

AVIONIC Learn Platform

Future-Proofing Aviation Education: Innovative Curriculum and Digital Tools

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21.01.2025 Workshop



A high-contrast, black and white photograph of a jet engine's front section. The fan blades are visible on the left, and the compressor section with its characteristic ribbed, metallic texture is on the right. The lighting highlights the metallic surfaces and the complex engineering of the aircraft component.

AVIONIC LEARN

ONE STOP SHOP APPROACH

GREEN AIR TRANSPORT AND

LOGISTICS



AVIONIC Learn Landing Page

Access to latest global, regional, national **NEWS** on topic always available for:

- Professionals
- Students
- Industry
- Academia

Open Educational Resources



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
BETA

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News

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The latest news, analysis and opinion on Aviation industry



ACI
ACI World Airport Traffic Forecasts
2023–2052

AIR TRAFFIC FORECASTS AT GLOBAL,
REGIONAL, AND COUNTRY LEVELS



REPORT
60,000 jobs: New pilots needed to
fly 'air taxis'

Forecast on air taxi pilots compounded by
demand for more commercial pilots



PODCAST
Top Aviation Podcasts to Follow in
2024

Whether it's a light overview or a deeper
discussion, aviation podcasts offer both
professionals and enthusiasts the opportunity
to be included in conversations on topics affecting
the industry



ANALYSIS
Analysis: Old Tech Boeing 737 &
Airbus A320 Planes Make Up 70% Of



CFM INTERNATIONAL
Future of Aviation



CFM INTERNATIONAL
Non-Synchronous Vibration: EASA
Calls For New Checks On LEAP 1-A

Recordings

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ICAO Annexes



ICAO Manuals


[ICAO Airport Services Manual \(ASM\)](#)
[ICAO Aerodrome Design Manual \(ADM\)](#)
[Airport Planning Manual \(APM\)](#)

IATA Manuals



Airport Planning Manuals



Articles



Other Publications



About

[Home](#) > [About](#)

Hello, there!
We'll be glad to here from you.

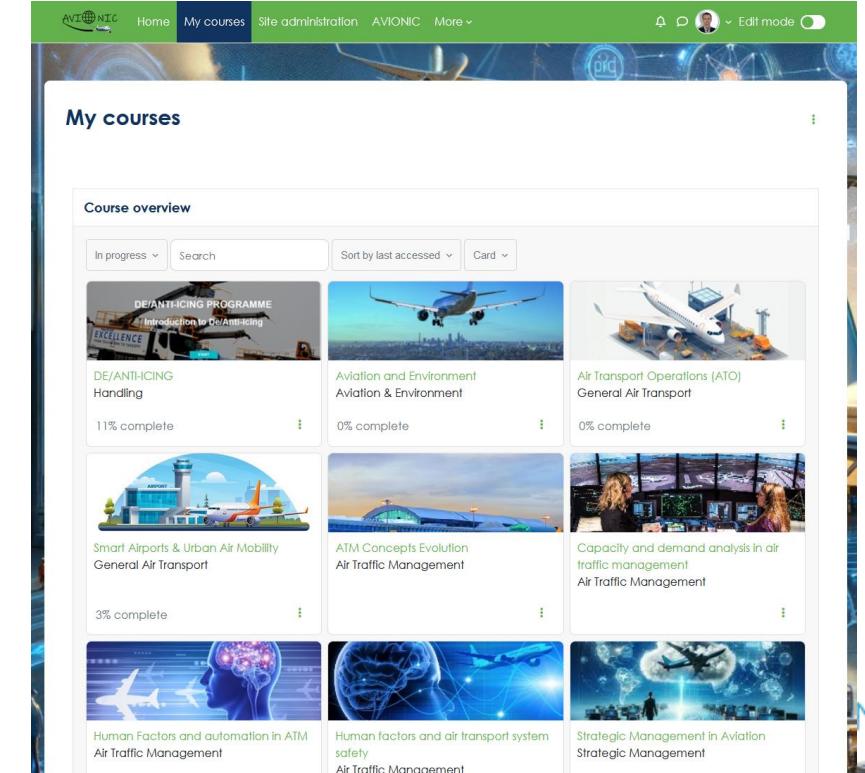
Contact us and we will be happy to answer your questions.

