

\*Metrics Measuring The Reliability and perceptions of Indicators for interactions with scientific products

# Reliability and perception of open metrics

#### **METHODS**

- **User Surveys, Group Interviews, Experiments**
- Prototyping

### FINDINGS I - USAGE OF SOCIAL MEDIA PLATFORMS Users of different career stages:

- Select different platforms for communication
- Use different functions on the same platform

BEHAVIOUR ON SOCIAL MEDIA PLATFORMS IS COMPLEX AND DIVERSE WHICH PROHIBITS SIMPLE AGGREGATIONS

### **RECOMMENDATIONS I** Check for applicability:

- Select platforms depending on user behaviour and weight functions according to exhibited patterns
- Avoid simple one-dimensional metrics and check aggregations for their validity

#### FINDINGS II - USE AND CONCERNS TOWARDS METRICS **Alternative metrics are:**

- Not yet widely known among researchers
- Used with considerable caution

#### HELP RESEARCHERS BECOME METRIC-WISE

#### **RECOMMENDATIONS II**

To gain trust and acceptance by researchers:

- Provide context and greater openness
- Explain application areas, strengths and limitations

## FINDINGS III - TECHNICAL CHALLENGES

Occurrences on platforms difficult to identify:

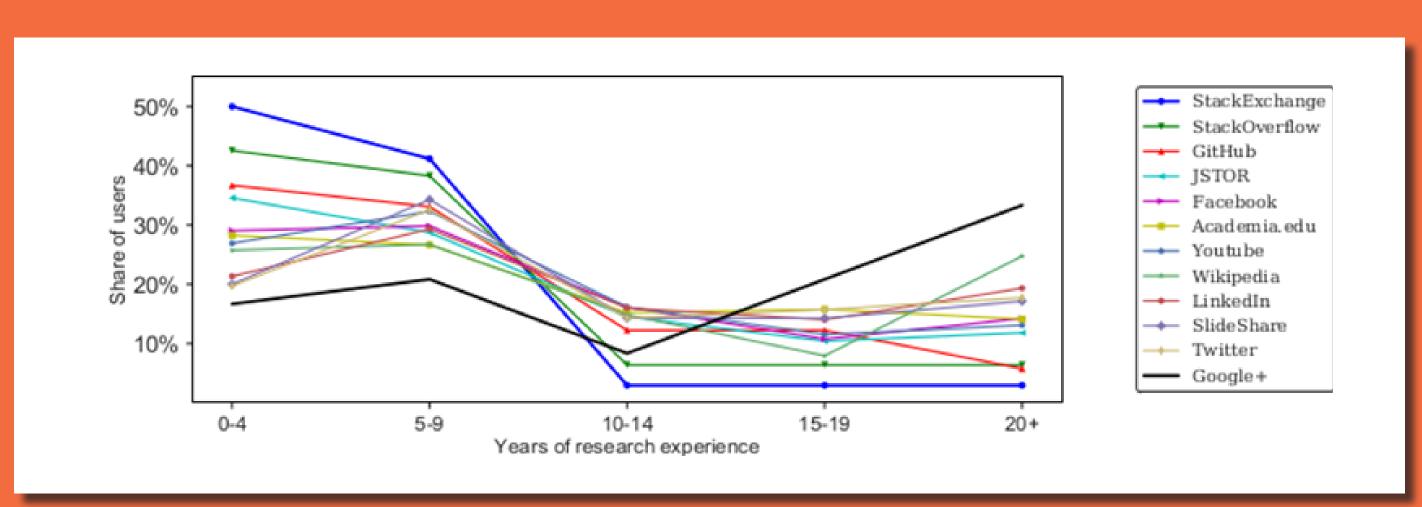
- Different habits of identifying papers
- Inconsistent or no use of identifier systems

