



# ICAO APAC IMPLEMENTATION SUPPORT DIALOGUE

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DG

ACI Asia-Pacific & Middle East

26 January 2024

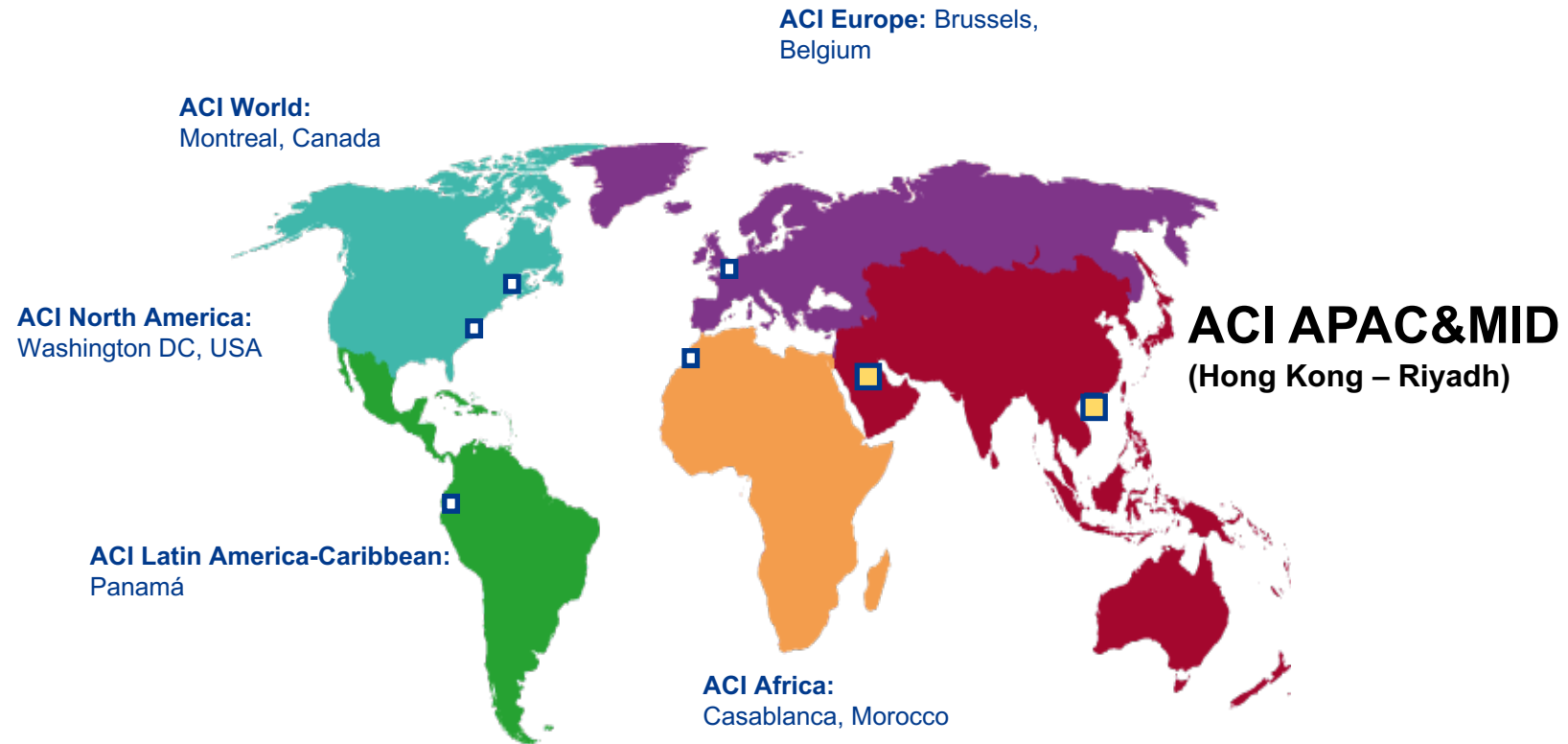
## ACI Asia-Pacific:

**the largest Region  
(from the Pacific to the  
Middle East)**

**with the highest number of  
airports represented  
(623)**

**with the highest degree of  
diversity (political, legal,  
linguistic, cultural  
standpoint)  
(47 countries/territories)**