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[Send](#)


AVIONIC Learn landing page

Recordings

Recordings



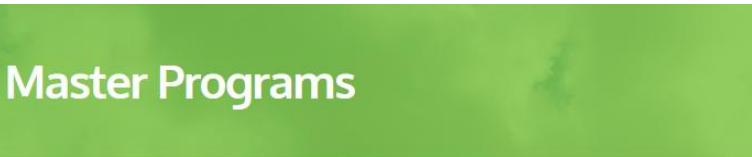
Future Of Aviation: Battery-Powered Planes
Produce Zero Emissions
A battery-powered plane nicknamed Alice made by Israeli company Aviation



The Future of Aviation with @IATAtv
In this keynote presentation for IATA in Vietnam, Hanoi, Matthew Griffin the @FanaticalFuturist and CEO of the @311_Institute explores the future of the aviation industry, the threats to its security and safety, and the new

Master programs

Master Programs



[UNESCO Chair "Engineering for Society" within the POLITEH](#)

[Polytechnic University of Madrid \(Universidad Politécnica de](#)

[Université de Strasbourg, France](#)

Access to latest global, regional, national **recordings**, available for different levels of experience:

- Professionals
- Students
- Industry
- Academia

Bibliography



ICAO Annex 14

ICAO Airport Services Manual (ASM)

Part 1 - Rescue and Fire Fighting
Doc 9137-AN/898
Fourth Edition, 2002

Part 3 - Wildlife Control and Reduction
Doc 9137
Fifth Edition, 2020

Part 6 - Control of Obstacles
Doc 9137-AN/898
Second Edition, 1983

Part 8 - Airport Operational Services
Doc 9137-AN/898
First Edition, 1983

Part 2 - Pavement Surface Conditions
Doc 9137-AN/898
Fourth Edition, 2002

Part 5 - Removal of Disabled Aircraft
Doc 9137F6-AN/898
Fourth Edition, 2009

Part 7 - Airport Emergency Planning
Doc 9137-AN/898
Second Edition, 1991

Part 9 - Airport Maintenance Practices
Doc 9137-AN/898
First Edition, 1984

ICAO Aerodrome Design Manual (ADM)

My learning journey

My courses





Introduction to De/Anti-icing
EXCELLENCE
From Touchdown to Takeoff

DE/ANTI-ICING
Handling

11% complete



Aviation and Environment
Aviation & Environment

0% complete



Air Transport Operations (ATO)
General Air Transport

0% complete





Smart Airports & Urban Air Mobility
General Air Transport

3% complete



ATM Concepts Evolution
Air Traffic Management



Capacity and demand analysis in air traffic management
Air Traffic Management



AVIONIC Learn- My courses

- Courses overview from multiple stakeholders, multidisciplinary approach, one unified educational journey
- Multiple display, search options, progress completion rate, save for later, forum with peers, discussion corner, badges upon completion

