



unesco

Chair



Engineering for Society



Inovație in industria transportului aerian

Prof. dr. Sorin Eugen ZAHARIA

Catedra UNESCO “Inginerie pentru societate”

Universitatea Nationala pentru Stiinta si Tehnologie Politehnica Bucuresti

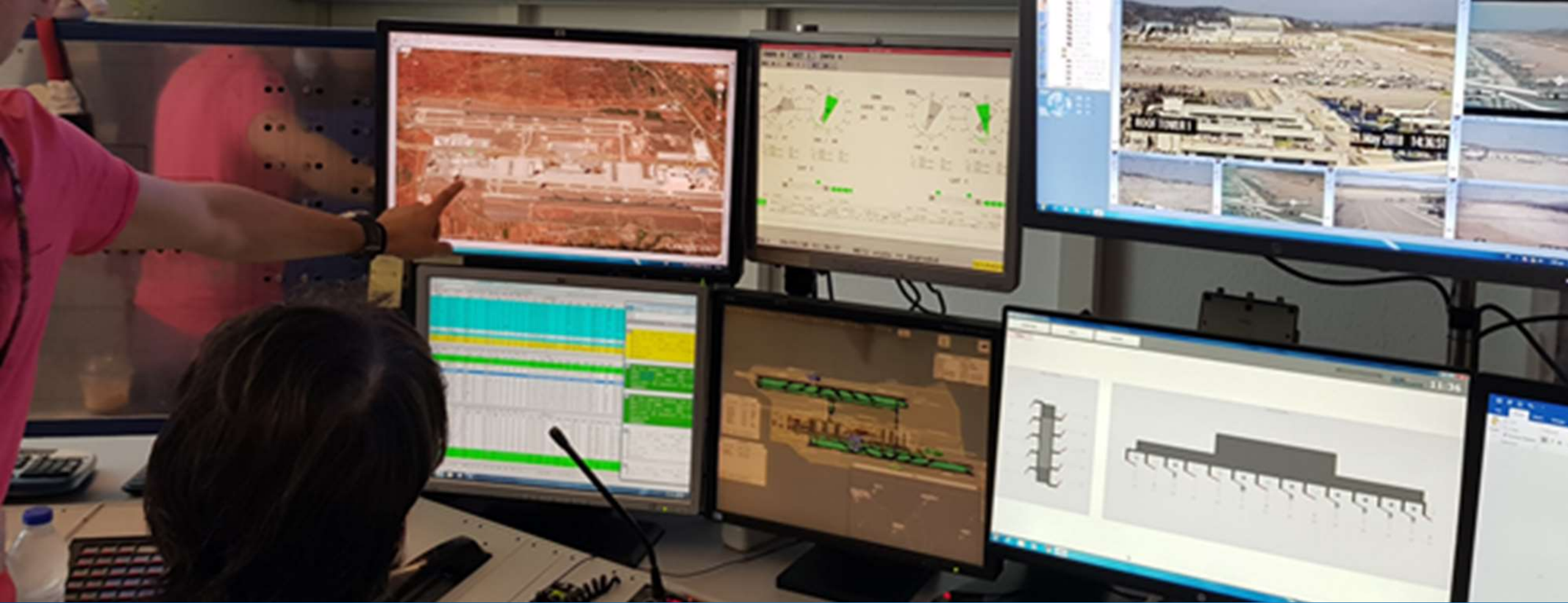
Vicepresedinte al Consiliului de administratie al Aeroportului Iasi



Conținut

1. Aviația 4.0
2. Pregătirea resursei umane
3. Platforma de învățare și predare
AvionicLearn





1. Aviația 4.0

Aviația 4.0

- **O industrie a transportului aerian performantă**
 - O aviație axată pe client
 - O aviație inovatoare
- **O aviație agilă**
 - Furnizorii de transport aerian conectați prin rețea (ACDM)
 - O industrie flexibilă
- **O aviație responsabilă**
 - O aviație curată (folosind energie verde și biocombustibili)
 - O aviație centrată pe om



Complexitatea aeroportului

Handling la sol

Curatenia, cateringul, manipularea, intretinerea Aeronavelor si alimentarea cu combustibil



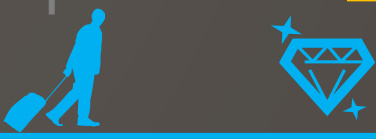
Plecare

Sosire, check-in, predarea bagajelor, control de securitate, asteptare si imbarcare



Sosire

Debarcare, vamuire, preluarea de bagaje, transfer si hotel.



Zona terminalului

Zona Publica



Servicii Vip

Centru de interactiuni



Plan de calatorie



Managementul total al aeroportului (TAM)



=CONECTAT, INTELIGENT, REZISTENT & VERDE

Performantele Aeropotuare

INTELIGENT

- Management performant al terminalului/ariei de mișcare (reactiv și proactiv)
- Operațiunile de escală: management și monitorizare îmbunătățite;
- Gestionarea proactivă a performanței operaționale folosind “machine learning”.

CONECTAT

- **Aeroport integrat/ Rețea**
- Luarea deciziilor în colaborare la aeroporturile regionale (**ACDM**)
- “**Lite Airport Operations Center**” pentru aeroporturile regionale
- **Schimb anticipat de mesaje** privind informațiile de plecare folosind Managerul de rețea

REZISTENT

- Gestionarea proactivă a impactului meteorologic nefavorabil asupra operațiunilor
- Management proactiv al ariei de mișcare în caz de disfuncționalități.

VERDE

- Monitorizarea în timp real a indicatorilor de mediu (zgomot/emisii de gaze pe durata de taxi);
- Predicții (D-1) și raport post-operații (sfârșitul zilei Z)
- Integrarea indicatorilor de performanță de mediu (zgomot/emisii) ca factor în luarea deciziilor operaționale (Z-1, ziua Z)





Axele de lucru pentru digitalizarea în sectorul aviației

1 Creșterea conectivității

Servicii inteligente de aviație (ACDM 2)

Furnizori conectați (ACDM)

Conectarea oamenilor Aeroport principal (APOC)

2. Dezvoltarea de software pentru comunicare și predicție

Huawei

iAirport Operations

Tehnologii NIIT

CAST

SITA



Axele de lucru pentru digitalizarea în sectorul aviației

3. Virtualitatea pentru susținerea deciziilor

Dezvoltarea de modele adecvate

Simularea funcționalității sectoarelor aviatice

Conducerea aviației

4. Schimbarea mediului de lucru

Reducerea dificultăților

Interacțiunea om-mașinăÎnsoțirea personalului

O nouă organizare a muncii

Noi competențe necesare

5. Securitatea datelor și a proceselor

6. Resurse umane calificate



2. Pregatirea resursei umane



Interdisciplinary qualifications

– Aviation, ICT and marketing



- ☐ search engine optimization (SEO)
- ☐ e-CRM
- ☐ cybersecurity
- ☐ e-reputation and user experience (UX) or user interface (UI) design

Search Engine Optimization Jobs:

- SEO Manager
- SEO Consultant
- Content Manager
- Traffic Manager

demand **competences** as: *digital interface design, project management, artistic creation, marketing, air transport management, business, communication, web writing etc.*

Cybersecurity Jobs:

- Auditor
- Crisis Management Specialist
- Expert intrusion tests
- Head of the ISS (information security system)

UX/UI design Jobs:

- Service Designer
- UX Manager
- UI Designer
- UX Designer
- Ergonomist Designer



Aviation 4.0



Dezvoltarea unor programe de studii internaționale interdisciplinare

Master: Green, Smart and Integrated Transport and Logistics

Master: Information technologies applied in aviation

Master: Ingineria și managementul orașelor inteligente

Programul de master
**GREEN, SMART AND
INTEGRATED TRANSPORT
AND LOGISTICS**

- O **înțelegere holistică** a diferitelor opțiuni și metode de tehnologie,
- **Abilități interdisciplinare,**
- **Competențele** necesare pentru dezvoltarea, analizarea și gestionarea **sistemelor inovatoare și avansate pentru transport și logistică sustenabile**



În parteneriat cu universități străine, în conformitate cu **misiunea UNESCO** de a oferi **educație pentru dezvoltarea durabilă**.

