Interview guideline TD

1. Introduction
- Greeting
- Thanks for time
- explain goal of interview (analysis for areas of improvement, quantifying challenges and make suggestions for improvements)

2. Questions on participant background

- What is your role in the company/project?

- Which work group are you associated with?

- Which disciplines do you cooperate with ?

- How many years of work experience do you have
    - In production systems engineering?
    - 0-2
    - 3-5
    - 5-10
    - more than 10
    - In your current position?

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3. Experience of participant (in scope of data exchange in PSE)

- Think of a typical project you were involved in, name the project, give details

  - Name

  - Duration, state, size of the project.

  - Number of disciplines involved, names of the most important disciplines.

  - What is your role in this typical project?

  - What are the tasks of your role? (clarify of depth for survey)

  - In which phase of the project are you involved?

  - What is the output (e. g. models, attributes) of your work to data consumers?

  - What is the input (e. g. models, attributes) to your work from data providers and when do you get it?

  - What are possible issues with data you receive?

  - What are possible risks of low-quality (e. g. incomplete, contradictory) input data to your work?

  - What are options (e. g. attribute state) for improvement?

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4. Technical Debt

Have you heard about technical debt (TD) before?

At this point, introduce the concept of Technical debt to the domain experts, to get a common understanding of the concept and clarify the terminology.

Example:
You have a piece of functionality that you need to add to your system. You see two ways to do it, one is quick to do but is messy – you are sure that it will make further changes harder in the future. The other results in a cleaner design, but will take longer to put in place. -Martin Fowler

Definition:
"*Technical debt is a concept adapted from SE to communicate the additional future work, for shortcuts or non-standard solutions that are chosen in the present, and which seem to save cost and time for the moment.*
It is an analogy to financial debt, similarly if TD is not repaid or managed, it adds up according to its "interest rate", which can make it significantly harder to repay it."

[Discussion about TD in context of effects, causes and items]