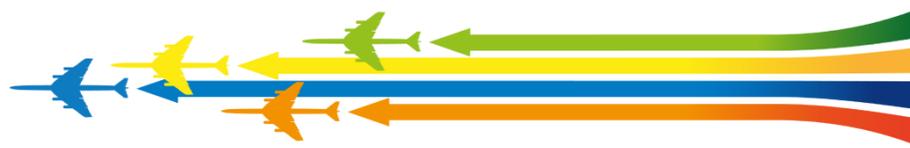




ICAO

UNITING AVIATION

E-GAP



ICAO Global Aviation Partnerships on Emissions Reductions (E-GAP)

Multiplying Environmental Action Airports and Aircraft Emissions

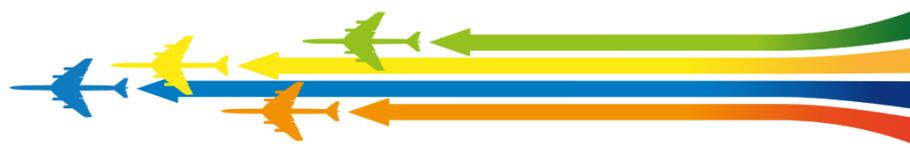
Xavier Oh, ACI



Outline

- Airport GHG Management
- Ground Operations





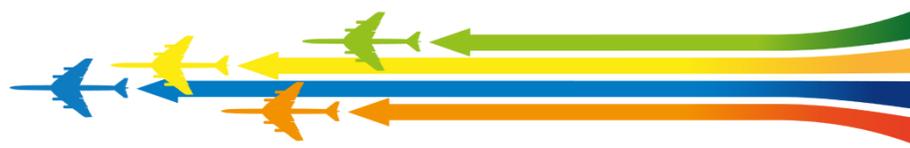
Airport CO2 Inventory

ACERT (ACI's Do-it-yourself inventory tool)