# ACI MEMBERSHIP & REGIONAL OFFICES



***Vision: Putting Asia-Pacific and Middle East  
Airports at the forefront of global aviation***



The Voice of  
**Asia-Pacific &  
Middle East** Airports

# **KNOWLEDGE EXCHANGE & CAPACITY BUILDING IS THE CORE MISSION OF ACI APAC & MID**

# Ample Portfolio of ACI Services and Programs – How can we help?



Check & Fly  
ACI Health Measures Portal

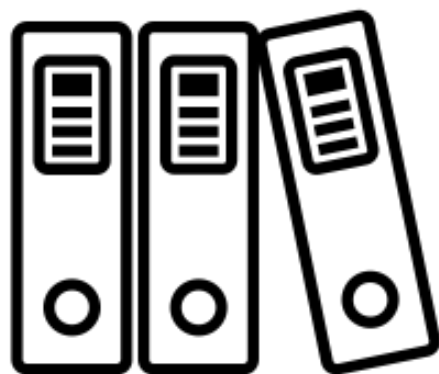


The Voice of  
Asia-Pacific &  
Middle East Airports

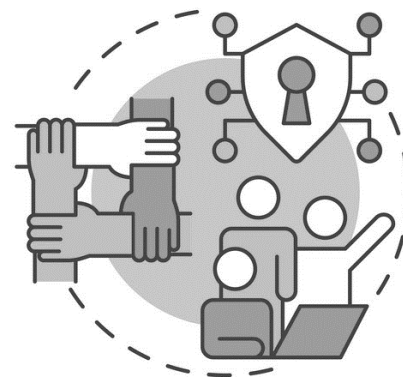
# Top areas of security assistance needed for small airports



Airport risk  
assessment



Documentation



Security culture



Implementation  
of measures (e.g.  
perimeter)



# How does ACI assist airports on security?



Security  
Committee



Security  
Training



Security  
Guidance



Airport assessment  
programme (APEX  
in Security)



Smart Security  
programme



# AIRPORT DAY

## Pacific Island Airports

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**2-3 November 2023 | Rarotonga, Cook Islands**

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**Workshop 1 – Route development for Pacific Islands airports**

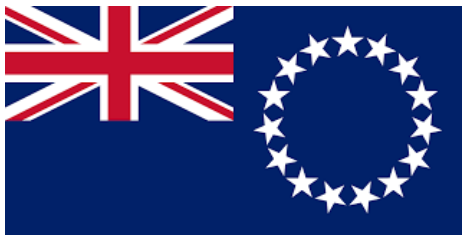
**Workshop 2 – Enhancement of aviation security for Pacific Islands airports**

**Workshop 3 – Pacific Islands airports' response to climate change**



# Participation

**50+ participants from 9 countries, including Tahiti**



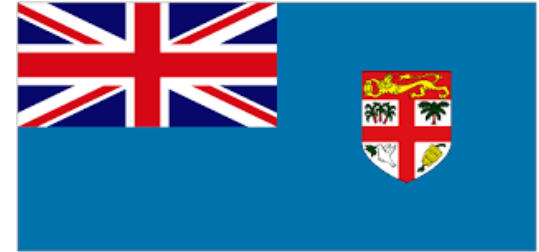
**Cook Islands**



**Kiribati**



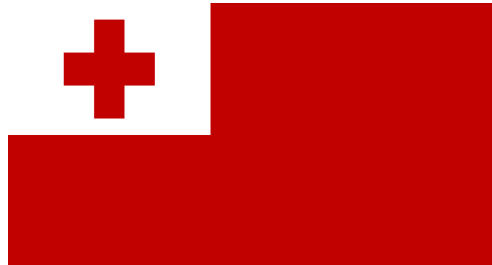
**French Polynesia**



**Fiji**



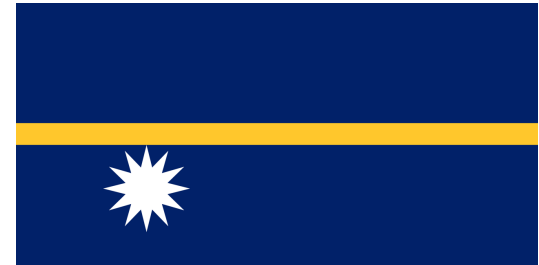
**Marshall Islands**



**Tonga**



**Samoa**



**Nauru**










# Recovery prospects from selected 100 airports in Asia-Pacific (81) & Middle East (19)

The study included:

Nadi – Fiji (2.455k)  
 Tahiti (1.471k)  
 Noumea – New Caledonia (565k)  
 Vanuatu (489k)  
 Rarotonga - Cook Islands (473k pax in 2019)  
 Faleolo – Samoa (395k)  
 Fua'amotu – Tonga (272k)  
 Nuaru – 51k