Programul de master

“Information technologies applied in aviation”

- Pregătirea unor specialiști cu **abilități și competențe atât în tehnologia informației și a comunicațiilor, cât și în domeniul aviației.**
- **Colaborare internațională** cu universitățile partenere **KAAT**:
Universitatea din Zagreb, Universitatea din Lisabona, Universitatea din Zilina, Școala națională superioară de mine din Albi.



**APPLY
NOW!**



Ingineria și managementul orașelor inteligente



Vă oferim:

- Cunoștințe și abilități pentru planificarea, implementarea și coordonarea funcționării componentelor de inginerie și management legate de orașele inteligente;
- Cunoștințe despre aspectele tehnice, economice și de mediu care definesc dezvoltarea orașelor inteligente în tendința actuală de urbanizare globală, cu o contribuție importantă la proiectarea orașelor sustenabile.

Acest program de studii este util pentru:

- Specialiștii IT&C din administrația publică;
- Cei care asigură guvernarea unui Smart City și care trebuie să ia decizii informate cu privire la dezvoltarea de noi sisteme tehnologice inteligente;
- Specialiștii care activează în domeniile cercetării și proiectării infrastructurii orașelor moderne.



3. Platforma de invatare si predare AvionicLearn

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TEACHING AND LEARNING

Digital Learning for Green Air Transport and Logistics

The project addresses three European priorities in the national context with a highlight on the innovative and transferable results and practices

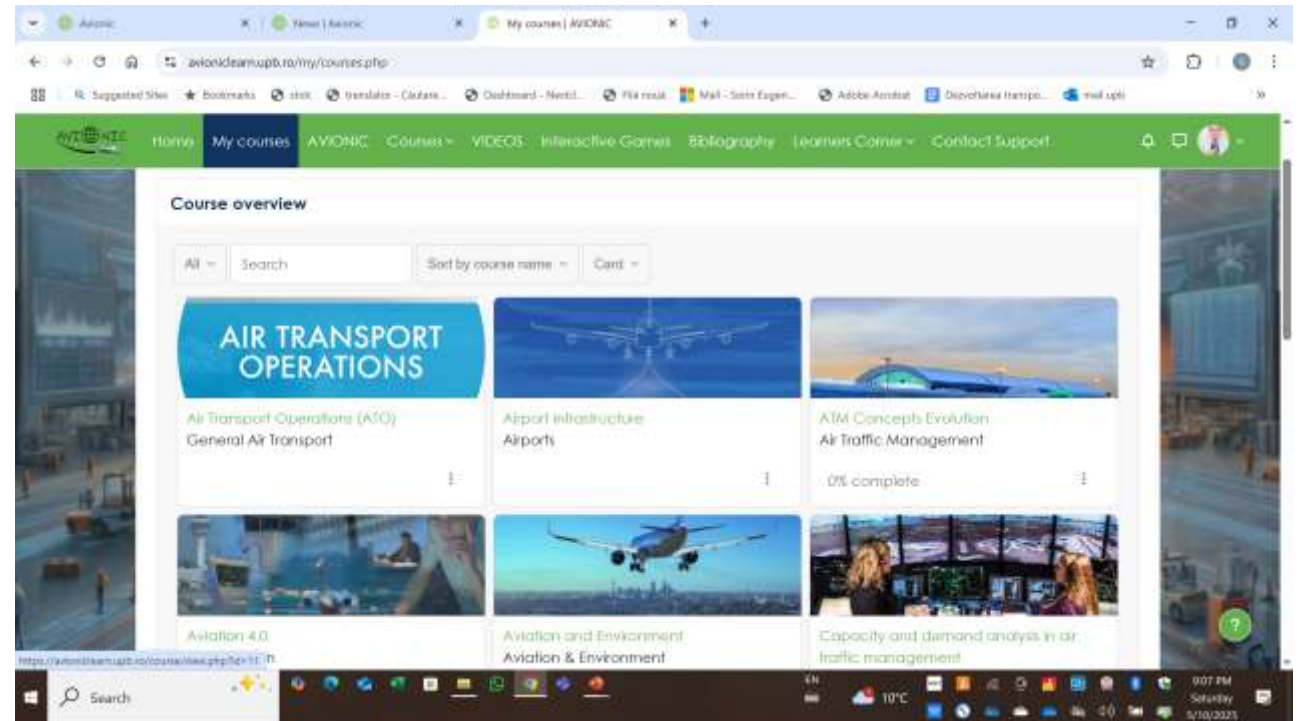
[AVIONIC Project Website](#)[AVIONIC Project on LinkedI...](#)[AVIONIC Project on Facebo...](#)

- <https://AvionicLearn.upb.ro/>



1. COURSES

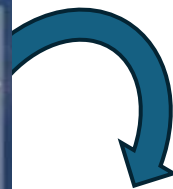
<https://AvionicLearn.upb.ro/>



Digital Learning for Green Air Transport and Logistics

The project addresses three research projects in the aviation context with a focus on the innovative and transformational results and practices.

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- ▶ Handling
- > Airlines
- ▶ Air Traffic Management
- ▶ Airports
- ▶ Aviation & Environment
- ▶ Digitalization
- > Aircraft Technology
- ▶ Aviation Safety and Security
- ▶ Project Management
- > Cargo



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General Air Transport

Air Transport Operations (ATO)

