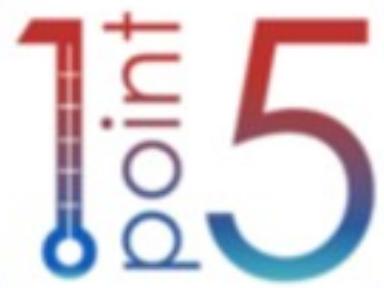




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Research Engineer @ Inria

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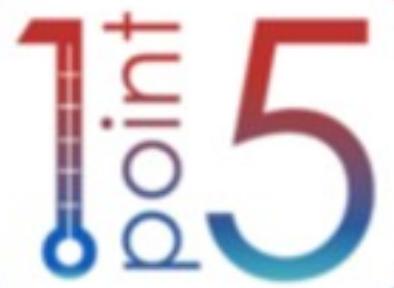
# Carbon Footprint IC2E / Rennes / 2025



# Foreword : Labos1point5

Labos1point5 (<https://labo1point5.org>):

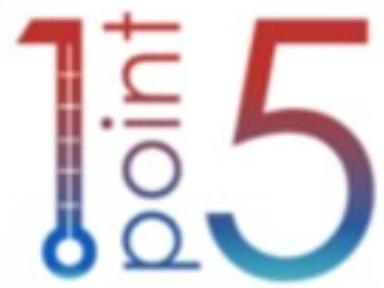
- → Nation Wide French inter-disciplinary research group (~200 members)
- → **Research object : The academic system wrt its environmental impact**
- → Different topics addressed
  - Methodologies to estimate environmental footprint (e.g carbon footprint)
  - Teaching (e.g provide resources for teachers about environmental impacts / doctoral courses)
  - Development of tools (e.g online calculator used by 1000+ labs)
  - Dissemination (e.g seminars...)



# Questioning the conferences

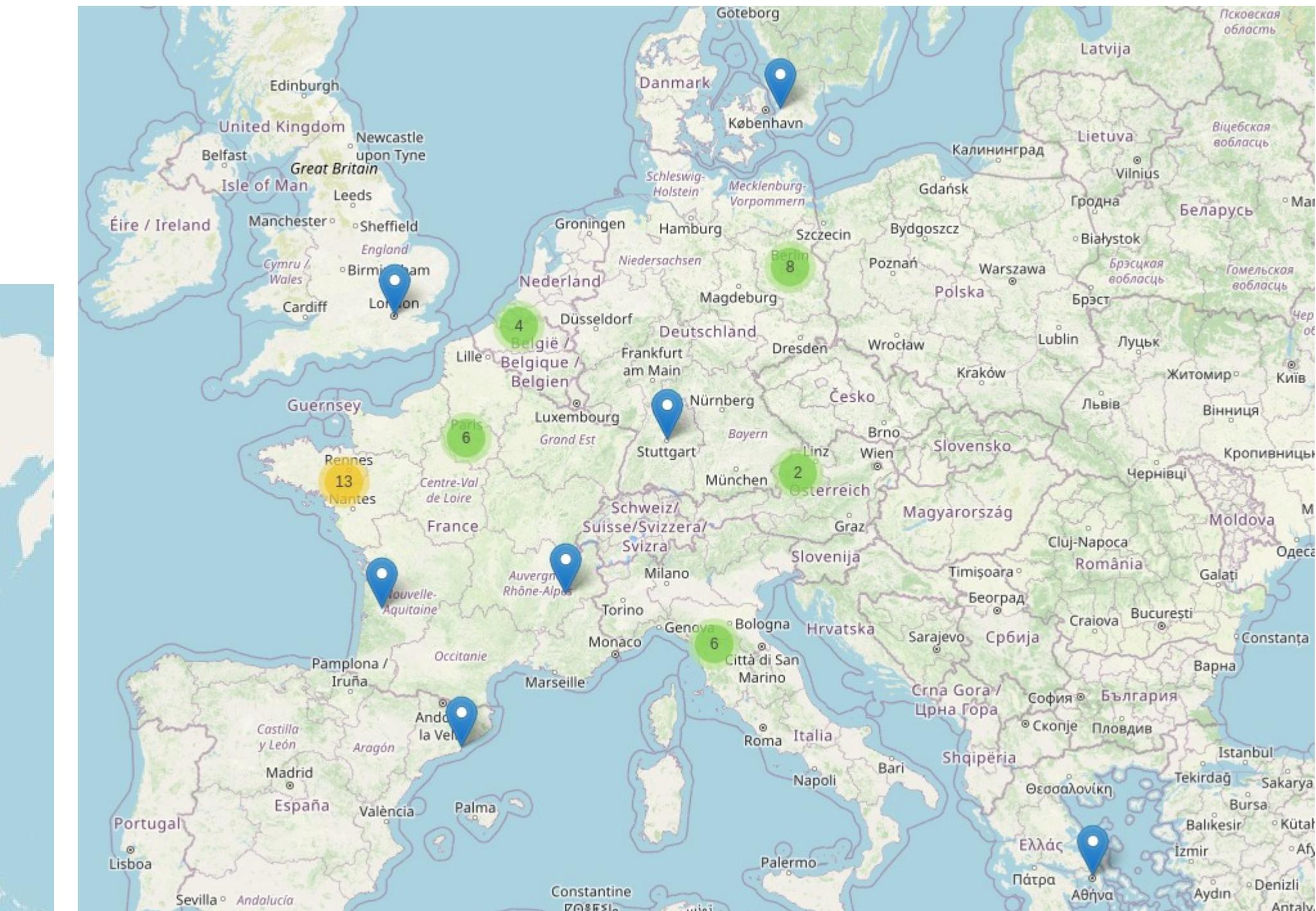
## Questioning the conferences :

