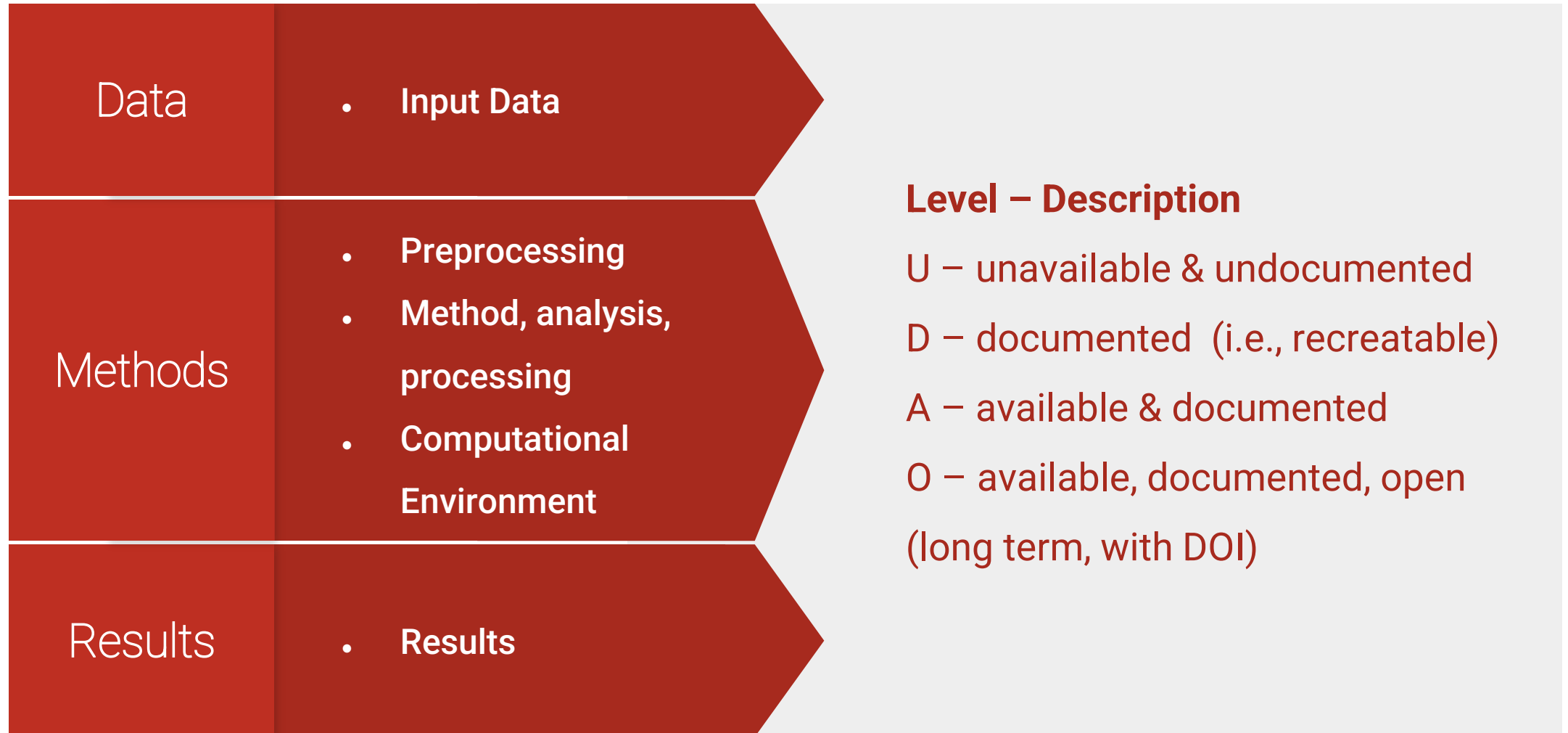


Assessing the reproducibility of published research

Data Mastery Challenge

Frank Ostermann

How to assess reproducibility?



Try a quick assessment ...

The first step is to be able to assess a paper's reproducibility quickly. You don't have to understand the paper deeply for doing this!

Look for

- Data availability: What data sources are used, and how could you retrieve or recreate them?
- Methods used: Which methods were used, and could you use the same libraries/software? Are all parameters documented?
- Result details: Are all results presented and properly explained?

... of this paper

As example, let's investigate this paper (or choose your own *if* you have a good contender – don't go searching now):

<https://drops.dagstuhl.de/opus/volltexte/2018/9343/pdf/LIPIcs-GISCIENCE-2018-15.pdf>

What do you think should be its scores?

Use the simple scoring system or input data, methods, and results of

- U: Unavailable and undocumented
- D: Documented
- A: Available
- O: Open and available

How to choose a challenge

1. Read the outline
2. Read the paper
3. Look at the other materials
4. Think about what you are most interested in / most motivated to do.
5. Sleep over it.
6. Reconsider your choice
7. Repeat steps 4 – 6 at least once, better twice, with adding steps 1-3 as necessary
8. **Write down your first, second, and third priority and send them to Frank until 16 December morning**