(August 2022 vs. August 2019)

Air Connectivity Index				City Pairs	
	No. of Airports	% of Fully Recovered Airports	Change in Index	Domestic	International
<b>Group 1</b> <i>&lt;1 mppa</i>	<b>20</b>	 25%	<b>-29%</b>	<b>-12%</b>	<b>-43%</b>
<b>Group 2</b> <i>1-5 mppa</i>	<b>12</b>	 58%	<b>+5%</b>	<b>-11%</b>	<b>-23%</b>
<b>Group 3</b> <i>5-15 mppa</i>	<b>26</b>	 54%	<b>-5%</b>	<b>-17%</b>	<b>-18%</b>
<b>Group 4</b> <i>15-25 mppa</i>	<b>9</b>	 44%	<b>-2%</b>	<b>-10%</b>	<b>-14%</b>
<b>Group 5</b> <i>25-40 mppa</i>	<b>9</b>	 67%	<b>+12%</b>	<b>+5%</b>	<b>-26%</b>
<b>Group 6</b> <i>&gt;40 mppa</i>	<b>24</b>	 38%	<b>-15%</b>	<b>-5%</b>	<b>-44%</b>
<b>Total</b>	<b>100</b>	 45%	<b>-9%</b>	<b>-7%</b>	<b>-32%</b>

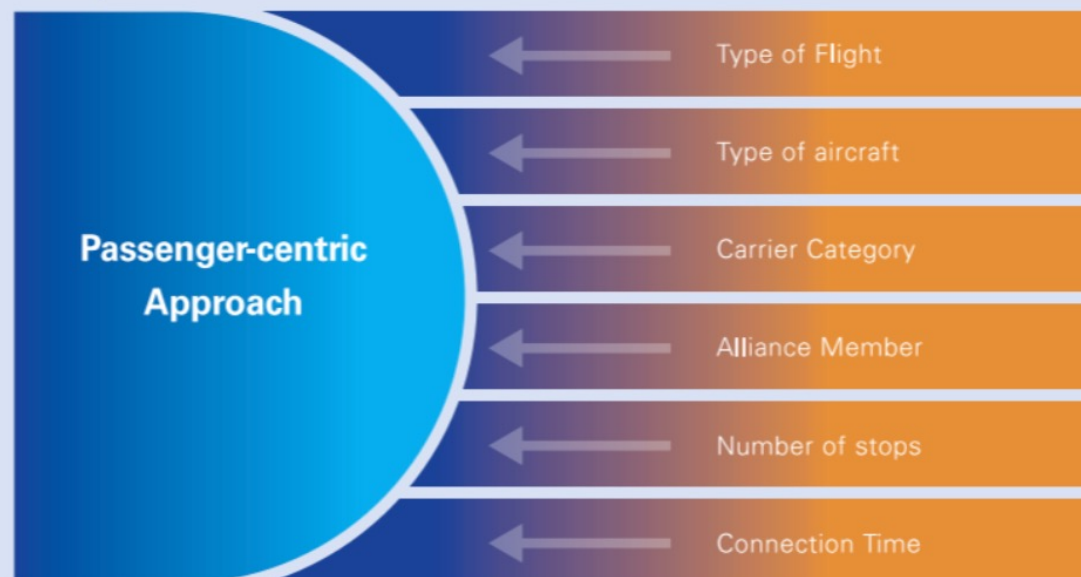
## Methodology of the ACI Asia-Pacific & Middle East Air Connectivity Index

Formula for the Connectivity Index

$$\text{Total Airport Connectivity} = \text{Direct Connectivity} + \text{Indirect Connectivity}$$

$$\sum_{\text{All destinations served}} \frac{\text{Number of available seats} \times \text{Destination size weightage} \times \text{Quality Index}}{\text{scalar factor of 10,000}}$$

Quality Index Parameters for Direct & Indirect Connections



## Asia-Pacific



A 10% increase in seat capacity is linked to a 3-3.8% increase in GDP of countries in Asia Pacific

The aviation industry contributed US\$1tn to the region's GDP in 2019, accounting for 3.3% of total GDP of countries in Asia-Pacific