- Major source of carbon emissions (flights) for labs
- **It's a carbon lock :**
  - dissemination through conferences is the norm in computer science
  -
- Goal of the presentation :** provide some insight for IC2E in terms of carbon emissions
- 
- Dataset : 64 answers to the poll (thanks Ammar Kazem and all for answering!)

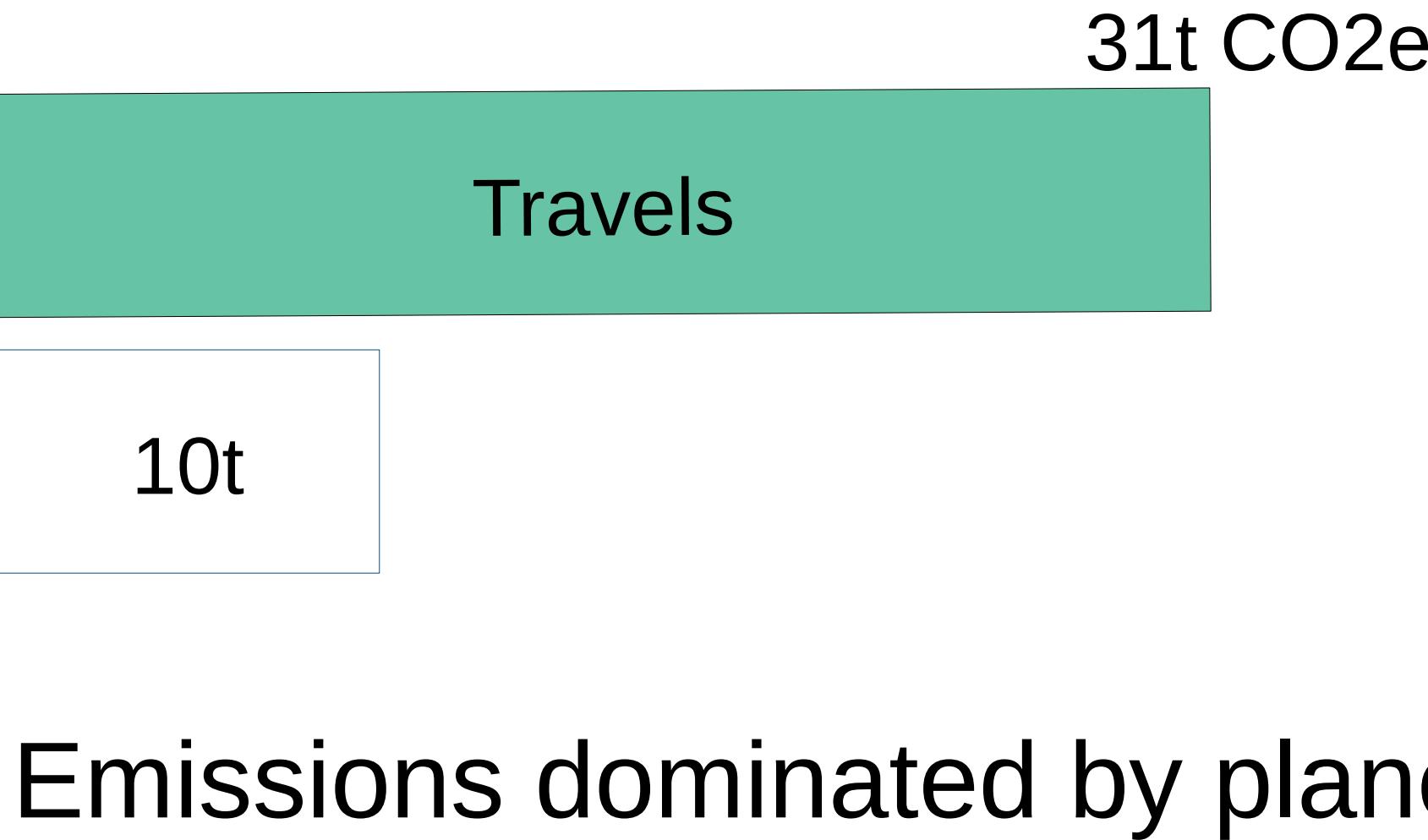


# Questioning the conferences

→ IC2E 2025 center of gravity is in... Europe