Smart Airports & Urban Air Mobility

Handling

Airlines

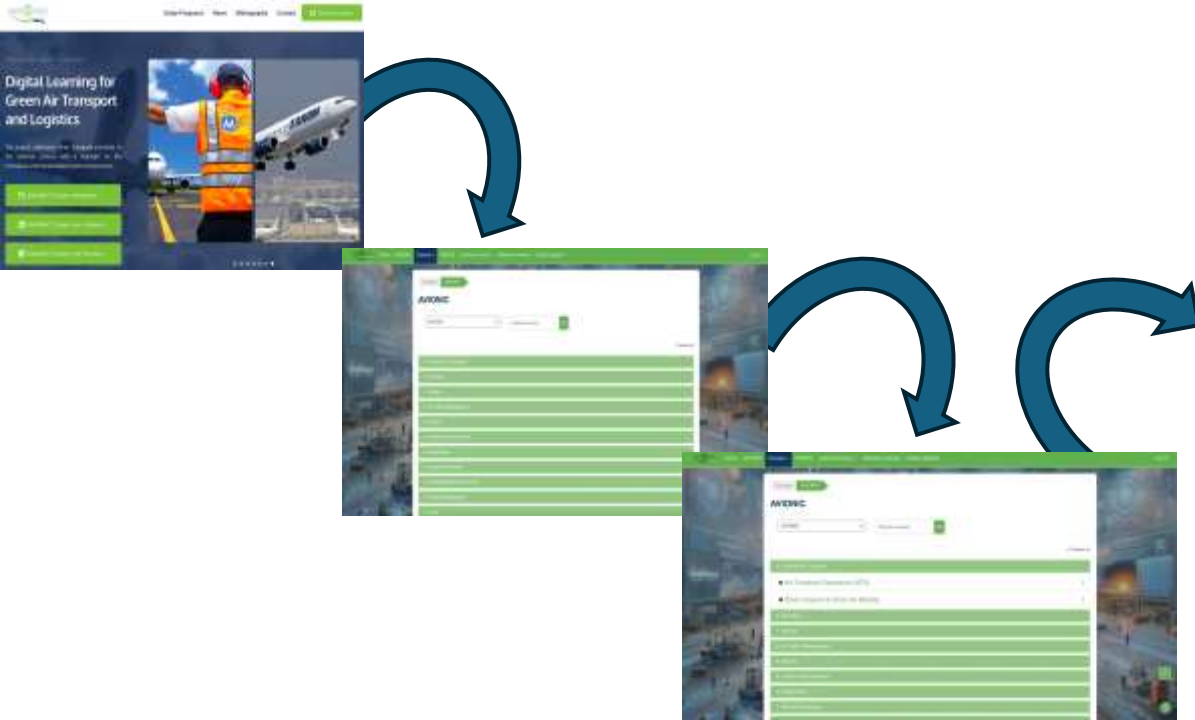
Air Traffic Management

Airports

Aviation & Environment

Digitalization

Aircraft Technology

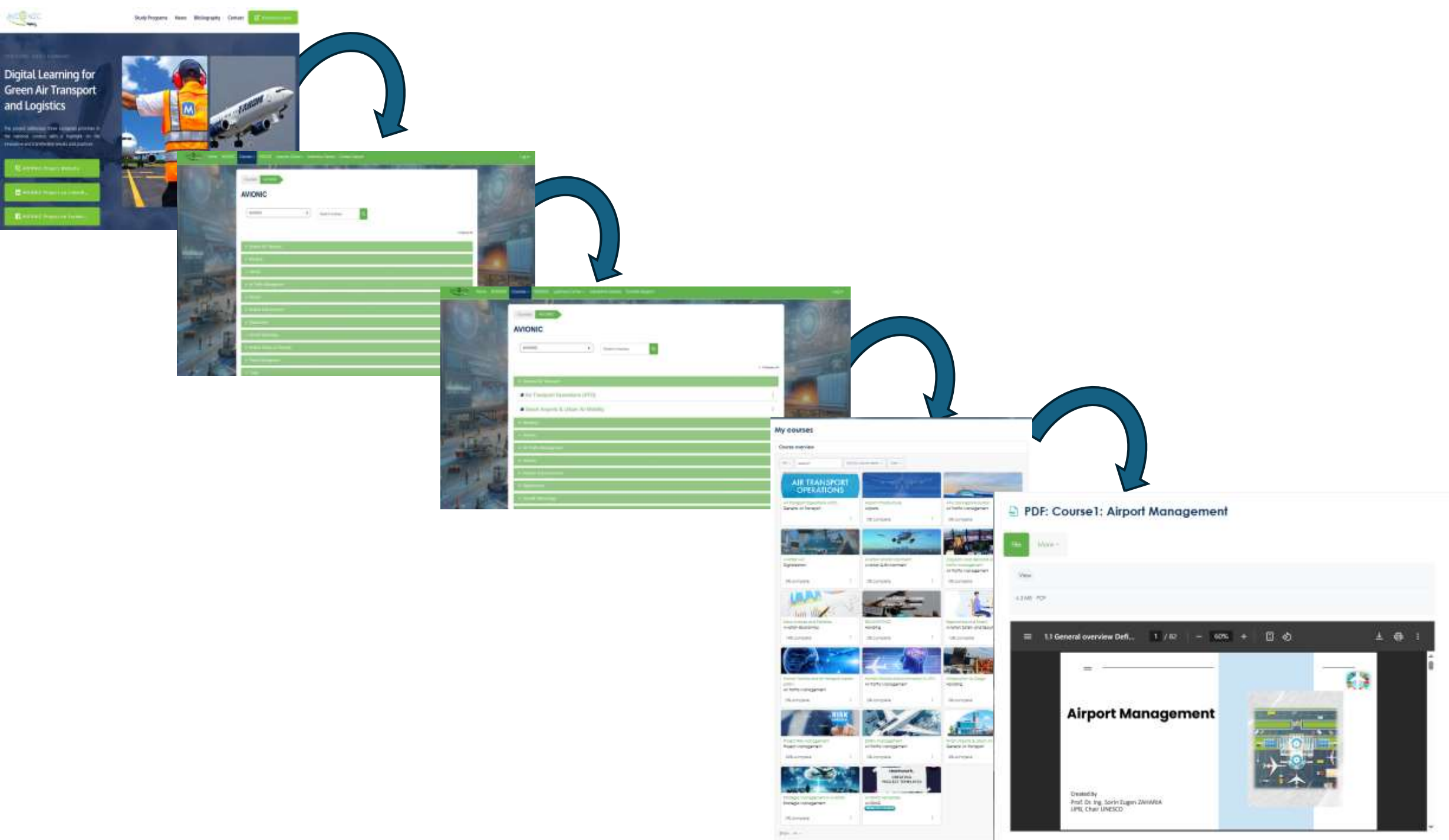


My courses

Course overview

All	Search	Sort by course name	Clear
 AIR TRANSPORT OPERATIONS Air Transport Operations (ATQ) General Air Transport 0% complete	 Airport Infrastructure Airports 0% complete	 ATM Concepts Evolution Air Traffic Management 0% complete	
 Aviation 4.0 Digitalization 3% complete	 Aviation and Environment Aviation & Environment 0% complete	 Capacity and demand analysis in air traffic management Air Traffic Management 0% complete	
 Data Analysis and Statistics Aviation Economics 14% complete	 DE/ANTHOCING Handling 0% complete	 Ergonomics and Safety Aviation Safety and Security 18% complete	
 Human factors and air transport system safety Air Traffic Management 0% complete	 Human Factors and automation in ATM Air Traffic Management 0% complete	 Introduction to Cargo Handling 0% complete	
 Project Risk Management Project Management 22% complete	 Safety management Air Traffic Management 0% complete	 Smart Airports & Urban Air Mobility General Air Transport 2% complete	
 Strategic Management in Aviation Strategic Management 0% complete	 teamwork, CREATING PROJECT TEMPLATES AVIONIC Hidden from students 0% complete		

Show All



2. INTERACTIVE GAMES

Avionics

Home My courses AVIONIC Courses + VIDEOS Interactive Games Bibliography More +

You are in preview mode.

View attempts (0) Edit H5P content

Second interactive video ...
Third interactive video AV...
Branching scenario cours...
Scenario: Low fuel emerg...

Airport Organizational Chart

Generic Airport Organizat...