# ACTION ITEM ARISING FROM THE 58TH CONFERENCE OF DIRECTORS GENERAL OF CIVIL AVIATION ASIA AND PACIFIC REGIONS

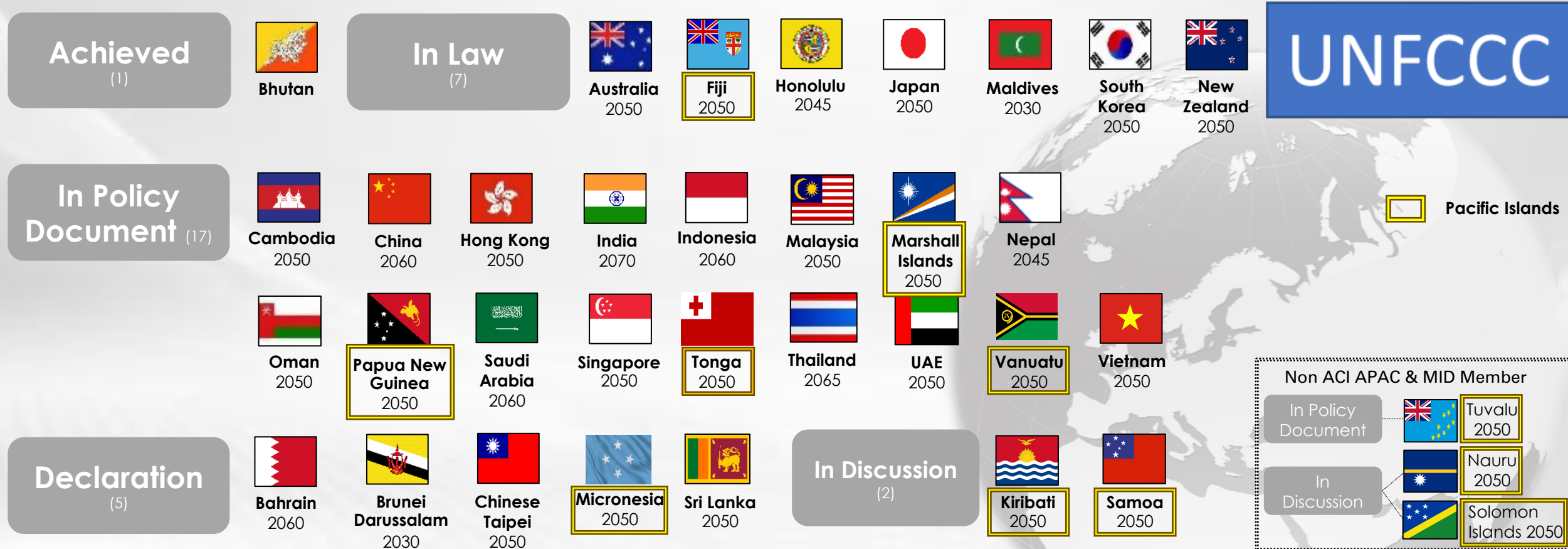
*“Recognising the capital expenditure (CAPEX) needs and decarbonisation challenges to accommodate future demand for air travel, the Conference encouraged States/Administrations to develop economic and financing frameworks to incentivise and facilitate CAPEX for airport infrastructure development, support the energy transition and facilitate access to green finance for aviation.” (DP/6/03)*

# Long Term Carbon Goal

## Commitment Status

### Remark:

- cover only the region in which ACI APAC & MID serves its airports
- include Net Zero and Carbon Neutrality targets only
- as of Q4, 2023



## 30 Pledges

countries/ cities/ territories with airports  
under ACI APAC & MID membership



## Net Zero / Carbon Neutrality

# Long Term Carbon Goal

## Net Zero Pledges - Airports

### Remark:

- Airports with a roadmap are marked with an aeroplane symbol ✈️
- As of Q4, 2023

Current

in/before

2030

in/before

2050

### New Zealand

Australia

Australia

Australia

Australia

Australia

Australia

Australia

India

India

India

New Zealand

Australia

Bahrain

Cambodia

Cambodia

Cambodia

Chinese Taipei

**Fiji**

Hong Kong, China

Japan

Japan

Japan

Japan

Japan

Jordan

New Zealand

New Zealand

New Zealand

New Zealand

Christchurch International Airport (Declared Net Zero 2021)

Alice Springs Airport

Brisbane Airport

Melbourne Airport

Newcastle Airport

Darwin International Airport

Sydney Airport ✈️

Tennant Creek Airport

Indira Gandhi International Airport (Delhi)

Chhatrapati Shivaji Maharaj International Airport (Mumbai) (2029)