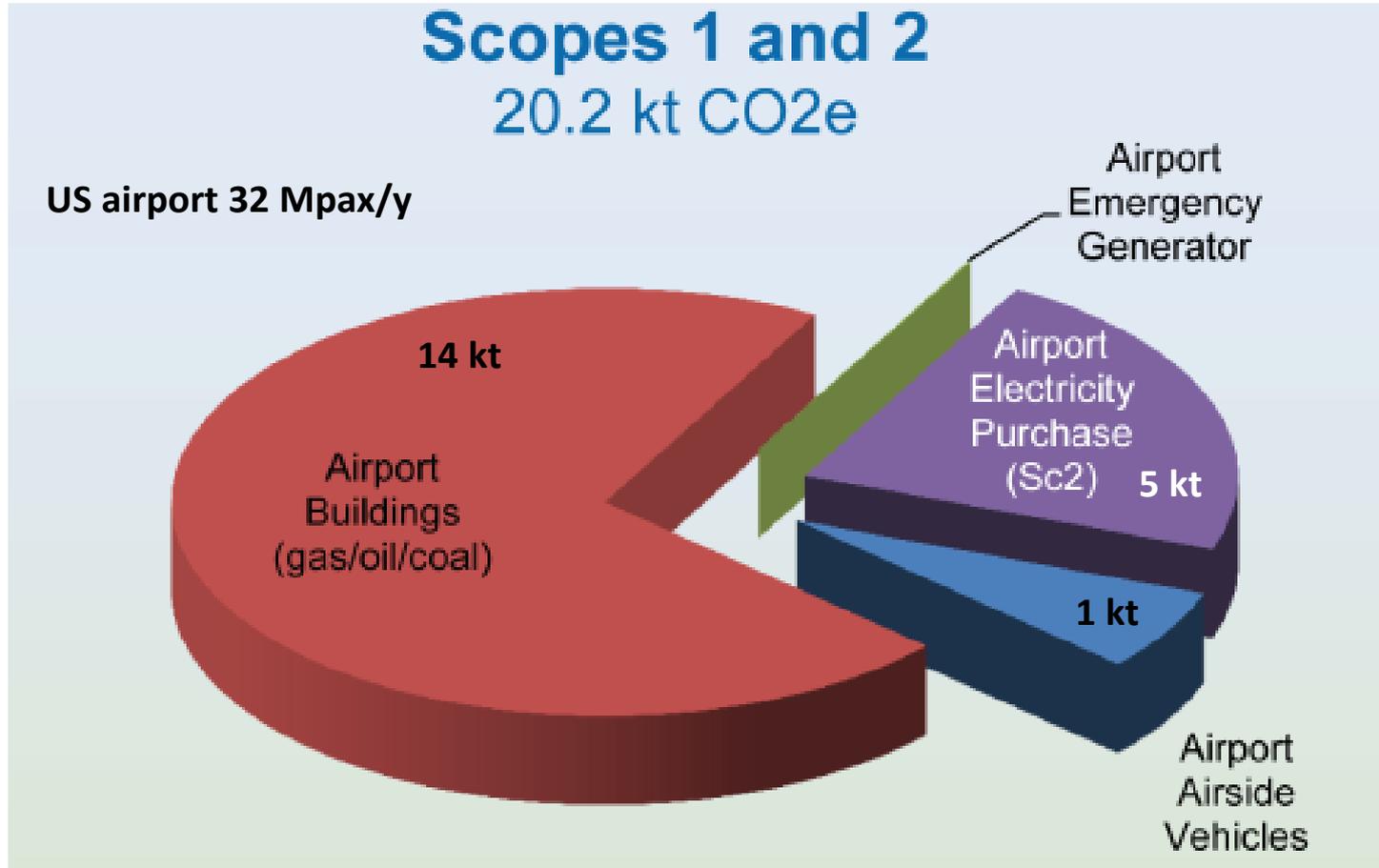


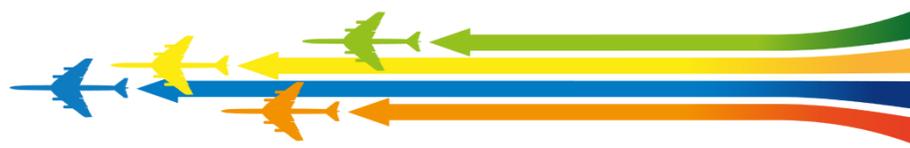
GHG Protocol emissions categories

- Scope 1 – Sources owned and controlled
- Scope 2 – Off-site sources for purchased electricity
- Scope 3 – Other sources an airport can guide or influence

