



```
(demo) filippo@filippo-XPS-15-9530:~/iia/green-routes-demo$ python3 green-route.py --origin "Plaça de Catalunya" --destination "Sagrada Família"  
Shortest route total distance: 2819.93 m  
Shortest route total exposure: 114908.99  
Green route (historical data) total distance: 2998.77 m  
Green route (historical data) total exposure: 107088.46  
N02 exposure difference: -6.81%  
Distance difference: +6.34%  
(demo) filippo@filippo-XPS-15-9530:~/iia/green-routes-demo$ █
```



```
(demo) filippo@filippo-XPS-15-9530:~/iia/green-routes-demo$ python3 green-route.py --origin "Carrer Ros de Olano 15" --destination "Avinguda Diagonal 482" --real-time data/test.json
Running MAMP algorithm
Shortest route total distance: 819.38 m
Shortest route total exposure: 31449.08
Green route (historical data) total distance: 819.38 m
Green route (historical data) total exposure: 31449.08
N02 exposure difference: +0.00%
Distance difference: +0.00%
Green route (historical + real-time data) total distance: 837.74 m
Green route (historical + real-time data) total exposure: 25125.22
N02 exposure difference: -20.11%
Distance difference: +2.24%
(demo) filippo@filippo-XPS-15-9530:~/iia/green-routes-demo$ 
```



Origin
● Carrer Ros de Olano 15

Destination
● Avinguda Diagonal 482

Routes
— Shortest (819 m)
— Historical (819 m, +0% NO₂)
— Historical + Real-Time (838 m, -20% NO₂)

Sensors (2024-04-21 19:00:00)

- Poblenou: 8 µg/m³ NO₂
- Sants: 4 µg/m³ NO₂
- Eixample: 22 µg/m³ NO₂
- Gràcia: 99 µg/m³ NO₂
- Ciutadella: 11 µg/m³ NO₂
- Vall d'Hebron: 5 µg/m³ NO₂
- Palau Reial: 6 µg/m³ NO₂