# Information Visualization

# CHECKPOINT I: Visualization Proposal

G21

**1. Domain**

ERASMUS is a European Union program which supports students to study at a school abroad for a certain time. Students can pick their destination from a list of partner schools offered by their school.

This project aims to visualise the flow of international students within the ERASMUS programme. More precisely it explores which destination students of different countries and degrees choose as their target destination.

Our visualisation can help future ERASMUS students to decide which country is the best for them by showing which countries are popular among students of similar degrees as well as which students decide to visit such countries. It also can be useful for schools, countries and European citizens to visualize how ERASMUS programme is utilized. For example, schools can see popular destination and can try to conclude new agreements with schools from this destination.

**2. Dataset**

https://data.europa.eu/euodp/en/data/dataset/erasmus-mobility-statistics-2013-14

Our project is based on the dataset containing information about students involved in the ERASMUS university exchange programme. Each row of the dataset describes a student on exchange. Dataset provided by the EU Open Data Portal is available for years 2009 – 2014 (accessible on the URL listed above). It consists of 272 497 records.

The dataset contains information about the sending and receiving institution, the area of studies, sending and receiving country code, information about the degree, as well as participant's gender, language and identification whether the participant requires any special needs. City of the sending institution is not available however should be obtainable from another dataset.

The dataset contains missing values as well as encoding problems which need to be sorted out in the data preparation phase.

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1. The work will try to answer basic questions about the reasons why students pick their final ERASMUS destination. It will try to discover if there exist any patterns in selected areas (for example gender).
2. Which countries are popular for being an Erasmus destination? Is there any difference between bachelor and master’s degrees?
3. What is the flow of students doing Erasmus between countries?
4. Does distance from the home country to the Erasmus country matter?
5. How does difference in cost of living in home and target country effect the selection?
6. Do students prefer countries with a language from the same language family as the language from their home country?
7. Does gender effects the choice?

**4. Data Sample**

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