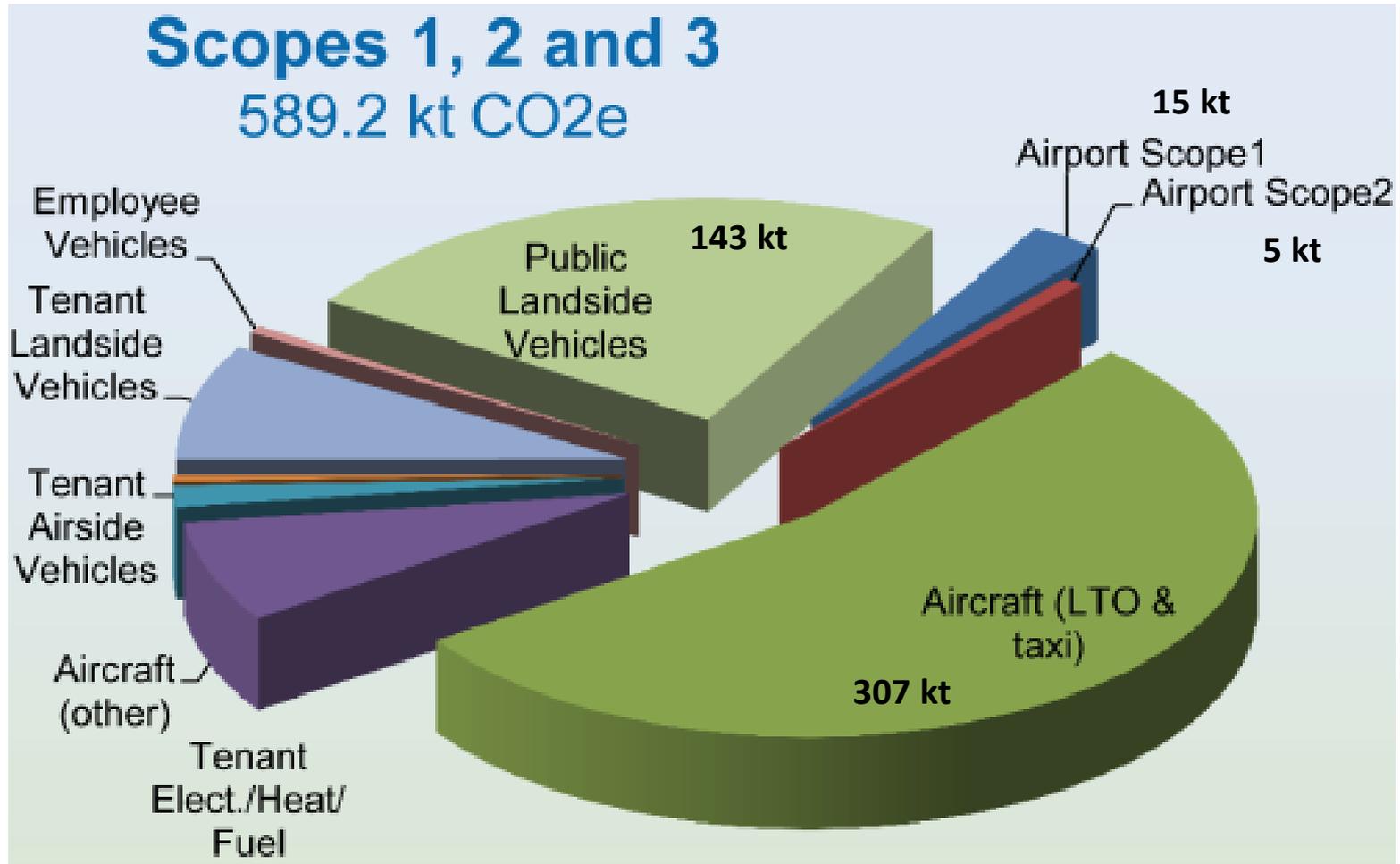


Airport CO2 Inventory



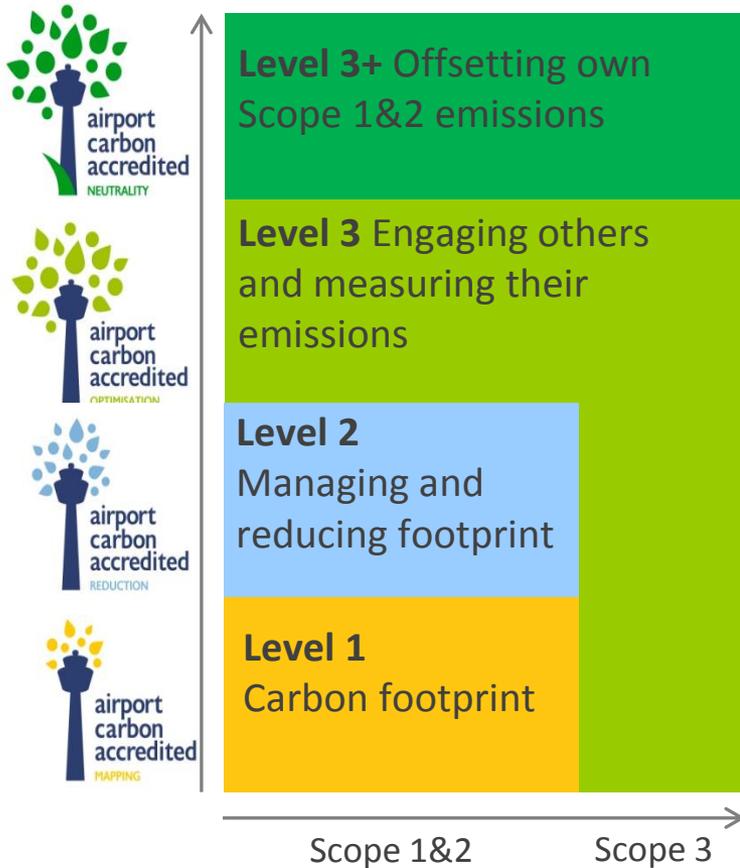


Airport CO2 Inventory





Airport Carbon Accreditation

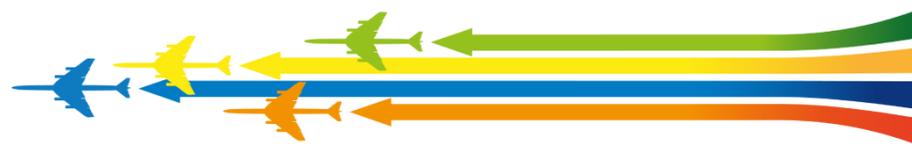


128 certified airports

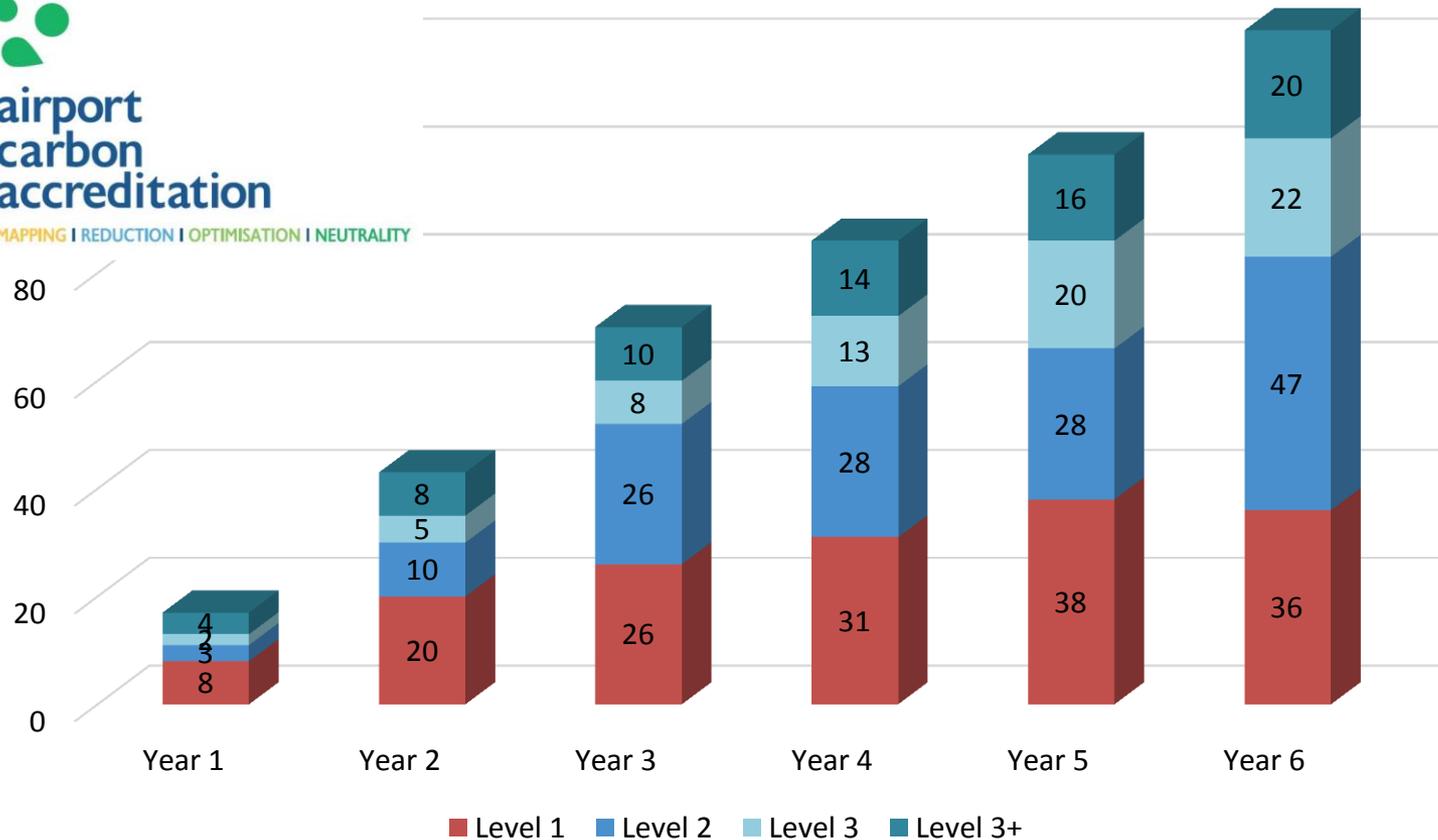
28% of worldwide passenger traffic

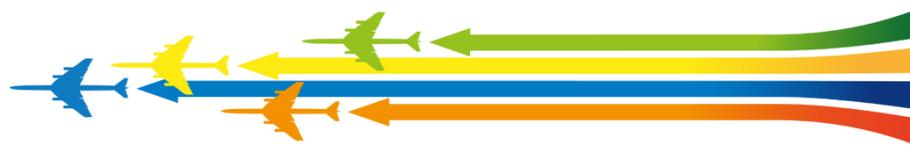
212,460 tCO₂ reduced from the activities under airports' direct and indirect control

www.airportcarbonaccreditation.org



Airport Carbon Accreditation





Airports and Ground Operations

LTO

- Holding pattern before arrival - Capacity
- Level flying – CDO (continuous descent ops)



