

Sustainability Working Group Agenda

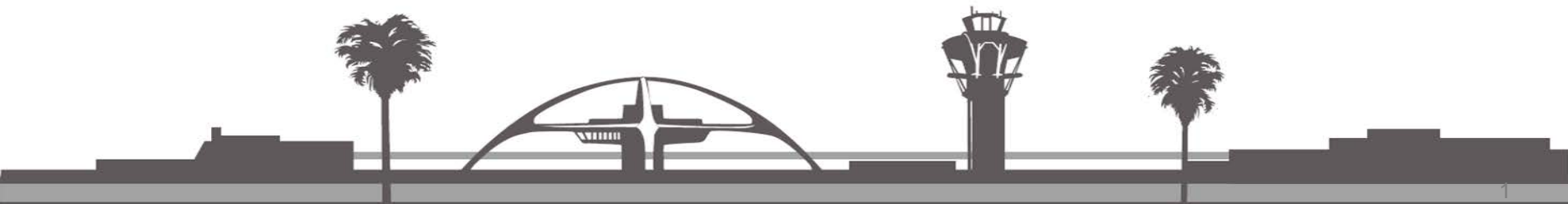
- ▶ Introductions (15 min)
 - ▶ Attendees introduce themselves and state what is the most important issue around sustainability
- ▶ Sustainable Food / Donation Programs (20 min)
 - ▶ Tami McCrossen-Orr, LAWA
 - ▶ LAWA's food donation programs
 - ▶ Q&A - Discussion
- ▶ Flight Shame Movement (20 min) and Airport Discussion
 - ▶ Danielle Buehler, PHL
 - ▶ Background and general info on movements in Europe, NA, etc., airline and airport responses
 - ▶ Q & A - Discussion
- ▶ Sustainability Integration and Advisory Council Updates (5 min)
 - ▶ Updates from the Council, including update from Sustainable Aviation Fuels Task Force
- ▶ ACRP Updates (10 min)
- ▶ Centerlines Connect Sustainability Resources (10 min)
- ▶ Roundtable open discussion & call for topics for quarterly call (10 min)



Los Angeles World Airports



Food Donation/Food Waste Reduction Programs
ACI-NA 2019 Annual Conference
September 14, 2019





Food Waste at LAX



*Picture taken
during LAX
waste audit.*

20% of LAX's waste stream is food waste (according to a waste audit completed in 2017 for the airport).



LAX Harvest Food Donation Program - OVERVIEW

- The Program began in 2012 and collects unsold, edible prepackaged food from grab-n-go locations in terminals for donation to local charities.
- In 2018, over 37,000 pounds* of food was donated. The program has donated over 280,000 pounds** of food since inception.



The Program has received the following awards:

- 2015 LA County Green Leadership Award
- 2017 South Bay Business Environmental Coalition SEED Award



* Equivalent to 82,000 food items

** Equivalent to over 585,000 food items



Food Waste Recycling Program – OVERVIEW

- Food waste is collected by LAWA and sent to anaerobic digester in Perris, CA for conversion into renewable natural gas and compost.
- The Program began on Earth Day, April 22, 2017 at 4 locations:
 - T8 – Carls Jr., Coffee Bean, Engine Co. 28
 - T7 – United Airlines VIP Lounge
- Expanded program in 2018/2019 to focus on Airline lounges and added:
 - TBIT – Emirates, Star Alliance, Qantas, Etihad Lounges
 - T7 – United Airlines Polaris Lounge
- Current daily collection averages @ **850 lbs. per day.**



Food waste collected from Terminal 8's Carl's Jr.



New Strategies for Organics

ELIMINATE ORGANIC WASTE GOING TO LANDFILL BY 2028

- CA Assembly Bills 1826, 1383 and 341 require businesses that generate organic waste to develop an organics recycling program.
- LAWA's *soon to be released* Sustainability Action Plan will include new focus on food waste donation and collection.
 - Mandatory participation in food donation program for all concessionaires.
 - To be expanded to mandatory participation in the Organics Waste Program.



Developing Airport-wide Food Donation Program

Mission: Repurpose unsold/unused high-quality food to its highest and best use and reduce food waste disposal to landfill by:

- Working with airport food establishments to prepare an adequate amount of food expected to be sold to LAX guests.
- Repurpose high-quality food to local agencies that will distribute food to those in need.
- Divert food waste that cannot be repurposed from landfill to anaerobic digester.

