



Delivering Airport Climate Action

Olivier Jankovec, ACI EUROPE Director General

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Carbon management & airports – a long story...

- June 2008



- One year later...



The standard for airport carbon management

- Mapping & scoping airports' emissions



Which emissions can occur at an airport?



Scope 1

Emissions from airport controlled sources

- 01 Vehicles/ground support equipment belonging to the airport
- 02 On-site waste management
- 03 On-site waste water management
- 04 On-site power generation
- 05 Firefighting exercises
- 06 Boilers, furnaces
- 07 De-icing substances
- 08 Refrigerant losses

Scope 2

Emissions from purchased electricity

- 09 Off-site electricity generation
 - A Heating
 - B Cooling
 - C Lighting

Scope 3

Emissions from upstream and downstream value chain

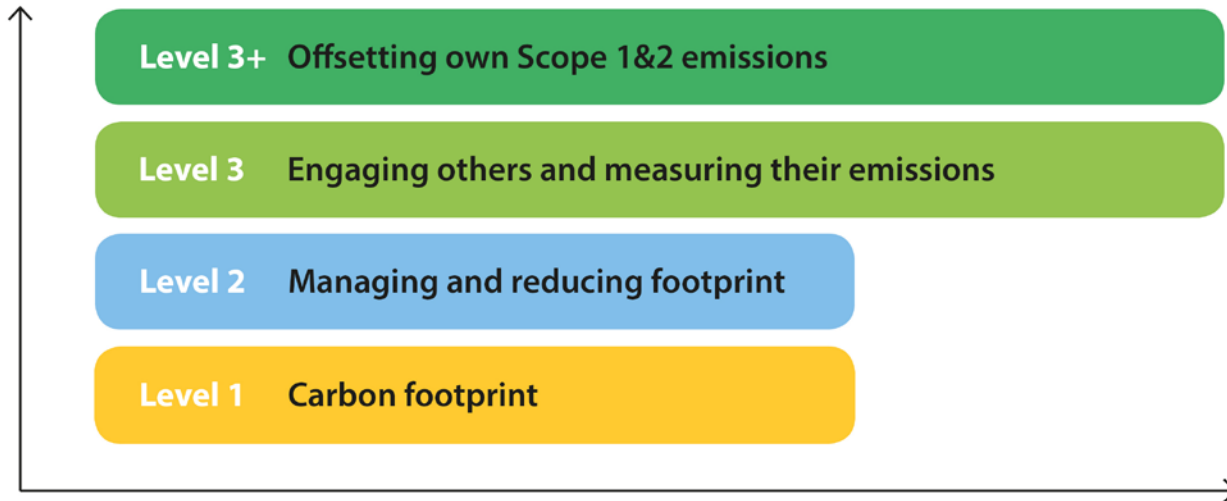
- 10 Goods: water, materials, products, ... (Cat. 1)
- 11 Services: construction, shuttle, ... (Cat. 1)
- 12 Capital goods: Buildings, surfaces, vehicles (Cat. 2)
- 13 Energy & Fuels production offsite (Cat. 3)
- 14 Waste & waste water management (Cat. 5)
- 15 Staff business travel (Cat. 6)
- 16 Staff Commute (Cat. 7)
- 17 Aircraft and APU operation, flights and MRO (Cat. 11)
- 18 3rd party vehicles/ground support equipment and de-icing (Cat. 11)
- 19 Passenger travel to the airport (Cat. 11)
- 20 Cargo, goods to the airport (Cat. 11)
- 21 Tenant energy and electricity (Cat. 13)
- 22 Franchises (Cat. 14)
- 23 Investments (Cat. 15)

Note: The presented list of possible emissions sources at the airport is not exhaustive. Furthermore, the operational structure of every airport is different. Therefore, not all of the depicted emissions sources are present at every airport.