Figures : Labos1point5



**Scenario** : replacing plane by train in Europe => -30 %

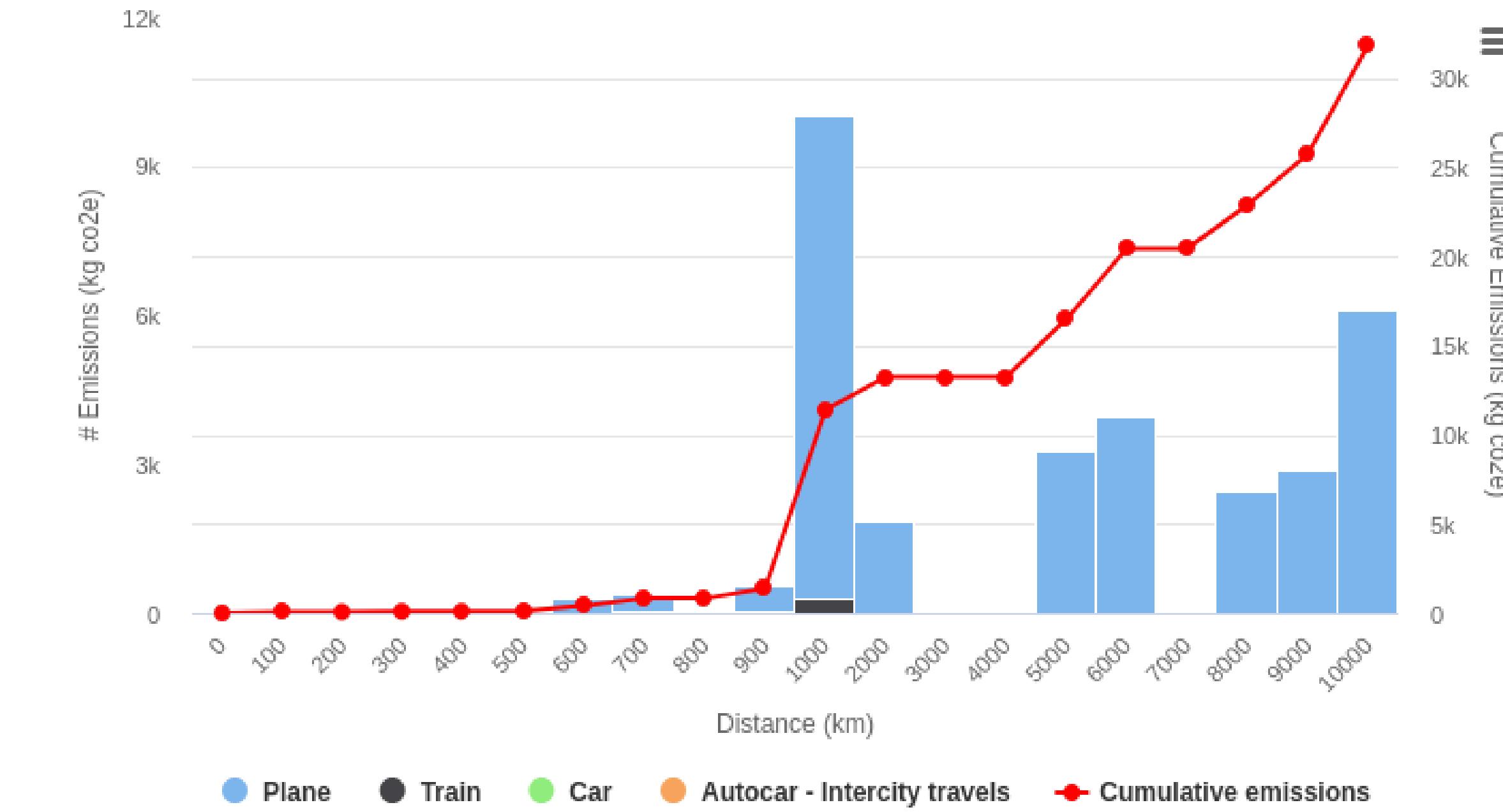
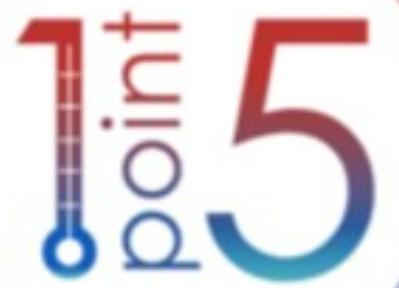
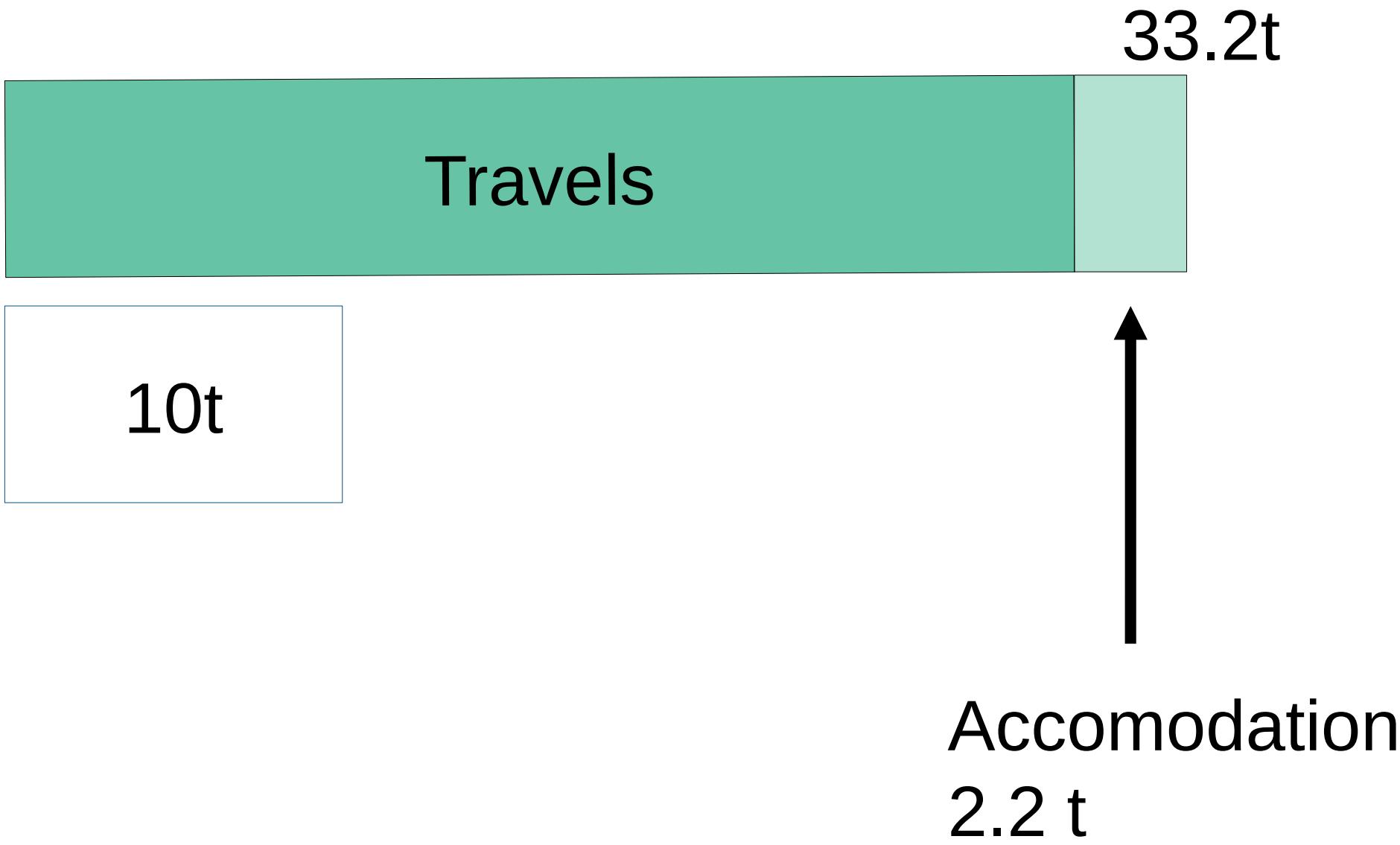


