

FIGHT OR FLIGHT:

EXAMINING ACADEMIC AIR
TRAVEL'S CARBON FOOTPRINT

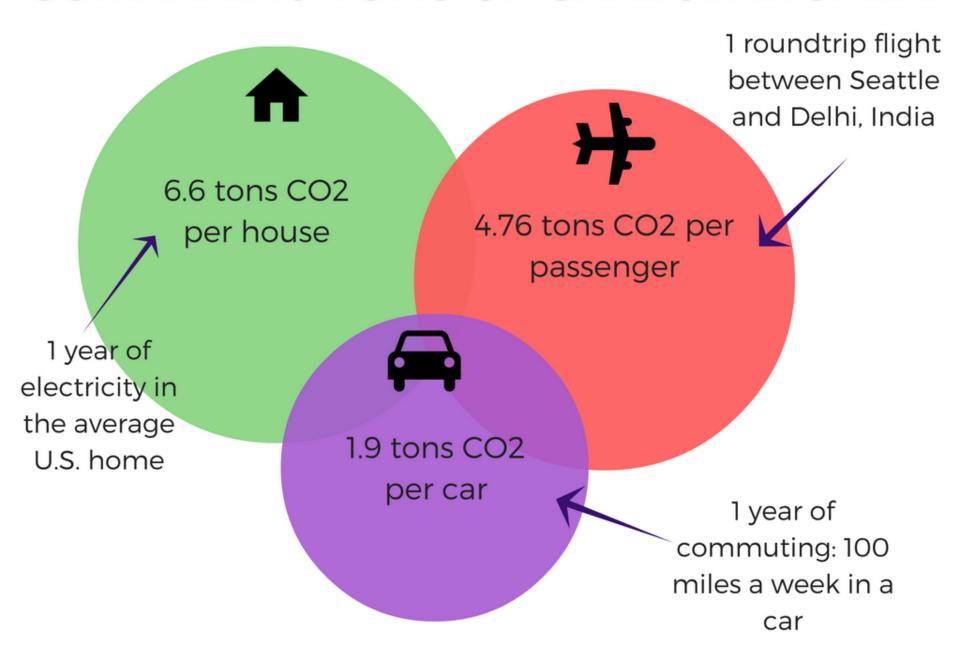
TESSA YIP



Host organization: UW Sustainability
Site supervisor: Elise Glassman, UW Sustainability
Faculty advisor: Kristi Straus, Program on the Environment

WHAT FACTORS AFFECT ACADEMIC AIR TRAVEL?

COMPARING TONS OF CARBON DIOXIDE



15 - 40%

The predicted percentage of global carbon dioxide emissions to come from air travel by 2050



5.3%

Annual growth rate of all civilian air travel over the next decade



The extensive predicted growth in aviation will outgrow any increases in fuel efficiency



11%

The percentage of the UW's carbon footprint that comes from air travel



2050 UW Clir Plan

UW Climate Action
Plan goal for
climate neutrality

INTERNSHIP AND INTERVIEWS





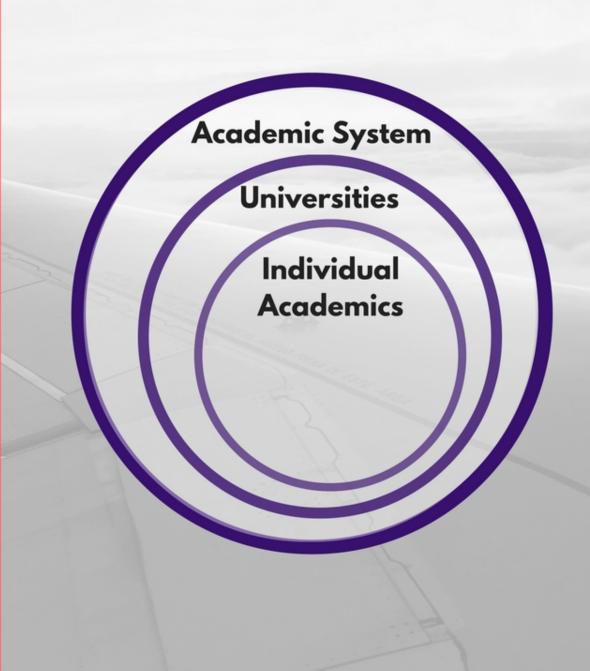
Developed communications plan for UW Travel Office

Conducted interviews with 10 UW faculty members

WHERE DO PROFESSORS GO?