My courses

Course overview

In progress Search Sort by last accessed Card

DE/ANTI-ICING PROGRAMME
Introduction to De/Anti-icing

EXCELLENCE
From now to forever

DE/ANTI-ICING Handling 11% complete

Aviation and Environment Aviation & Environment 0% complete

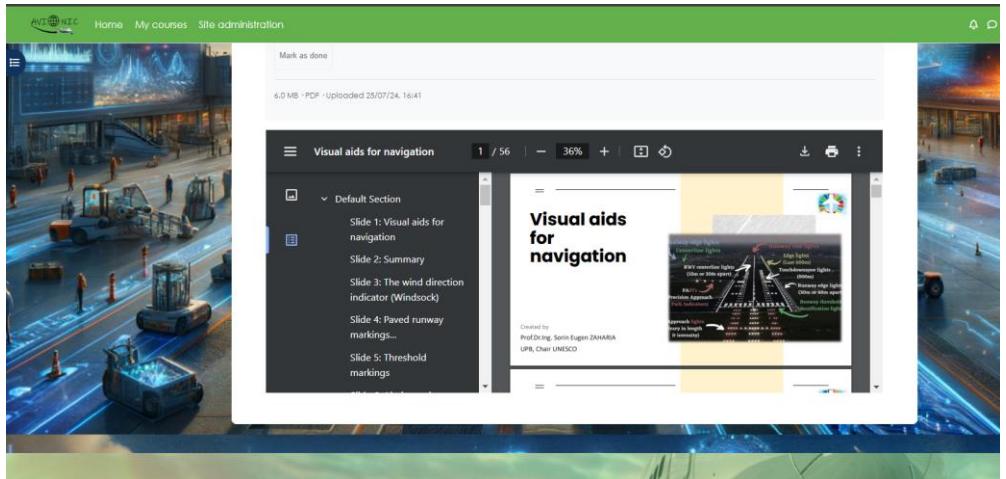
Air Transport Operations (ATO) General Air Transport 0% complete

Smart Airports & Urban Air Mobility General Air Transport 0% complete

ATM Concepts Evolution Air Traffic Management 0% complete

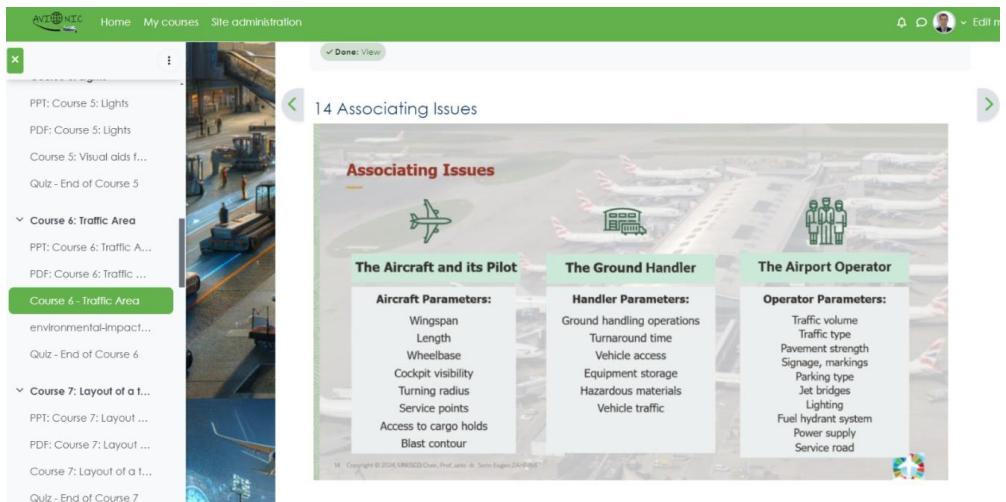
Capacity and demand analysis in air traffic management Air Traffic Management 0% complete

Curriculum design Project branding



The screenshot shows a Moodle course page titled 'Visual aids for navigation'. The page includes a navigation sidebar with links to 'Default Section', 'Slide 1: Visual aids for navigation', 'Slide 2: Summary', 'Slide 3: The wind direction indicator (Windsock)', 'Slide 4: Paved runway markings...', and 'Slide 5: Threshold markings'. The main content area displays a slide titled 'Visual aids for navigation' with a diagram illustrating various runway lighting systems and their functions. The slide is attributed to 'Prof Dr Ing. Svenn-Eugen ZAHABIA UPR, Chair UNESCO'.

Intuitive navigation of the learning path



The screenshot shows a Moodle course page titled '14 Associating Issues'. The page features a sidebar with course navigation and a main content area titled 'Associating Issues' with three sub-sections: 'The Aircraft and its Pilot', 'The Ground Handler', and 'The Airport Operator'. Each sub-section lists parameters and associated issues. The sidebar also lists other courses and quizzes.