Engage Food
Donation
Organizations

Engage Tenants and
Concessionaires

Identify
Local
Charities

Plan and
Implement
Pick-Up
Process



Food Rescue Organizations

- Typically non-profit organizations or private companies.
- Mainly coordinate pick-ups and drop-offs by volunteers or in-house staff.
- May provide packaging.
- No costs, or costs vary depending on volume and pick-up frequency.
- Liability policy varies; most just rely on the Good Samaritan Law.



LA CONSERVATION CORPS

Transforming Youth. Enhancing Communities.





Web-based/Mobile Apps

- Typically start-ups or private companies
- Flexible pick-up times
- May provide packaging.
- Robust metrics and data
- Costs vary; some apps are free to use
- Pick-ups and drop-offs may be done by volunteers or in-house staff.
- Liability policy varies; most just rely on the Good Samaritan Law.

FOOD CONNECT 



FOOD RESCUE US



Food Banks/Soup Kitchens

- Typically local, non-profit organizations
- No costs, however, most do not provide pick-up services.
- Limited window for drop-offs, depending on business hours
- Many with existing partnerships with LA City's recycling program (RecycLA).
- Liability policy varies; most just rely on the Good Samaritan Law.



WESTSIDE
FOOD BANK



Food Pantry LAX



LOS ANGELES REGIONAL



Fighting Hunger. Giving Hope.



Things to Consider

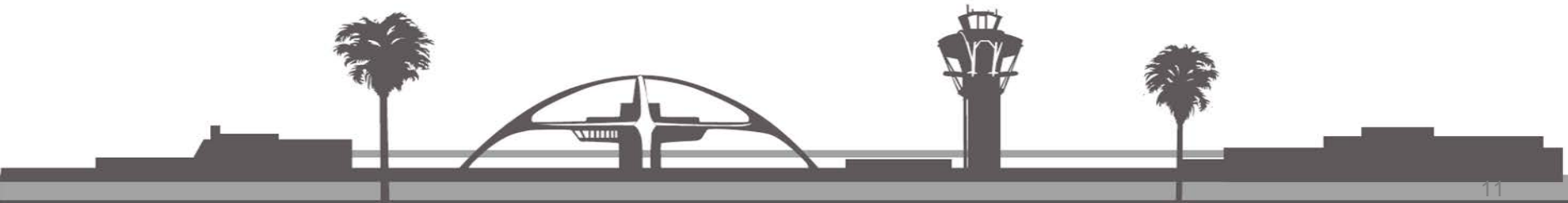
- Are the pick-ups and drop-offs done by volunteers or paid staff?
- Where will food be picked up (airside/landside/before or after security)? Storage before pick-up?
- What food handling/safety training do the volunteers/staff have?
- Liability: what kind of insurance does the organization have?
- Is packaging provided?
- How are donor recipients identified? Are donors able to choose which the charities they want to donate to?
- How much does it cost?
- Do donors receive assistance for applying for tax rebates?
- Data: Will the organizations share data with the airport?
- Other?



Los Angeles World Airports



ACRP Update
ACI-NA 2019 Annual Conference
September 14, 2019





- Recently Published ACRP Resources for Airport Sustainability
- Projects in Technical Editing - To Be Published Soon
- ACRP Funding for New Projects / Collaboration on ACRP Problem Statements



Recently Published ACRP Resources for Airport Sustainability



[Climate Resilience and Benefit–Cost Analysis: A Handbook for Airports](#)

(A most downloaded report!) TRB's Airport Cooperative Research Program (ACRP) Research Report 199: Climate Resilience and Benefit–Cost Analysis: A Handbook for Airports provides information on how to apply benefit–cost analysis tools and techniques to improve decision making affecting resilience of airport infrastructure projects in response to potential long-term impacts of climate change and extreme weather events.



[Guidebook for Developing a Comprehensive Renewable Resources Strategy](#)

TRB's Airport Cooperative Research Program (ACRP) Research Report 197: Guidebook for Developing a Comprehensive Renewable Resources Strategy highlights renewable energy sources, includes steps for developing a renewable energy strategy, and identifies metrics for measuring success. The report also highlights real-world examples of successful renewable resource projects at airports.



