

PROCESS REPORT

Coronavirus and Air Pollution

Group ADS43-D

Agnihotri, Lokesh L.K.

Amelsfoort, Britt B.S

Baciu, Alina A.

Haruna, Faith F.I.

Nowak Janssen Daniel D

Introduction

Our group consists of five members: Alina Baciú, Haruna Faith, Nowak Jansen Daniel, Agnihotri Lokesh and Amelsfoort Britt.

The purpose of this project is to find the impact of coronavirus on the environment of Italy and hence decline in deaths due to air pollution. We aim to visualize the contrast between deaths due to coronavirus and possible lives that were saved due to better environmental situations in Italy post coronavirus.

The following document shows a series of actions which were carried out in each iteration in order to achieve our final results together along with the decisions made during that period.

Iteration 1

Deliverables:

- Research Plan
- Research Results
- Presentation
- Peer Review 1
- Plan for Iteration 2

Actions taken:

Based on the research we did; we took the following actions in this iteration:

Research Plan:

- We defined our main question and sub questions related to the subject
- We defined the DOT framework methods that will be used to conduct the research

Research Result document:

- We explained our Exploration phase
- We answered our sub-questions using nice visualizations and interesting insights
- We explained what is the correlation between Covid-19 and air pollution
- We answered our Main question

Plan for Iteration 2:

- Deliver research poster
- Develop and finish our research document

Research methods :

We used DOT framework methods in order to conduct our research , some of the methods we used were:

Library

Available product analysis: we will try to find existing solutions that may solve our questions.
Literature Study: We will select which materials to read in detail in order to get more knowledge about coronavirus.

Showroom

Peer Review: We will regularly meet with the teachers for reviews for more understanding of either to continue track or to change plans.

Lab

Data analytics: We will gain insights by measuring and analysing the data collected by people and various reliable sources.

Received Feedback:

“After reviewing our research results documents and presentation, our mentors specified that our project work for the first iteration deserves a Satisfactory assessment. We managed to show nice graphs and interesting insights but our story is not yet unified. Although we have achieved to raise the concern for this topic, there are still many angles that we need to focus on in order to fulfil our story.”

Reflection on this iteration:

In order to apply the feedback received we decided to focus on adding more visualizations in order to show other angles of the project. We focused on the following aspects:

- Poverty level of countries in relation to total deaths due to Corona
- International travel restrictions all around the world in June 2020
- Impact of Coronavirus on human lives
- What is my risk of premature death from particulate matter?
- Total tests for covid-19 per 1000 people per capita

Iteration 2

Deliverables:

- Research poster
- Peer Review 2
- Final Report
- 3-page summary of the final report

- Final Presentation
- Process Report
- Datasets used

Actions taken:

- We first delivered a draft of our research poster that described our process. After that we improved it based on the feedback received from our mentors
- We added more angles to our story line and made it more insightful for the reader.
- We expanded our area of research to make our data story more impactful and show the grim situation to the world.

Research methods :

We used DOT framework methods in order to conduct our research , some of the methods we used were:

Library

Available product analysis: we will try to find existing solutions that may solve our questions.
Literature Study: We will select which materials to read in detail in order to get more knowledge about coronavirus.

Showroom

Peer Review: We will regularly meet with the teachers for reviews for more understanding of either to continue track or to change plans.

Lab

Data analytics: We will gain insights by measuring and analysing the data collected by people and various reliable sources.

Received Feedback: Mentors advised us to see more impacts of Air pollution and covid-19 in general in order to expand the research. And focus to unite the project as one data story.

The teachers also wanted us to not focus on air pollution anymore, but on more angles (John), and that we look more at societies and not just Italy. We also have to explain why we chose the datasets and why we are displaying them in the way we do.