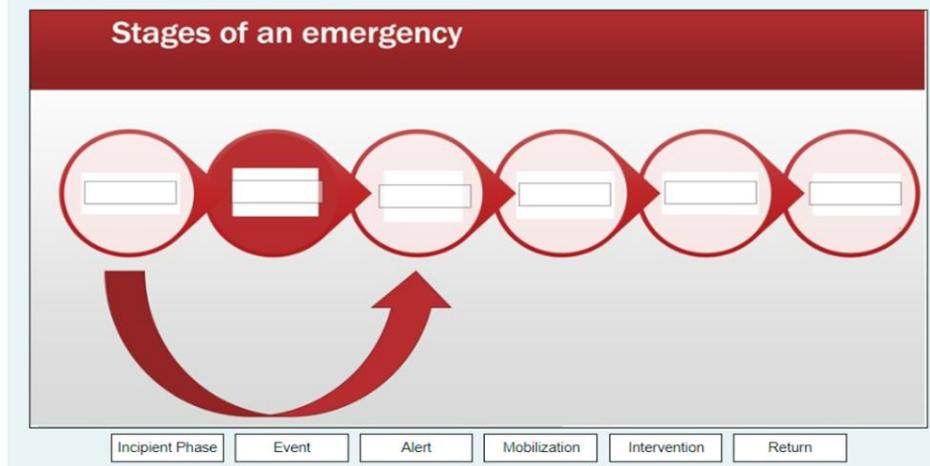
| Course | Content |
|-----------------------------|---------|
| PPT: Course 5: Lights | |
| PDF: Course 5: Lights | |
| Course 5: Visual aids f... | |
| Quiz - End of Course 5 | |
| Course 6: Traffic Area | |
| PPT: Course 6: Traffic A... | |
| PDF: Course 6: Traffic ... | |
| Course 6 - Traffic Area | |
| environmental-impact... | |
| Quiz - End of Course 6 | |
| Course 7: Layout of a t... | |
| PPT: Course 7: Layout ... | |
| PDF: Course 7: Layout ... | |
| Course 7: Layout of a t... | |
| Quiz - End of Course 7 | |



- The AVIONIC project seeks to prepare future aviation professionals for a sustainable future by integrating gamified learning experiences into a comprehensive curriculum.
- By integrating gamified learning experiences and engaging approach to learning, the project aims to equip learners with the digital and green skills necessary to navigate the complexities of the modern aviation industry

Question 1
Not yet answered
Marked out of 1.00
Flag question
Edit question
v2 (latest)

Put the cards in the correct order:



Next page

Question 4
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Associate each term/component with the corresponding image:



Previous page

AVIONIC Learn- My courses, gamified learning

Question 3
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Match Distances Associated with the Aerodrome:

Sense of use

Unbalanced system

The diagram illustrates an unbalanced runway system. An airplane is shown on the left, facing right. The runway is a grey rectangle with a red 'Stopway' at the end. A green 'Clearway' is located to the right of the stopway. The diagram shows the 'Sense of use' with arrows indicating the path. Below the diagram are four boxes labeled LDA, TORA, ASDA, and TODA.

Previous page

Next page

Question 5
Not yet answered
Marked out of 1.00
Flag question
Edit question
v1 (latest)

Associate each term with the corresponding image:

The game involves matching five terms with five corresponding runway diagrams. The terms are: 1. Low, 2. High, 3. Too Low, 4. Too High, and 5. Correct Path. Each term is paired with a diagram showing a different configuration of runway lights (e.g., red, green, or off). Below the diagrams are four buttons: Low, High, Too Low, Too High, and Correct Path.