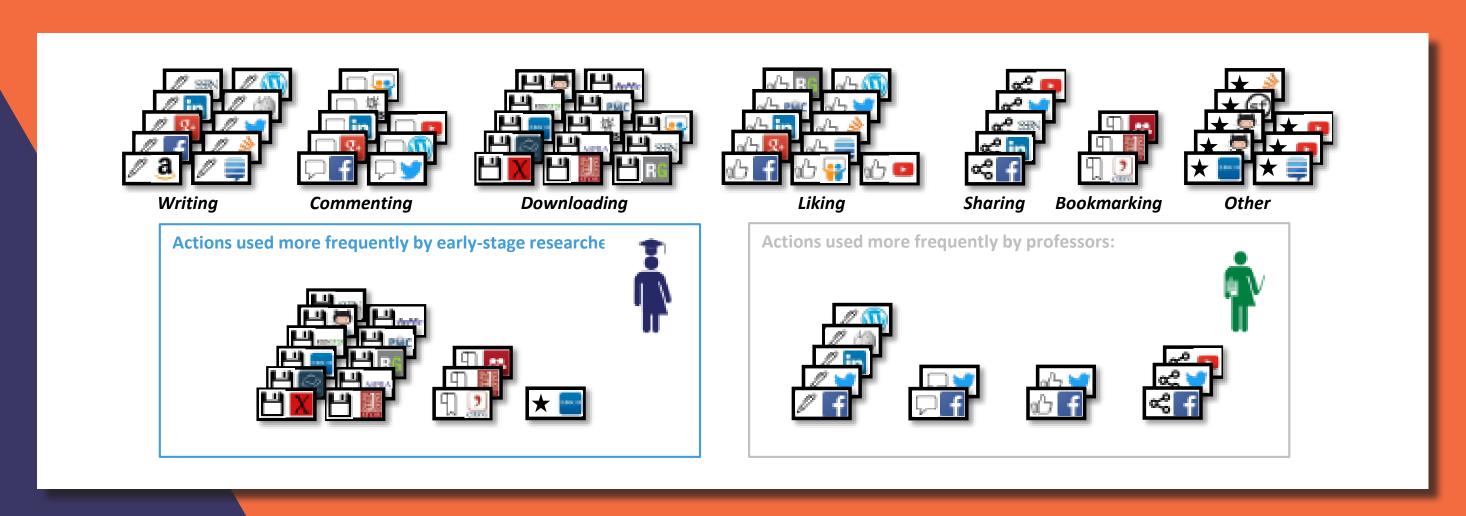
#### QUALITY VARIES WITH DATA SOURCES

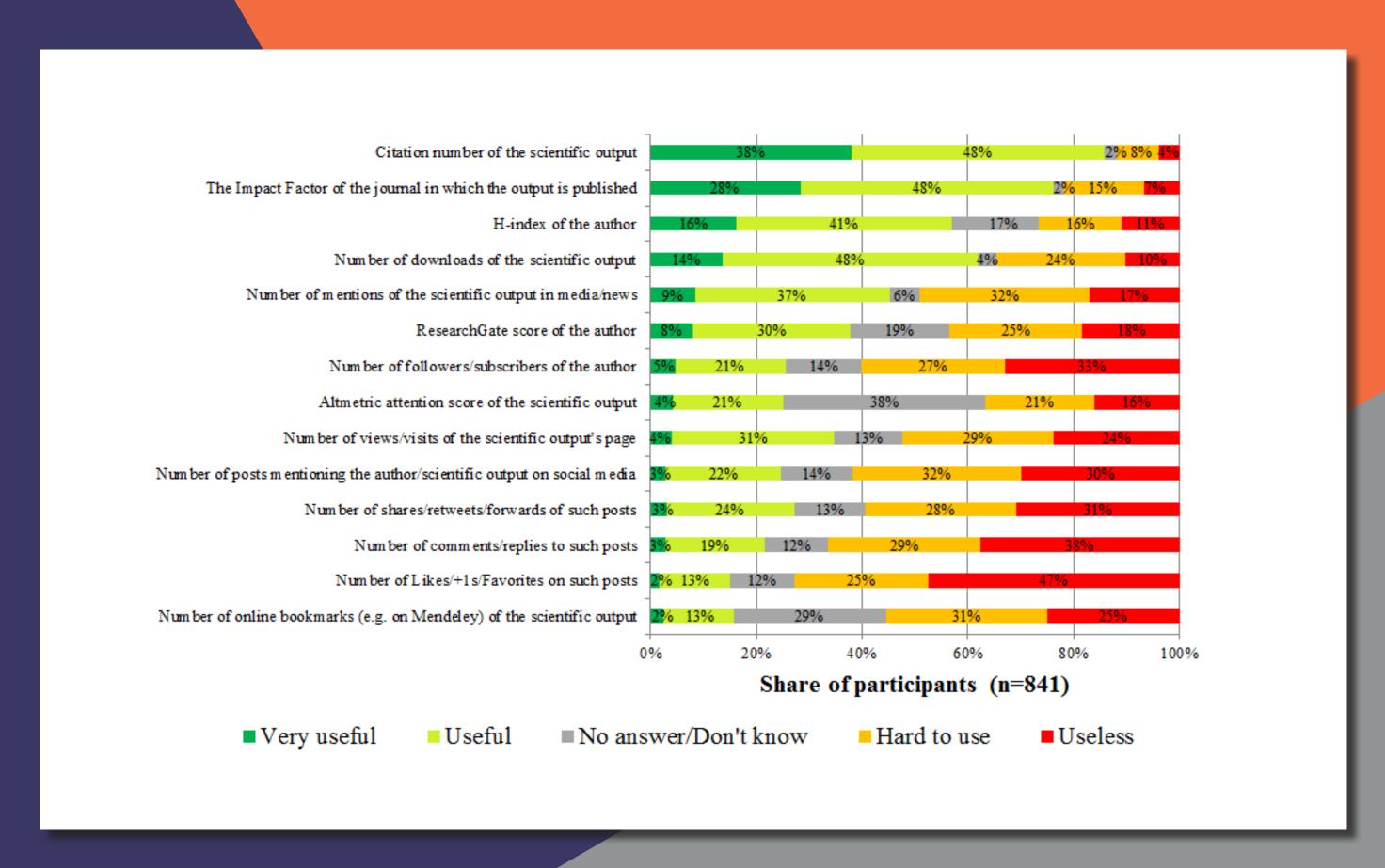
#### **RECOMMENDATIONS III**

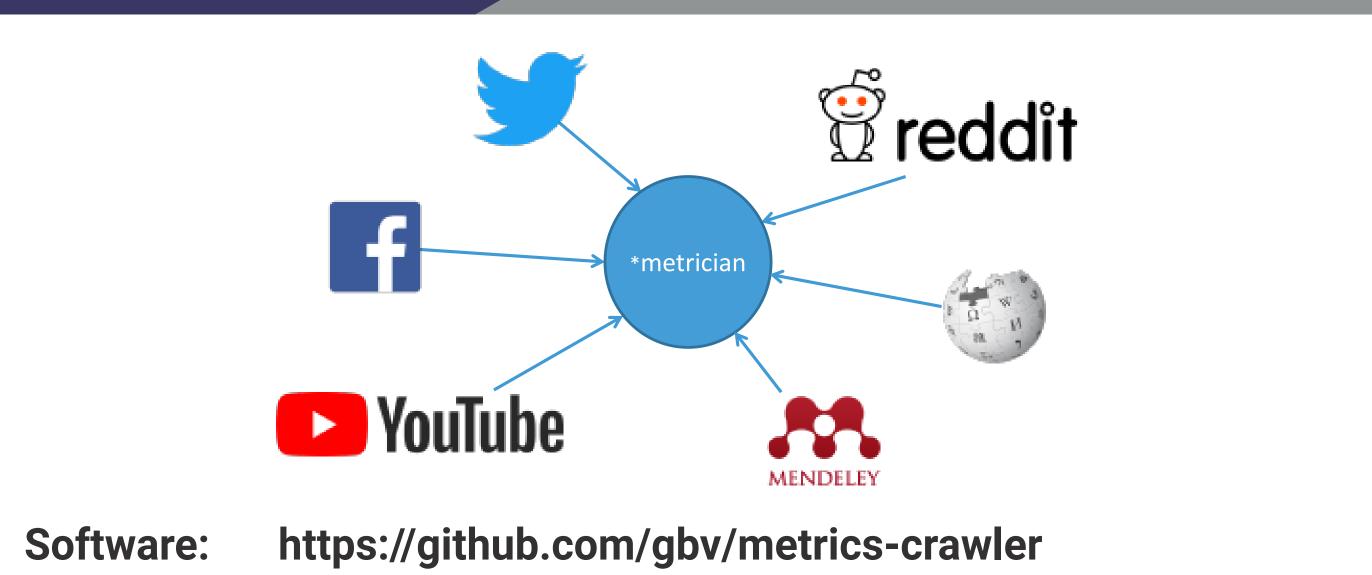
- Develop standardizations in altmetric "citations"
- Promote use of identifiers

#### Survey I Interviews Online Experiment Survey II How do metrics influence users Broad exploratory survey In-depth qualitative interviews Follow-up survey on use cases To which extent are 90 online Which use cases do online To which degree do the How do researchers use findings from the interviews platforms that are potential platforms solve for metrics during literature researchers? How do they apply to a wider sample of research? How do individual think about research metrics? researchers? metrics compare? 4 group interviews with 9 ~2000 respondents from 70 ~250 respondents from 38 researchers







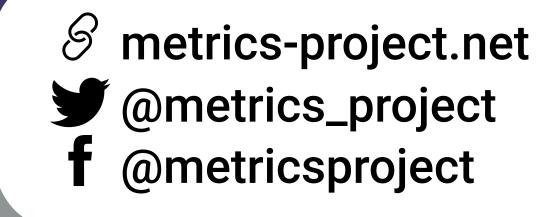


http://explore.metrics.gbv.de/ Web:

http://api.metrics.gbv.de/v1/work/doi?v={doi} API:

**Acknowledgements:** 

The following colleagues contributed to the work presented in this poster: Steffen Lemke, Maryam Mehrazar, Athanasios Mazarakis, Isabella Peters, Olga Zagovora, Katrin Weller, Julius Stropel, Andreas Krausz, Moritz Wiemann, Daniel Beucke











This work is part of the DFGfunded research project \*metrics (project number: 314727790)

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