



GENÈVE
AÉROPORT

Decarbonization challenges of the Geneva airport and how technology can help to address them

Geneva, 1 November 2023

Key figures

46,3
million CHF in profit



60,4
million CHF
in investments

971,8
Employees (FTE)



146
destinations



14'085'280
passengers



423,1
million CHF in turnover



70'566
tons of cargo



52
airlines

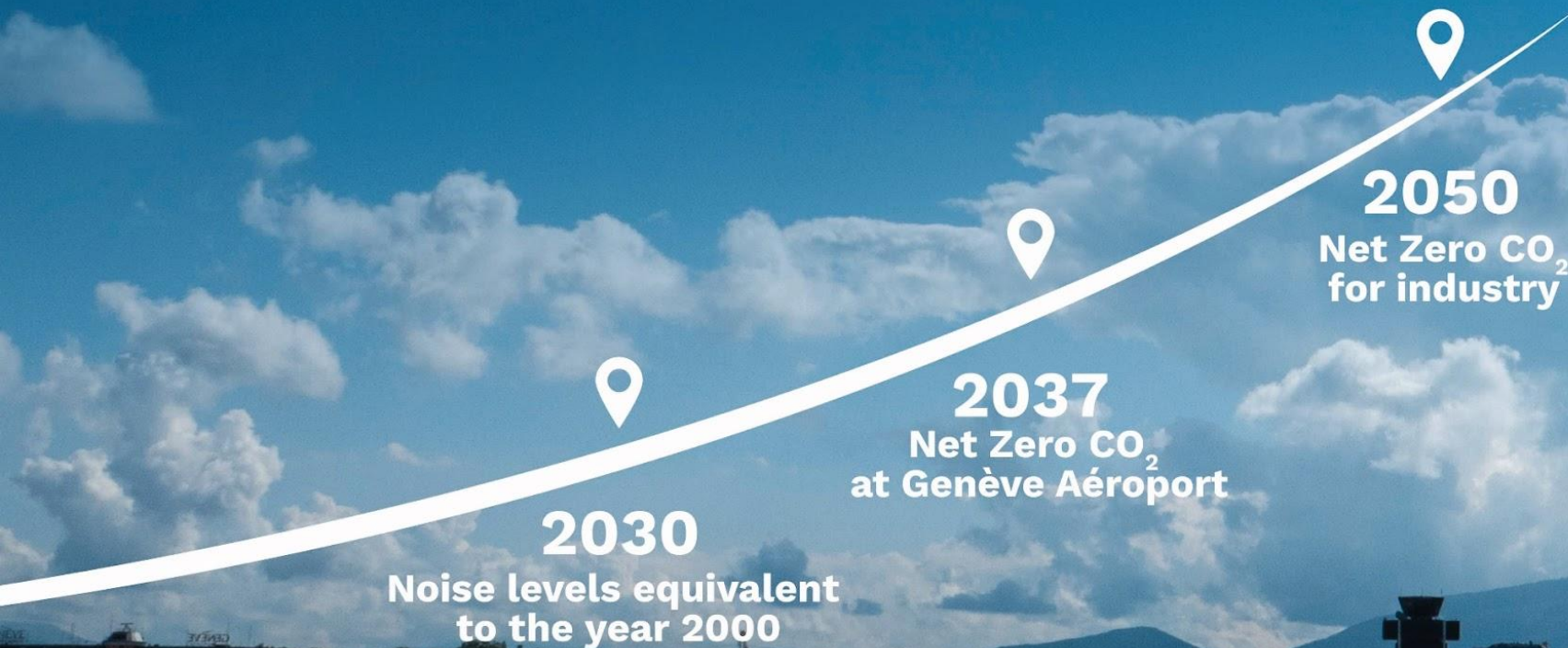




Geneva Airport is pursuing a sustainable development strategy to reduce its carbon footprint and to meet the expectations of the region and its communities.