AVIONIC Home My courses Site administration

Quiz - End of Course 2 - Part 2

Quiz Settings Questions Results Question bank More

Time left 0:09:21 Hide

Question 5
Not yet answered
Marked out of 1
Flag question
Edit question
v3 (latest)

Match the following terms with their correct definitions:

| | |
|--------------|-----------|
| Stopway | Choose... |
| Clearway | Choose... |
| RESA | Choose... |
| Runway Strip | Choose... |

Choose...
A clear area beyond the runway end used for the initial climb of the aircraft.
An area beyond the runway intended to reduce damage in case of overrun.
An area that allows an aircraft to complete an interrupted take-off without damage.
A safety area including the runway and stopways.

Previous page

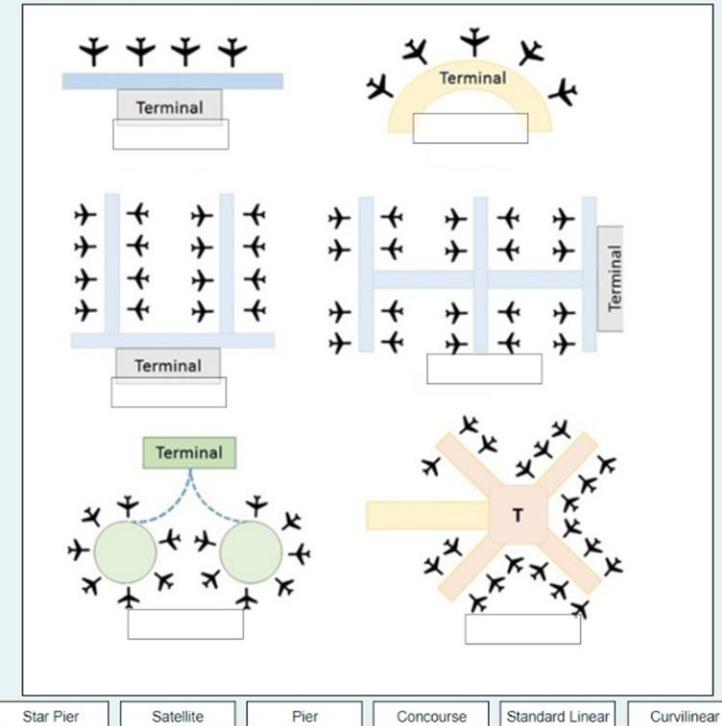
page ?

AVIONIC

AVIONIC Learn- My courses, gamified learning

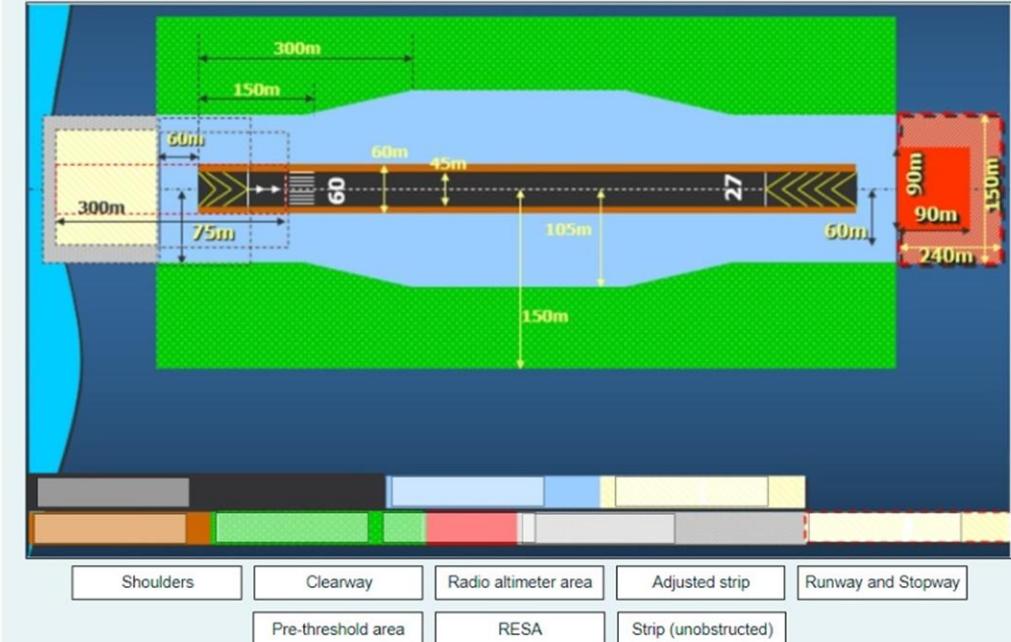
Question 1
Not yet answered
Marked out of 1.00
Flag question
Edit question
v3 (latest)

