



Destination Green: The Next Chapter Ms. Jane Hupe Deputy Director, Environment, ICAO







ICAO Strategic Objectives:

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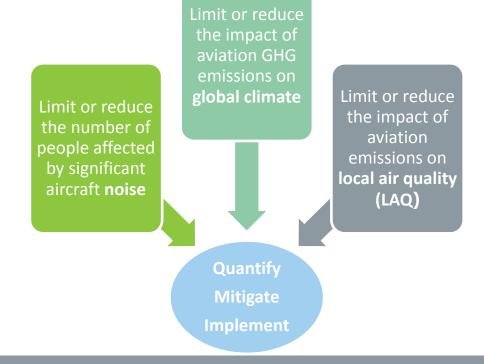


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ICAO Environmental Goals

ICAO Strategic Objective on Environmental Protection:

Minimize the adverse effect of global civil aviation on the environment







ICAO Environmental

Symposium 2019



And much happened since...

ICAO Environmental

Symposium 2019

- Aeroplane CO₂ emissions Standard
- nvPM Engine Emissions Standard
- Adoption of the Global Air Navigation Plan (GANP) and quantification of environmental benefits of ASBU B0 and B1
- CORSIA
- ICAO 2050 Vision on Sustainable Aviation Fuel
- Science-based information on climate change adaptation



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What could shape "green aviation"?







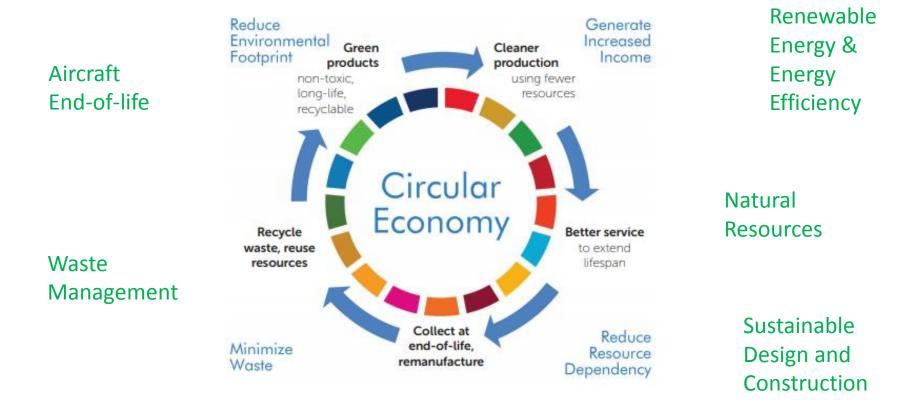
External Drivers

Fourth Industrial Resolution:

"Technological revolution ... that is blurring the lines between the physical, digital, and biological spheres." Klaus Schwab



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<u>Technology</u>













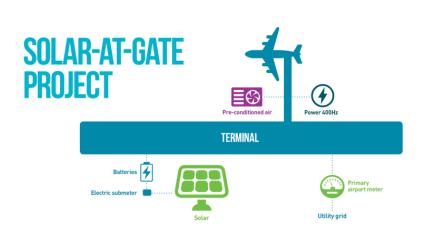
Clean energy

IN THE AIR

First ICAO Stocktaking Seminar toward the 2050 Vision for Sustainable Aviation Fuels (30 April – 1 May 2019)

- Supportive views on policies/regulatory; frameworks, financing, assistance and outreach
- SAF will play a major role in reducing international aviation emissions;
- ICAO will continue to facilitate the stocktaking process through: Second ICAO SAF Stocktaking Seminar (28 – 29 April 2020)

ON THE GROUND





Green and resilient airports

- ICAO Seminar on Green Airports, in cooperation with ACI (8 and 9 May 2019)
- **Context:** air traffic growth drives the need for more airport infrastructure. They need to be environmentally sustainable.
 - Robust environmental management system is essential to secure loans in a capital intensive sector;
 - Guidance needed on climate change risk assessment;
 - Community engagement is a must;
 - Airports are engaged in expanding their social footprint: from business-to-business to business-to-people





Climate Change Adaptation



Flooding at Kansai International Airport, Japan after typhoon Jebi. Photo: JIJI PRESS / Getty Images

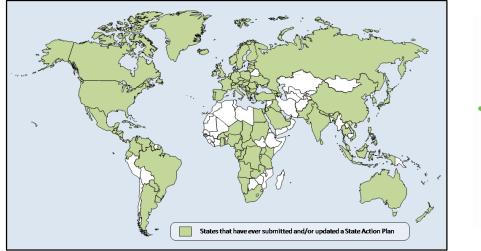


Svalbard Airport, Norway

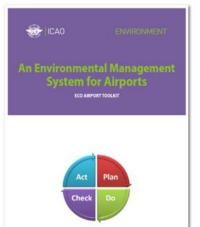




No Country Left Behind: The power of capacity-building









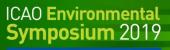
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International aviation aspirational goals

Assembly Resolution A39-2

- Reaffirms the global aspirational goals of 2% annual fuel efficiency improvement and carbon neutral growth from 2020;
- Requests the Council to continue to explore the feasibility of a long-term global aspirational goal for international aviation.
- Industry (ATAG): "aspirational goal to reduce net emissions from aviation by 50% by 2050 compared to 2005 levels" (ATAG, 2008)
- IPCC Special Report on Global Warming of 1.5°C.
- UNFCCC Paris Agreement on domestic emissions sources.
- 2019 Climate Summit calls for more ambitious action.





Agenda:	
Day 1	Session 1: Setting-the-scene
	Session 2: Two decades of Balanced Approach on Aircraft Noise: Impacts and Lessons Learned
	Session 3: 50 years of Annex 16, Volume I: The Role of Technology in Reducing Aircraft Noise
	Session 4: Aircraft Noise and Annoyance - when non-acoustic factors drive out of the box thinking
Day 2	Session 5: Local Air Quality - The Role of ICAO Standards
	Session 6: The ICAO Basket of Measures on CO2 Emissions Mitigation – Focus on Technology
	Session 7: The ICAO Basket of Measures on CO2 Emissions mitigation – Focus on Operations
	Session 8: The ICAO Basket of Measures on CO2 Emissions mitigation – Focus on Sustainable Aviation Fuels
	Session 9: The ICAO Basket of Measures on CO2 Emissions mitigation – Focus on CORSIA



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Agenda continued:

Day 3	Session 10: Green and Resilient Airports
	Session 11: International Aviation in a Circular Economy
	Session 12: ICAO Capacity-building and assistance activities on environmental protection – a success story
	Session 13: Three years to prepare for the next 30



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