## Pollution Exposure in Île-de-France Educational Institutions

Introduction

**Graphs and analysis** 

Paris Secondary School Safety Zones by Pollution Levels

Paris Secondary School Safety Zones by Pollution Le

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Conclusion

Air pollution in Paris

Some areas still pose

Implications:

planning.

Clean air is crucial for

school safety and city

(NO<sub>2</sub>, PM10), but PM2.5

Objective:

Study air pollution (NO₂, PM10, PM2.5) in Paris schools (2012– 2017) by type and location.

## Why:

To understand risks to children and guide safer school placement.

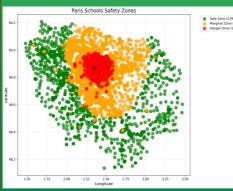
## Goals:

- •Compare pollution by school and area
- Track trends over time
- •Map safe vs. risky zones
- •Find pollutant correlations

## Method:

Analyzed school pollution data using charts and maps.

This map shows 2017 PM2.5 and  $NO_2$  levels, with 75015 and 75016 safes for schools, and 75004 and 75020 exceeding health limits.

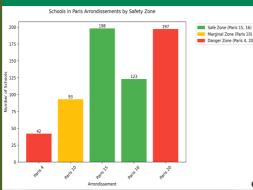


This chart ranks five Paris districts for school sites: 75015 and 75016 lead; 75004 and 75020 lag; 75010 shows potential

Recommendations:
•Build in low-pollution

•Add filtration to high-risk schools

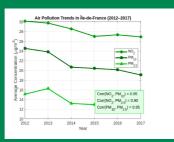
•Link building permits to air quality data

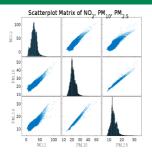


2017 pollution data shows 75015 and 75016 as safest for schools; 75004 and 75020 exceed health limits, guiding safer planning.



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NO<sub>2</sub> and PM<sub>10</sub> declined steadily, while PM<sub>2.5</sub> fluctuated before stabilizing. Strong correlations (0.90–0.95) point to traffic as a major source. Reducing NO<sub>2</sub> could improve overall air quality. Central Paris showed the highest, but decreasing pollution



Data source : data.gouv.fr