Kempegowda International Airport (Bangalore) ✈️

Auckland Airport ✈️

Adelaide Airport

Bahrain International Airport

Phnom Penh International Airport

Siem Reap International Airport

Sihanouk International Airport

Taoyuan International Airport

**Nadi International Airport**

Hong Kong International Airport

Chubu Centrair International Airport ✈️

Kansai International Airport ✈️

Kobe Airport ✈️

Narita International Airport ✈️

Osaka International Airport ✈️

Queen Alia International Airport

Hamilton Airport

Hawke's Bay Airport

Palmerston North Airport (2035)

Wellington Airport



**30 Pledges**

**Under ACI Asia-Pacific membership**







**554**  
airports in the  
programme

In **89**  
countries across the  
world

Welcoming **3.6** billion  
passengers a year

That's **53.7** %  
of the global air  
passenger traffic



**United Nations**  
Framework Convention on  
Climate Change



ICAO



European Commission



**Federal Aviation  
Administration**



EUROCONTROL



**Manchester  
Metropolitan  
University**

**Level 5**

Net Zero\* on Scope 1 & 2 emissions  
Roadmap to Net Zero on Scope 3  
Investment in offset removal

**Launched in COP28**

CHC frontrunner

**Level 4+**

Level 4 requirements  
+ Offsetting of residual  
Scope 1 & 2 emissions

**Level 4**

Absolute emissions reductions in line with the  
Paris Agreement,  
Enhanced 3<sup>rd</sup> party engagement

**Level 3+**

Level 3 requirements  
+ Offsetting of residual  
Scope 1 & 2 emissions

**Level 3**

Engagement of 3<sup>rd</sup> parties  
& Measurement of their  
emissions

**Level 2**

Emissions reduction target,  
Carbon management plan  
& Annual reductions

**Level 1**

Carbon footprint & policy

Scope 1 &amp; 2

+ Selected Scope 3 sources

Full carbon footprint calculation

\*Minimum 90% reduction on Scope 1 &amp; 2 sources

- 10 airports reached carbon neutrality status
- 19 airports reached L4 or above

**Airport Carbon Accreditation  
(ACA)**

Nadi International Airport, Fiji  
(Level 3)  
Tahiti-Faa'a International Airport,  
French Polynesia (Level 2)  
Noumea International Airport,  
New Caledonia (level 2)

# THE *AIRPORT CARBON ACCREDITATION* NET ZERO APPROACH

1. Develop an extended carbon footprint for scope 1, 2 & 3 ghg emissions in line with the latest GHG Protocol.
2. Achieve and maintain >90% reduction of scope 1 & 2 ghg emissions compared to a 2010 baseline as of today.
3. Purchase quality offset removals for residual scope 1 & 2 emissions.
4. Develop a credible net zero roadmap for scope 3 ghg emissions by 2050 in line with relevant frameworks/standards.
5. Formulate a policy commitment on maintaining net zero in scope 1 and 2 emissions and a net zero roadmap for scope 3 emissions by 2050.
6. Develop a Carbon Management Plan (CMP).
7. Develop a Stakeholder Management Plan (SMP).