What we do



Our environmental challenges

CO2 emission scope 1 and 2

- Building heating and cooling
- Decarbonizing the traffic on the apron

CO2 emissions scope 3

- Aviation
- Transportation to and from the airport

Noise

- Noise as impacted by type of plane
- Noise as impacted by hour of movement

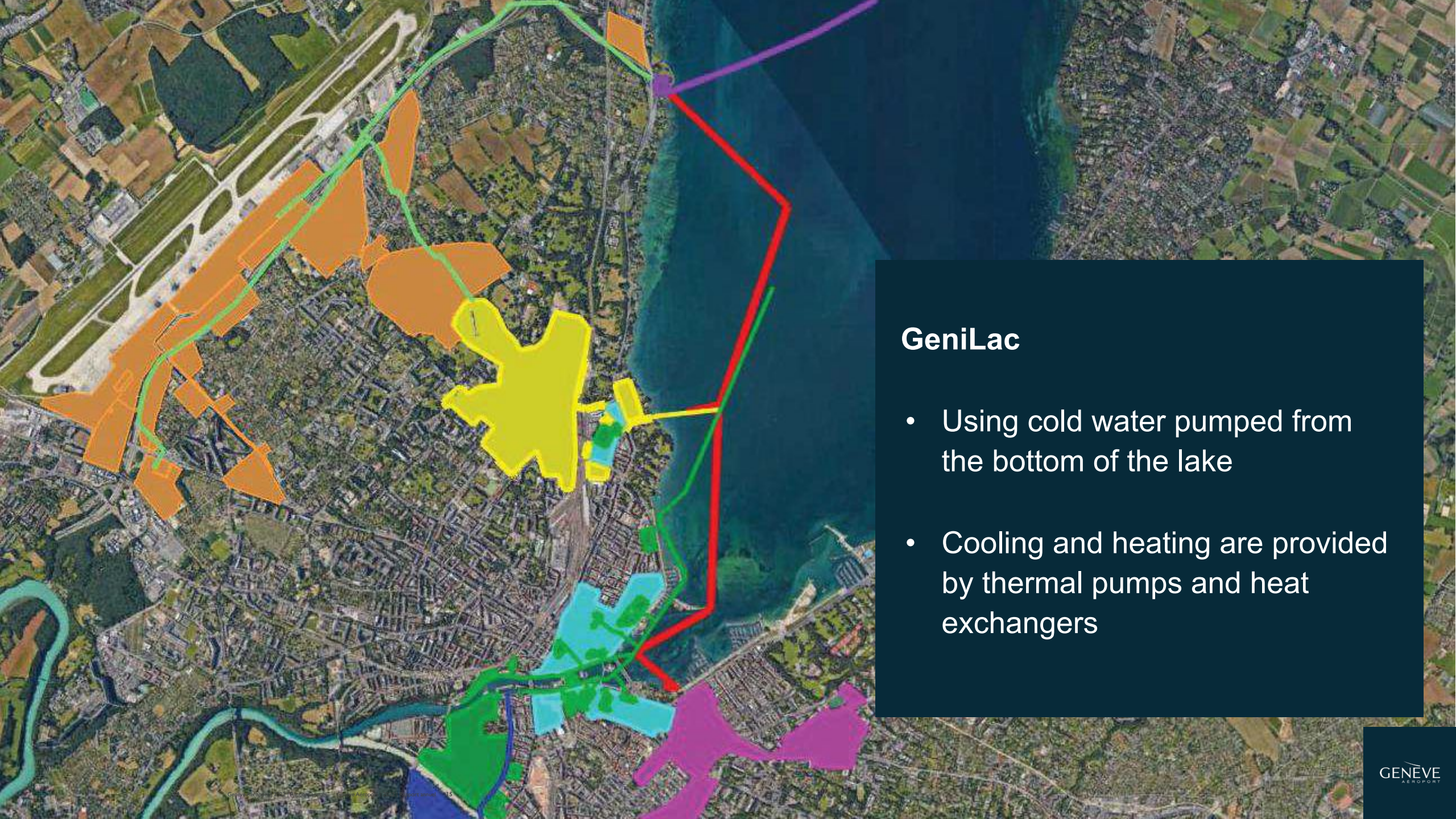
Green energies

- Renewable electricity production
- Sustainable aviation fuel (bio and synthetic)



