### CASE 1



### **Available Data**

#### **Engineering Positioning Test**

Non-mandatory and non-binding test before the start of the academic year. Focusses on math (abstract mathematical bachelor programs and best predictor for later study success).

Tries to inform student on their position with respect to other participants and with respect to expected mathematical skills for engineering science bachelor.

#### **Result on positioning test**



#### Histogram Positioning Test July 2014

#### **Examination results**

- Examination results per student
- January/June(/September)
- Over 5 years of data
- Records per student (Allows for finding trends through bachelor years)

### How we present the data to students

#### Positioning test and subscription







# Students Bachelor Ir KU Leuven - generation students 2014-2015

### January examination first year



## Students Bachelor Ir KU Leuven - generation students 2009-2010

### Assignment

Currently, students access these diagrams online for self-reflection. This can trigger a student to make an appointment with a student councillor. Student councillors can use the same diagrams to complement their advice and to position the student. This meeting is a discussion between the counsellor and the student: the student explains their situation, the counsellor attempts to see if the student understands what went wrong, and then uses the data available (the diagrams, and the student personal results) to provide feedback and study guidance, but most importantly help the student make the proper decisions regarding their student career (change major, take on less ECTS...). The goal of this assignment is to explore ways of supporting these type of meetings between first year students and counsellors through data visualisation of learning analytics data (i.e. learning dashboards). An important note: try to look at the issue from both student and counsellor perspective.

Here are a couple of questions to help you get started:

- What setup do you imagine would work well in such a meeting (screens, devices)?
- Taking into account both personas, in what other ways can the information we have support a meeting between student and counsellor.
  - How should the data be visualised?
  - How should student and counsellor interact with such visualisation? (does someone "drive" the application, while the other spectates?)
  - Should the approach be personalised for the student, and if so, how?