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New International Airport of Heraklion Crete
(IAHC)

**“Flying Towards Sustainability: Our Airport's
Commitment and Initiatives”**



Session 5: Transition to Cleaner Energy Sources and
Sustainable Infrastructure



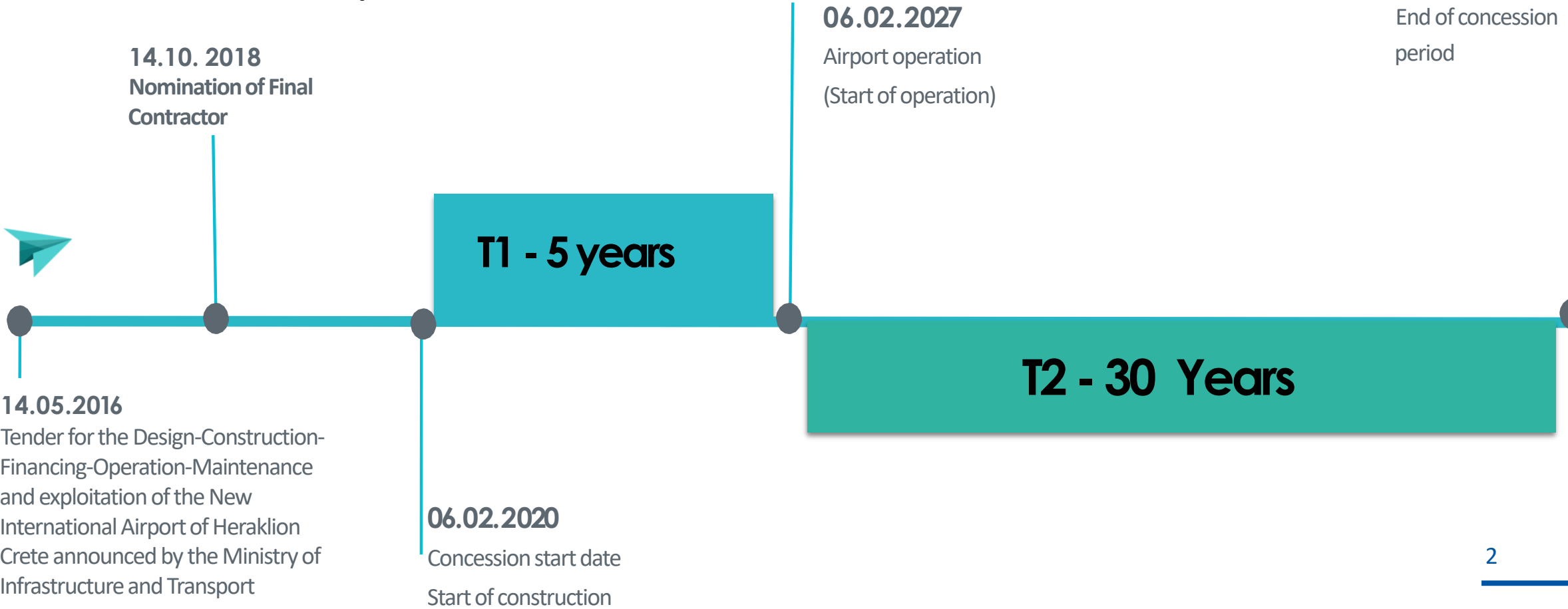


ICAO SEMINAR ON GREEN AIRPORTS

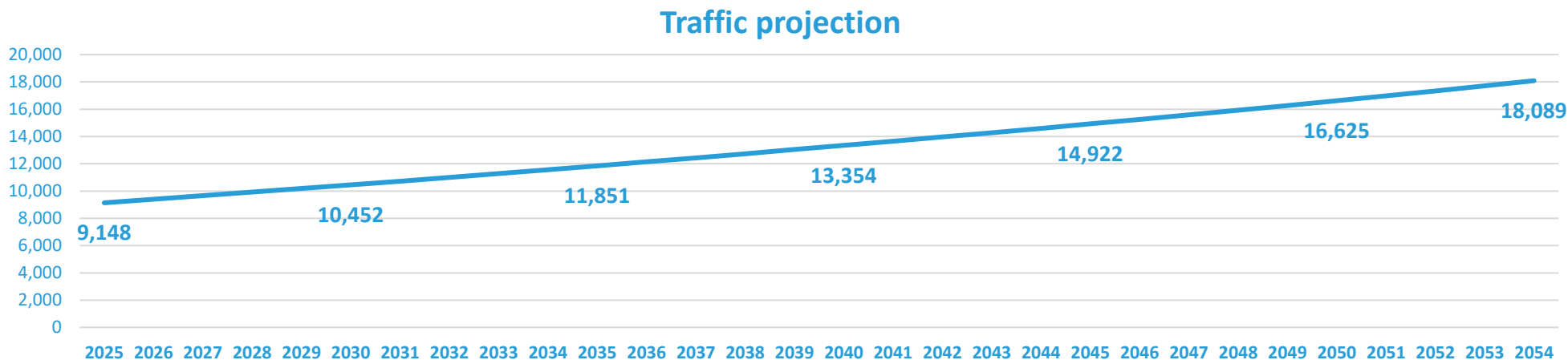
ATHENS, GREECE | APRIL 18-19, 2024

TIME HORIZON- New Heraklion Airport

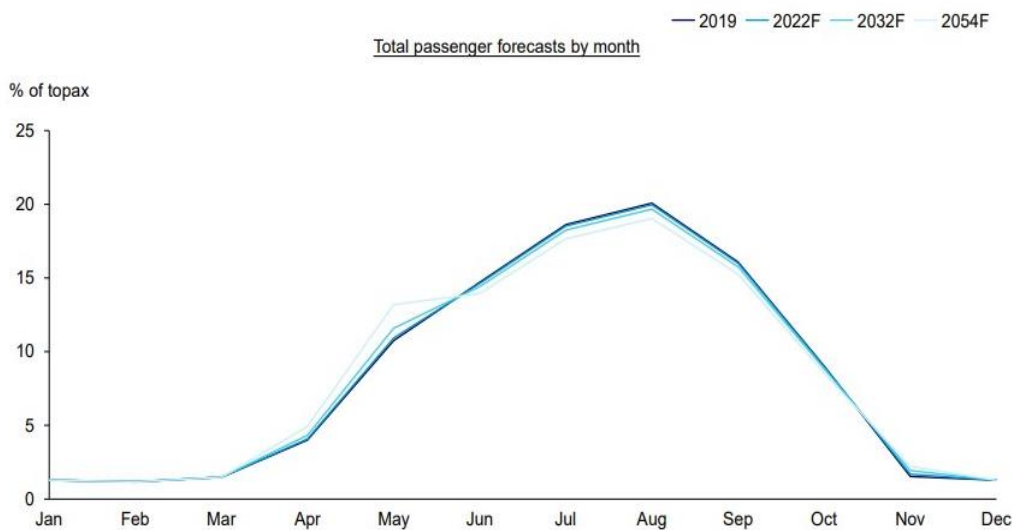
ICAO Green Airports 2024



Development of Passenger Traffic to Almost 20 Million



Amounts in thousand passengers



Remedies & Strategies : Turning Green

- ✓ No fossil fuel consumption in airport utilities
- ✓ Installation of solar panels & solar water heaters in each building
- ✓ Implement LEED in the largest buildings (e.g Main Terminal Building)
- ✓ Potable water recycling & reuse as service water
- ✓ Reuse of the water coming from the wastewater treatment plant.
- ✓ Rainwater collection & reuse (Future)
- ✓ Electrical vehicles in operations
- ✓ Increased use of natural light in buildings, even at covered areas
- ✓ Participation to ACI carbon accreditation
- ✓ Preparation for ISO 14001 and 50001



Waste management-actions

Construction phase

Waste separation according to the waste type (plastic, glass, hazardous waste, oil, Batteries etc.) and transfer to licensed facilities.

Yearly submission of the waste production report to the authorities

Operation phase

Development of a comprehensive waste management system inside the airport facilities promoting waste separation at the source and high recycling rates

Transportation of waste offsite where it will be managed by licensed final recipients

Treatment of wastewater by the 3rd degree wastewater treatment plant



Biodiversity-actions

IAHC will implement a comprehensive programme of actions aiming to protect Biodiversity at every aspect. Plant, animal species (with targeted actions regarding the endangered ones) ecosystems, habitats.

The biodiversity programme provides a framework within which IAHC is planning to manage biodiversity at the airport areas and close vicinity.



Construction phase