Crosswords

Aviation Crossword
Crossword 2

Airline Organizational Chart

Generic Airline Organizati...

```
graph TD; GM[General Manager] --> AM[Airport Maintenance]; GM --> FA[Finance and Accounting]; GM --> PR[Public Relations]; GM --> TM[Terminal Management]; GM --> OSM[Operations Services Management]; GM --> CE[Commercial Expatriation]; GM --> RM[Resource Management]; TM --> M[Mechanic]; TM --> E[Electric]; TM --> CE[Civil Engineering]; TM --> HSE[HSE]; OSM --> RFS[Rescue and fire-fighting services]; OSM --> AO[Airport Operations]; OSM --> OS[Operational Services]; OSM --> MT[Mechanical Transport]; AO --> MASD[Movement Area Safety Department]; AO --> OP[Operations Officer]; AO --> PMD[Platform Management Department];
```

Windows taskbar: Search, 10:09 PM, Saturday, 5/10/2025

Interactive Games

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INTERACTIVE GAMES



Airport Organizational Chart



Crosswords

[Aviation Crossword](#)[Crossword 2](#)

Airline Organizational Chart



Civil Aviation Authority Organizational Chart



Branching Scenario: Taxiing from Runway to Parking Position



Drag&Drop Maps



Runway Emergency Operation

Interactive Games

Game Settings Progression Leaderboard Results Multiplayer

Game Board

INTERACTIVE GAMES

Airport Organizational Chart

Crosswords

Aviation Crossword

Aviation Organizational Chart

Civil Aviation Authority Organizational Chart

Blanching Scenario: Tailing from Runway to Parking Position

Drag&Drop Maps

Runway Emergency Operation

Aviation Crossword

H5P Settings Attempts report More

You are in preview mode.

View attempts (0)

Edit H5P content

1

2

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T

Across

1 The light signals used on airport runways. (6)

4 The term for air disturbances that can make a flight bumpy. (10)

5 The process of clearing ice from an airplane. (7)

8 The person responsible for flying the plane. (5)

Down

2 The part of the airplane that generates thrust. (6)

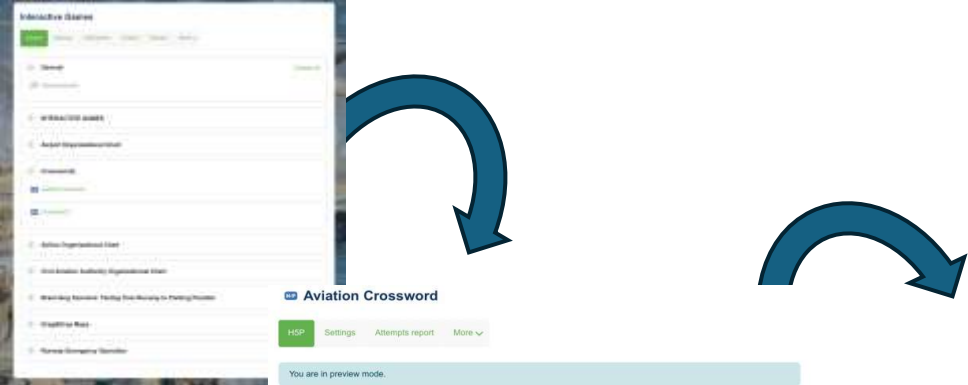
3 A document that provides information on the flight route. (10)

6 The navigational aid used for instrument landings. (3)

7 The force that lifts an airplane into the air. (4)

1/9

Retry



Aviation Crossword

HSP Settings Attempts report More

You are in preview mode.

View attempts (0)

Edit HSP content

Across

1 The light signals used on airport runways. (6)

4 The term for air disturbances that can make a flight bumpy. (10)

5 The process of clearing ice from an airplane. (7)

8 The person responsible for flying the plane. (5)

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3 A document that provides information on the flight route. (10)

6 The navigational aid used for instrument landings. (3)

7 The force that lifts an airplane into the air. (4)

1 2

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P I L O T

1/9

Retry

Aviation Crossword

HSP Settings Attempts report More

First name AH ABCDEFGHIJKLMNOPQRSTUVWXYZ
Last name AH ABCDEFGHIJKLMNOPQRSTUVWXYZ

First name / Last name Date Score Attempts (0)

AM AHMED MHGOUB MOHAMEDAHMED MOHAMED

AH Al Hassan Ahmed Hamadan

EA ESAMALDIN ADEM ABDALLA AHMED

KA Kawthar Abdelgaleil Mohammedi Salih Ibrahim

NA Nazar Abdo Mustafa Hassanin

NM Nadiya Mohammed

EG Ermias Getnet

AG Alemayehu Girma

F5 Fasil Solomon

LT Lilith Tadesse

TM Tirfu Muriye

AT Amanuel Tesfaye

KA Kebedush Agza

TW Tiurmar Walelegne

ST Student TEST

The image displays three sequential screenshots of a web application interface, connected by blue curved arrows indicating a user flow.

First Screenshot (Left): Shows the 'Interactive Games' menu on the left sidebar. The 'Aviation Crossword' game is highlighted. The main area shows the game title and a 'Preview mode' notification.

Second Screenshot (Middle): Shows the 'Aviation Crossword' game in progress. The crossword grid is displayed with clues on the right. The clues include:

- Across: 1. The light signals used on airport runways. (6); 4. The term for air disturbances that can make a flight bumpy. (10); 5. The process of clearing ice from an airplane. (7); 8. The person responsible for flying the plane. (5).
- Down: 2. The part of the airplane that generates thrust. (6); 3. A document that provides information on the ... (7); 6. The ... (7); 7. The ... (7).

 The word 'PILOT' is visible in the grid.

Third Screenshot (Right): Shows the user profile page for 'AHMED MHGOUB MOHAMEDAHMED MOHAMED'. The page includes:

- User details:** Email address (ahmeddongola@gmail.com), Country (Ethiopia), Timezone (Europe/Bucharest).
- Course details:** Course profiles (Interactive Games, Air Transport Operations (ATO), Smart Airports & Urban Air Mobility, DE/ANTI-ICING, Introduction to Cargo, Capacity and demand analysis in air traffic management, ATM Concepts Evolution, Human factors and air transport system safety, Human Factors and automation in ATM, Safety management).
- Reports:** Today's logs, All logs, Outline report, Complete report, Grades overview.
- Administration:** Log in as.
- Login activity:** Last access to course (Never).

INTERACTIVE GAMES

Examples

Generic Airport Organizational Chart

H5P

Settings

Attempts report

More ▾

You are in preview mode.

 View attempts (0)

 Edit H5P content



H-P First interactive video AVIONIC

Interactive Content

Settings

More ▾

 Time-Lapse of aircraft: Ground Services for Ryanair Boeing 737 Share

What is the first action taken by the ground crew after the aircraft stops at the gate?

