



Aerospace Lifecycle Value

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Agenda



AFRA's Foundational Leadership

Our Journey

Our Future

Call to Action

AFRA's Foundational Leadership



As a founding member of AFRA, Boeing is proud of:

Supporting collaborative,
industry-wide efforts

Strengthening transparency
and traceability

Informed decision-making
across aircraft end-of-service
management

Our Journey

Boeing & AFRA – Toward the next 20 years



2006
AFRA
Founded



2014
rCF Wing Fuel Tank
Access Doors demo



2019
Boeing CFRP
recognition (NAM)



2023
Boeing AFRA
Pledge



2025
Boeing Aircraft
Recycling
Program



2026
AFRA 20 Year
Commitment

2005

2010

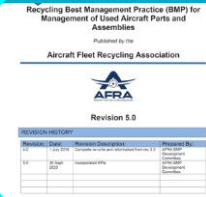
2015

2020

2025

Today

2008
AFRA BMPs
Published



2010
rCF Kayak
Paddle



2015
757 ecoDemonstrator
Dismantling Study



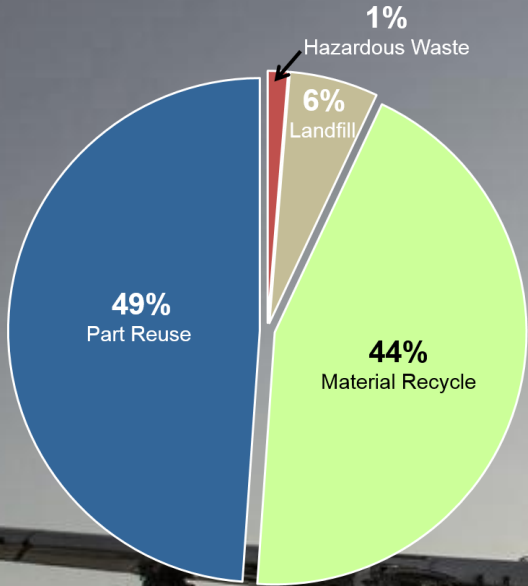
2021
Sidewall panel,
737-9 ecoDemonstrator



2026
787 Dismantling
study



757 ECODEMONSTRATOR STUDY (2015)



787 Dismantling Study



Test aircraft retired

Studying material recovery, separation, and simplification of dismantling processes for composite architectures

Learning together to establish best practices for new materials and data architecture

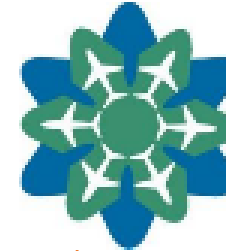
AFRA accredited partners



Acceleration Through Industry Partnerships

International Aerospace Environmental Group - Working Group 14

- Formed in 2024 to establish circularity priorities & identify regulatory landscape
- Define calculation methodologies & standards needs
- End of service management best practices & marketplace development



IAEG[®]

INTERNATIONAL AEROSPACE
ENVIRONMENTAL GROUP[®]

Aircraft Fleet Recycling Association

- Formed in 2006 to demonstrate industry action
- Improving industry safety, environmental responsibility
- Best Management Practices: certification standards



Green Cabin Alliance

- Formed in 2022 to reduce environmental impact of aircraft interiors
- Drive awareness & understanding of Sustainability issues in our sector
- Accelerate adoption of sustainable materials, processes and practices