Figure : Emissions for the travel sections of all the transportation modes depending on the travel distance. In red the cumulative sum of the emissions is drawn. In the general case a mission is made of different travel sections.



# Green Days 2025



## Accommodations

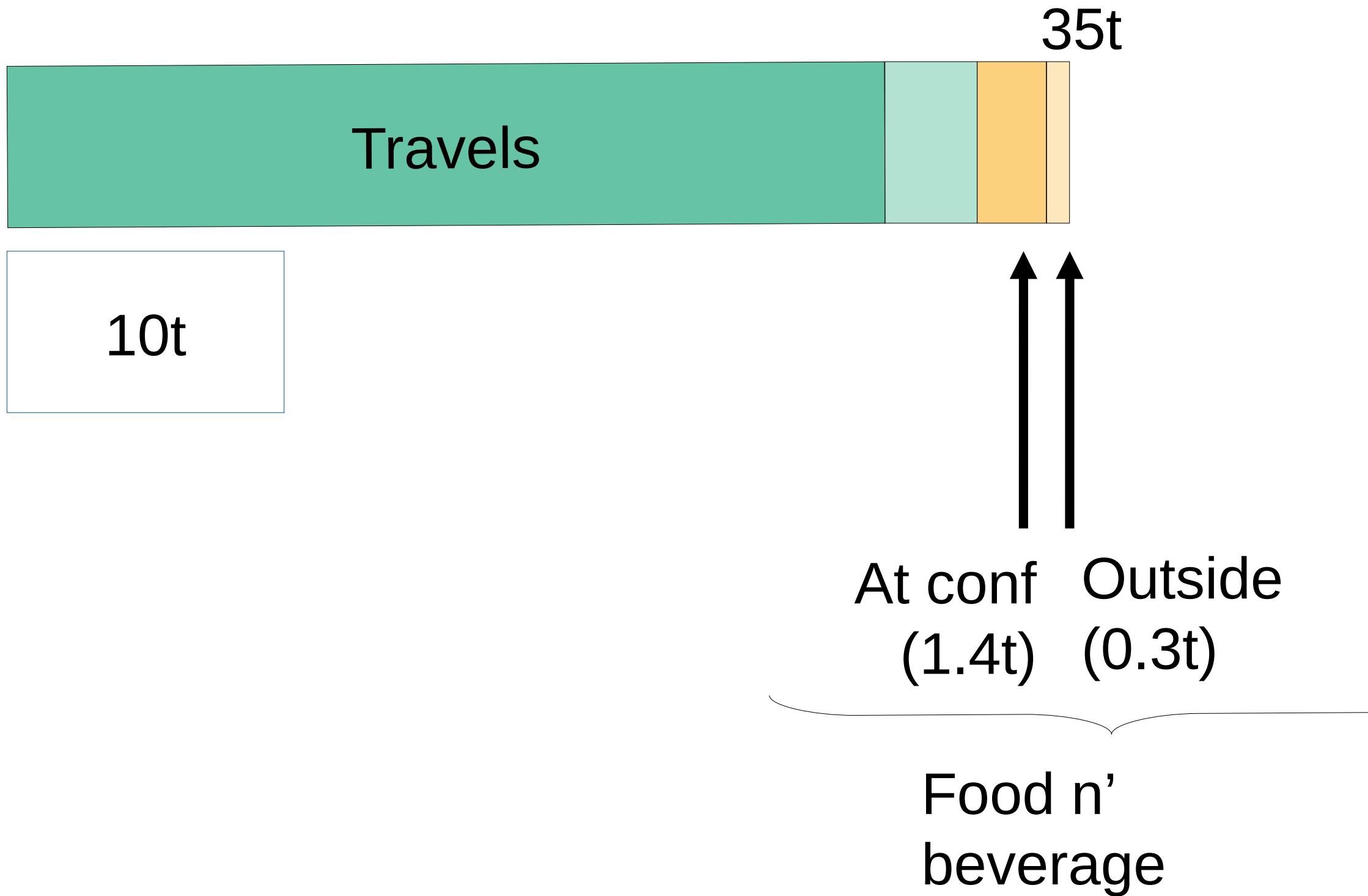