Airports and Ground Operations

At Gate

- APU replacement

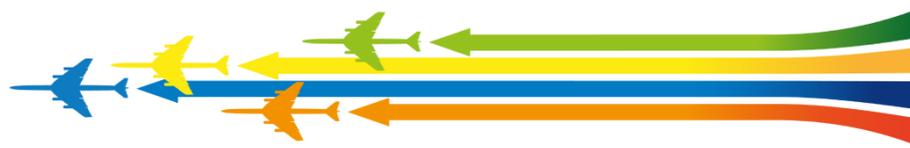




Airports and Ground Operations

Taxiing

- Distance – airport layout
- Queueing to depart
- Waiting for gate after landing



E-Taxiing

- WheelTug/EGTS
- TaxiBot



Partners

- Airport operator
- Airlines
- Air Traffic Control
- Ground handlers
- Vehicle operators



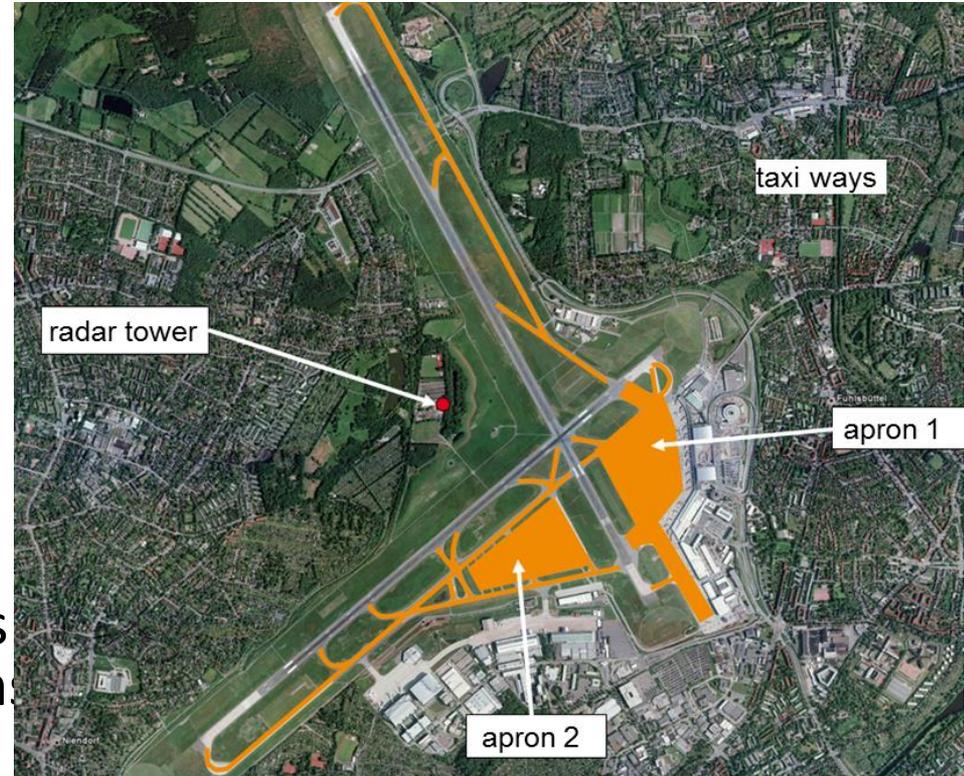
Ground radar and A-SMGCS

Advanced Surface Movement Guidance and Control System.

Implementation levels

1. Information on all movements incl. aircraft and vehicles
2. Improve co-ordination of aircraft and ground movements
3. Plan and guide movements including ground operation and incoming flights.

Target decreasing wait and queuing times.

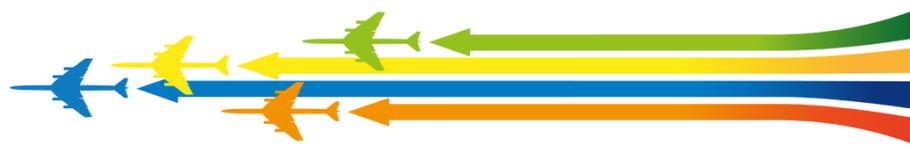




ICAO

UNITING AVIATION

E-GAP



Example - ICAO Partners multiplying environmentally sustainable aviation action



ZÜRICH AIRPORT



Transport Canada

Transports Canada