[Economic and Social Sustainability at Airports](#)

TRB's Airport Cooperative Research Program (ACRP) Conference Proceedings on the Web 23: Economic and Social Sustainability at Airports is a compilation of the presentations and a summary of the ensuing discussions at May 7-8, 2018, forum in Washington, D.C.



Projects in Technical Editing – To Be Published Soon

Report #	Title	Project #	Expected Publication
Rep. 205	Revolving Funds for Sustainability Projects at Airports	02-77	Q3 2019
Rep. 206	Guidebook on Effective Land Use Compatibility Planning Strategies for General Aviation Airports	04-22	Q4 2019
Rep. 207	Optimizing the Use of Electric Pre-Conditioned Air (PCA) and Ground Power Systems at Airports	02-76	Q4 2019
Rep. 209	Integrating Sustainability and the Environmental Review Process	02-69	Q4 2019
Rep. 210	Innovative Solutions to Facilitate Accessibility for Airport Travelers with Disabilities	01-31	Q4 2019



Discussion

- ACRP Funding for New Projects
- Collaboration on ACRP Problem Statements
- How to get more Sustainability and Environmental Projects Funded



Flight Shame Movement

ACI-NA Annual Conference & Exhibition

Sustainability Working Group

Danielle Buehler

September 14, 2019

What is “flight shame”?

Flight Shame is a movement that encourages people not to fly because of the impact on the climate.

It has gained attention due to Greta Thunberg refusing to fly during her cross Europe tour and her mother, a famous opera singer, refusing to fly to performances.



Other Anti-Flying Movements

We Stay on the Ground

- Swedish organization spreading awareness of climate impact of flying
- Branches in Belgium, Canada, Denmark, France, Germany, Sweden, and the UK
- Flight Free 2020 campaign to get 100,000 signatories

No Fly Climate Sci

- Started by NASA climate scientist
- Scientists, academics, and others who do not fly or fly less and push for change at their universities
- Focus on academics because they fly often for conferences, meetings, etc.