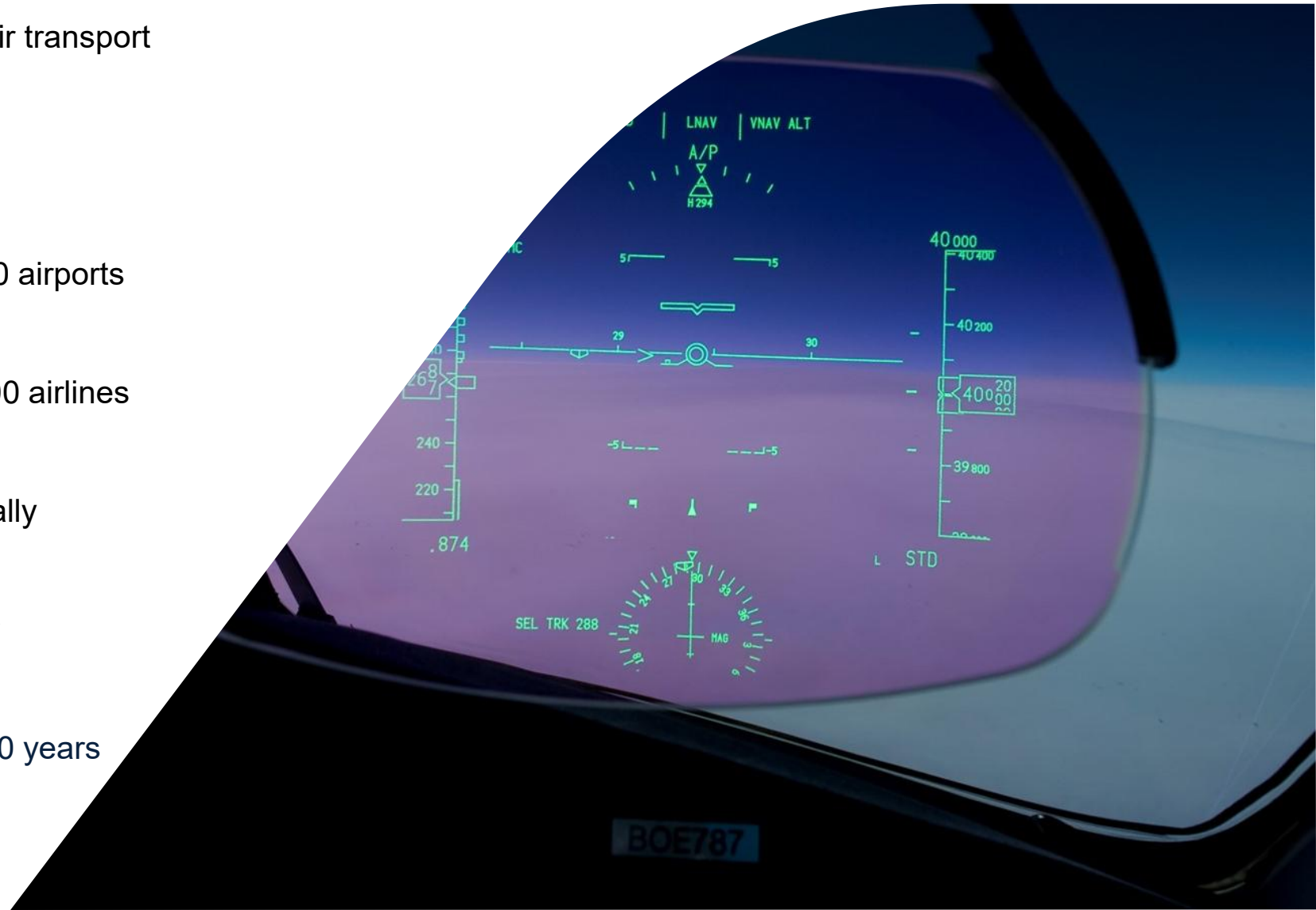


Our Future

Aviation's global importance

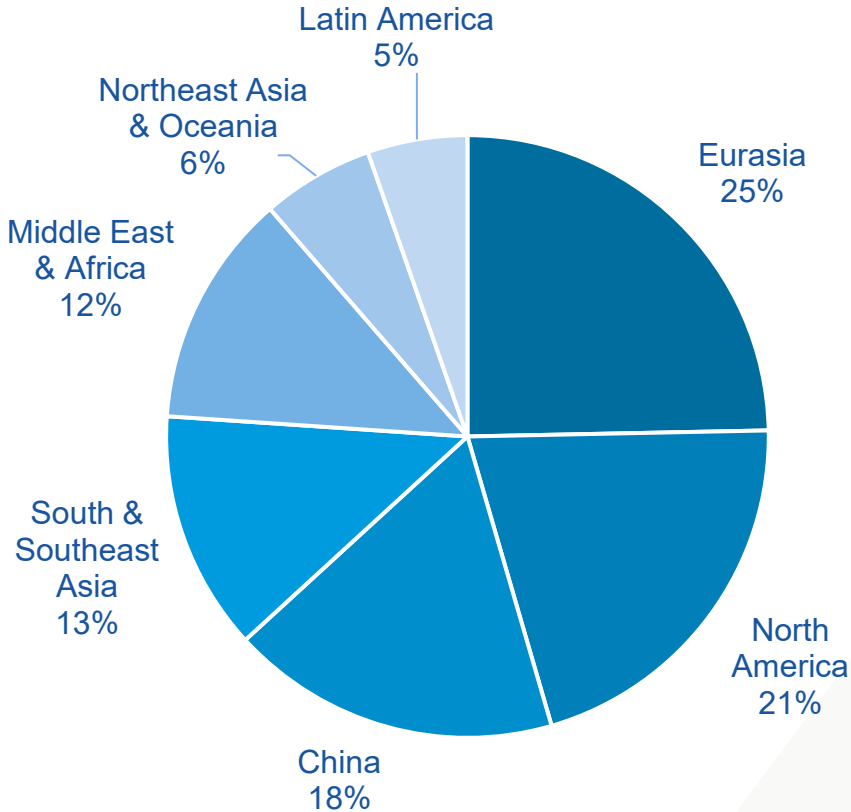
- **86.5 million jobs** supported by air transport
- **\$4.1 trillion** global economic impact
- **6.5 million people** work at 4,000 airports
- **2.7 million people** work for 1,400 airlines
- **\$950 billion** spent on aviation annually
- **4.4 billion** passengers flown per year
- **21,000 retirements** over next 20 years