CO2 emissions scope 1 and 2





GeniLac

- Using cold water pumped from the bottom of the lake
- Cooling and heating are provided by thermal pumps and heat exchangers



Decarbonizing traffic on apron

- Actually, 30% of the vehicles on the apron are electric
- In 2030, we will reach 90% electric vehicles on the apron

CO2 emissions scope 3



Aviation

- gradual replacement of fossil kerosene by biogenic and synthetic fuels (Sustainable Aviation Fuels SAF)
- promotion of more efficient aircraft
- organization of more fuel-efficient air traffic on the ground and in flight
- use of economic instruments (voluntary CO2 offsetting, participation in ETS and CORSIA as an interim solution, as well as carbon removal projects to reduce remaining emissions).

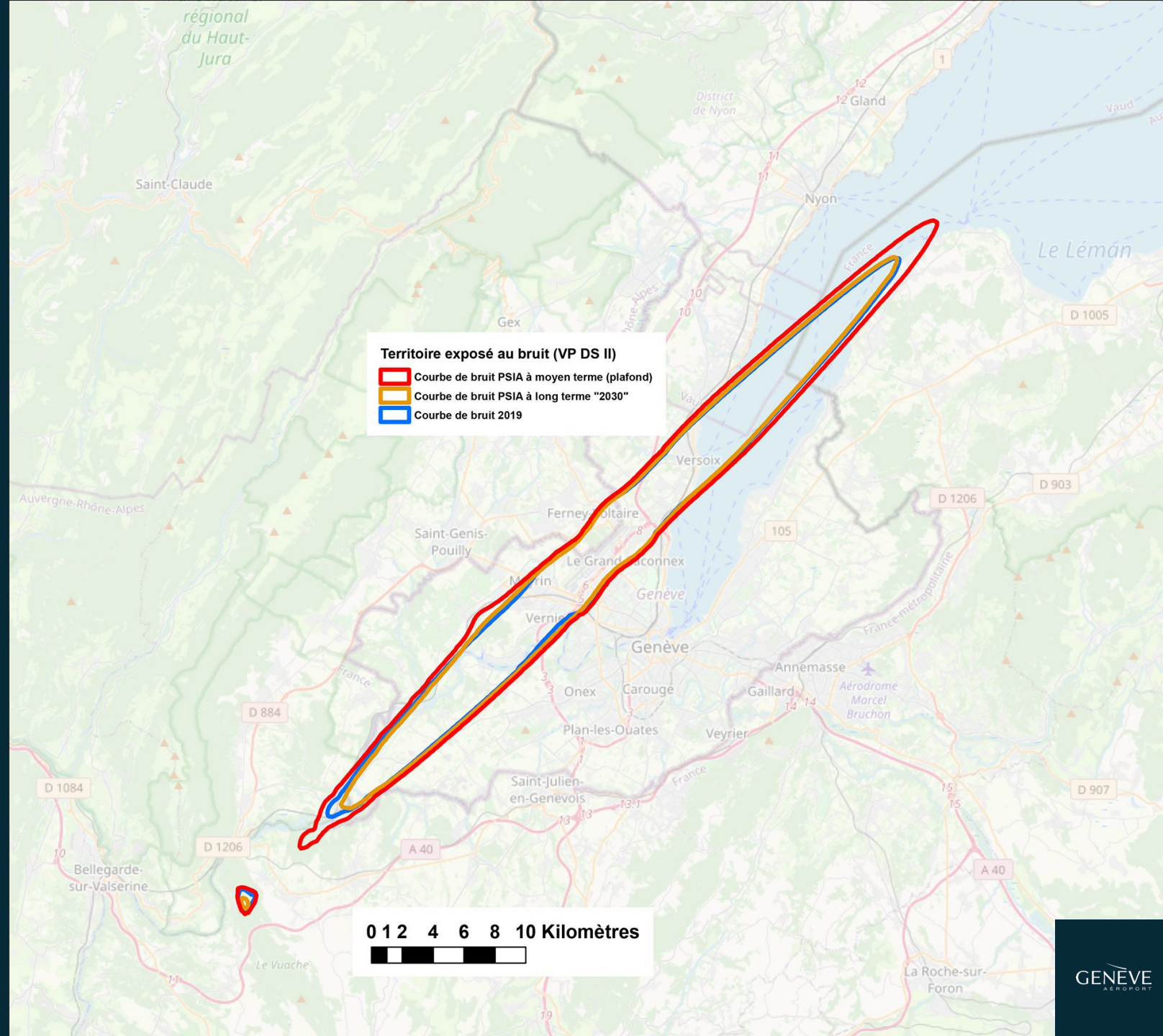




Transportation to and from the airport

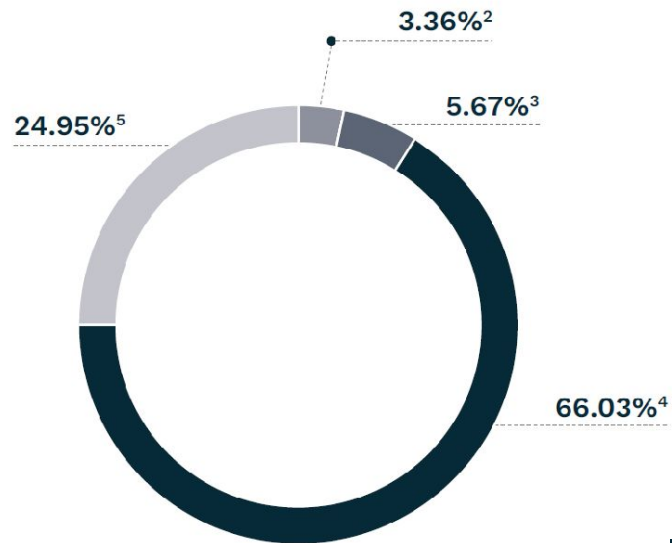
- Extend the public transport offer
- Offer reduced fares for passengers

Noise



Distribution by class of noise

Scheduled and charter, passengers only

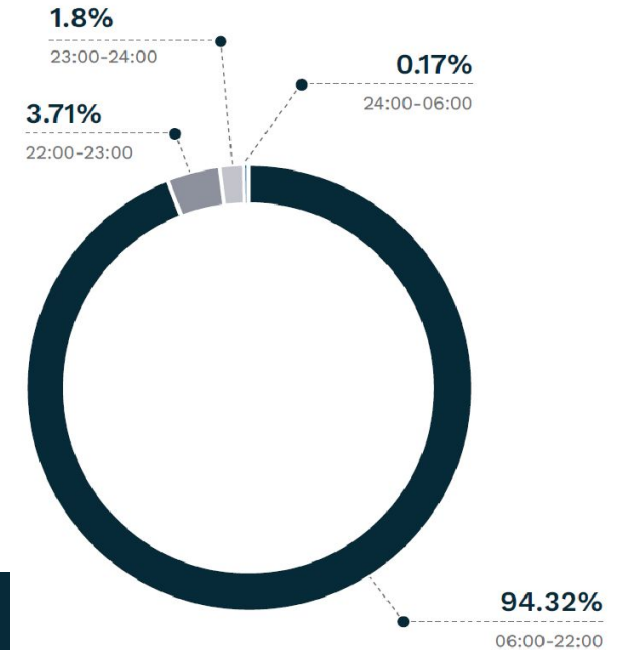


| Noise classes* | Rotations |
|----------------|-----------|
| 1 | 0 |
| 2 | 3,867 |
| 3 | 6,524 |
| 4 | 76,025 |
| 5 | 28,726 |

*1 being the loudest,
5 the least loud.