- → Total 217 nights

## Emission Factor

- → 10 kgCO2e / night (France only)



# Green Days 2025



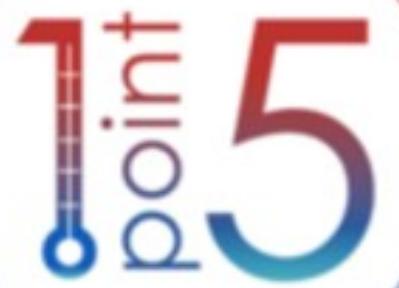
## Food and beverage

### At the conf

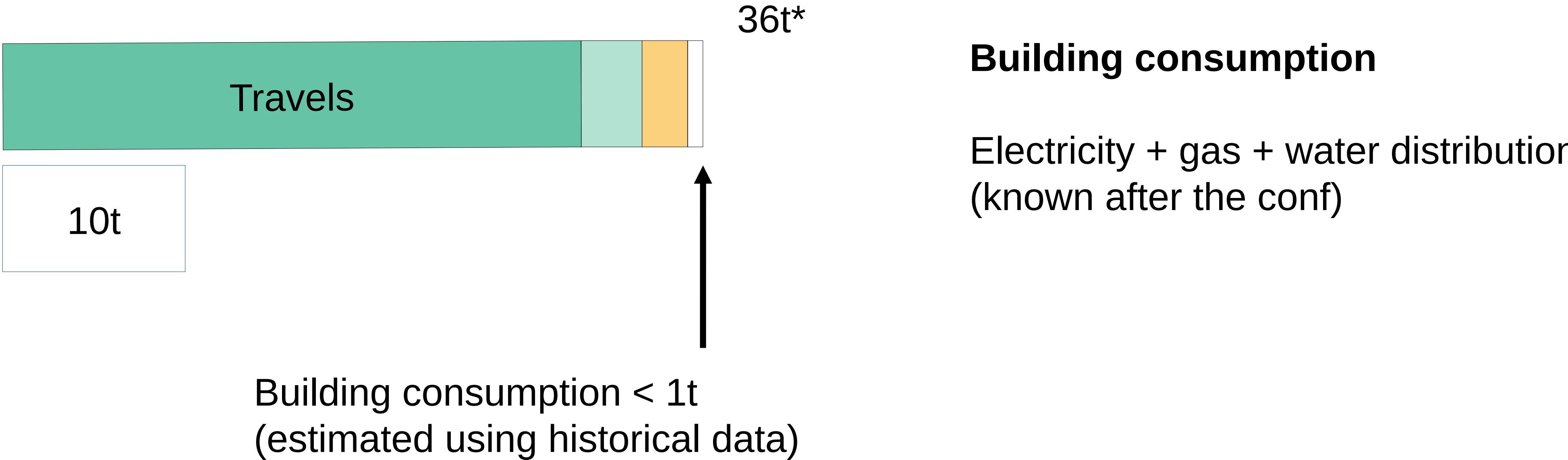
- Includes meals + coffee breaks
- → Meals are 50 % vegetarian