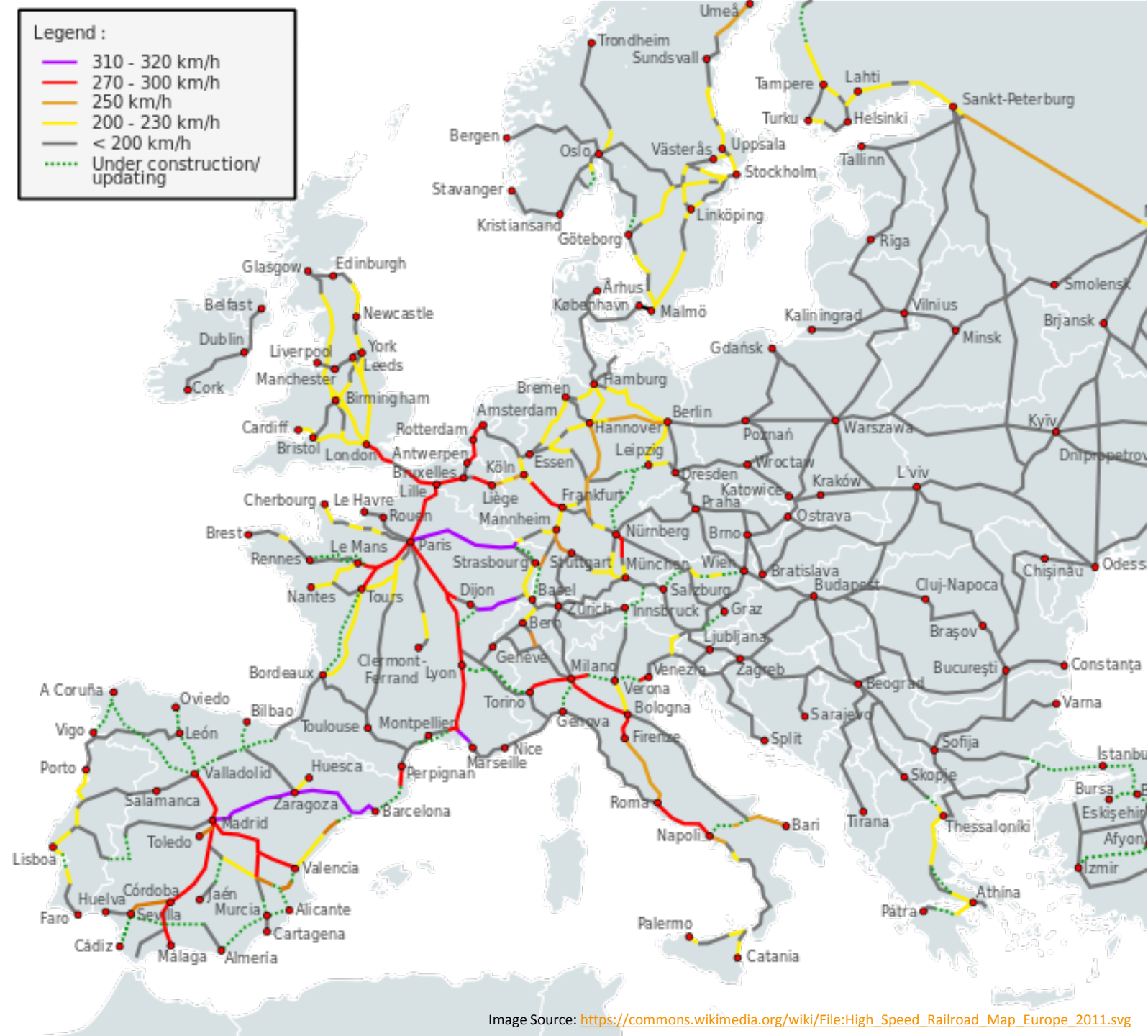
Europe v. North America

Europe

- Gaining popularity in northern Europe
- High speed train travel is a viable option

North America

- Not yet gaining traction in the US - TBD
- Train travel not viable option in much of US/Canada
- Gaining popularity in Canada with Flight Free 2020 movements



Impacts

- Possibly linked to 8% reduction flights at Swedavia's 10 airports in 2019 Q1
- Possibly linked to 5% increase in 2018 and 8% increase in 2019 Q1 for Swedish Railways
- Potentially linked to rise in carbon offset purchases



Greta Thunberg

@GretaThunberg

Follow



In Sweden air travel is down 4,5% in first quarter 2019. That's almost 400000 less passengers. Despite growing economy. The experts are puzzled... [#IStayOnTheGround](#) [#ClimateJustice](#) [#ClimateBreakdown](#)



Trenden har vänt – flygresandet minskar

Flygresandet minskar i Sverige. Under första kvartalet flög 378 000 färre passagerare från svenska flygplatser jämfört med samma period förra året. Också antalet starter

[aftonbladet.se](https://www.aftonbladet.se)

Carbon Offset Programs

Good Traveler Program

- Created by San Diego Airport and managed by Rocky Mountain Institute
- Offset projects are currently in the US
- Airport Partners: ATL, AUS, DFW, PANYNJ, SAN, SEA, SFO

Cool Effect

- Non-profit that verifies and selects projects to support throughout the world
- 90% of offsets go to projects
- Cater to individuals and businesses

Airline Carbon Offset Programs

British Airways
partners with
Pure Leapfrog

Alaskan Air and
JetBlue partner
with
carbonfund.org

Delta partners
with The
Nature
Conservancy

United partners
with
Sustainable
Travel
International

Carbon Offset Costs

Montreal → Tampa
830 lbs of CO₂ roundtrip

Good Traveler Program: \$6
Cool Effect: \$2.59
Delta Airlines: \$6.83

St. Louis → Tampa
600 lbs of CO₂ roundtrip

Good Traveler Program: \$4
Cool Effect: \$2.59
Delta Airlines: \$5.43

San Francisco → Tampa
1249 lbs of CO₂ roundtrip

Good Traveler Program: \$10
Cool Effect: \$6.53
Delta Airlines: \$10.33



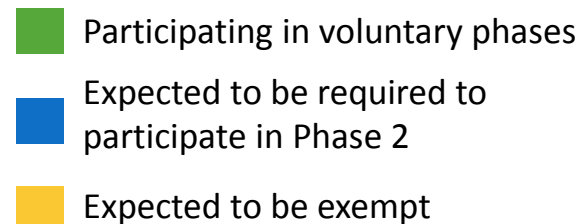
How are airports, airlines, and organizations responding?