- Unloading cargo
- Opening the passenger doors
- Connecting the ground power unit (GPU)
- Placing chocks at the wheels

More videos

0:04 / 1:30

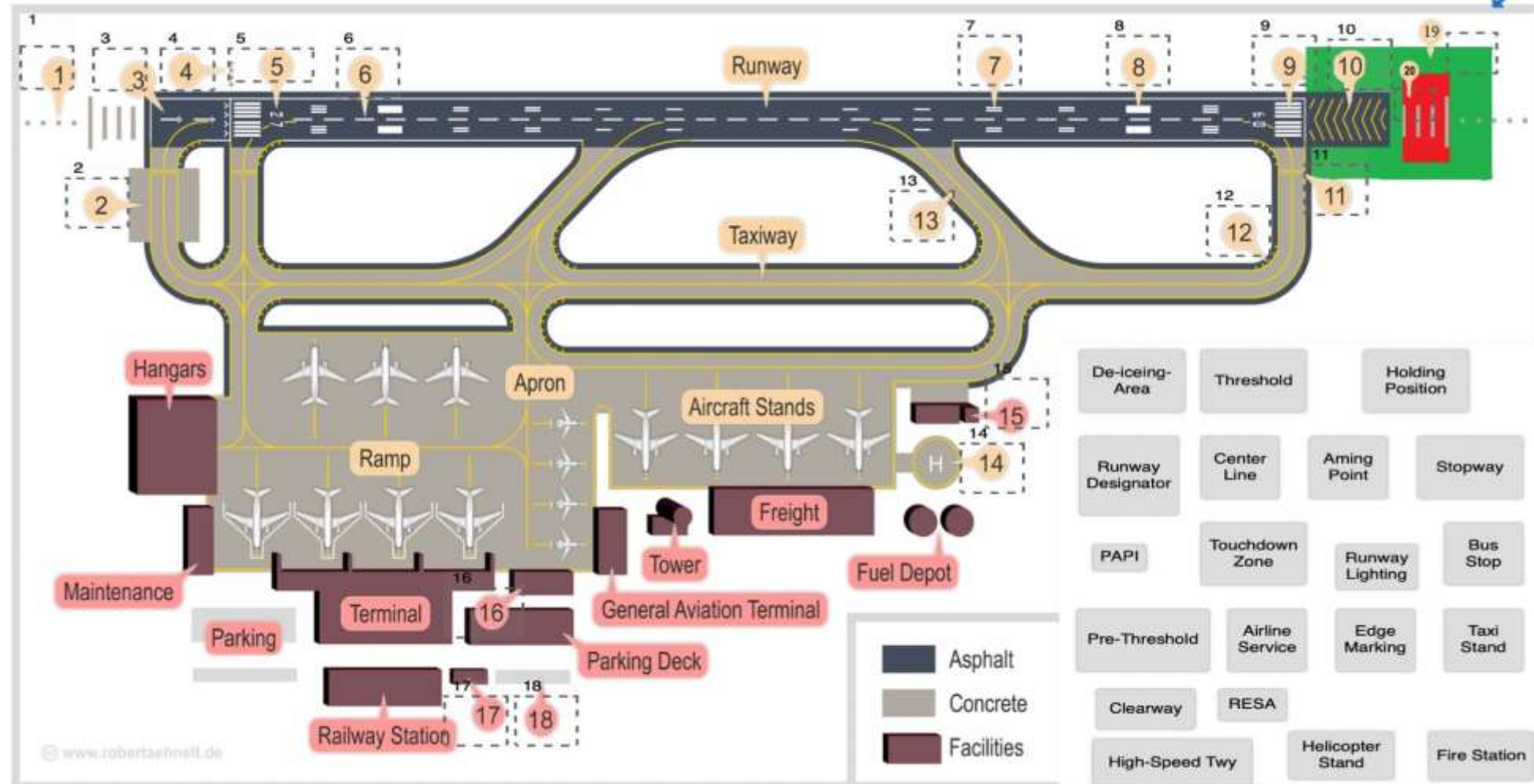
Reuse Embed

H-P

You are in preview mode

Topic: Layout of aircraft. Grouped Services for Ryanair Boeing 737

Airport map



Check

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0.04

0.04

You are in preview mode



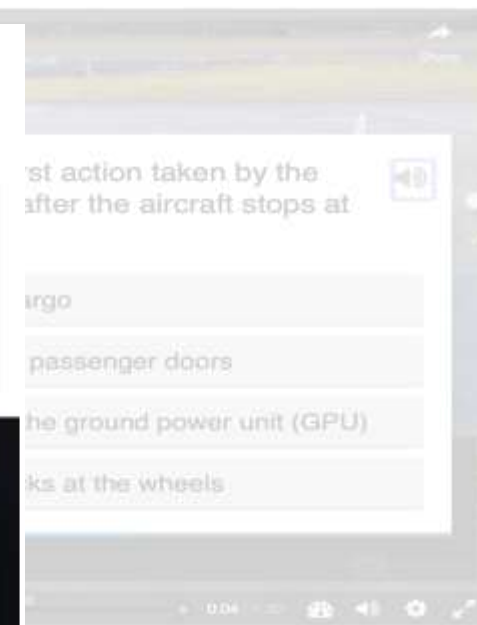
H-P Landing, Anomaly Detection and Engine Fire Starting

Interactive Content Settings More

View Receive a grade

This branched scenario aims to put the student in the role of a pilot and traffic coordinator when an aircraft, after an apparently normal landing, begins to show warning signs indicating an emergency situation on the runway. Along the way, the student will be prompted to make quick decisions that will affect the safety of the aircraft, passengers and ground crew. To advance through the scenario, the student must choose the correct options that correspond to standard procedures and safety policies.

The interface for the 'First interactive video AVIONIC' scenario. It features a dark background with a large 'LANDING' title. A speech bubble icon is in the top left. The main text reads: 'After landing, you notice subtle warnings (vibration, temperature fluctuations, and pressure drop) on the instrument panel. What do you do first?'. Below this are three options: 'Perform a quick check of critical systems, focusing on monitoring engine parameters', 'Apply the brakes suddenly to stop the aircraft as quickly as possible without checking the instruments.', and 'Ignore the signals and continue taxiing, hoping that the problem will recover by itself'. A 'Back' button is at the bottom. On the right side, there are several circular gauges showing various aircraft parameters.



Interactive Games

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INTERACTIVE GAMES



Airport Organizational Chart



Crosswords

[Aviation Crossword](#)[Crossword 2](#)