Design: inextremis.be - illustrations: stock.adobe.com



- Initial certification levels



Scope 1 & 2 - Emissions from activities which the airport company are directly responsible for

Scope 3 - Emissions from activities which the airport does not directly manage but can guide and influence

- Independent management, Oversight & Transparency



Following science/societal developments

- **Tightening offsetting requirements & Guidance on removals**



- **Aligning with the Paris Agreement = New certification levels**



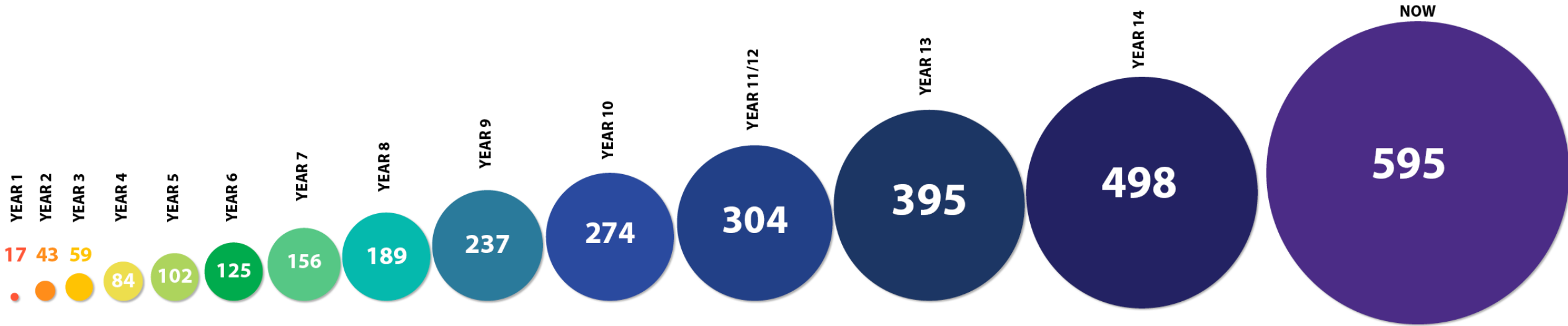
- ✓ Absolute CO₂ reductions
- ✓ Long-term target aligned with IPCC 1.5°C & 2°C pathways
- ✓ Extended carbon emissions reporting and reduction requirements
- ✓ Deeper ties with business partners to deliver absolute CO₂ reductions across the entire airport site



A GLOBAL CLIMATE ACTION COMMUNITY

- From 17 to **595** certified airports

& **53.3%** of global traffic

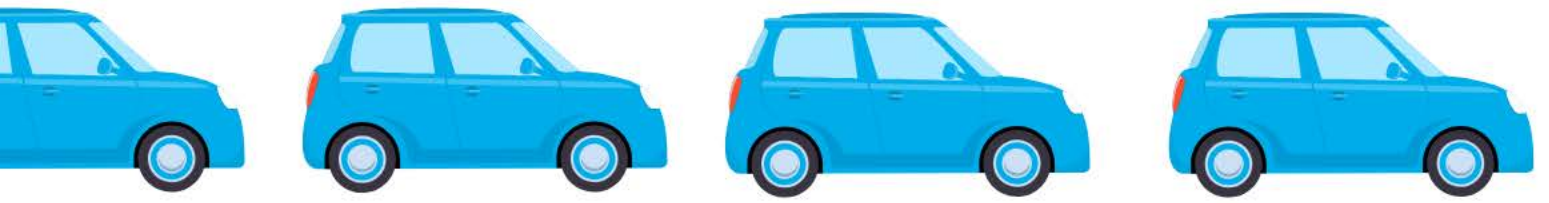


2022/2023: **-1,232,196 tonnes of CO₂** (-17.7%)

