Dear Prof. Fengler,

we have decided to model the time series of the flow rate of the river Rhine in Basel with the methods we learned in class.

The dataset we use can be found [here](https://data.bs.ch/explore/dataset/100089/table/?flg=de&sort=timestamp&dataChart=).

Business Case   
The river Rhine, which rises from the Alps and flows into the northern sea, is used as an energy source by many of its neighboring countries. The output of the installed hydroelectric power stations is hard to predict and depends on many factors, such as the flow rate. An accurate prediction allows power suppliers to better plan their energy mix and minimize their costs as well as the use of fossil fuel burning power plants.

We will focus on modelling and decomposing the time series of flow rate of the river Rhine in Basel with the methods we have learned in class:

to achieve: which in turn means we cannot extract any more information (with the methods we learned in class).