

PROJECT TEAM 1

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Project context

- The goal is to visualize the effects of low and zero emission zones regarding air pollution
- To determine whether the regulations set in place will be met

Stakeholder

The Minister is responsible for the following
(Ministerie van Algemene Zaken, 2025) :

- Coordinating the climate policies
- Monitoring the emissions

***Minister of climate and Green
growth***



Critical succes factors

- 1** | Air pollution rates NO₂, PM_{2.5}, PM₁₀, ($\mu\text{g}/\text{m}^3$) per province
- 2** | Effectiveness low emission zones
- 3** | Predict emissions per region in 2030 scenarios of low emission zones

Luchtmeetnet API

- Showcases hourly updated data from measuringstations and regions
- Luchtmeetnet API
- Feature engineering
- Dictionary
- Stored in Pandas Dataframe

1

| Goal of this code

2

| Explanation

3

| Link to CSF

NDW location file

- Show the air quality rates before and after the implementation of these low emission zones
- Retrieve XML file from opendata.ndw
- Data cleaning
- Store results in different files

1

| Goal of this code

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Historic pollutant data

- Predict air quality levels
- Retrieve csv files from RIVM luchtmeetdataset
- Feature engineering
- Results stored in a csv file

1

| Goal of this code

2

| Explanation

3

| Link to CSF

**Running
application
and
implemented
components**



**Thank you
very much!**