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Addressing Future Environmental Needs

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Shenzhen, China/14 December 2018





OUR FLIGHTPLAN

- Environmental Protection in International Civil Aviation
- Future Challenges
- The profile of the pitch-perfect candidate





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ENVIRONMENTAL PROTECTION IN INTERNATIONAL CIVIL AVIATION





ICAO STRATEGIC OBJECTIVES



Safety



Capacity and
Efficiency



Security and
Facilitation



Economic
Development

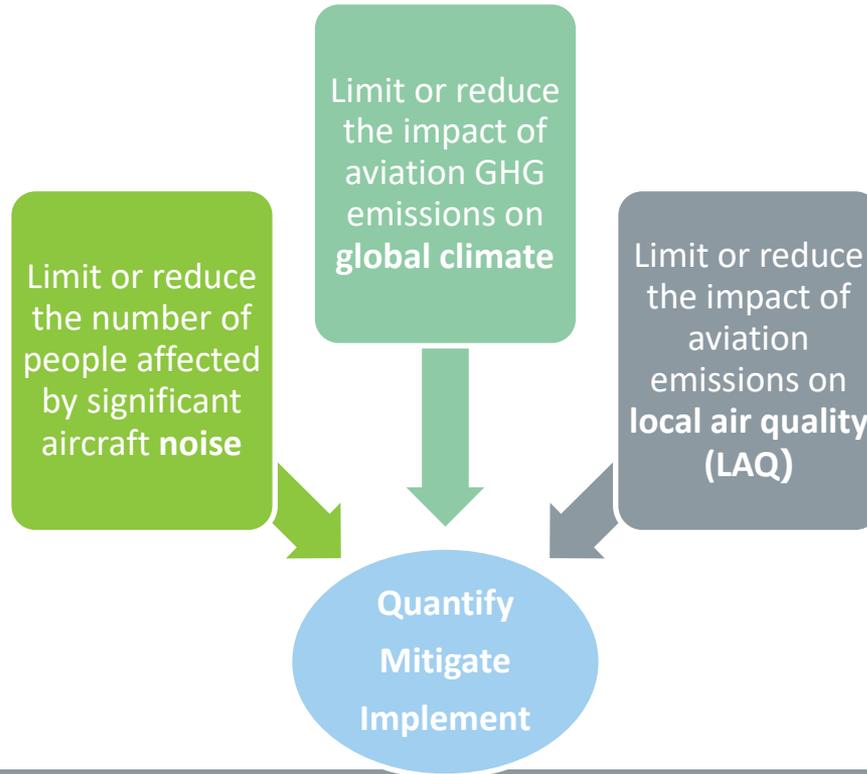


Environmental
Protection

ICAO SARPs and **GUIDANCE** on **ENVIRONMENTAL PROTECTION** serve the
CHICAGO CONVENTION

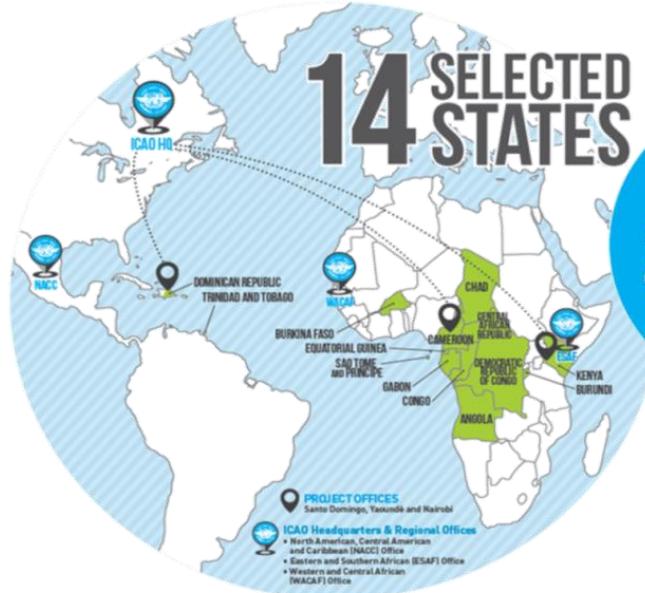


ENVIRONMENT: THREE GOALS – ONE STRATEGY





ICAO-EU Partnership



OBJECTIVE 1

ACTION PLANS DEVELOPMENT:
Improved capacity of the National Civil Aviation authorities to develop an Action Plan on CO₂ emissions reduction from international aviation in accordance with ICAO recommendations

OBJECTIVE 2

AVIATION ENVIRONMENTAL SYSTEMS (AES):
Efficient CO₂ emissions monitoring system for International aviation developed in each selected Member State

OBJECTIVE 3

IMPLEMENTATION OF MITIGATION MEASURES:
Priority mitigation measures identified, evaluated and partly implemented