# Pacific Islands airports

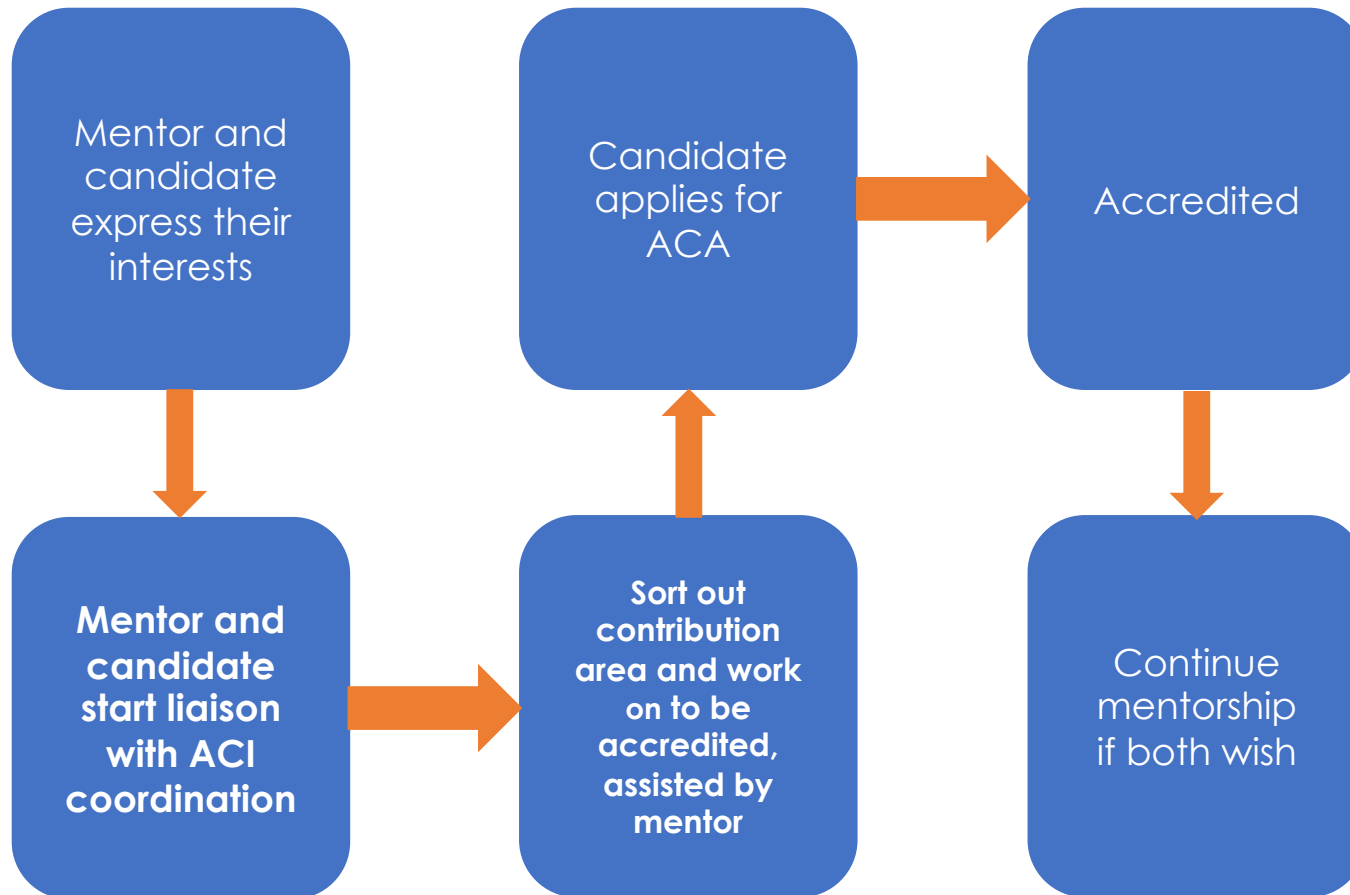
## Participation in ACI Programmes & Services



Airport Service Quality (ASQ)	Airport Excellence Programmes (APEX)	Airport Carbon Accreditation (ACA)
Tahiti-Faa'a Airport, TAHITI	Bauerfield International Airport, Vanuatu (Safety & Security 2019)	Nadi International Airport, Fiji (Level 3) Tahiti-Faa'a International Airport, French Polynesia (Level 2) Noumea International Airport, New Caledonia (level 2)