↳ Mainly by highlighting existing and upcoming sustainability initiatives



Response: ICAO CORSIA

- Air Transport Action Group (ATAG) 2008 Commitment to Action on Climate Change provided impetus for CORSIA
- Requires carbon neutral growth from 2020
- Aviation sector must offset emissions from international flights above 2020 threshold
- Pilot and first phase are voluntary
- Second phase (beginning 2027) is mandatory for countries with 0.5% share of international aviation



Response: Airlines

United Airlines

- Launched Flight for the Planet demonstrating all sustainability efforts
- First airline to use biofuel and invest in biofuel company Fulcrum BioEnergy

JetBlue

- Invested in Zunum Aero (hybrid aircraft) & Joby Aviation (vertical launch)

KLM

- Asking people to fly less by using train and video conferencing

Frontier

- “America’s Greenest Airline”

Sources: <https://bit.ly/2KXtX1j>; <https://bit.ly/30IMZVq>; <https://bit.ly/2xlOlaL>



Image source: <https://www.wired.com/story/zunum-aero-hybrid-plane-safran-engine/>

Response: Airports

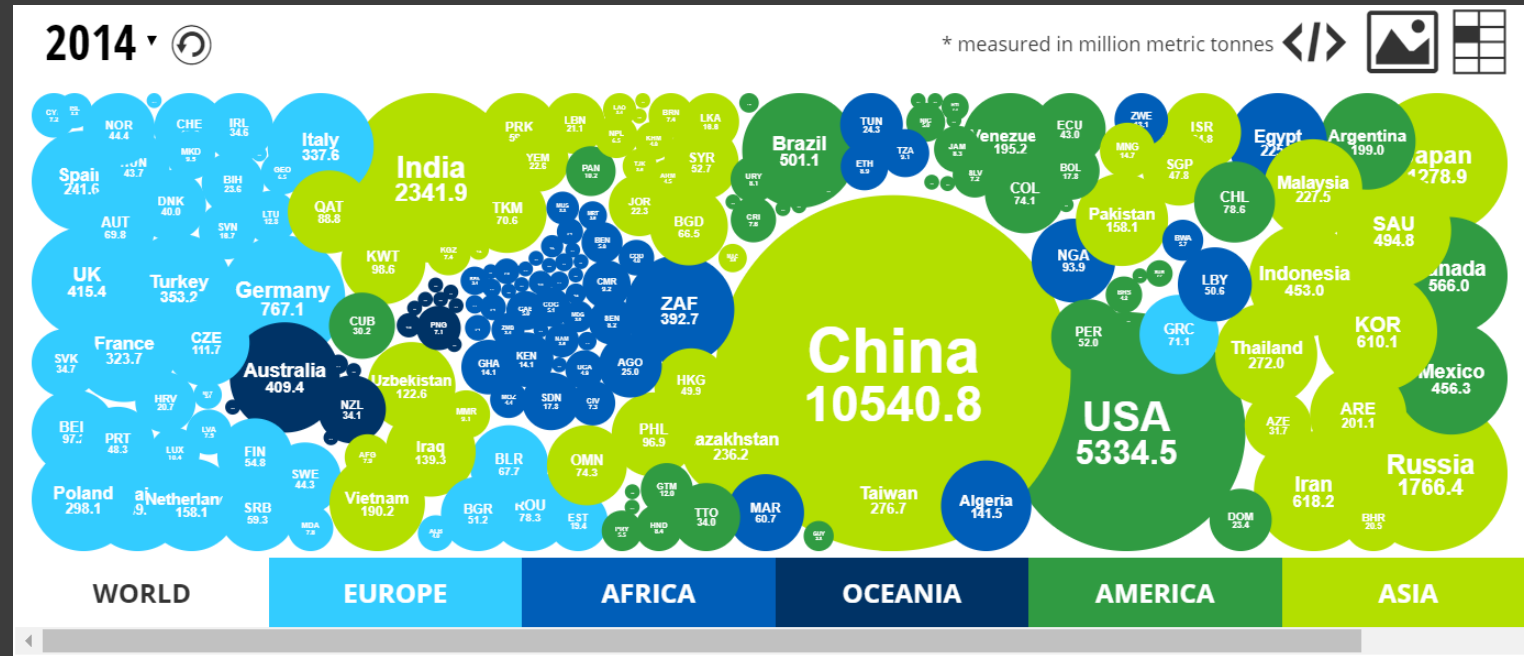
- 200 ACI EUROPE member airports pledged to achieve net-zero emission facility operations by 2050
- 3 Swedish airports already have net-zero emissions and 7 are on track for 2020
- Estimated to eliminate 3.46 million tons of CO₂ by 2050
- Facility emissions are only 5% of aviation emissions



