

**GLOBE MALTA AIR QUALITY  
CAMPAIGN (NOV – DEC 2024)**



# Introduction to Air Quality

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Air quality refers to how clean or polluted the air is.

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Poor air quality affects human health and ecosystems.

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Major pollutants include nitrogen dioxide (NO<sub>2</sub>), from vehicles, industries, and fuel combustion.

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The Air Quality Index (AQI) measures pollution levels (AQI > 100 is unhealthy).

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# Research Questions

What are the levels of nitrogen dioxide in front the school?

How do current NO<sub>2</sub> levels compare to past measurements?

What actions can improve local air quality?



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# Research Methods

Conducted by students and teachers as part of the GLOBE campaign.

Installed a NO<sub>2</sub> diffusion near the main road for 4 weeks.

Collected daily traffic data (types of vehicles, volume).

Recorded weather conditions; air temperature, humidity, rainfall, cloud cover.







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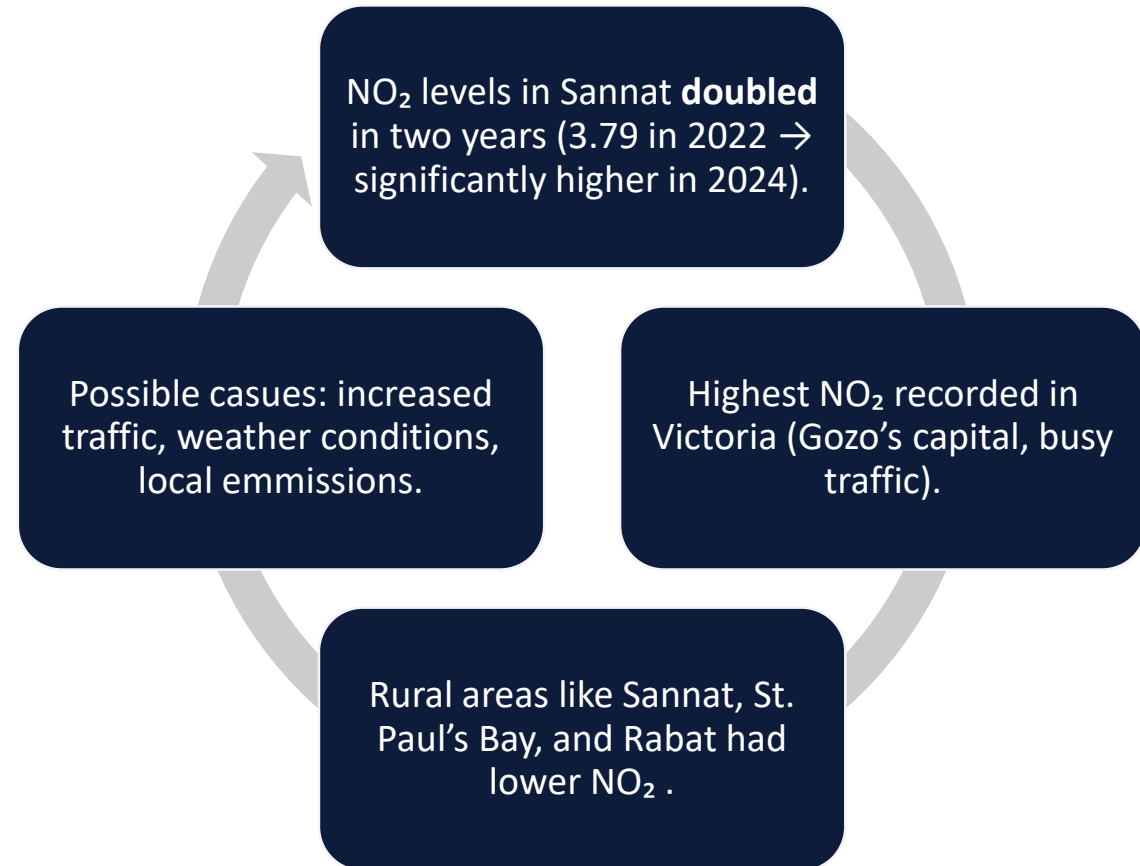
## Data Collection & Analysis

NO<sub>2</sub> tube samples sent to PASSAM Laboratories in Switzerland.

Traffic data analyzed and recorded in Excel.

Air Temperature and Humidity data uploaded to the GLOBE website.

# Results - NO<sub>2</sub> Levels





# Results: Traffic Survey



Most common vehicle observed: **private cars.**



Suggests heavy reliance on personal transport.



Indicates potential sources of rising pollution near the school.



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## Recommendations – School Actions

- **Educating & Awareness:** School campaigns, curriculum integration, student projects.
- **Sustainable Transport:** Walk-to-school initiatives, reducing idling vehicles, carpooling.
- **Green Initiatives:** Plant trees, school gardens, clear air zones.
- **Monitoring & Data Collection:** Regular NO<sub>2</sub> testing, trend analysis, school collaborations.
- **Community Engagement:** Work with parents, local authorities and environmental groups.

## **Conclusion & Future Actions**

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Rising NO<sub>2</sub> levels in Sannat raise concerns about air pollution trends.

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School plays a key role in awareness and proactive initiatives.

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Continued monitoring and policy advocacy needed to maintain clean air.

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Collaboration with other schools and organisations for a broader impact.

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Thank you! 😊

