Research data quality assurance at repositories indexed in re3data

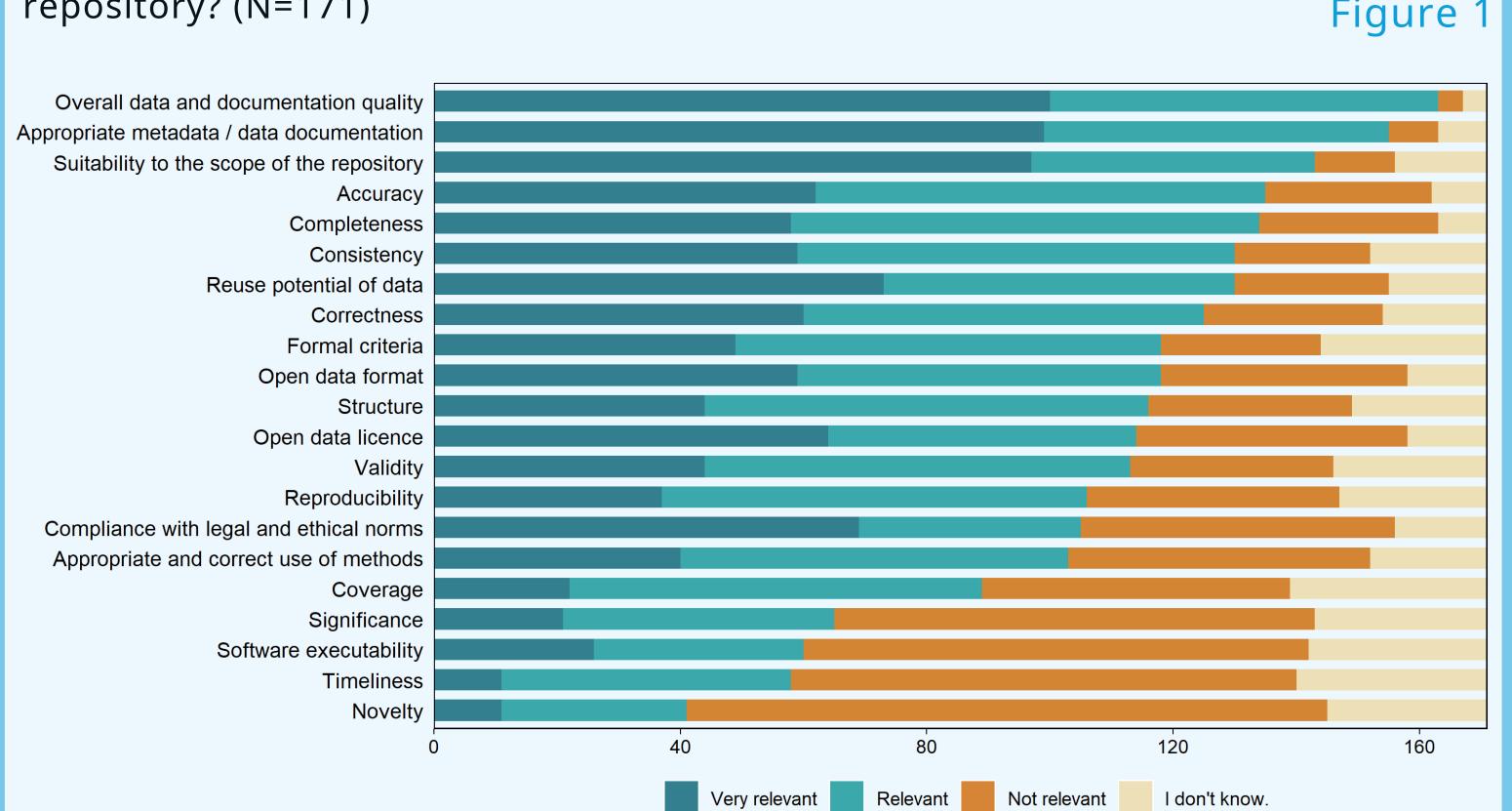
METHOD

Quality assurance is a central challenge when sharing research data, as it ensures that data are valid, reliable, and usable. The landscape of repositories and their essential contribution to research data sharing is well studied. In contrast, we know much less about repositories' roles in research data quality assurance, and their contributions remain largely invisible.