# CAPACITY BUILDING

## AIRPORT CARBON ACCREDITATION MENTORSHIP PROGRAMME



- 1 pair successful implementation
- 4 pairs on going



# AIRPORT CARBON ACCREDITATION FEATURED IN ICAO STATES ACTION PLANS



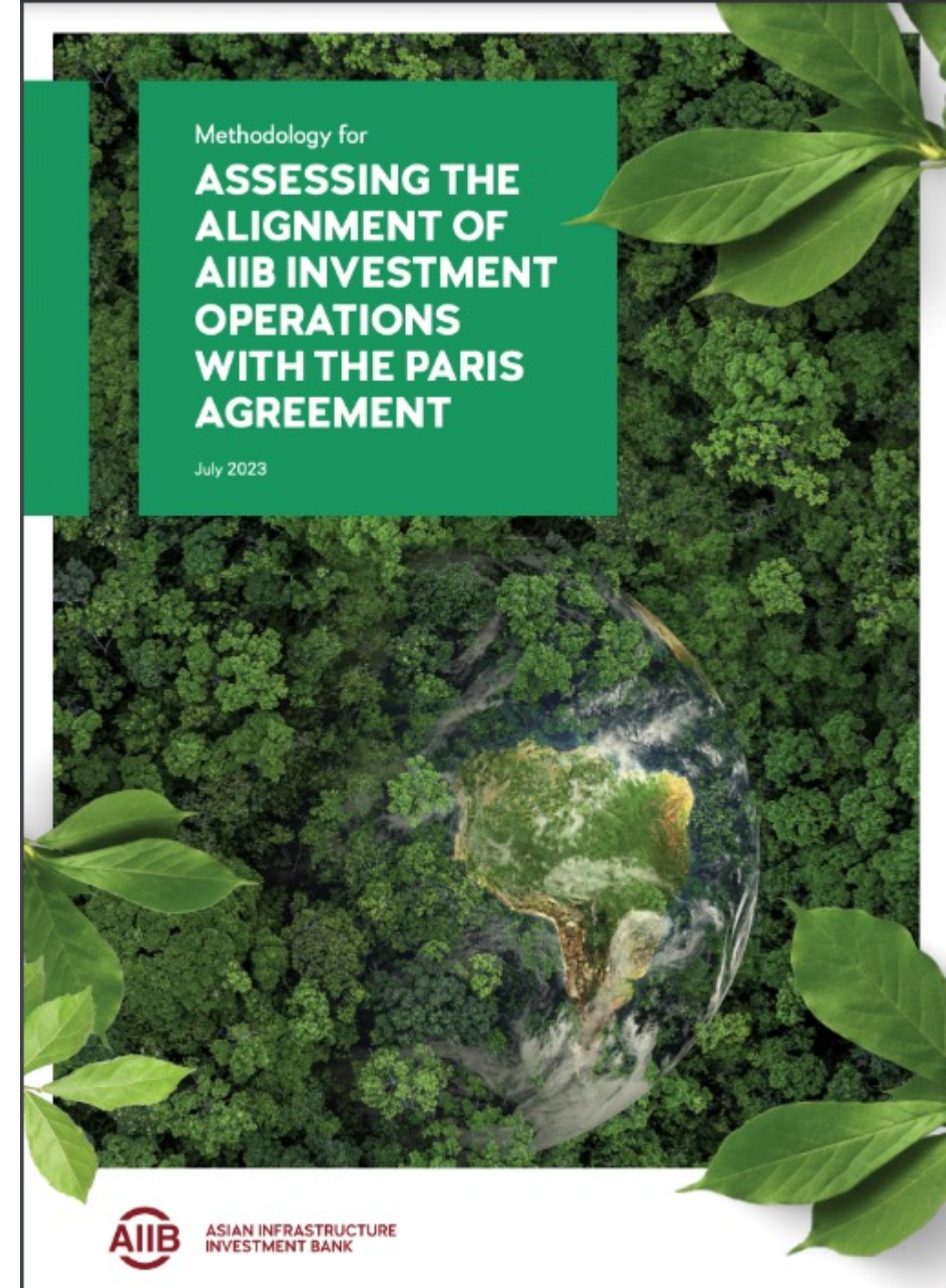
Classification of Economic Regions	UN Region	Countries	Carbon Goal	ACA in ICAO States Action Plan
Developed economies	Oceania	Australia	In Law	Yes
Developing economies	Asia	Bahrain	Declaration	Yes
Developing economies	Asia	India	In Policy	Yes
Developing economies	Asia	Indonesia	In Policy	Yes



## ELIGIBILITY CRITERIA FOR FINANCIAL SUPPORT

“As applicable, some of the examples may be:

*a. Support the client to obtain the relevant certificate promoting a lower-carbon airport (e.g. **the Airport Carbon Accreditation (ACA)**, or other certificates with similar substance/focuses);*



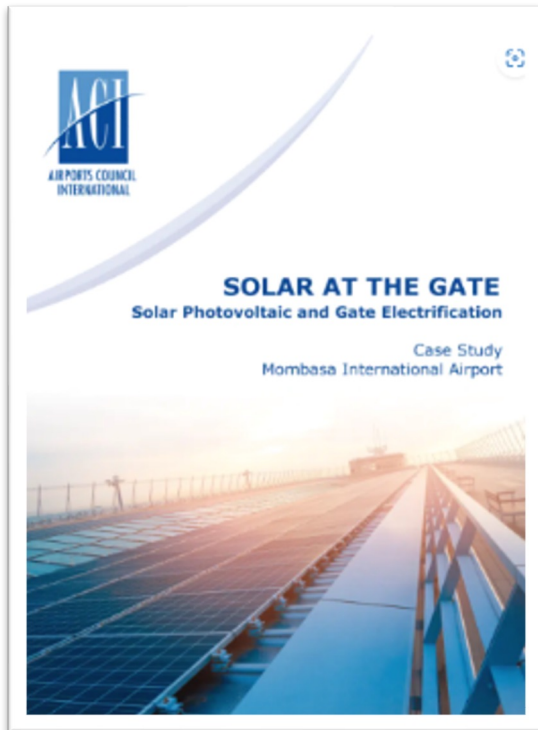
# NEW ON-DEMAND SERVICE TO AIRPORTS TO ASSIST THEM TO SET THEIR ROADMAP TOWARDS NET ZERO EMISSIONS