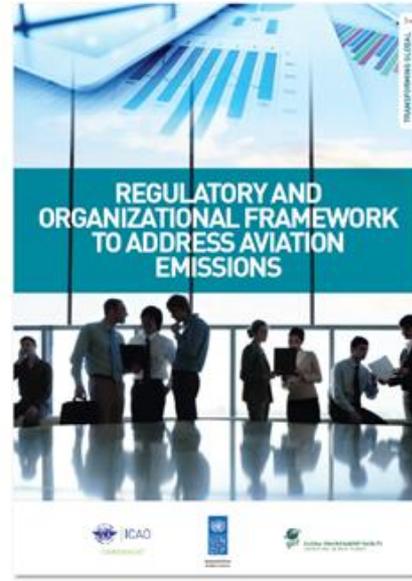
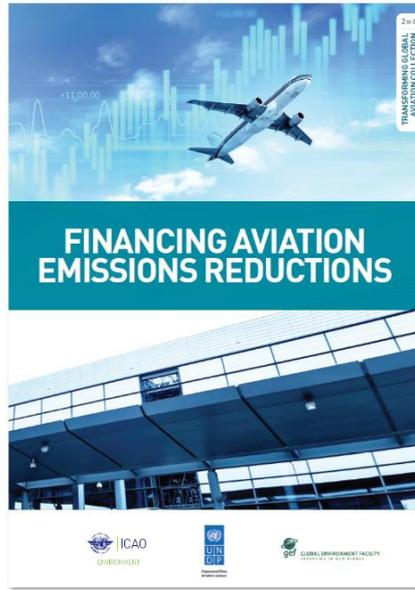
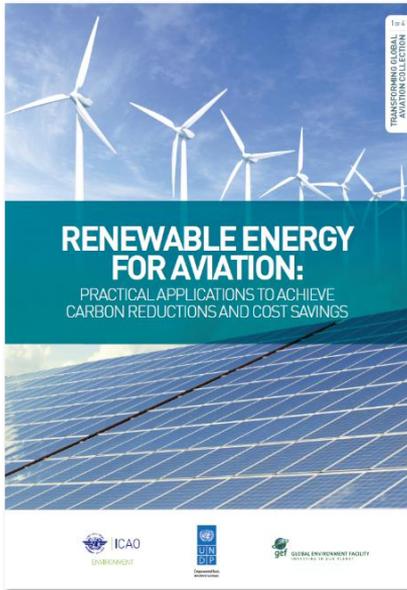


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ICAO-UNDP-GEF Partnership





SUSTAINABLE DEVELOPMENT GOALS

ICAO's work on environment contributes to **14 out of the 17** United Nations SDGs





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FUTURE CHALLENGES





Technology



Next generation aircraft



3D printing



Material science



Electric/hybrid aircraft



Maintenance



Electric/hybrid aircraft



Aircraft
End-of-life

Waste
Management



Renewable
Energy &
Energy
Efficiency

Natural
Resources

Sustainable
Design and
Construction



Climate Change Adaptation



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



Svalbard Airport, Norway



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Green Financing





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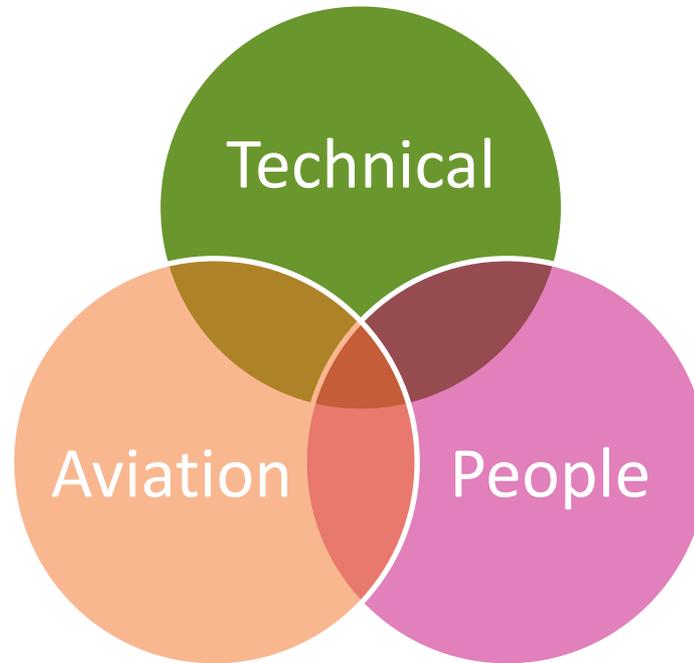


HOW DOES IT SHAPE FUTURE NEEDS?





PITCH-PERFECT CANDIDATE SKILLS





TECHNICAL SKILLS

- Develop expertise in mature and emerging environmental fields;
- Keep technical skills up to date in light of quick technological progress; and
- Be able to manipulate complex concepts and to think in a systemic way.



AVIATION SKILLS

- Understand aviation operations and economics to advise senior management and develop projects;
- Understand the impacts of environmental measures on economic development, capacity and safety; and
- Think local *versus* global.



PEOPLE SKILLS

- Able to make people work together;
- Able to address different audiences and adjust level of information – advocacy; and
- Keep abreast of the factors that are changing the world.



CONCLUSION

Be engaged.

Be accountable.

Make a difference.



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and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

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Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU