

There are no right or wrong answers, so please approach the tasks in a way that you feel best demonstrates your skills and thought process. We are more interested in how you approach problems, handle data, and confront issues than the results themselves.

All examples are based on the Solvency II data model (also attached). You are allowed to use any methods or tools you see fit for the purpose. It is also up to you how you would like to present the results of the exercises.

Please prepare Exercise 3 as well as either Exercise 1 or Exercise 2. During the presentation, you will have an opportunity to explain your approach, the decisions you made, and discuss any challenges you encountered.

## Exercise 1 – Descriptive Statistics

In the folder “001 – Descriptive Statistics” you will find an anonymized list of assets of an insurance company. It is based on the EIOPA Template S.06.02.01.

**Take a look at the data set and create some analysis on potential interesting observations from your point of view.** For example:

- What can you tell about this company?
- Which variables have some explaining power?
- Which variables can be safely discarded?

## Exercise 2 – Time Series

In the folder “002 – Time Series” you will likewise find an anonymized dataset. This set includes data from five insurance companies over a few reporting periods. The data follow the definitions set by EIOPA in the S.02.01 template.

**What can you tell about the development of particular balance sheet positions of these companies?** Do you see any striking characteristics of the data? How would you ensure that the observable issues are consistently identified or altogether prevented?

## Exercise 3 – Dashboard design

In the folder “003 – Visualization”, you will find a randomized extract from an ESRS reporting dimension along with the associated structure. Based on the structure, you can infer the associated metrics. The data is provided by companies within the group and will be consumed by the relevant team at the holding level to create group-wide reports and analyses.

**Please design a dashboard mock-up which would effectively visualize key insights from this data.**

You can consider the following pointers:

- Which visualization methods can be useful for communication?
- Who is the target group and what will they be interested in?
- Are there any KPIs which need special handling?
- What level of interactivity would you recommend?
- How would you organize the layout?
- What would an acceptable tradeoff between creativity and clarity be?

Feel free to be creative and interpret the data in a way that best showcases your analytical and design skills.

There is no strict format for the deliverables; you present your ideas in any format that you believe is best (e.g., PDF, PowerPoint, image files).