Source: Air Transport Action Group



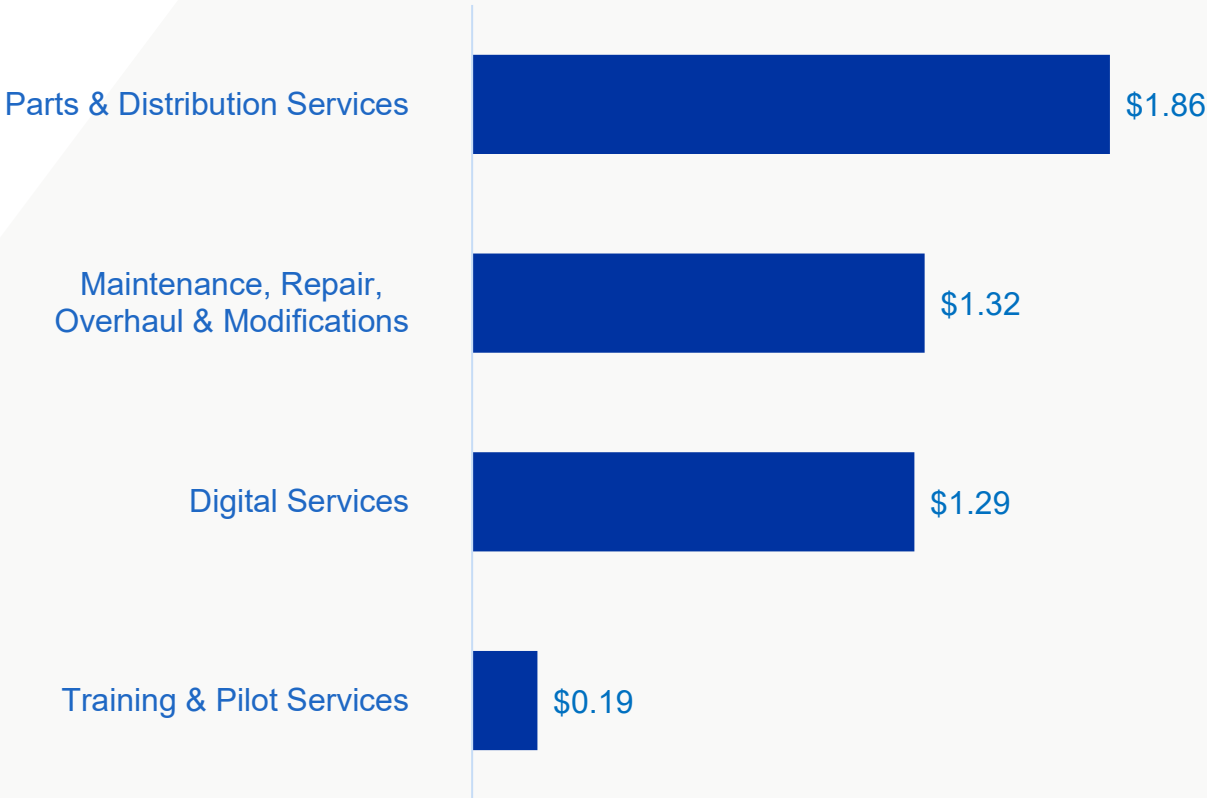
Commercial aviation will demand **\$4.7** trillion in services and **2.4M** new personnel over the next two decades

Services by Region



Services by Service Type

2025-2044 Trillions



Customer Needs

Quality & Safety

End of Service Solutions

Data Transparency

Circular Interiors

USM



Call to Action

Next 20 Years: Data, Transparency, Collaboration

Digital Transformation integration
as an enabler for proactive
measures

Product Transparency is now
a condition of global business

Cross-industry collaborations to
maximize economic benefit



Call to Action

AFRA members serve as the definitive source of truth for EoS data

Working together to enable product transparency

Data sharing and protection is essential

Industry Collaboration



