

Prototype

TRY IT NOW



Geo-AI Comfort Routing System

Taichung City

Address input (Geocoding)

PM_{2.5} Weight (%)
 NO₂ Weight (%)
 Temp. Weight (%)

Weight selection (Environmental factors)

Transportation ☐
 Scooter ☒

Time/Avg. Exposure	Shortest Path	Comfort Path	Relative Change
Est. Time	9.56	10.87	1.31 min
PM _{2.5}	17.98	15.57	-1.52 %
NO ₂	14.92	11.09	-15.43 %
Temp.	21.85	21.12	-0.73 °C

Comparison results of the two routes

The values in the table are the estimated exposure and average for each of the two routes.
The units are minutes (Time), µg/m³ (PM_{2.5}), ppb (NO₂) and °C (temperature).

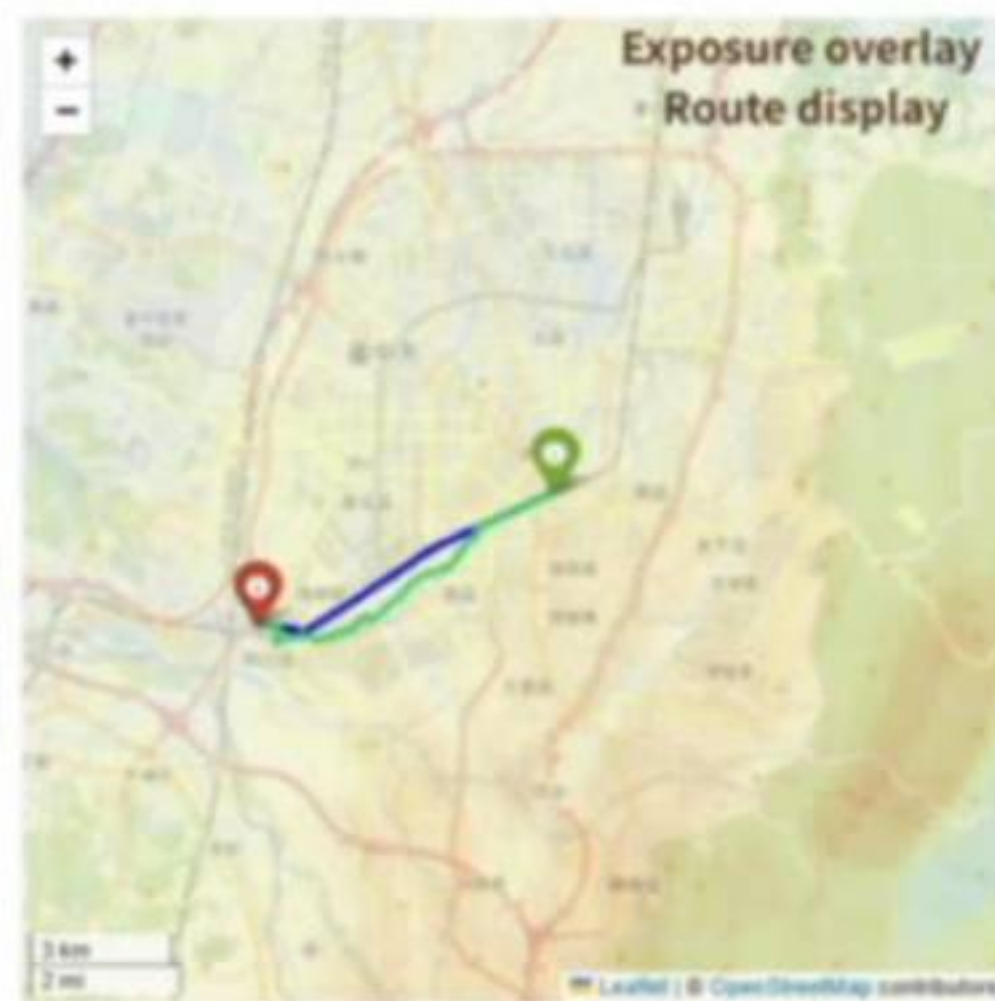
操作說明

Overlay

- ☐ None
- ☒ PM_{2.5}
- ☐ NO₂
- ☐ Temp.

Shortest Path

Comfort Path



2025 GRAND CHALLENGE

臺灣SDGs議題英文海報競賽



Geo-AI Mapping the Way to Better Air



國立成功大學
National Cheng Kung University

beer.c
健康教育推動辦公室

beer.c







Topic

Automatic Navigation:
The Path with the Lowest Exposure to
Air Pollution

Target Objects:

- PM_{2.5} (particulate matter)
- NO₂ (gaseous pollutants)
- Temperature

Select point on an interactive
map and present results

Suitable for:

- 1 Sports enthusiasts (Walking, jogging)
- 2 Commuters (Walking, biking, or riding motor)
- 3 Vulnerable groups (Elderly, children, pregnant women, or chronic disease)

Choose the shortest or
least exposed path

Taiwan SDGs Issue Poster English Competition

臺灣
SDGs
議題

英文海報

2021
SDGs
Challenge

↑ 避障器具
Evacuation Stairs