DIFFERENT SCALES OF ACADEMIA



SCALE 1: THE GLOBAL ACADEMIC SYSTEM



THE GLOBAL ACADEMIC SYSTEM



Research Conferences Study abroad Teaching

ESSENTIAL AND INESSENTIAL

Travel types range in importance

SCALE 2: THE UNIVERSITY SYSTEM



THE UNIVERSITY SYSTEM



Career progression is vital to an academic's career

+ TENURE

Tenure and seniority give greater freedom of choice regarding travel

ACADEMIC DEPARTMENTS

Travel requirements range between each department

SCALE 3: INDIVIDUAL ACADEMICS



INDIVIDUAL ACADEMICS

CATEGORIZING PROFESSORS BASED ON TRAVEL IDEOLOGY

Shift in air travel habits

Environmental awareness



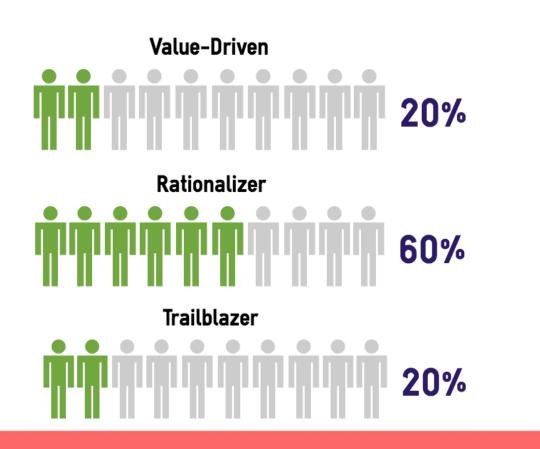
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Perception of air travel

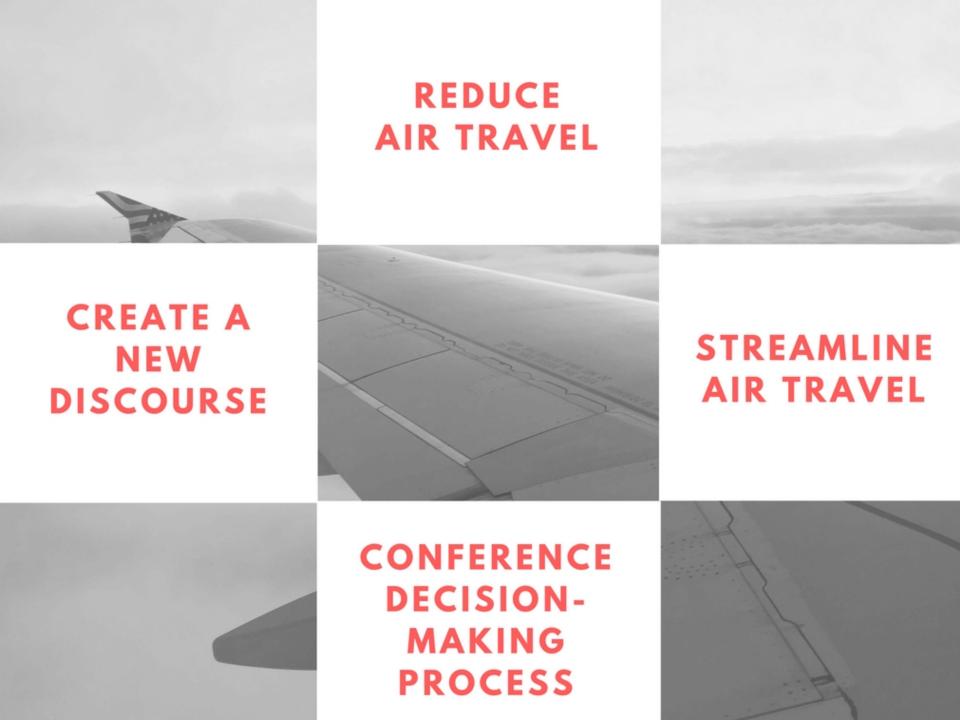
Openness to alternatives

IDEOLOGY SCALE - "TYPE"





HOW CAN A UNIVERSITY MITIGATE THE ENVIRONMENTAL IMPACTS?