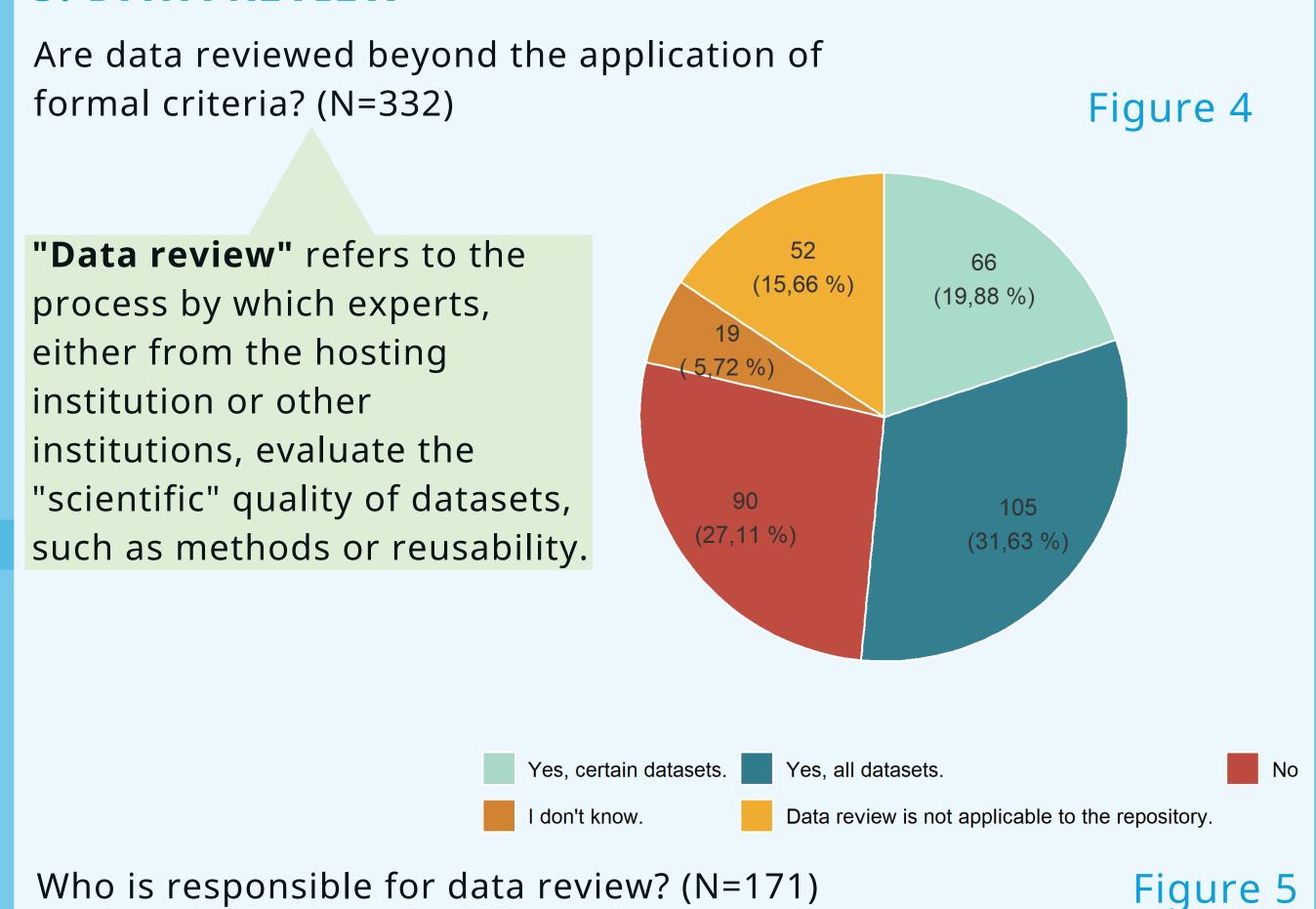
To address this issue, we conducted a survey among staff responsible for the data curation at repositories listed in re3data, an international registry of research data repositories. Of the 1897 repositories that were contacted, 332 completed the questionnaire.