## Objectives:

- Formulate a comprehensive tailored **roadmap** with a support expert team (WBP) at members airport(s).
- Connect with national and financial institutions (e.g., Asian Development Bank, World Bank) for a Net Zero funding program with the support of ACI APAC&MID.
- Facilitate accreditation towards Level 5 of *Airport Carbon Accreditation*.

Pilot in 2024 to possibly include full launch 2025

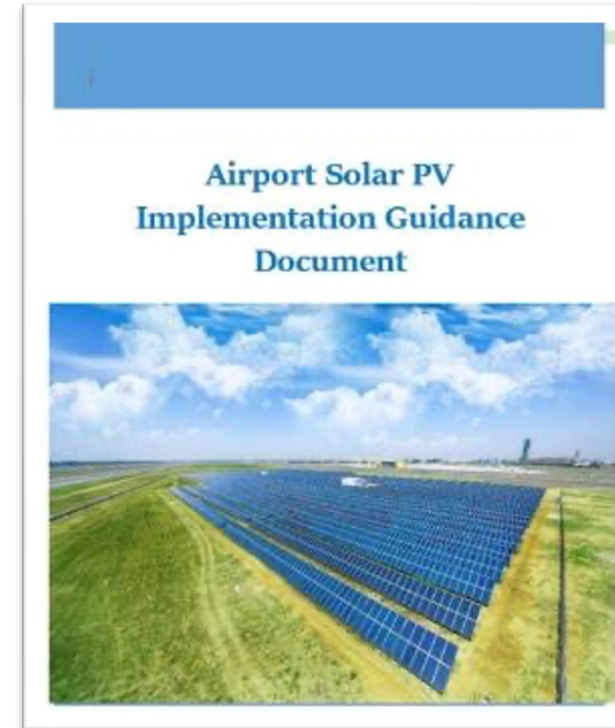
# RELEVANT ACI PUBLICATIONS



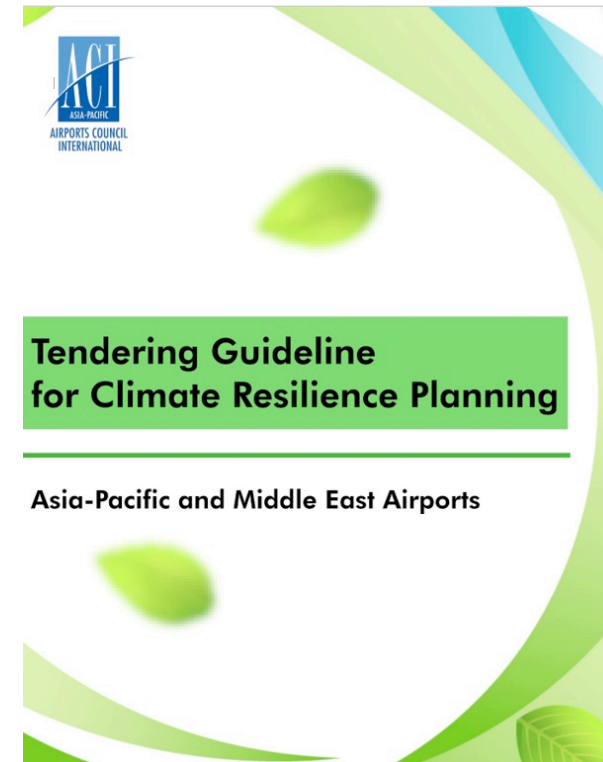
**Solar at the Gate: Solar Photovoltaic and Gate Electrification Case Study**



**High-level Guidance for Developing and Costing an Airport Net Zero Roadmap**



**Airport Solar PV Implementation Guidance Document**



**Tendering Guideline for Climate Resilience Planning**



# THE VOICE OF ASIA-PACIFIC AND MIDDLE EAST AIRPORTS



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