Clean Skies for Tomorrow

Dr. Christoph Wolff
Head of Mobility Industries & System
Protesters take a stand for the environment as High Court considers legal challenge to Heathrow expansion

Flight decisions matter for climate change

The Case for Ditching Air Travel
Slow travel is popular in Europe and catching on in the U.S. It’s not a bad way to ease your climate (and possibly flight) anxiety.

These people want you to be ashamed of flying. Should you change your vacation plans?
A Swedish movement to reduce air travel is getting worldwide attention as the summer vacation season begins. What’s the most ethical way to travel, and could ‘flight shame’ become a thing here?

Climate-change protesters say they will target London’s Heathrow Airport

London climate change protesters Extinction Rebellion plan to disrupt Heathrow Airport on busy Easter holiday weekend

Airlines scramble to overcome polluter stigma as 'flight shame' movement grows

How Greta Thunberg and 'flygskam' are forcing aviation industry to act on climate change

If Seeing the World Helps Ruin It, Should We Stay Home?
In the age of global warming, traveling — by plane, boat or car — is a fraught choice. And yet the world beckons.

Flight shaming is taking off - can travel be more ethical?

Climate Change Poses Major Risks to Financial Markets, Regulator Warns
CLEAN SKIES FOR TOMORROW: EARLY LEADERSHIP BY SOME

Sustainability Series: European airports sign NetZero2050 agreement

Air Travel And Climate Change: KLM's "Fly Responsibly" Campaign

Heathrow offers free landing charges for a year to UK’s first electric plane

This Oil Major Says Net Zero Emissions Is ‘The Only Way To Go’ (Shell)

United’s June 5 ‘Flight for the Planet’ fueled with biofuel blend

Preparing for take-off? Aviation biofuel project wins £5m boost (BA, Velosys)

Boeing invests $1 million in Brazil’s sustainable aviation fuel industry

AIRLINES SLAM FRENCH MOVE TO IMPOSE “ECO-TAX”.

Airbus, Rolls-Royce and Siemens to develop hybrid plane

*only select examples to show diversity of activity
Efficiency improvements alone will not be sufficient to reach industry goals.

Emissions trajectory if we were still operating at the same efficiency levels as in 1990

Through new technology, improved operational measures and more efficient infrastructure, the industry has avoided 10 billion tonnes of CO₂ since 1990

Savings already achieved

GOAL 2: CNG2020

GOAL 3: -50%

Where emissions would be if efficiency does not improve from today.

With constant efficiency improvement through the pillars of technology, operations and infrastructure.

With gradual introduction of radical new technologies and sustainable alternative fuels.

CLEAN SKIES FOR TOMORROW: A COMPLEX MULTISTAKEHOLDER CHALLENGE

Engaged and Interested Actors

**Civil Society:**
- AEF*
- Climate Works
- ETC*
- EDF*
- RMI*
- Nature Conservancy

**Airports:**
- ACI
- Heathrow*
- San Francisco
- Schiphol*

**Airlines:**
- ATAG*
- Cathay
- IAG*
- KLM*
- Lufthansa*
- United*

**Manufacturers:**
- Airbus*
- Boeing*
- Dassault*
- Embraer
- Rolls Royce
- Siemens*

**Regulators:**
- ICAO*
- FAA

**Corporations:**
- Accenture
- McKinsey*

**Alternative Fuel:**
- Carbon Engineering*
- Fulcrum
- Lanzatech*
- SkyNRG*

**Fuel Producers:**
- BP*
- Occidental*
- Neste*
- Petrobras
- Shell*
- Total*

**Financial Institutions:**
- Citi*
- BNP Paribas*
- Goldman Sachs

**Agriculture:**
- Cargill
- Yara

*Attended the Paris workshop on the 20th June, 2019
6 action pathways following the Paris workshop

1. CULTIVATE DEMAND SIGNAL – Voluntary action for price premium
2. ALIGNMENT WITH CORSIA – Align with SAF & Offset standards
3. ESTABLISH GEOGRAPHIC PROGRAMS (1) – building alliances of hubs for SAF *demand* with progressive airlines, airports, fuel comps.
4. ESTABLISH GEOGRAPHIC PROGRAMS (2) – building alliances of *production* hubs for SAF (India, LATAM, MENA)
5. PARTNER WITH FINANCE INDUSTRY – pool capital & address climate risk
6. COOPERATION – Work closely with ICAO, IATA, ACI, Member States
CLEAN SKIES FOR TOMORROW: TIMELINES

CST Roadmap

**Summer 2019**
- June 20, 2019 | Paris
  - Clean Skies for Tomorrow workshop

**Fall 2019**
- Sep 23, 2019 | New York
  - UNSG Climate Summit
- Sep 23-24, 2019 | New York
  - WEF Sustainable Development Impact Summit

**2020**
- Jan, 2020 | Davos
  - WEF Annual Meeting
- June, 2020 | Location(s) TBD
  - Action Teams Kick-off
- March, 2020 | Location TBD
  - Expert Workshop to Refine Roadmap
- Nov 9-20, 2020 | TBD
  - COP 2020

**Determine Aviation Coalition Ambitions for 2019-2020**
- Identify action areas
- Coalition Partners

**Formalise ambitions & initiate agreed actions**
- Implementation Roadmap

**Continue deployment of agreed actions and initiate pilot**
- 2nd expert workshop
- Announcement of Roadmap and official partnerships
- Action teams work
CLEAN SKIES FOR TOMORROW: WHY THE WORLD ECONOMIC FORUM

How do we achieve change?

The Forum gathers leaders from business, government, international organizations, academia, civil society and youth to work together to drive positive change.

Flagship reports, policy frameworks and strategies influence government priorities, business strategies and public opinion.

Partners drive collective action through commitment to multi-stakeholder initiatives. Projects and collaborations started or supported by the Forum impact millions of people.

e.g., Drones and Tomorrow’s Airspace, Clean Skies for Tomorrow, Space Sustainability Rating
How do we partner: Formal MOU being worked on now

1. Known Traveler Digital Identity  (active)
2. Clean Skies for Tomorrow  (in progress)
3. Drones and the Future of Airspace  (in progress)
4. Cybersecurity in Aviation  (in progress)
5. Airways Bill  (in scoping)