Associate each term with the corresponding terminal type:



Question 8
Not yet answered
Marked out of 1
Flag question
Edit question
v2 (latest)

Associate each term/device with its corresponding place:



Previous page

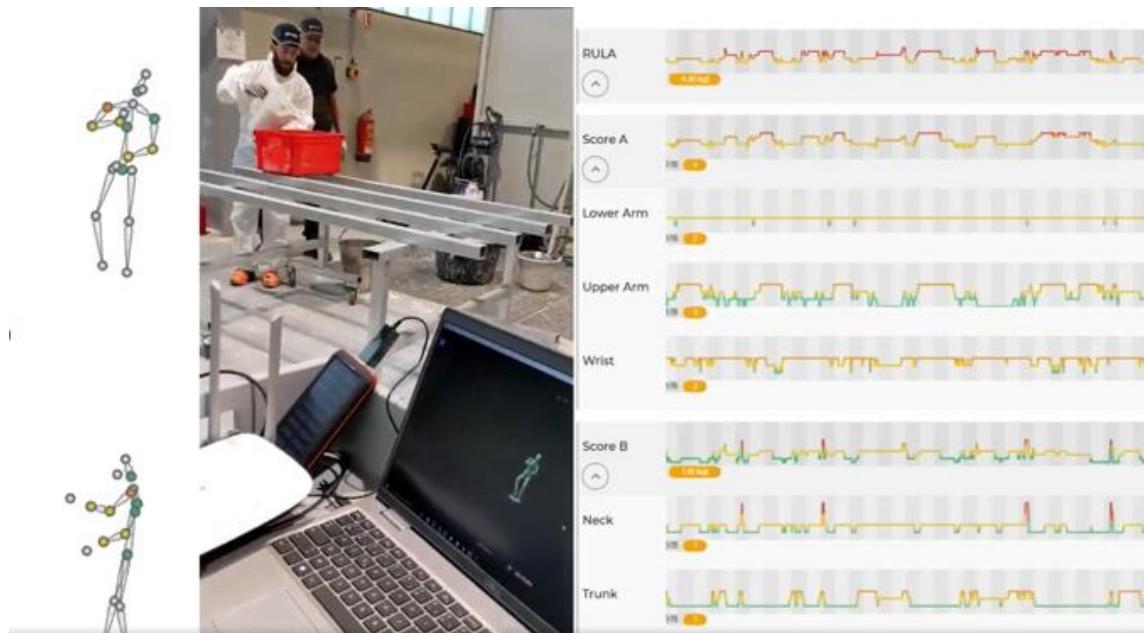
Finish attempt ... ?

VR education, “Hands-on” learning scenarios

Immersive Learning Experience

Enhanced Knowledge Retention

VR training can be significantly more cost-effective than traditional methods, especially for industries that require specialized training or expensive equipment



Interactive Assessments

VR-based assessments offer real-time feedback and allow learners to practice skills repeatedly in a safe environment.