2022-2023



-1,232,196 tonnes of CO₂e

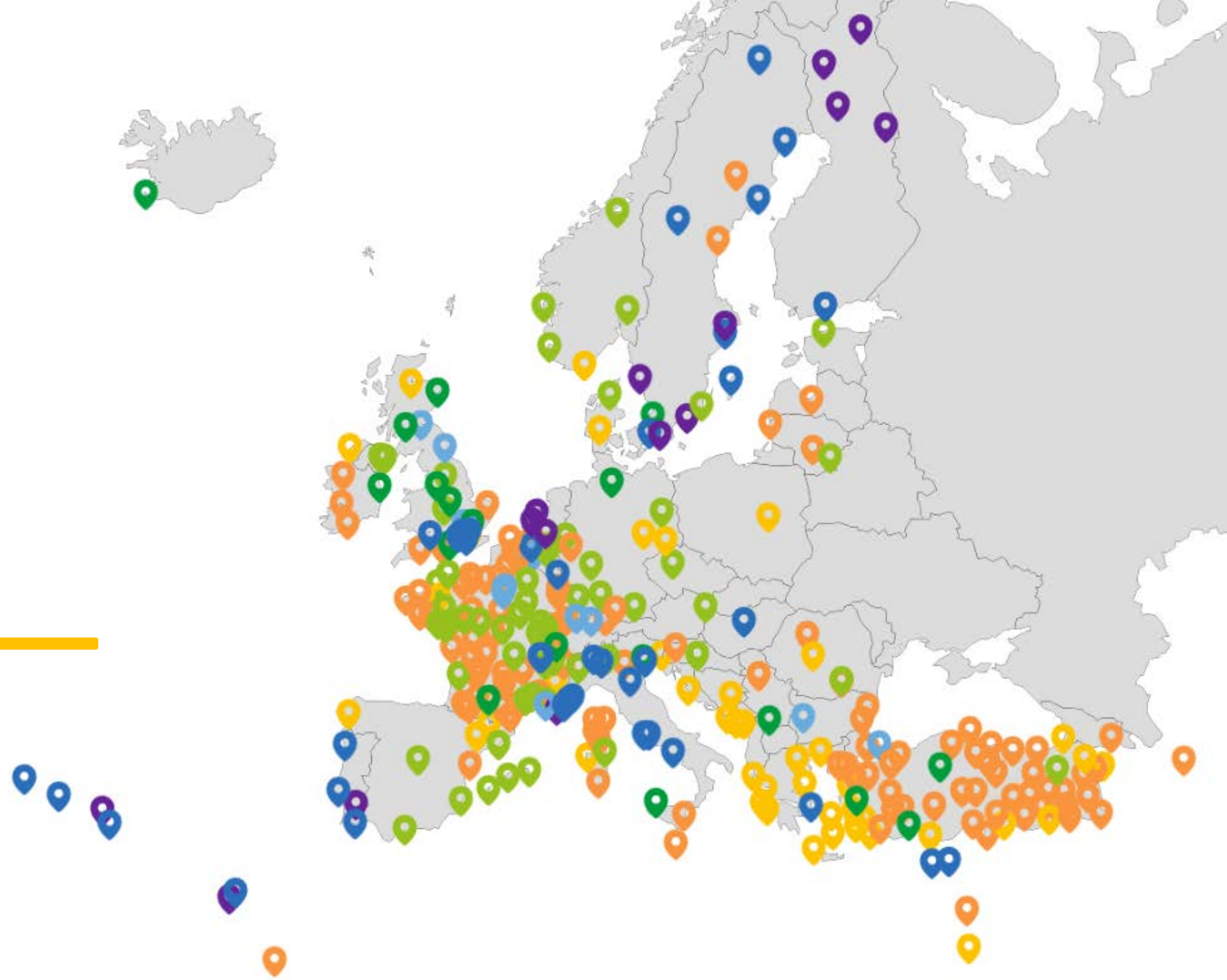


is equivalent to removing
250,000 cars from the road



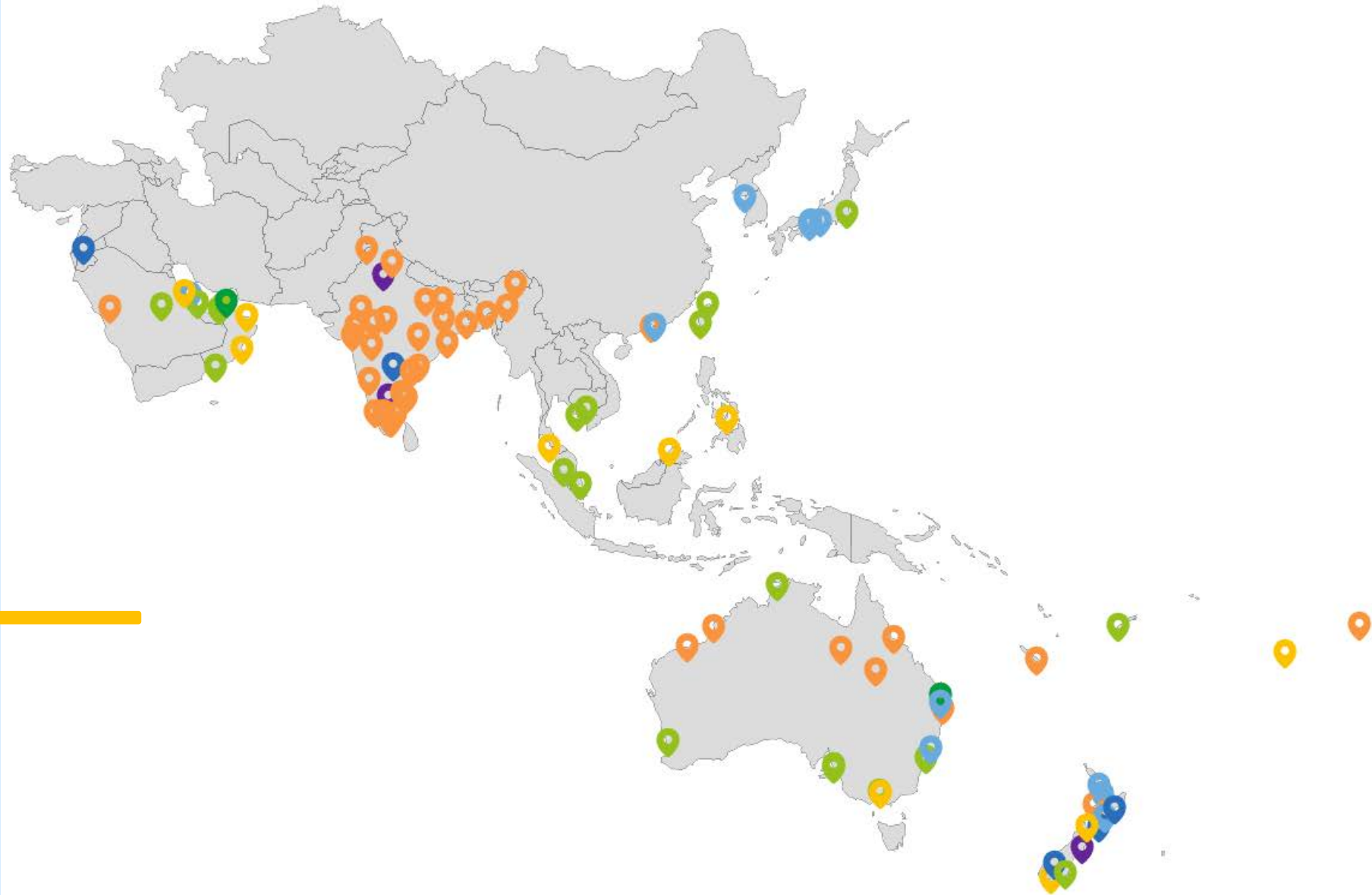
295

in Europe

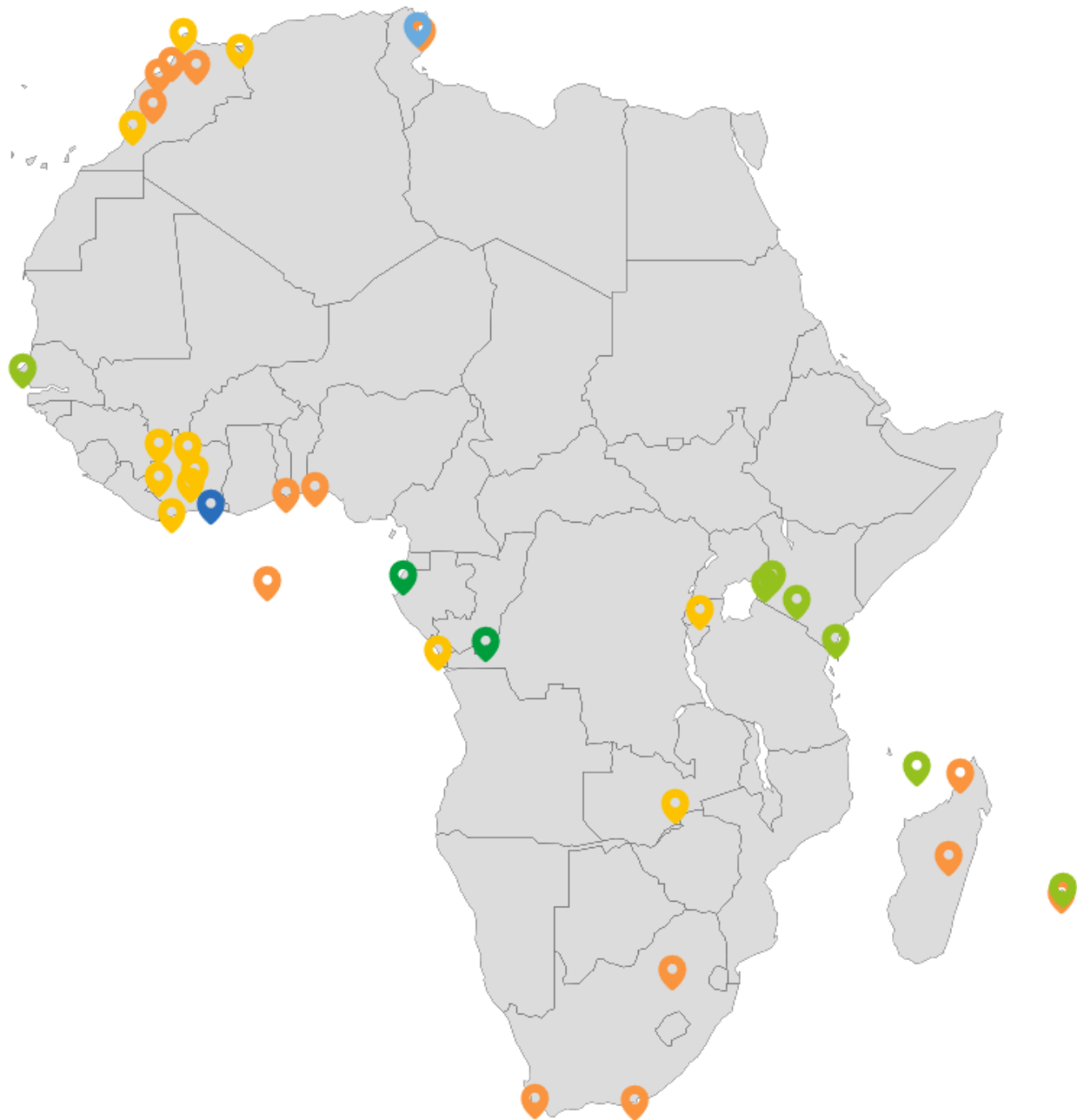


91

in Asia-Pacific
& Middle East

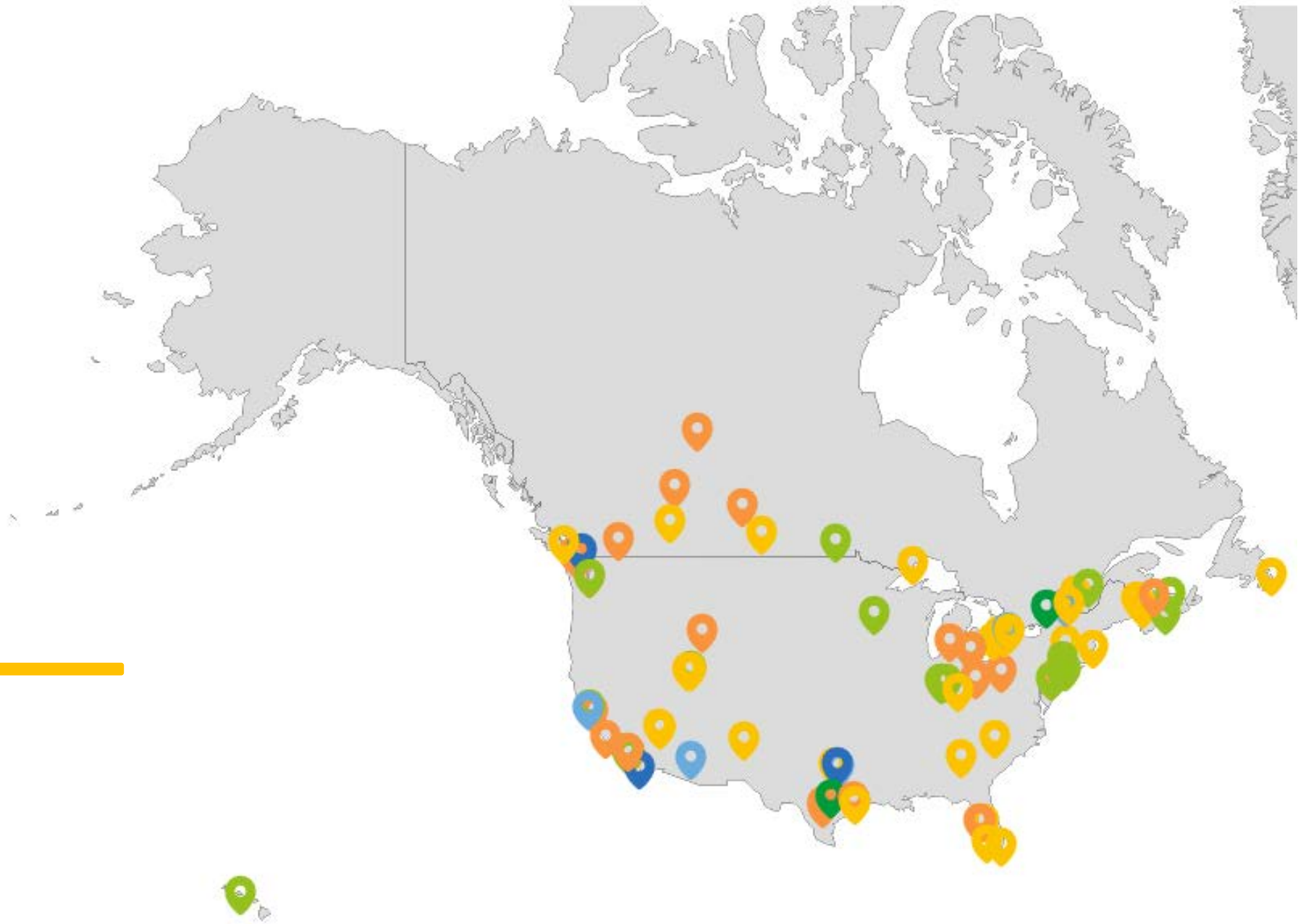


37
in Africa



87

in North
America



85

In Latin
America & the
Caribbean



Climate credentials & recognition



United Nations
Framework Convention on
Climate Change

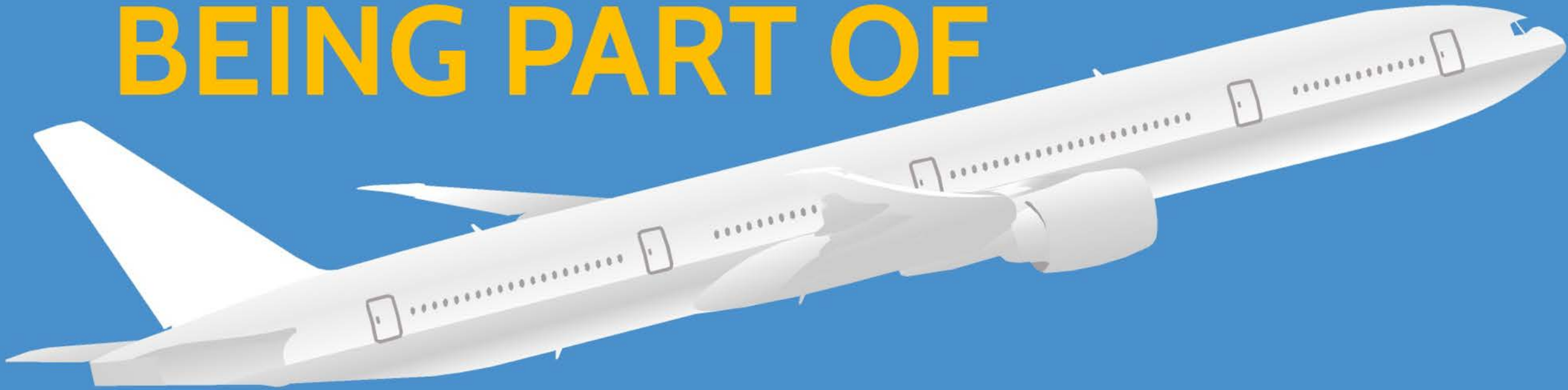