Night movements vs. total movements

All traffic

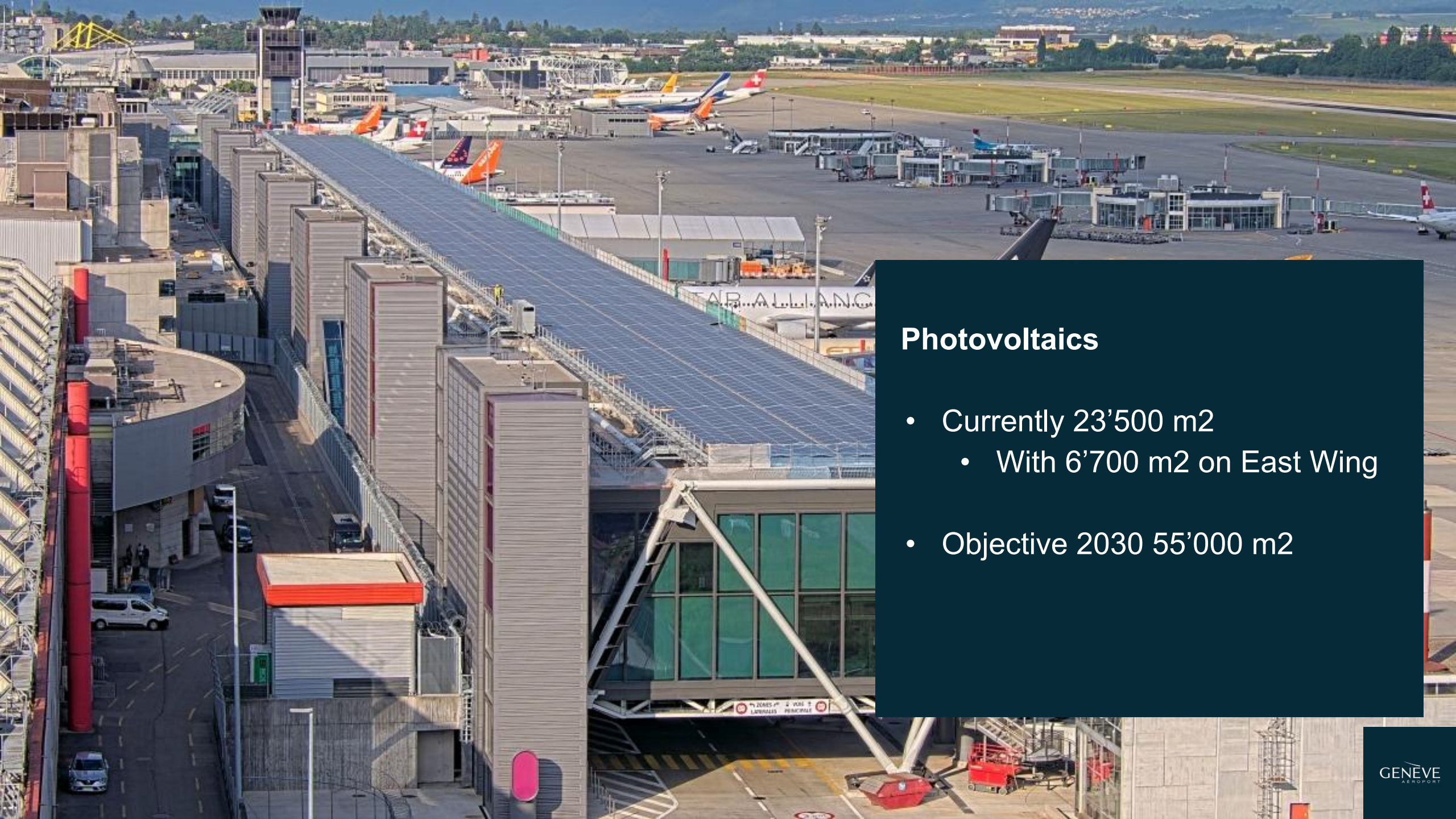


Noise

- Noise as impacted by type of plane
- Noise as impacted by hour of movement

Green energies





Photovoltaics

- Currently 23'500 m²
 - With 6'700 m² on East Wing
- Objective 2030 55'000 m²



Sustainable aviation fuels

- Made from biological raw materials (typically waste)
- Power to liquid
- Solar to liquid

Thank you