Airline Organizational Chart



Civil Aviation Authority Organizational Chart



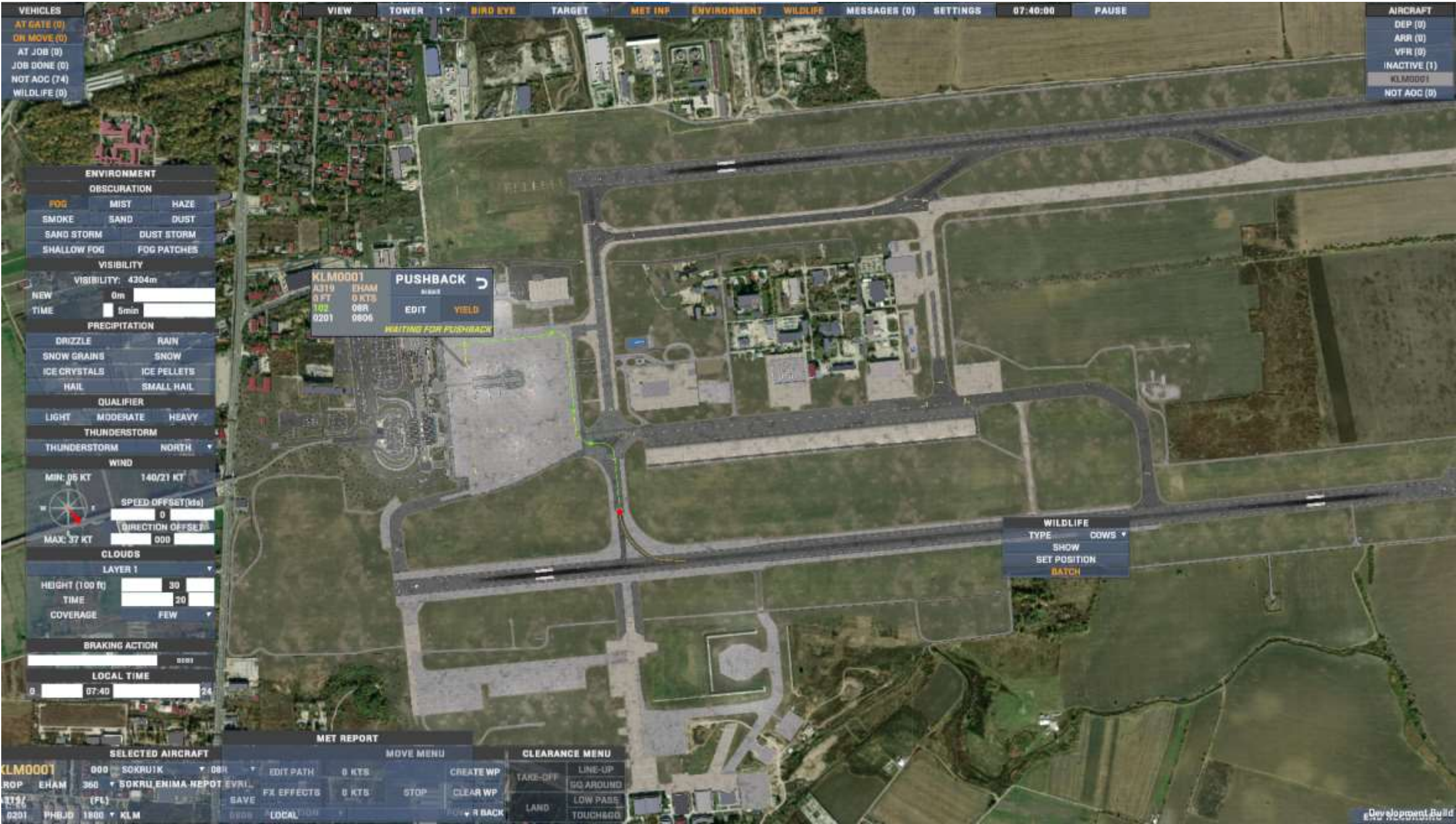
Branching Scenario: Taxiing from Runway to Parking Position

