# Tableau

## Tableau 1

### Overview

Description: This section aims at introducing the paradigm of Tableau and motivating the remaining training session. By the end of this section, the trainees should have a clear visibility on what is a final Tableau dashboard (once published), be able to connect to a simple data source and understand the basic functionalities of the canvas.

### Basic Charting

Description: This session aims at explaining all the basic functionalities of Tableau that can be used to create visualizations of simple and medium complexity. Crucial concepts of charting, data aggregation and visualisation will be explained in increasing order of complexity. A hands-on approach will be taken whereby the trainees will solve several exercises.

- Charting with Data source Fields:

    - Different charts
    - Different Data types (dates, scatter plots with numerical data)
    - Aggregations
    - Level of detail
    - +2 dimensions (add dimension to color etc)
    - Marks

- Formating

- Filters

- Calculated Fields

- Aggregated Fields

- Parameters

- Hierarchies, Groups and Sets

- Quick Table Calculations

- Table of indicators with Search box

- Advanced Filters: Top/Condition, Context & Tableau order of operations

- Miscelaneous: Trend lines, Ref lines, Dual Axis

## Advanced techniques

Description: By the end of this section, the trainee will be able to master most of the advanced Tableau capabilities, as well to integrate Tableau as a Visualization tool within a BI ecosystem.

*Advanced Tableau*
- *Hide and show charts*
- *Change dimension (build dashboard)*
- *Make elements non clickable (blank sheets)*
- *Gant marks to show objectives*
- *Search box*
- *Normalized stacked bar*
- *Highlight yourself with a parameter*
- *Field names on top*
- *Table of indicators (bars, symbols, text)*
- *Show different indicators based on size*
- *Donut chart*
- *Dual pie chart*
- *Lazy table*
- *Moving Average*
- *Ordering (advanced)*
- *Hide/Show with "Exclude All"*

# Tableau 2

## Dashboarding

*My first dashboard*
Description: in this section, the trainee will be able to implement all the elements of a dashboard: sheets, interactions between sheets (quick filters + actions), filters to the dashboard, images, blanks, text, containers, buttons and Extensions

## Business Case

Description: by the end of this section, the trainee will be able to develop a dashboarding solution on top of a given dataset, answering a set of business questions proposed by the trainees.