### **Check D Team - Civil Aviation Exercise**

Aircraft Flight Operations and Maintenance

Mark Ludwig Milano, Gabriele Cappelletti, Pasquale Scarano, Nicola Biscione

1/03/2024 - rev.1





## **Table of Contents**

► <u>Definition of Civil Aviation</u>

► Civil Aviation Stakeholders



#### What is Civil Aviation?



- Civil Aviation encompasses a range of services, encompassing not only the aspects visible to passengers but also technical and economic activities, personnel, organizations, and regulatory bodies.
- These entities collectively facilitate the standardization and advancement of services in adherence to safety and security standards.



#### **Civil Aviation Overview**



- Commercial Aviation: Scheduled passenger and cargo flights.
- General Aviation: Private planes, corporate jets, air taxis, flight training, and special operations.
- Airport Operations: Airports, air traffic control, maintenance facilities, ground services.



## **Regulation, Impact, and Environment**



- Regulation: Civil aviation is heavily regulated by national agencies (e.g., FAA, CAA) and the ICAO.
- Economic Impact: Vital to the global economy, creating millions of jobs in airlines, manufacturing, airports, and support services.
- Environmental Considerations:
   Ongoing research for more efficient aircraft, sustainable fuels, and operational changes.



# **Industry Participants**

- Operators: Commercial airlines, cargo airlines, air taxis/charters, aircraft lessors.
- Airports: Operators of facilities for passenger and cargo handling, takeoff and landing.
- Aerospace Manufacturers: Companies designing and building aircraft, engines, and related equipment.
- Air Traffic Management Providers: Entities responsible for the safe and efficient flow of air traffic in a specific airspace.
- Service Providers: baggage handling, cargo loading/unloading, aircraft cleaning, etc.



# **Regulatory Bodies and Other Stakeholders**

- National Aviation Authorities: Like the FAA (US), CAA (UK), ENAC (Italy), responsible for safety regulations, licensing, and oversight within their jurisdiction.
- International Civil Aviation Organization (ICAO): A UN agency setting global standards and coordinating international air travel.
- Passengers: Individuals using air travel for business, leisure, and other purposes.
- Approved Maintenance Organizations: Companies operating under part 145, dealing with aircraft maintenance.
- Communities Surrounding Airports: Residents and businesses potentially impacted by airport operations.
- **Financial Institutions:** Banks, investors, and insurers providing financial services to the industry.