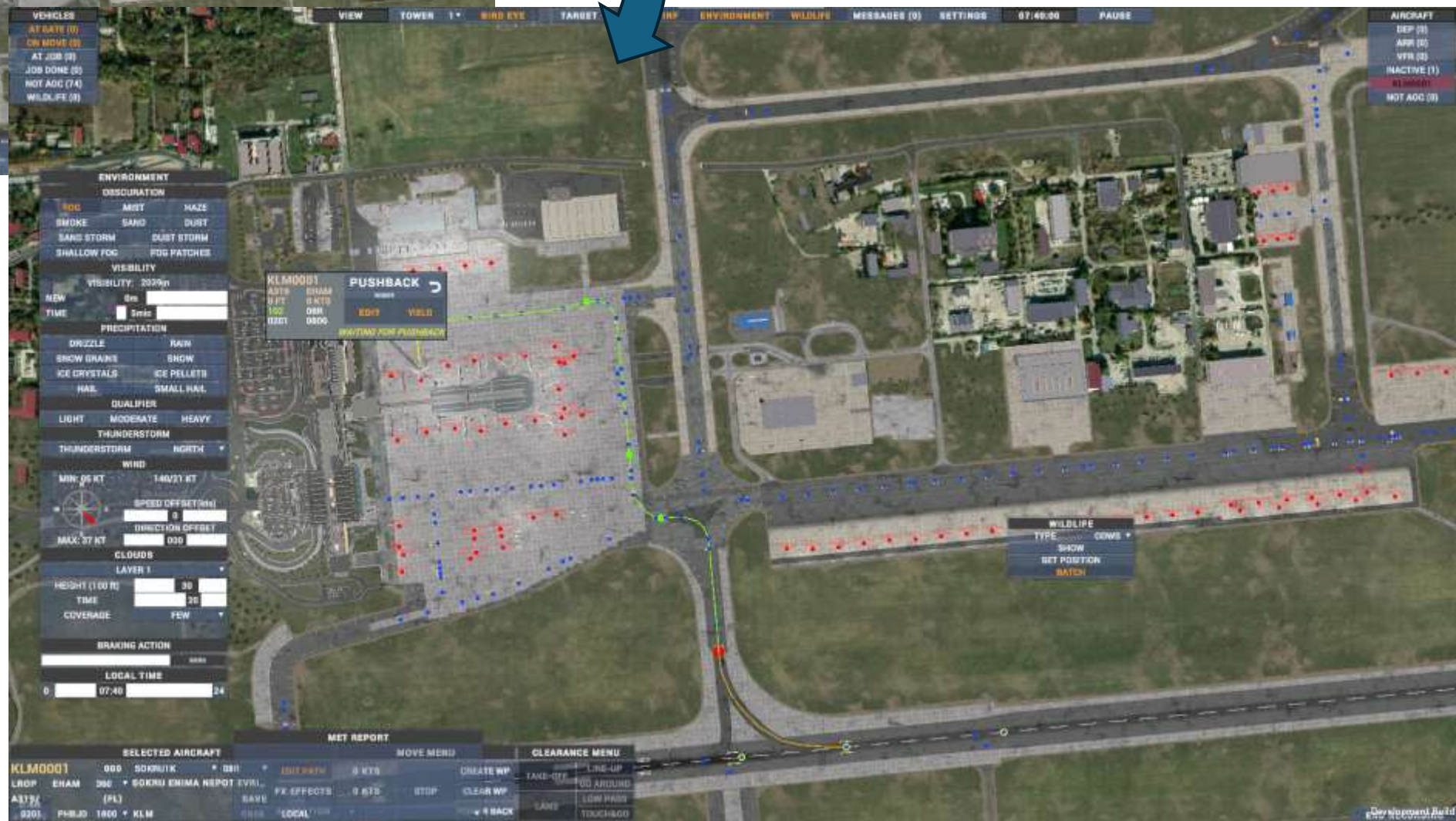


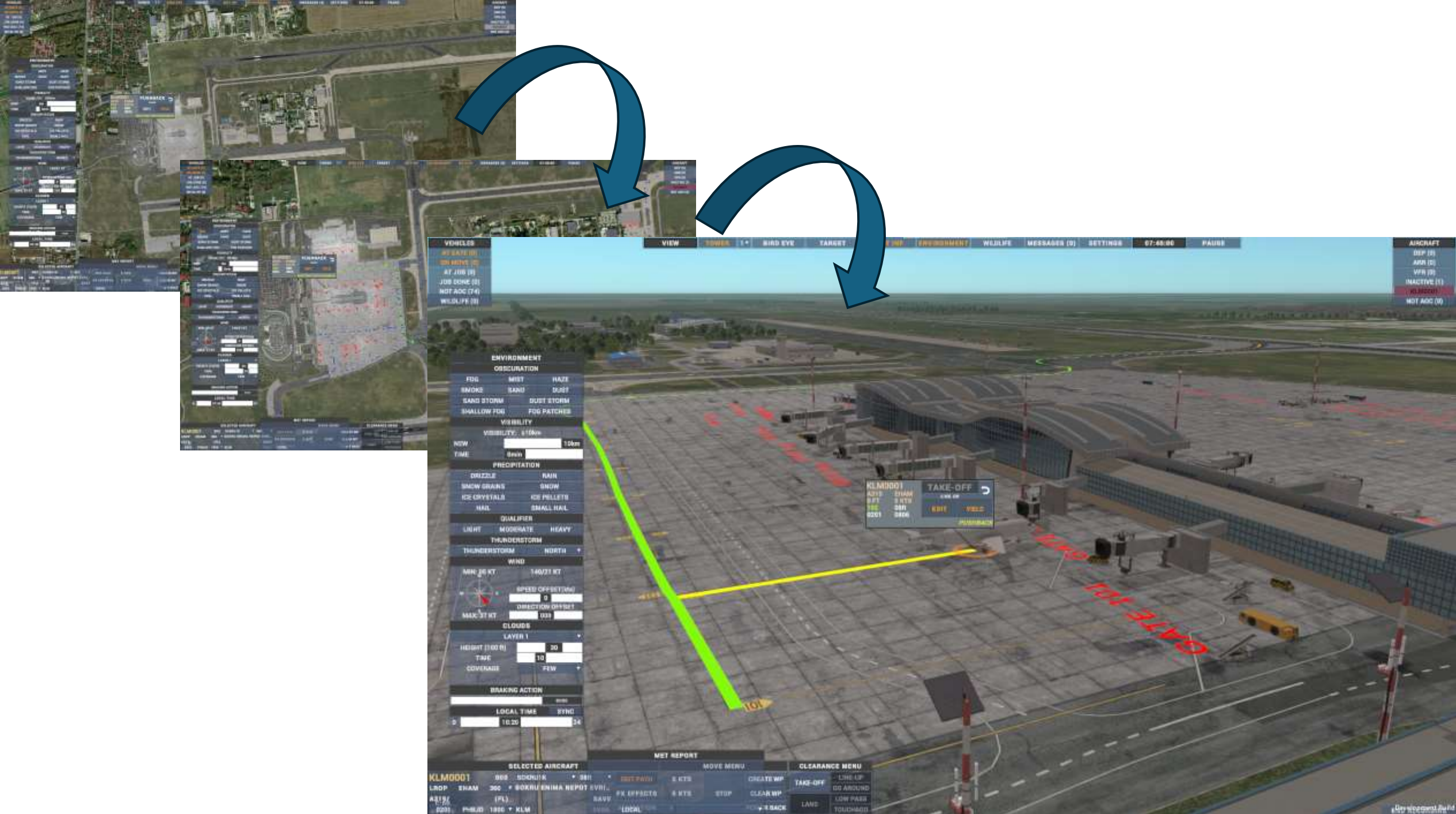
Drag&Drop Maps



Runway Emergency Operation

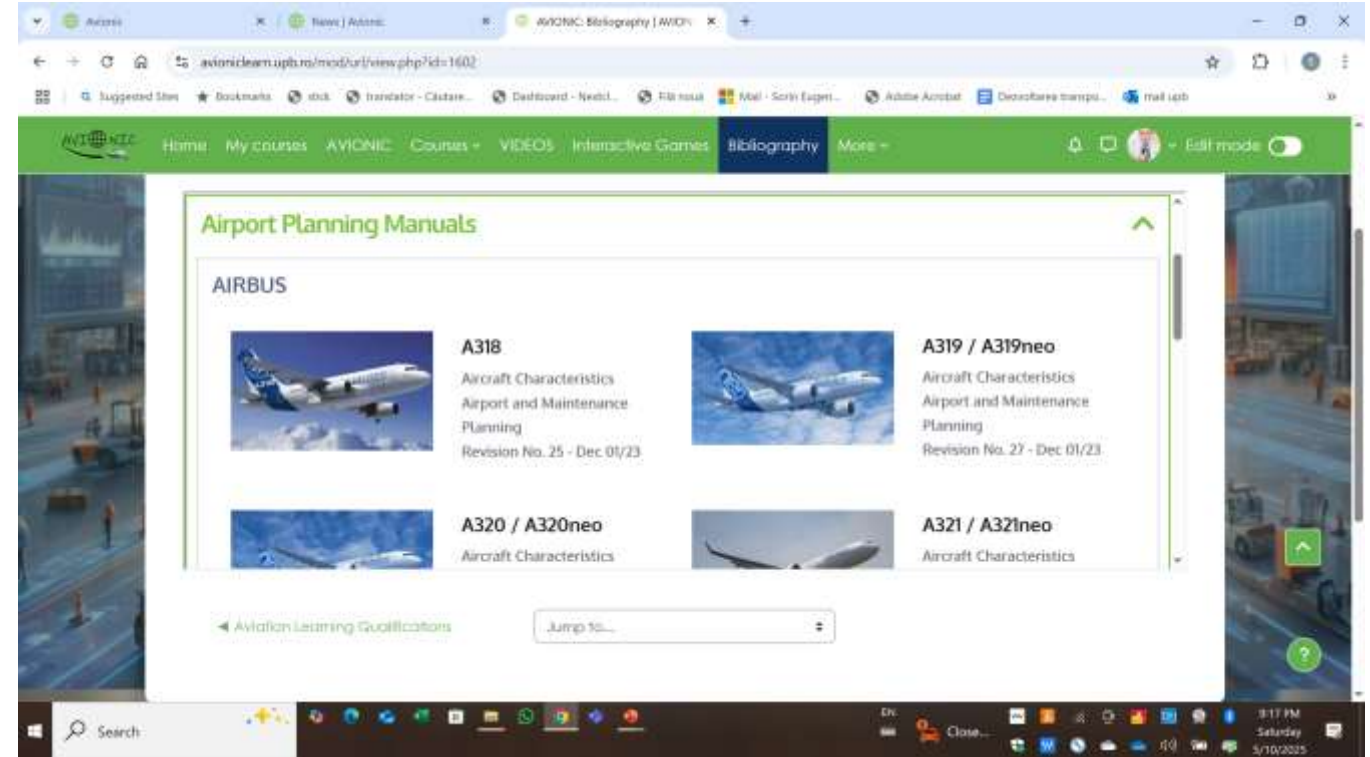








3. BIBLIOGRAFIE



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John H. Appleton

Aviation Learning Qualifications

BLOG

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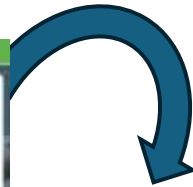
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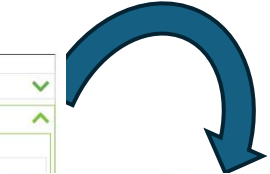
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Manuals	^
ICAO Manuals	
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ICAO Aerodrome Design Manual (ADM)	
Airport Planning Manual (APM)	
IATA Manuals	
EUROCONTROL Manuals	
SESAR Manuals	
Airport Planning Manuals	✓
Articles	✓
Other Publications	✓



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- Manuals ✓
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 - ICAO Aerodrome Design Manual (ADM)
 - Part 1 - Runways
Doc 9157
Fourth Edition, 2020
 - Part 2 - Taxiways, Aprons and Holding Bays
Doc 9157
Fifth Edition, 2020
 - Part 3 - Pavements
Doc 9157
Third Edition, 2022
 - Part 4 - Visual Aids
Doc 9157
Fifth Edition, 2021
 - Part 5 - Electrical Systems
Doc 9157
Second Edition, 2017
 - Part 6 - Frangibility
Doc 9157
First Edition, 2006
 - Airport Planning Manual (APM)
- IATA Manuals
- EUROCONTROL Manuals
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ICAO Aerodrome Design Manual (ADM)

