Background

The CEO of Edison Cars AG was very satisfied with your process model. Therefore, he would like to extend the process mining activities to other recycling processes to further promote sustainability. At this point, he engages you again to better understand the link between process mining and circular economy. The CEO has already asked ChatGPT but would like more information on this. Therefore, he re-engages your inhouse consulting team for two assignments. First, he aims to better understand the link between process mining and circular economy in general. For this, the CEO asks your team to summarize information through a multivocal literature review (grey and academic literature) about the link between process mining and circular economy. Here, the CEO attaches importance to correct findings, which are ideally scientifically founded. Second, the CEO wants a process model in BPM notation for another recycling process in the Edison Cars AG. It is important to him that all three dimensions of sustainability are considered.

Input

For this task, you will be provided with the following:

- Further information for process mining and process discovery. These are possible approaches that have different advantages and disadvantages. In particular, the information on BPM Modeling is more extensive than in the lecture. However, only the constructs presented in the lecture are required. Of course, you can also use other approaches and resources:
    - BPM Modeling (More detailed than in the lecture): process.st
- Possible websites to create the process model: Camunda, Signavio
- Possible search engines for academic literature: Scopus, Science Direct, Web of Science, EBSCOhost, AIS eLibrary

Submission

One PowerPoint presentation (max. 10 Slides) must be emailed to s3g@fim-rc.de by 09:00 AM on 21.06.2023 including:

- Slide(s) about your multivocal literature review **approach**: You should be able to present your approach in the next lecture.
- Slide(s) about your **result** of the multivocal literature review: A list of correct citations of the sources you have considered. A maximum of 10 sources should be cited.
- Slide(s) about the **link** between **process mining** and **circular economy**.
- Slide(s) about your **specific process model** with tasks, gateways, descriptions, and probabilities. The process model should be about another recycling process within the Edison Cars AG.

Keep in mind

The following aspects are important for the assessment of your submission:

- The process model should be similar in scope to the model from week 1.
- Every element of the BPM notation, which were mentioned in the lecture of week 1 must be used in your new process model (i.e., task, data object, events, and gateways as well as one pool and two lanes).
- It's enough to have your process model only on a PowerPoint slide.
- The process you choose should be in the recycling context of the Edison Cars AG (e.g., recycling of electronic components, electro motor, wheels, etc.).

- Max. 10 slides should be enough to present your tasks and max. 10 sources (result of your multivocal literature review) should be cited.
- Explanation of the approach should be understandable.