# Information Visualization

# CHECKPOINT IV: First Prototype

G08-A

**1. Layout**

Description of the layout of your interface. Include at least one image.

Our layout will be presented by hierarchy. For starters, we will take a look at each public or private university which can show us which ones have more or less unemployment. After selecting one of them on the Bertin Matrix, we can see on the right a Scatter Plot where each dot represents a course and we can understand where the unemployment will be higher in a course or area in comparison with the entry grade.

Then we will select one or more course and analyze it in a Line Chart under the Scatter Plot. We can compare the unemployment between these multiple courses and also its evolution over the years.

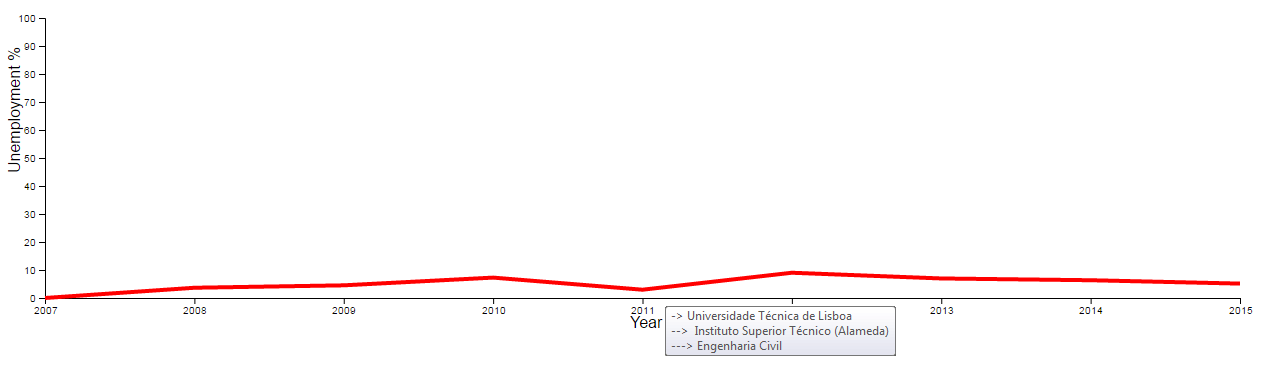
**2. Implemented Idioms**

Description of:

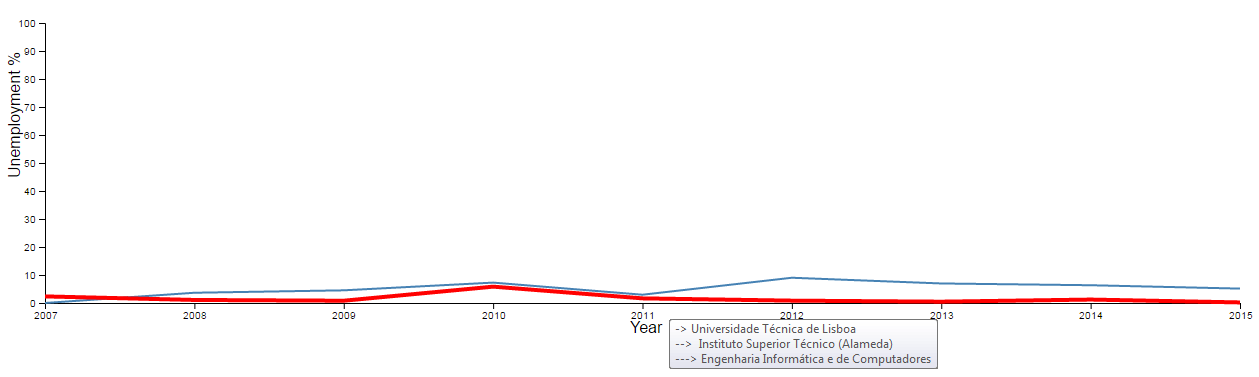
* The idiom(s) you have already implemented (with images);
* The interactivity supported by such idioms;
* The ways in which the different idioms are connected/linked.

**Line Chart**

The following line chart was implemented so that we could answer the question “Is Civil Engineering in IST having less unemployed graduates in last year’s?"



After selecting another course, with the following line chart we could answer the question “Does Civil Engineering graduates in IST have more unemployment, in 2015, than Computer Science? And in 2007?”. With every course, the user can hover the mouse over the line to see which course is represented, with the corresponding university.



**Scatter Plot**

The following scatter plot was implemented so that we could answer the question “Where the unemployment will be higher in Serviço Social in ISCTE? In a course with 13 minimum entry grade or one with 16?”. In this chart, each dot represents a course, the y-axis represents the percentage of unemployment and the x-axis the course minimum entry grade. With every course in this chart, the user can hover the mouse over a dot to see which course is represented, with the corresponding university and entry grade.