**AIRPORTS COUNCIL
INTERNATIONAL**

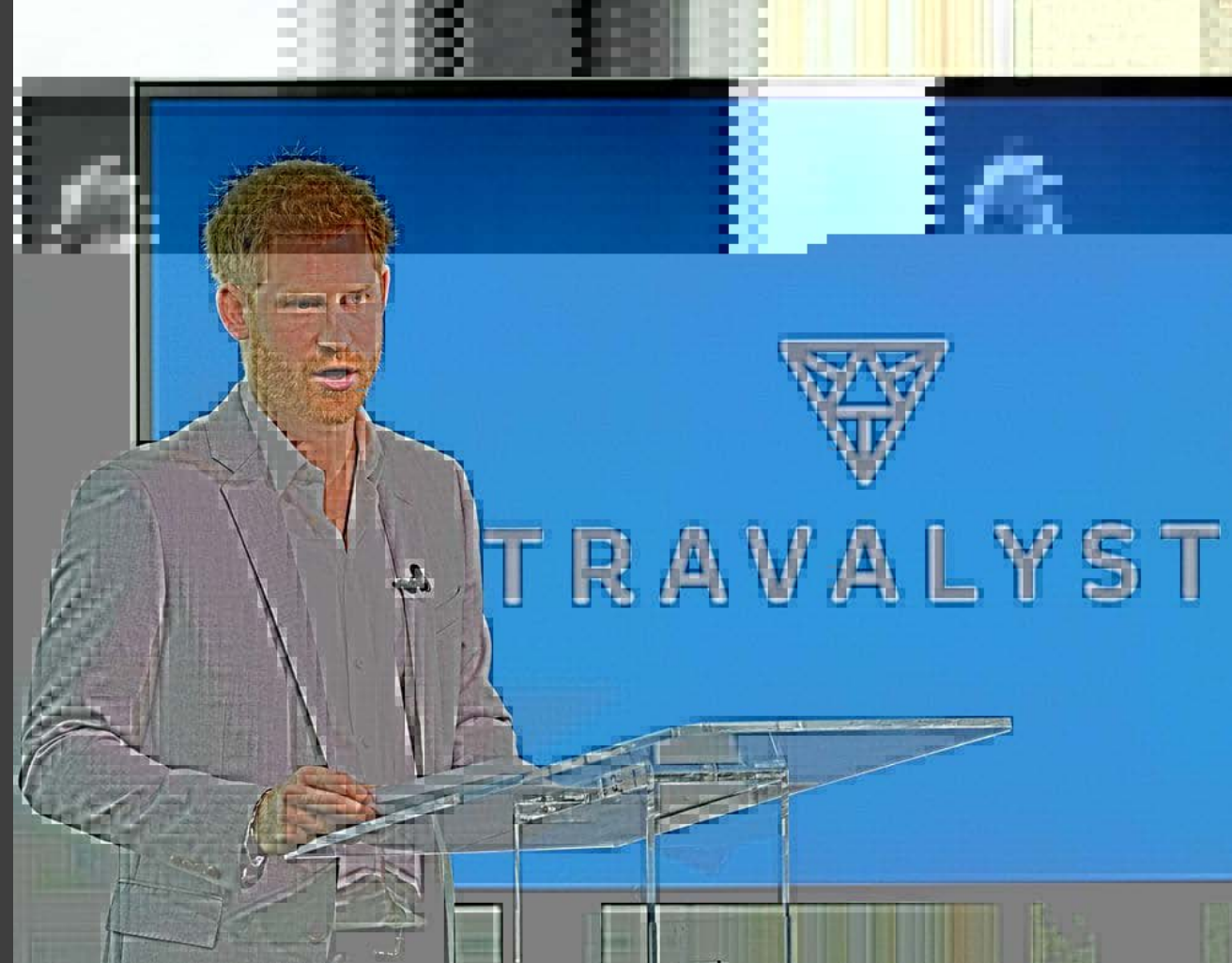
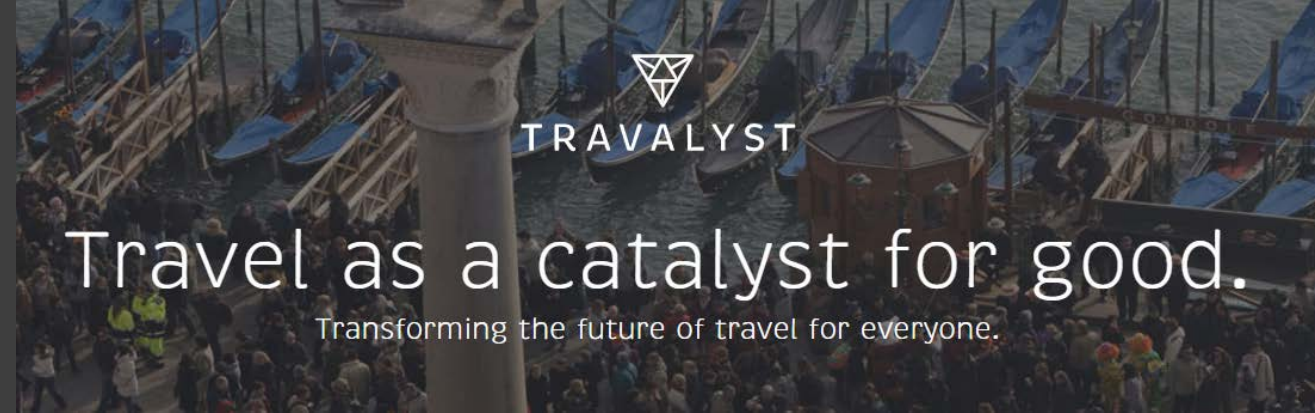
Response: Governments

