# Introduction

COVID-19 has had an influence on the number of passenger flights as well as cargo flights. After the pandemic, the number of flights did not return to its initial numbers (2). This is because a lot of people discovered transport alternatives during the COVID-19 pandemic (1). The goal of this research is to show the impact of COVID-19 on the number of flights. A time frame is used from 2019 till 2023. In this way it can be analyzed if the changes caused by COVID-19 continue in the upcoming years.

The research question this research will answer is:

***What is the effect of COVID19 on flight behaviour on Dutch airports?***

To answer this question several plots are made in python, in this way an overview can be created of the number of flights in relation to the number of COVID-19 infections. To create these plots, two different datasets are used. The first dataset is about the number of flights on five Dutch airports, respectively Schiphol, Rotterdam The Hague, Eindhoven Airport, Maastricht Aachen, and Groningen (3). The second dataset is about the number of COVID-19 infections in the Netherlands.

1. <https://www.kimnet.nl/binaries/kimnet/documenten/papers/2022/11/09/vliegen-na-corona-de-vliegintentie-en-houding-ten-opzichte-van-de-luchtvaart-van-nederlanders-na-twee-jaar-covid-19/Zijlstra+en+Uitbeijerse+%282022%29+Vliegen+na+corona+-+CVS-paper_def.pdf>
2. <file:///C:/Users/charl/Downloads/Graduation_thesis_Sicong_Ouyang.pdf>
3. Dataset flights
4. Dataset COVID-19 infections