1. QUALITY INDICATORS

How relevant are the following quality criteria for data review at your repository? (N=171)

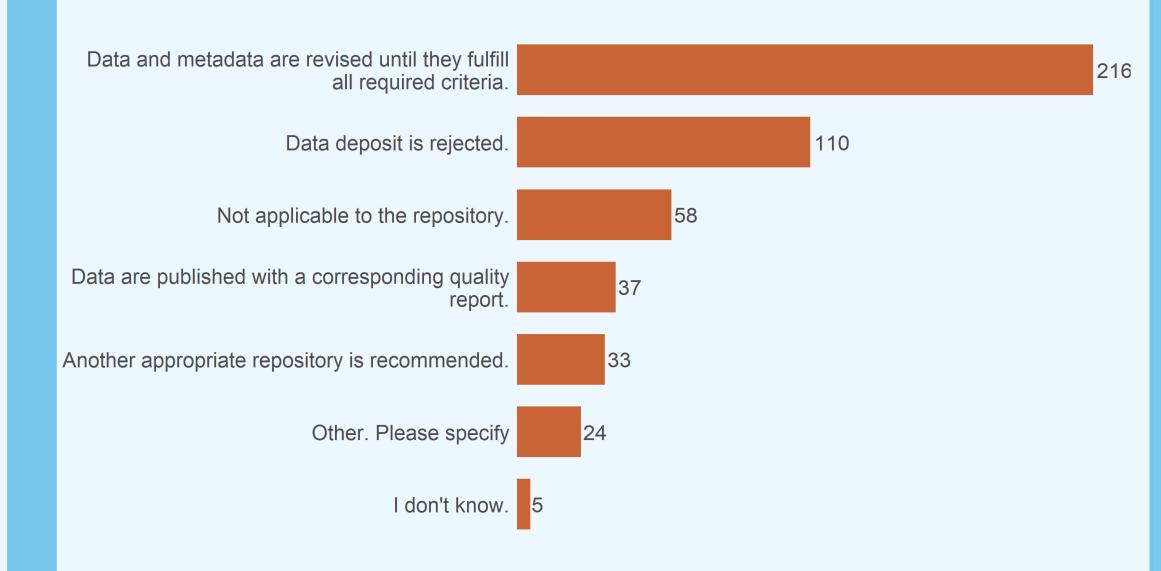


3. DATA REVIEW



4. DATA REJECTION

What are the consequences of submitting data of insufficient quality? (N=332) Figure 6



What (estimated) ratio of datasets were rejected by your repository in the last two years? (N=86) Figure 7