- Recording of flora and fauna in the greater area of the construction site
- Monitoring of species that are under protection status
- Reporting of the results

Operation phase

- Creation of a biodiversity management team
- Implement a targeted monitoring program
- Design and implement a wildlife management Plan targeted to the birds that exists in the greater area
- Cooperation with environmental organizations for implementing the best possible practices regarding the management of the protected species
- Regularly Reporting of the results

Noise-actions

Construction phase

Implementation of monitoring program

- Regular 24hour monitoring of noise emissions caused by the construction site using specially equipped noise measurement stations.
- Zone of 500 m from the New Airport construction site boundary was defined as a zone of potential impact for sensitive dust receptors.
- Publication of the results

Operations phase

- Installation of a noise monitoring system for the continuous monitoring of noise levels. The monitoring system will be connected with the radar so that correlations between measured noise levels and aircraft movements can be established based on the actual flight track information.
- The system consists of permanent and mobile stations installed at specific spots near the settlements and publish the results
- After the first year of operation and depending on the results of the monitoring program, there will be suggestion of specific action measures
- Implementation of a grievance mechanism in order complaints to be registered



Thank You

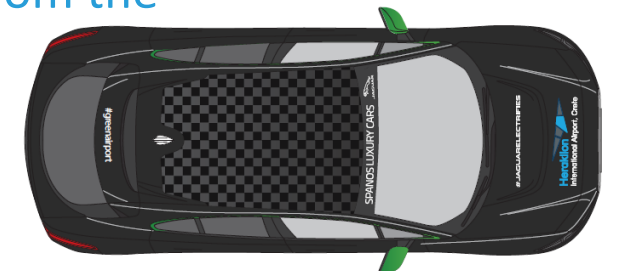


Appendix: Remedies & Strategies : Social Responsibility

Sustainability Awareness:

Protecting Natural Heritage & History, indicatively:

- a. Archeological Research for the New Airport Museum
- b. Transferring Monumental Olive Trees
- c. Rebuilding Religious Landmarks
- d. Community Cultural Engagement Activities
- e. Promoting the **E-Mobility** for the New Airport to Handlers
- f. The Airports Wastewater Treatment Plant will receive the effluents from the surrounding settlements



Premium Electric Car scheduled to be offered to existing Heraklion Airport for FOLLOW ME operations in Airside