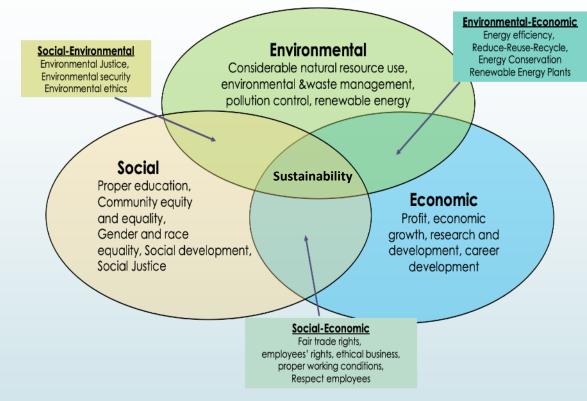
Flying to Net Zero with Sustainable ATOs; Changing cultures

Dr Eva Maleviti Program Coordinator in Aviation & Aerospace Sustainability College of Aviation, Department of Graduate Studies Embry-Riddle Aeronautical University



What is Sustainability?

- World Commission on Environment and Development's (WCED) 1987 Brundtland Report ''Our Common Future''.
 - Help world nations towards sustainable development.



Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs (Brundlandt Report 1987).



17 Sustainable Development Goals

- The start of all industries are the 17 SDGs
- Aviation can address the 15 SDGs
 - Net zero target suggest reduction of aviation emissions up to 21.2 Gt CO2



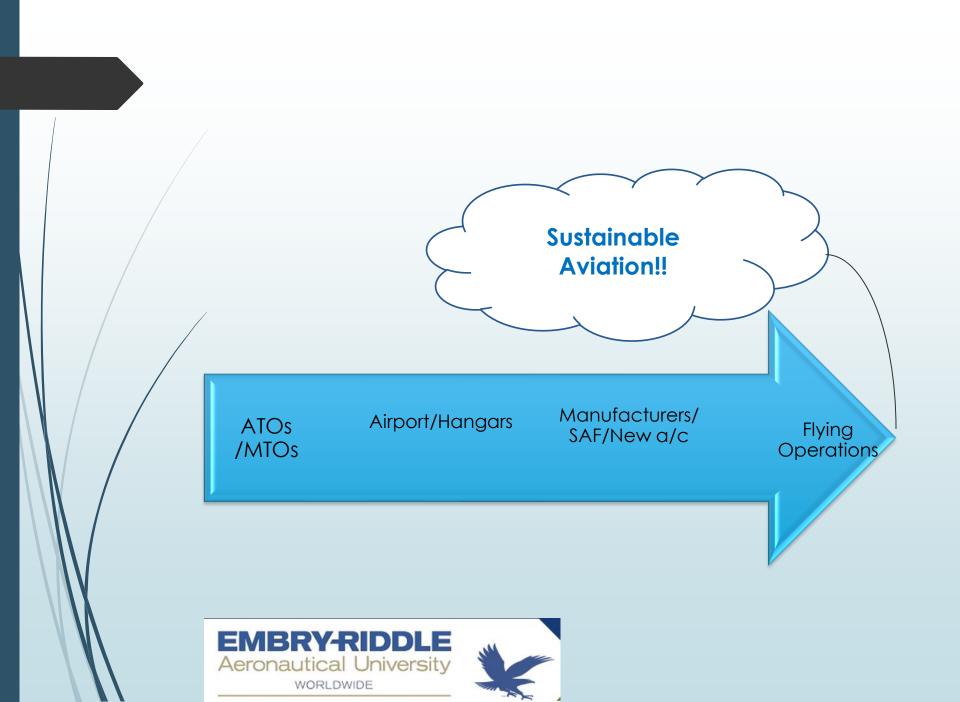


Aviation is making sustainability priority.

Aviation Experts and Executives prioritize sustainability.

Airlines have improved fuel efficiency by 20-30% per pkm.

Airlines are commiting to achieving net-zero carbon emissions by 2050.



Flight training and Environmental Sustainability

- Flying Practices
- RVSM/Performance Based Navigation
- Synthetic flying training
- Fly sustainable A/C designs
- Sustainable Aviation Fuels



How do we Change Cultures? (Social Sustainability)

- Familiarity
- Communication
- Adaptation
- Participation



ATOs as Facilities & Economic Sustainability

- Use energy and water sensibly, recycling practices,
- Use electronic material with less printed paperwork.
- Implement energy and environmental management systems
- Environmental and energy systemic pathways.
- Energy bills are increasing in EU countries, hence for ATOs too



Thank you!!

Questions?!

For more info: Eva Maleviti :<u>malevite@erau.edu</u>

