

IAS Strategy towards Carbon Neutrality

FOA14
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IAS Working Group on Carbon Footprint

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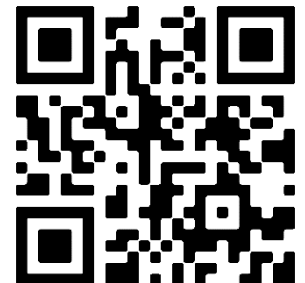
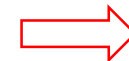


Rethink and reinvent
our conference model

- Robust CO₂ emissions estimates
- Feedback from the community through surveys
- Communication aspects (website, article, etc)
- Executive Summaries (recommendations)

more information,
IAS webpage:

<https://www.int-ads-soc.org/carbonfree-foa/>



Environmental Impact of FOA

CO₂ emissions FOA14

- ▶ 2.6 ton CO₂/person
- ~ 87% flying
- ~ 8% accomodation

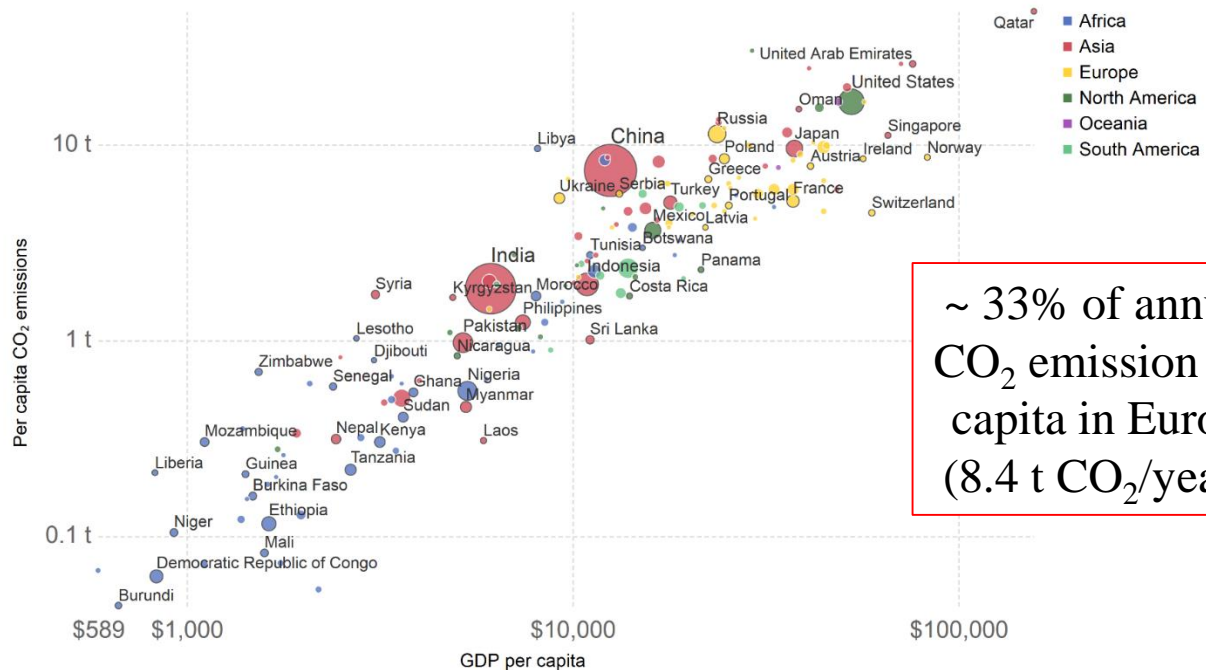
FOA14 Target

- ▶ Make carbon neutral conference via reduction and compensation

CO₂ emissions per capita vs GDP per capita, 2016

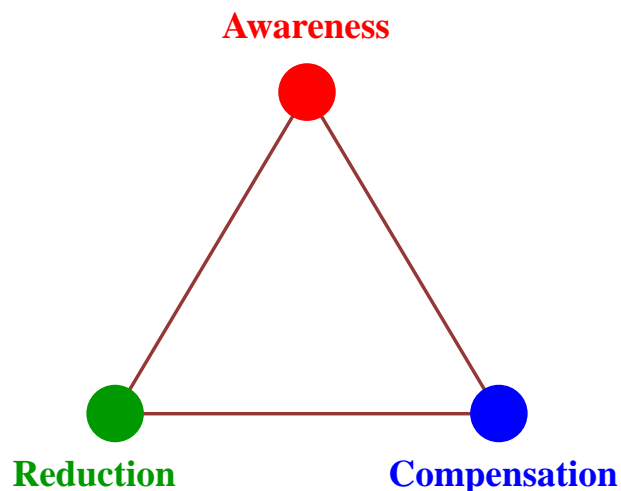
Carbon dioxide (CO₂) emissions per capita are measured in tonnes per person per year. Gross domestic product (GDP) per capita is measured in international-\$ in 2011 prices to adjust for price differences between countries and adjust for inflation.

Our World in Data



~ 33% of annual CO₂ emission per capita in Europe (8.4 t CO₂/year)

Targeted Actions FOA14



AWARENESS

- **Communications**
(presentations, article, reports, webpage)
- **Green sponsoring**
FOA session "Industrial CCS"
- **Surveys**
Feedback/view from our community

REDUCTION

- **Low local carbon footprint**
Webpage "reducing your carbon footprint while at the meeting"
- **Online access to FOA**
On-line access to FOA at a reduced fee (~150 attendees)

COMPENSATION

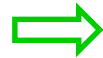
- **Additional registration fee**
70\$ fee for carbon compensation
~23 k\$ needed, ~25 k\$ collected!!
- **Appointment IAS CO2 fund**
Decide/monitor compensation actions
D. Danaci, P. Webley, Z. Li,
➔ *R. Lively, M. Mazzotti, B. Coasne*

Beyond FOA14?



Raise the bar compared to FOA14!

REDUCTION
Set stringent
targets



Consensus to maintain FOA
conferences as such but need
to reduce our carbon footprint

Strategy:

Set absolute/relative CO₂
targets to account for
variations in location

CO₂ emissions as a criterion
for FOA site selection?



Ideas:

CO₂ emissions related to
accommodation (~ 10-15%)?

Carbon intensity targets
Visioconference? Combined events?

Frequency 3 → 4 years?
Regional (satellite) conferences?

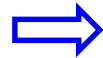
Beyond FOA14?



Raise the bar compared to FOA14!

COMPENSATION

Define an acceptable strategy



Consensus that compensation is not satisfactory but provides a means to reduce our carbon footprint

Strategy:

Complete transparency in selecting low hanging fruits at time t but with strict guidelines

Take into account local versus global CO₂ emissions

Ideas:

FOA events with zero emission certificates (w/ external audit)?

CO₂ removal preferred to CO₂ offsets?

Immediate purchase and permanence?



Beyond FOA14?



Raise the bar compared to FOA14!

AWARENESS
Reinforce our
visibility



Given its expertise, IAS can act as a role model for other science communities and beyond

Strategy:

Increase awareness actions within our community

Extend our actions and visibility

Ideas:

Decrease local C-footprint (reusable materials, public transport., etc.)?

Recommendations for both conference organizers and IAS?

Extend our actions by combining events with other societies?

Form a coalition of scientific societies to lobby for climate-neutral flights (e.g. sustainable synthetic fuels).