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Fourth Edition, 2020

Part 3 - Pavements

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Third Edition, 2022

Part 5 - Electrical Systems

Doc 9157

Second Edition, 2017

Part 2 - Taxiways, Aprons and Holding Bays

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Fifth Edition, 2020

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Part 6 - Frangibility

Doc 9157

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EUROCONTROL Manuals

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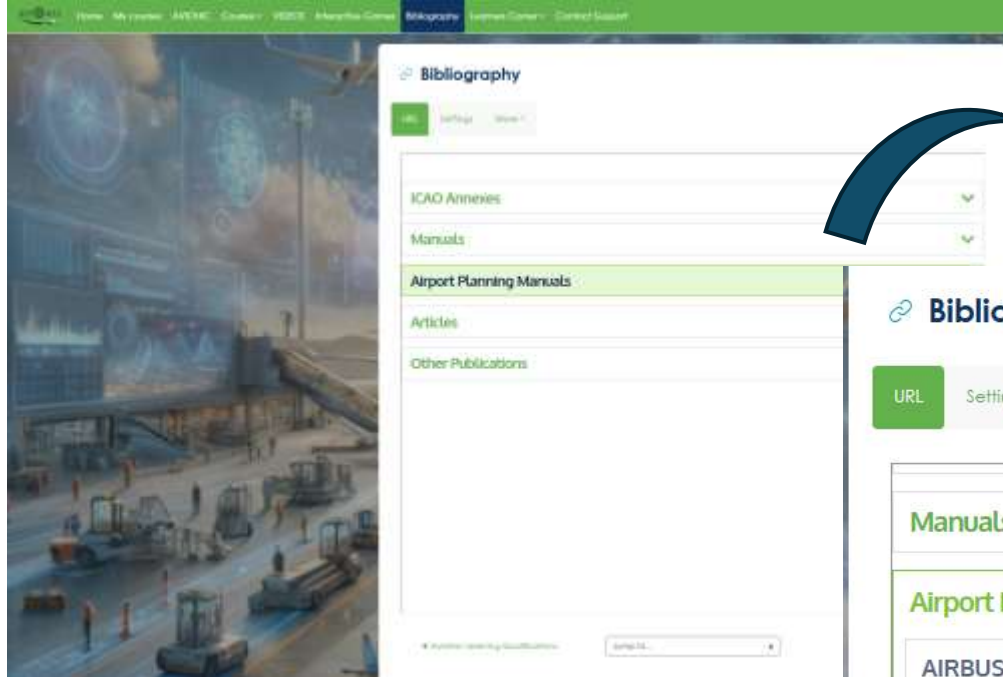
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Manuals

Airport Planning Manuals

AIRBUS

BOEING



737-100 through 737-500

Airplane Characteristics for
Airport Planning
Rev D - March 2023



737 MAX

Airplane Characteristics for
Airport Planning
Rev H - March 2023



747-8 / 747-8F

Airplane Characteristics for
Airport Planning
Rev C - August 2023



747-400/400ER

Airplane Characteristics for
Airport Planning
Rev E - September 2023



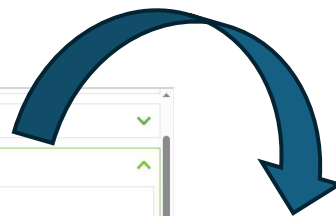
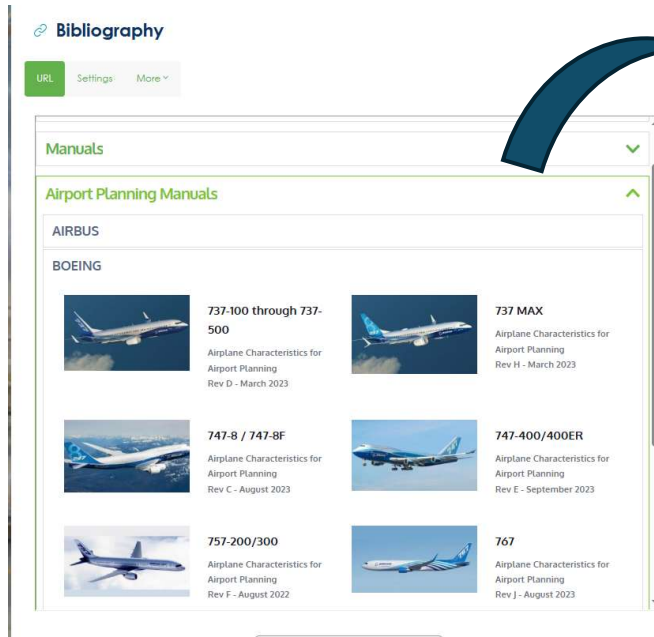
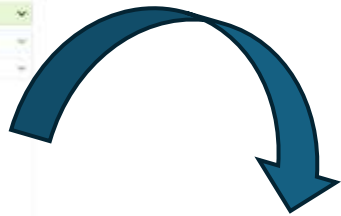
757-200/300

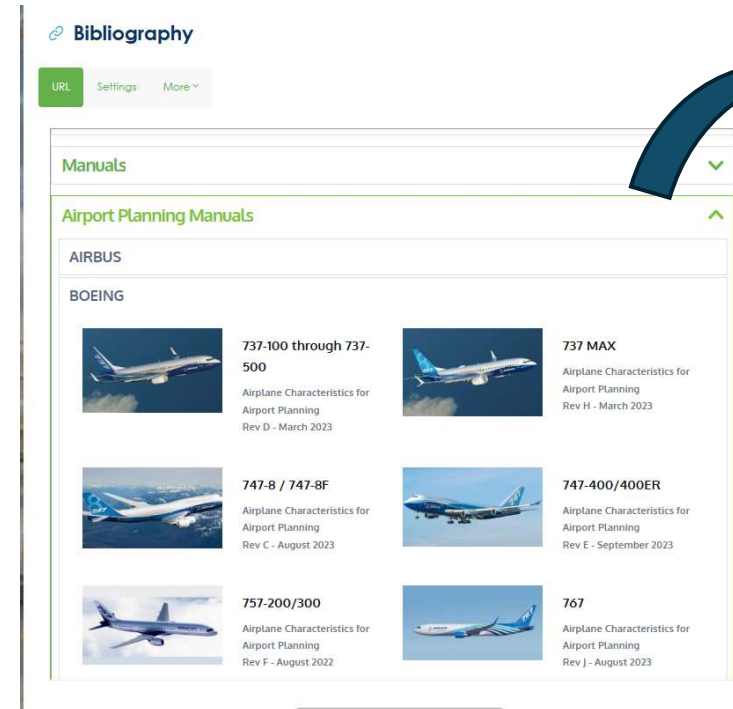
Airplane Characteristics for
Airport Planning
Rev F - August 2022



767

Airplane Characteristics for
Airport Planning
Rev J - August 2023





4. Qualifications & Occupations

[NEWS](#)[GIFAS](#)[OBSERVATORY](#)

Company reportDocument events

EN

MEMBER LIST

CAREERS & TRAINING

The member companies of GIFAS employ 188,000 people in their aerospace activities in France.

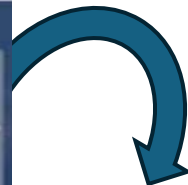
Due to its growing production, the aerospace sector is constantly recruiting. We estimate that each year, this leads to 15,000 jobs, mainly for indefinite-term full-time positions. GIFAS takes a wide range of actions to promote training and hiring.



TEACHING AND LEARNING

Digital Learning for Green Air Transport and Logistics

The project addresses three research priorities in the aviation sector with a focus on the innovative and transformative results and practices.

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