Dear Shengreng,

Thank you very much. This is a great first step and already made me think hard about what we actually need here. Good work!

As you’ll find out, this is going to be an iterative process where we are changing your assignment as we go. Sorry for this… but I think this is also what makes it interesting! :)

Please see below for my feedback and suggestions for the next step. Most importantly I think we could use some guiding use cases. Please let me know if you think my ideas and suggestions make sense to you.

Best regards,

  Mathijs

Good work in also including a motivation. I’d add some further motivation coming from that we need to make more dynamic use of the resources, closer to the physical limits vs over-dimensioning as done in the past.

I then see two main use cases:

- research to be able to develop new data-based methods that allow this dynamnic use

- (later) use in operation

I think it would be interesting and very helpful to provide some concrete use-case examples. E.g.

- a researcher designing algorithms for dealing with congestion

- a researcher working on a method to make a grid reinforcement schedule

=> can you find these from the papers describing research that uses the models and data?

From these use cases we can then hopefully better argue:

- what data and models would they need?

- how would they look for this? (=> which meta-data is important to them?)

For example, about the models I think we need things like:

- if it is a method/model for finding a solution, to which problem? what are the input parameters, what is the output (decision variables)? what is the objective?

- if it is a simulator: also what is the input? what is the level of detail? is the output only about feasibility or also quality of the input? which criteria/measurements are available for a run?

About available guidance & documentation => could you indicate some level (none / basic / …)?

About matching data with models => also here I think the use cases could help to identify which parameters to include so possible matches can be identified automatically.

About the meta-data of the data:

- the date (range) for which this is available

- some indication of the size of a data set: e.g. number of data points?

Some detailed comments about the document itself:

* What is the aim of this section 2? To critically reflect on the collected/available data?
* I don’t completely understand the “directly use” part.

About the process/reporting:

Great work, this report. Thank you! If progress is mostly on the data collection, a bulleted list is sufficient. Also please indicate what is new next time. + list your questions / doubts and plans for the next two weeks.

Can you share a git repo with your code & metadata with us?