REDUCE ACADEMIC AIR TRAVEL



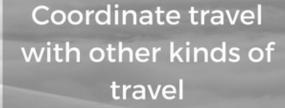
Cutting academic travel would be the most efficient action to reduce UW's carbon footprint but would this impede the university's mission?

"ACADEMICS HAVE A DUTY TO DISCUSS, DISSEMINATE,
DEFEND THEIR WORK, AND LEARN ABOUT OTHER
APPROACHES TO THE SAME PROBLEMS AND QUESTIONS."

 Jeremy Hess, Emergency Medicine, Health Sciences, Global Health

STREAMLINE ACADEMIC TRAVEL

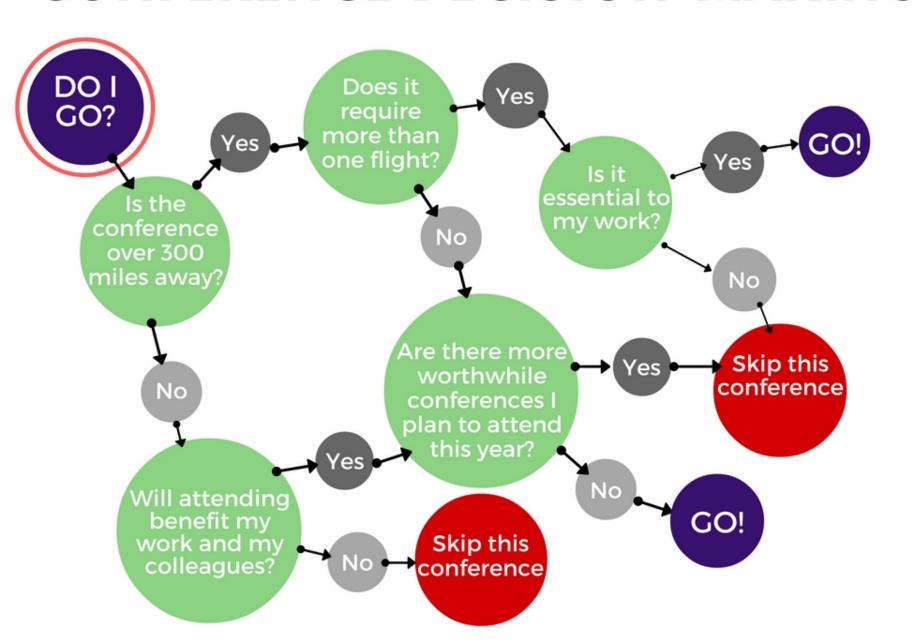
Better organize and schedule travel



Reduce the "back and forth"

Maximum amount is done with 1 round-trip flight

CONFERENCE DECISION-MAKING



LET'S MAKE AIR TRAVEL PART OF THE CARBON CONVERSATION

Talk about flying with colleagues

Keep personal emissions record

Make flying part of the study abroad curriculum

CHANGE SYSTEM NORMS

"If we look at sustainability as 'doing less bad' then our endgame is doing nothing; the endgame is to do good." - Stephen Muench, Civil and Environmental **Engineering**

START WITH CONFERENCES



World Seabird Twitter Conference

FUTURE DIRECTION

"How do we use the existing resources of a totally unsustainable culture to leverage them in a direction of something that's viable for the future?" - Karen Litfin, **Political Science**

ACKNOWLEDGEMENTS

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Faculty Advisor: Kristi Straus

My parents, friends, and girlfriend

Fellow PoEple