### Outside the conf

- → Estimated using the poll answers
- 30 vegetarian meals / 140 other



# Green Days 2025



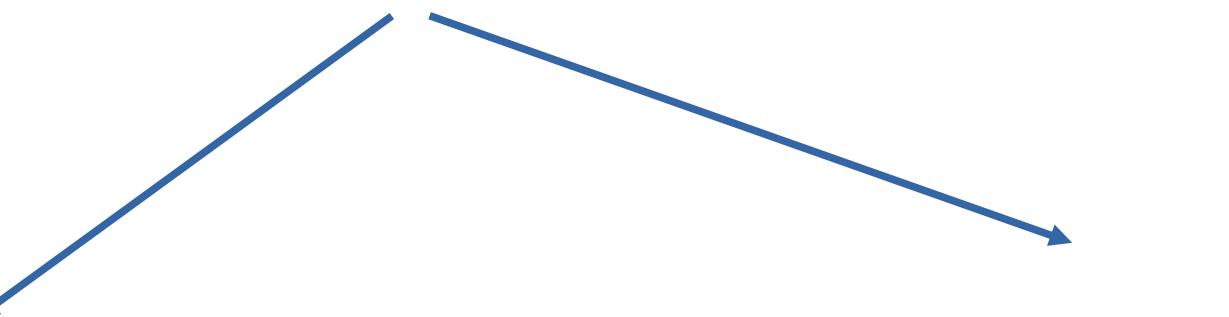


IC2E 2025 : travels + accomodations + food + building

Travels ~ 86 % of the total emissions

36t

Carbon Intensity : 160 kg/day/person



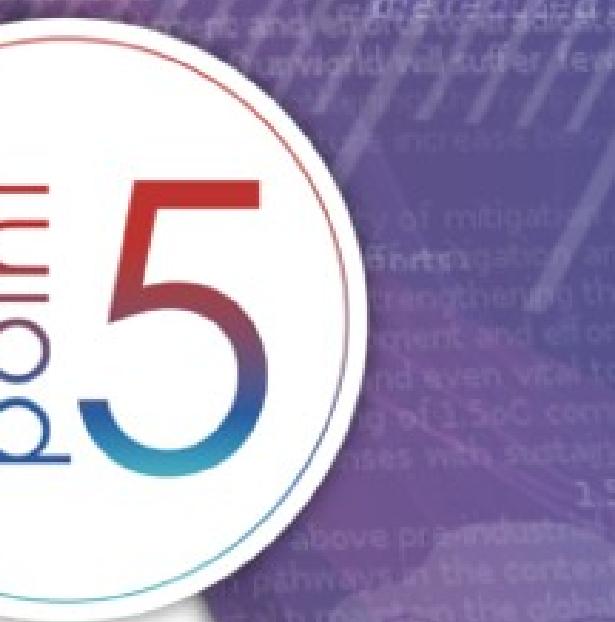
IEEE VR (1200 attendees)  
- 420kgCO2e/day/person  
Same perimeter

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Human on earth

**Objective:** 2.5 kgCO2e/day

⚠ not the same perimeter (~wider)



IC2E 2025 : travels + accomodations + food + building



It's urgent to reduce



Everyone, bring this topic to your community  
(break the carbon-lock)



Organizers, be creative :

- colocation with other conf
- reduce frequency
- multi-hub locations
- don't organize in an island
- mix the above ...

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