“We commend airports for their leadership [through Airport Carbon Accreditation] a signal that can set an example for others to follow with ambitious climate action.”



ICAO

“Airport Carbon Accreditation is a highly significant initiative by airports for meaningful and measurable action in addressing their greenhouse gas emissions.”

BEING PART OF



THE SOLUTION

The
Economist

Delta's beta: how much worse to come?

Where South Africa goes next

Chinese v American antitrust

The ethics of primate research

JULY 24TH-30TH 2021

No safe place

The 3°C future



***“Humanity is on thin ice...
And that ice is melting fast.”***

Antonio Guterres, UN Secretary General

Supporting business transformation

& new airport value creation model



Net Zero CO₂ airport commitments

- June 2019 - Europe



- **303** European airports individually committed & published roadmaps

- June 2021 – Global

Goal



“ACI member airports at a global level **commit to reach Net Zero Carbon emissions by 2050** and urge governments to provide the necessary support in this endeavour.”



Introducing Level 5



- **Achieve & maintain Net Zero CO₂ in Scope 1 and 2**
- **Provide a management plan to maintain the Net Zero status**
- **Perform a full Scope 3 emissions calculation**
- **Provide a roadmap to achieve Net Zero for Scope 3 emissions**

Launched at COP28 in Dubai, UAE



- **10 Level 5 pioneers:** Amsterdam Airport Schiphol, Eindhoven, Rotterdam-The Hague, Beja, Madeira and Ponta Delgada, Christchurch, Göteborg Landvetter, Malmö, Toulon-Hyères

Growing global momentum









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Level 5
airports

Next frontier: Reducing Scope 3 emissions

Key airport actions to reduce their scope 3 emissions:

-  Electrification of ground support equipment
-  Reconfiguration of airside infrastructure to reduce aircraft fuel burn and emissions on the ground
-  Enabling sustainable LTO through sustainable operational measures such as 'Continuous Descent Approach' (CDO) and other operational improvements
-  Support for Sustainable Aviation Fuel use
-  Revenue-neutral modulation of airport charges based on CO₂ emissions/aircraft technology
-  Developing intermodality with other transport modes - in particular rail



Thank you



www.aci-europe.org
www.airportcarbonaccreditation.org