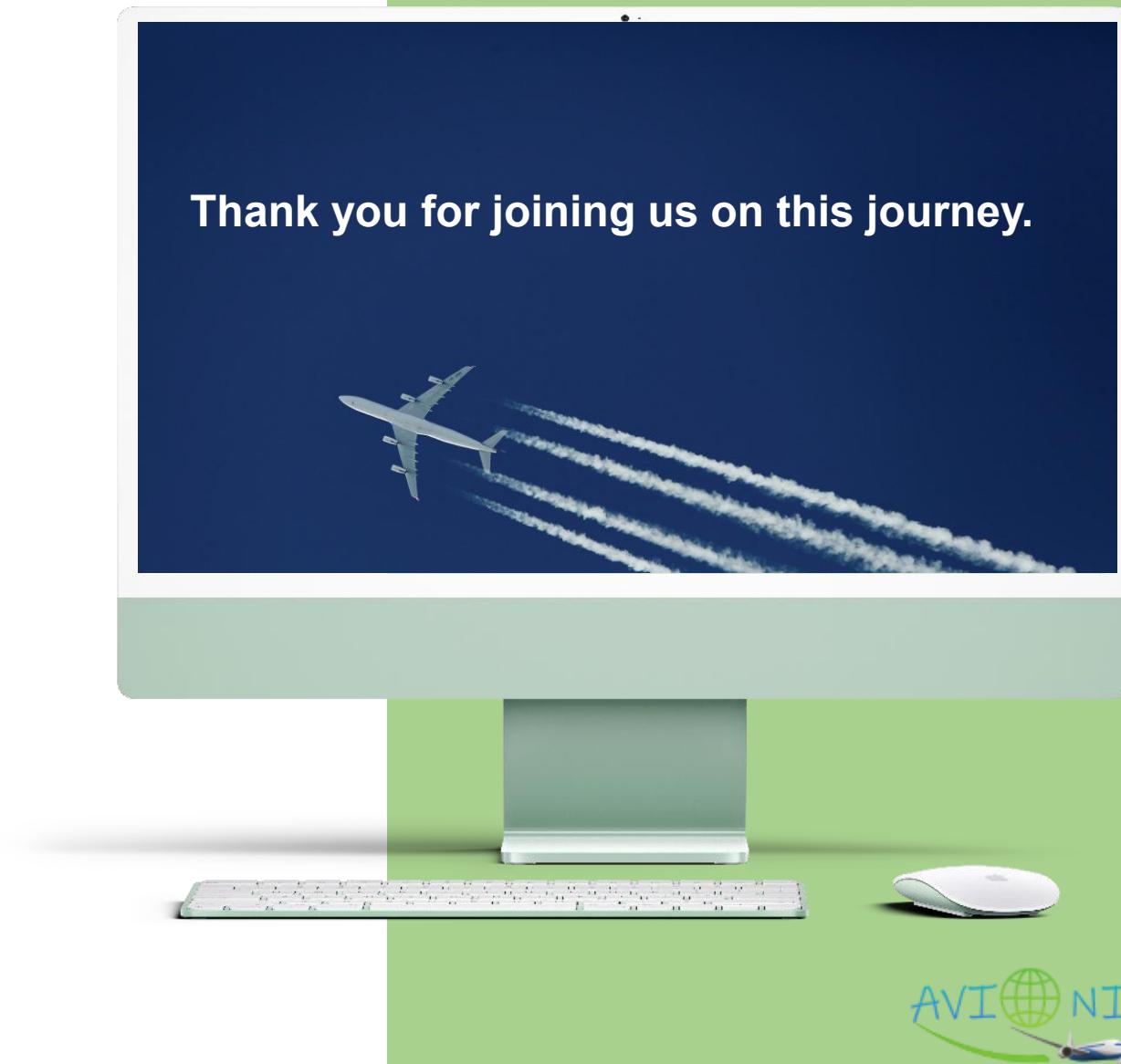
Co-funded by the
Erasmus+ Programme
of the European Union

2022-1-RO01-KA220-HED-000086424



As we prepare to land from the AVIONIC learning journey, let us take a moment to appreciate the smooth flight we have experienced, navigating complex subjects and learning anew.

Thank you for joining us on this journey.



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