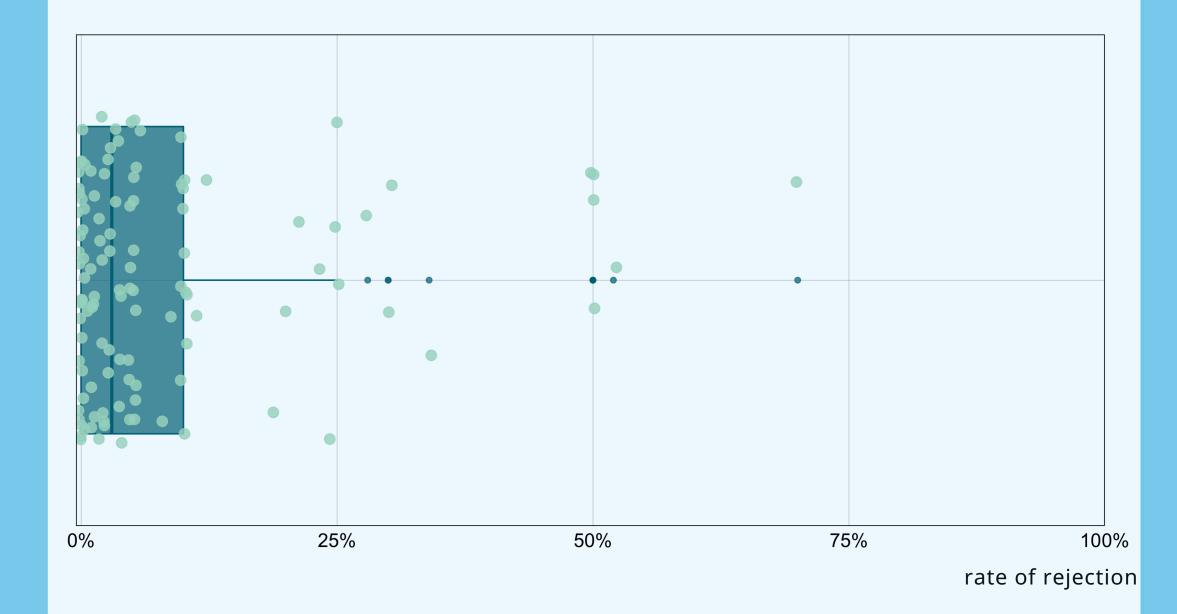
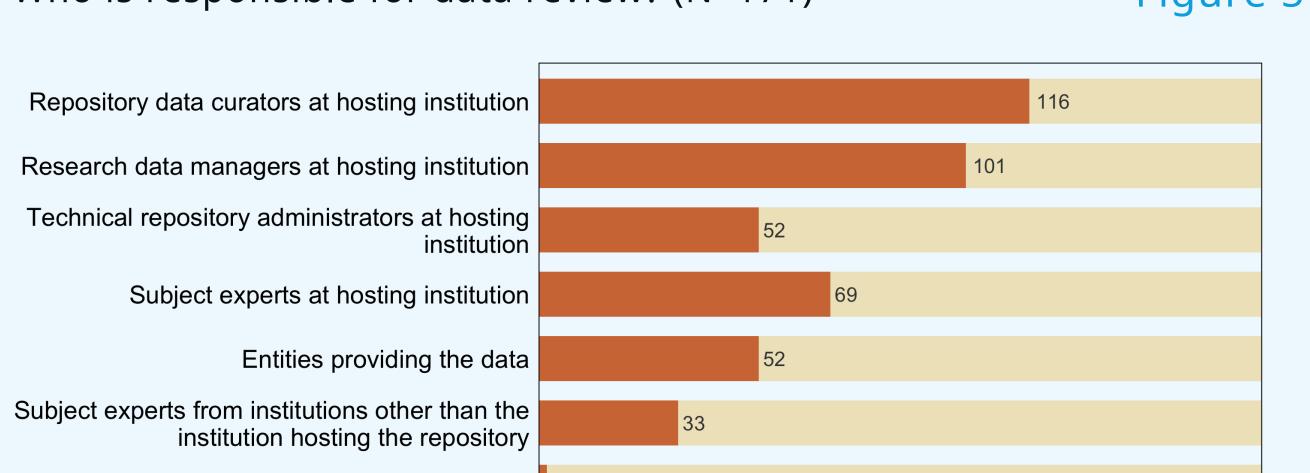


