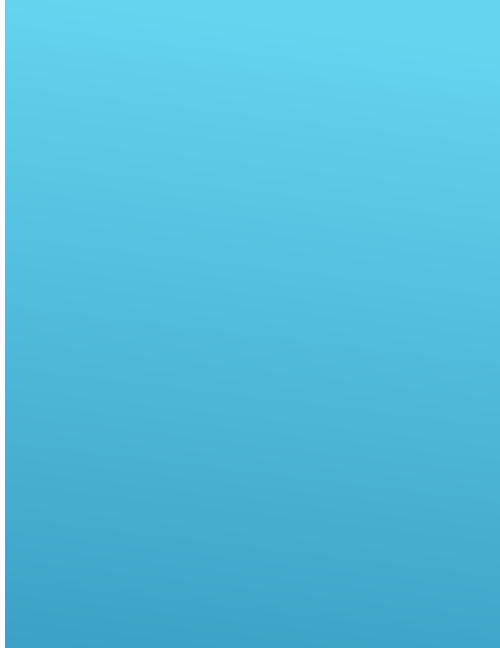
1 aviation investigation authority (P17)

1 consulting (P7).



Project coordinator

UNIVERSITY
POLITECHNICA OF
BUCHAREST
ROMANIA (P1)



UNIVERSITY OF ZAGREB, FACULTY OF TRAFFIC AND TRANSPORT SCIENCES CROATIA (P2)





INSTITUTO SUPERIOR TECNICO, UNIVERSITY OF PORTUGAL (P3)



**TRANSPORT
TELECOMMUNICATION
INSTITUTE**



P4 - TRANSPORT AND TELECOMMUNICATION INSTITUTE - TRANSPORTA UN SAKARU INSTITŪTS (TSI) LATVIA

UNIVERSITÉ DE STRASBOURG



P5 – UNIVERSITY OF STRASBOURG FRANCE



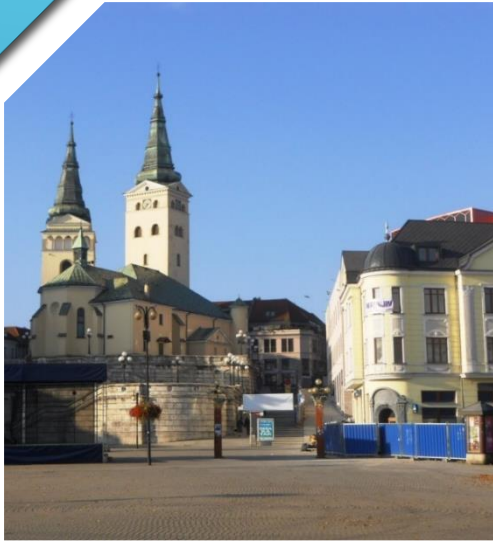
INOVAMAI S PORTUGAL (P6)



QUASAR HUMAN CAPITAL PORTUGAL (P7)



DEEP BLUE ITALY (P8)



UNIVERSITY OF ZILINA - SLOVAKIA (P9)



AERONAUTICAL TECHNICAL CENTRE CROATIA (P 10)



MENZIES AVIATION ROMANIA (P11)



AIGLE AZUR FRANCE (P12)





AVRAM IANCU AIRPORT ROMANIA (P13)



CRO CONTROL LTD CROATIA (P14)





CROATIA AIRLINES (P15)





ÉCOLE NATIONALE SUPÉRIEURE DES MINES D'ALBI- CARMAUX FRANCE (P16)





CIVIL AVIATION SAFETY INVESTIGATION AND ANALYSIS CENTER (CIAS) ROMANIA (P17)

- ▶ Commission nationale de la Certification Professionnelle (CNCP)/ France
- ▶ European and North Atlantic (EUR/NAT) Office of the International Civil Aviation Organization (ICAO)
- ▶ ACI Europe
- ▶ Transfer Knowledge Association of Romania (ATCR)
- ▶ SITA (Austria)
- ▶ Timisoara Avram Iancu Airport/ Romania
- ▶ Varna Airport – Fraport Company (Bulgary)
- ▶ Romanian Airport Association (RAA)
- ▶ Iasi Airport (RO)
- ▶ Technical University of Moldova (TUM)
- ▶ Romanian Aviation Academy (RAAc)

11 ASSOCIATED PARTNERS FROM 5 COUNTRIES



7. RESULTS



WP 1 - Occupational analysis in air transport

Leader P8- DEEP BLUE Italy

1.1 Report on occupational analysis in air transport industry

WP 2 - Qualification analysis in air transport

Leader P1- UNIVERSITY POLITECHNICA OF BUCHAREST Romania

2.1 Report on qualifications analysis in air transport industry

WP 3 - Conception and implementation of a new innovative study program “IT applied in aviation”

Leader P16 - ÉCOLE NATIONALE SUPÉRIEURE DES MINES D'ALBI-CARMAUX France

3.1. Master “IT applied in aviation”

3.2. Work programme for the short-term mobility for teaching staff for exploitation of ICT tools in new study program



WP 4

IMPROVEMENT OF UNIVERSITY STUDY PROGRAMMES AND OF ADULT TRAININGS

Leader: INSTITUTO SUPERIOR TECNICO,
UNIVERSITY OF PORTUGAL (P3)

4.1 **7 reviewed curricula** for 7 existing
study programmes

4.2 **3 reviewed curricula** for 3 existing
trainings

4.3 **A dual learning study program**
implemented

4.4 **A reviewed international master**
implemented

4.5 **A reviewed international training**
implemented

WP 5 Elaboration of the Methodology for Sectorial Qualification Framework (SQF) and recognition of prior learning and work experience in aviation

Leader P2-UNIVERSITY OF ZAGREB, FACULTY OF TRAFFIC AND TRANSPORT SCIENCES
Croatia

5.1 Methodology for SQF and recognition of prior learning and work experience in aviation

WP 6 Establishment of European Network for Aviation Training and Education (ENATE)

Leader P1- UNIVERSITY POLITECHNICA OF BUCHAREST Romania

6.1 European Network for Aviation Training and Education



WP 7 DISSEMINATION AND EXPLOITATION

Leader P7-QUASAR HUMAN CAPITAL Portugal

7.1 Dissemination, Exploitation and Sustainability Plan

7.2 Project website and online tools

7.3 Public Multiplier Events

7.4 Dissemination materials



WP 8 Management

Leader P1- UNIVERSITY POLITECHNICA OF BUCHAREST Romania

8.1 **Partnership Agreement (PA)**

8.2 Steering Committee preparation and Meeting Reports

8.3 Coordination of classes, workshops conferences and visits

8.4 Realization of intermediary and final reports to EACEA

WP 9 QUALITY ASSURANCE

Leader P5- UNIVERSITY OF STRASBOURG France

9.1 Set up of the Quality Assurance and Monitoring Board (QAMB)

9.2 Quality Assurance and Monitoring Plan;

9.3 Monitoring and Evaluation Reports

WP 10

PROJECT EVALUATION

Leader INOVAMAIIS Portugal (P6)

10.1 Quality Evaluation Methodology

10.2 Internal quality evaluation reports

10.3 Impact evaluation questionnaires

10.4 Final project impact report



THANK YOU FOR
YOUR ATTENTION!