- In April 2019, Canada introduced \$20/ton fuel tax in 6 provinces that do not have fuel taxes meeting federal benchmark
- Norway, Germany, Sweden, France, Austria have Aviation Taxes on departing flights
- Italy passed tax on executive charter flights
- UK considering requiring all airlines to include a carbon offsetting option at the point of sale



Response: Tourism Industry

- Promoting Sustainable Tourism
- Addressing Overtourism
 - Improving city infrastructure (airports play a role)
 - Time-based dispersal of visitors
- Prince Harry recently launched Travalyst
 - Partnership between TripAdvisor, Booking.com, skyscanner, Visa, and Ctrip





SUSTAINABILITY STRATEGY FOR AIRPORTS



ACI EUROPE Sustainability Strategy Connections to Flight Shame:

- Climate change section recommends sustainable fuels and electrification
- Balanced Business Model recommends pricing strategy to encourage quieter and cleaner aircraft
- Sustainable Tourism
- Encourages partnerships and innovation for all “material issues”

Discussion Questions

The ACI Europe pledge is an example of a type of ACI response. Typically, ACI-NA doesn't make broad goals - Is it time to do something different?

The ACI World Governing Board asked WEnSC to develop a scope of work to consider setting an ACI-World carbon reduction pledge. How important is that?

Executive level conversation re: how much do airports "own" the conversation vs. how much do airlines "own" it. Thoughts on this?

What are steps individual airports are taking?

Are there efforts that ACI-NA should take on to make it more effective for all?

What 5 things does this group think are most important for the ACI-NA policy council to hear about flight shaming?

ACI-NA Centerlines Connect







<https://connect.airportscouncil.org/communities>

Folders

- Environmental Affairs Committee
 - NEPA
 - Waste Management
 - Air Quality
 - Sustainability
 - Working Group presentations
 - Resources
 - Noise

Folder Contents

New View

- ★  ACI Europe Sustainability Strategy
- ★  Airport Sustainability 101 Resources
- ★  ATAG Flying in Formation - Air Transport and the Sustainable Development Goals (2017)
- ★  ICAO Briefing for RIO + 20 - Global Aviation and our Sustainable Future
- ★  Sustainable Aviation Guidance Alliance (SAGA)
- ★  USGBC Airports and LEED Website