Figure 1



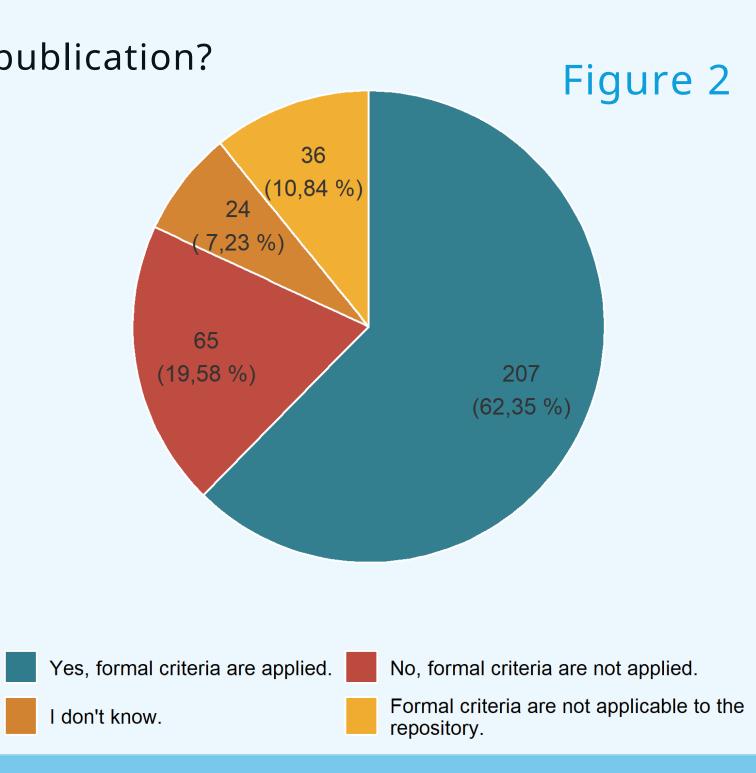
response yes no

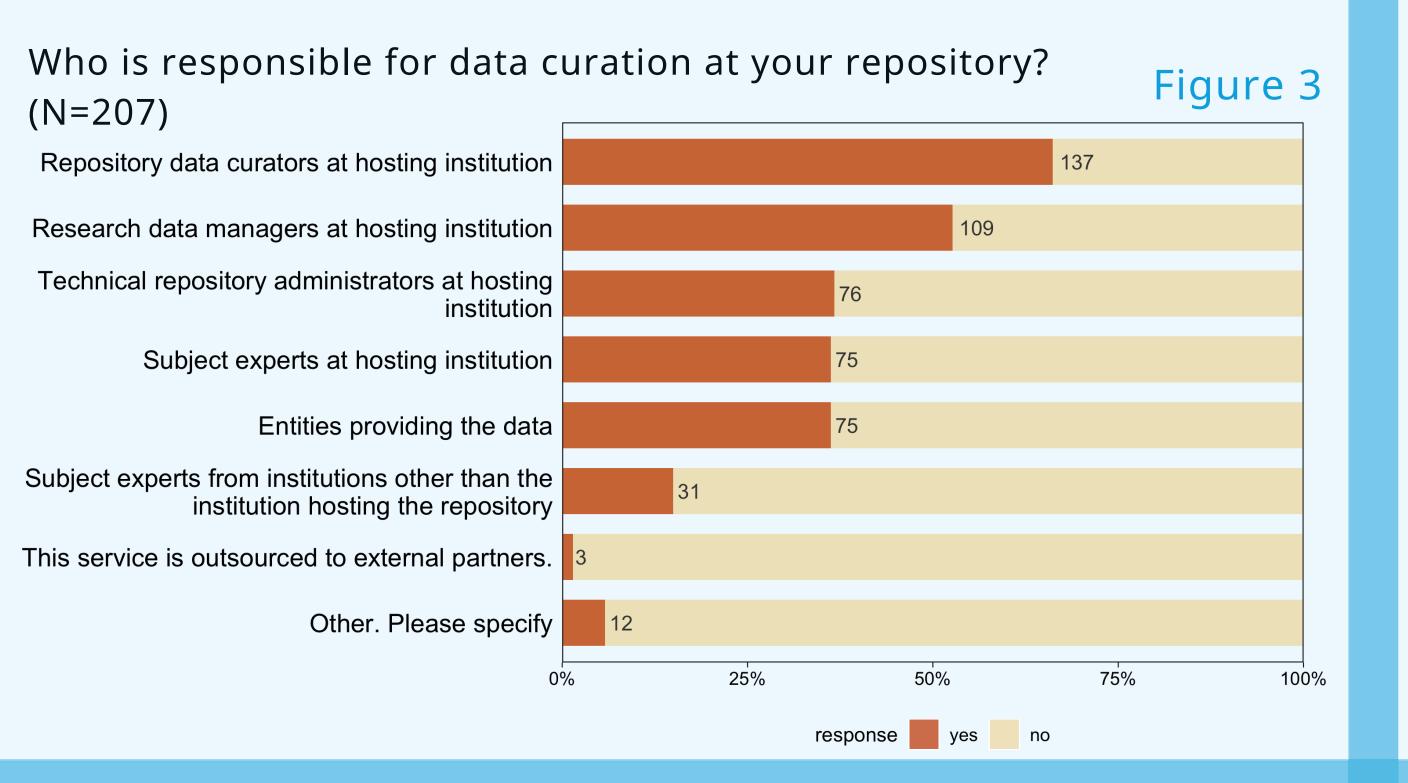
This service is outsourced to external partners. Other. Please specify 10 25%

2. FORMAL ASSESSMENT

Are formal criteria applied to data before publication? (N=332)

> "Formal criteria" refers to technical, administrative, and access-related aspects of data to be published.





5. REPOSITORY CHARACTERISTICS

Survey data were supplemented by re3data metadata to assess the influence of repository characteristics on quality assurance.

no significant relationship between a repository's certification status and whether formal assessment is conducted. The association between certification status and data review is significant, but with a small effect size.

Repository type has no significant relationship with either formal assessment or data review.

















