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An institutional dashboard for monitoring responsible research practices in biomedicine

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GenOA Week 2022
2022-11-07

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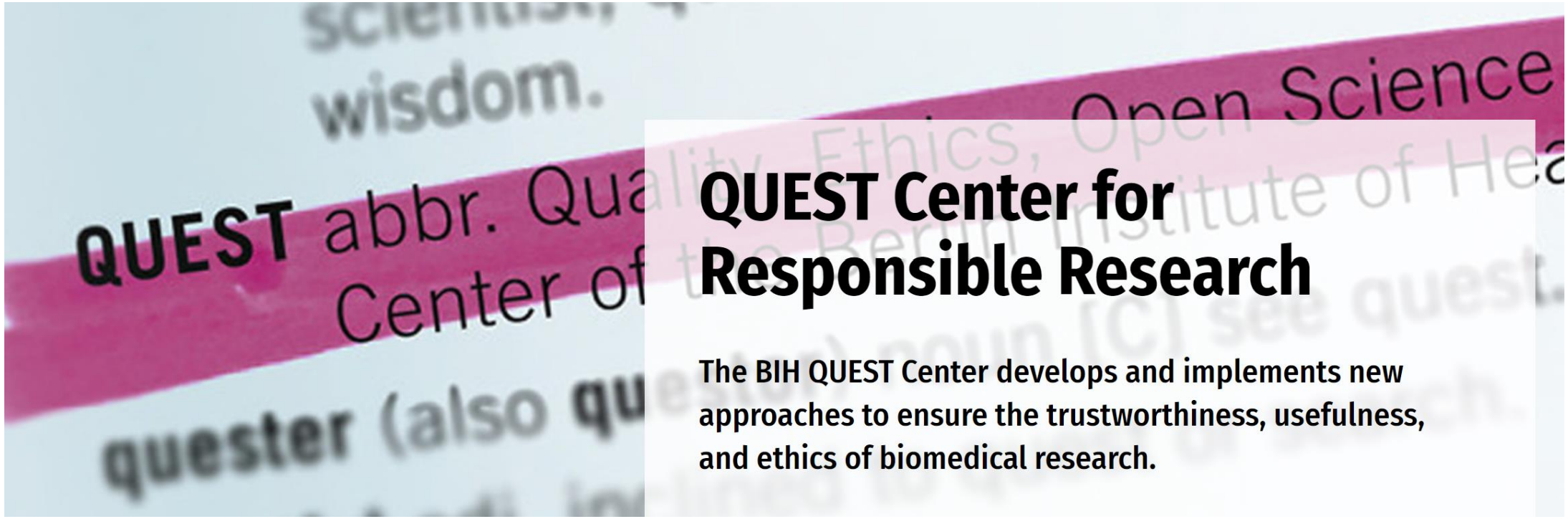
Center for Responsible Research

BIH Berlin Institute of Health @Charité

QUEST: Quality **E**thics Open **S**cience **T**ranslation (est. 2017)



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QUEST Framework

PLOS BIOLOGY

February 11, 2020

COMMUNITY PAGE

Improving the trustworthiness, usefulness, and ethics of biomedical research through an innovative and comprehensive institutional initiative

Daniel Strech[1,2], Tracey Weissgerber[1,2], Ulrich Dirnagl[1,2]*, on behalf of QUEST Group[1¶]

1 QUEST Center for Transforming Biomedical Research, Berlin Institute of Health (BIH), Berlin, Germany,
2 Charité - Universitätsmedizin Berlin, Berlin, Germany

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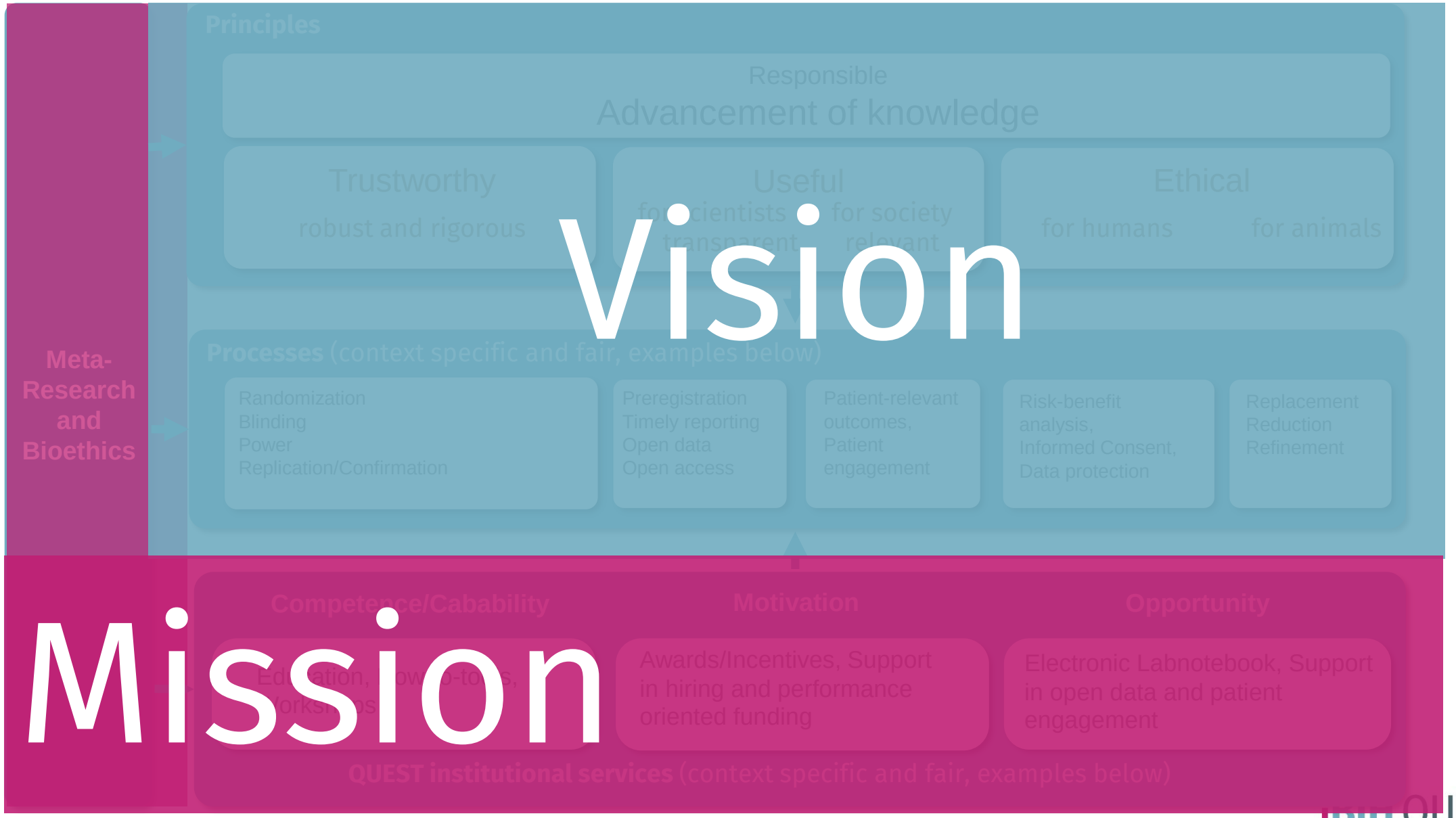

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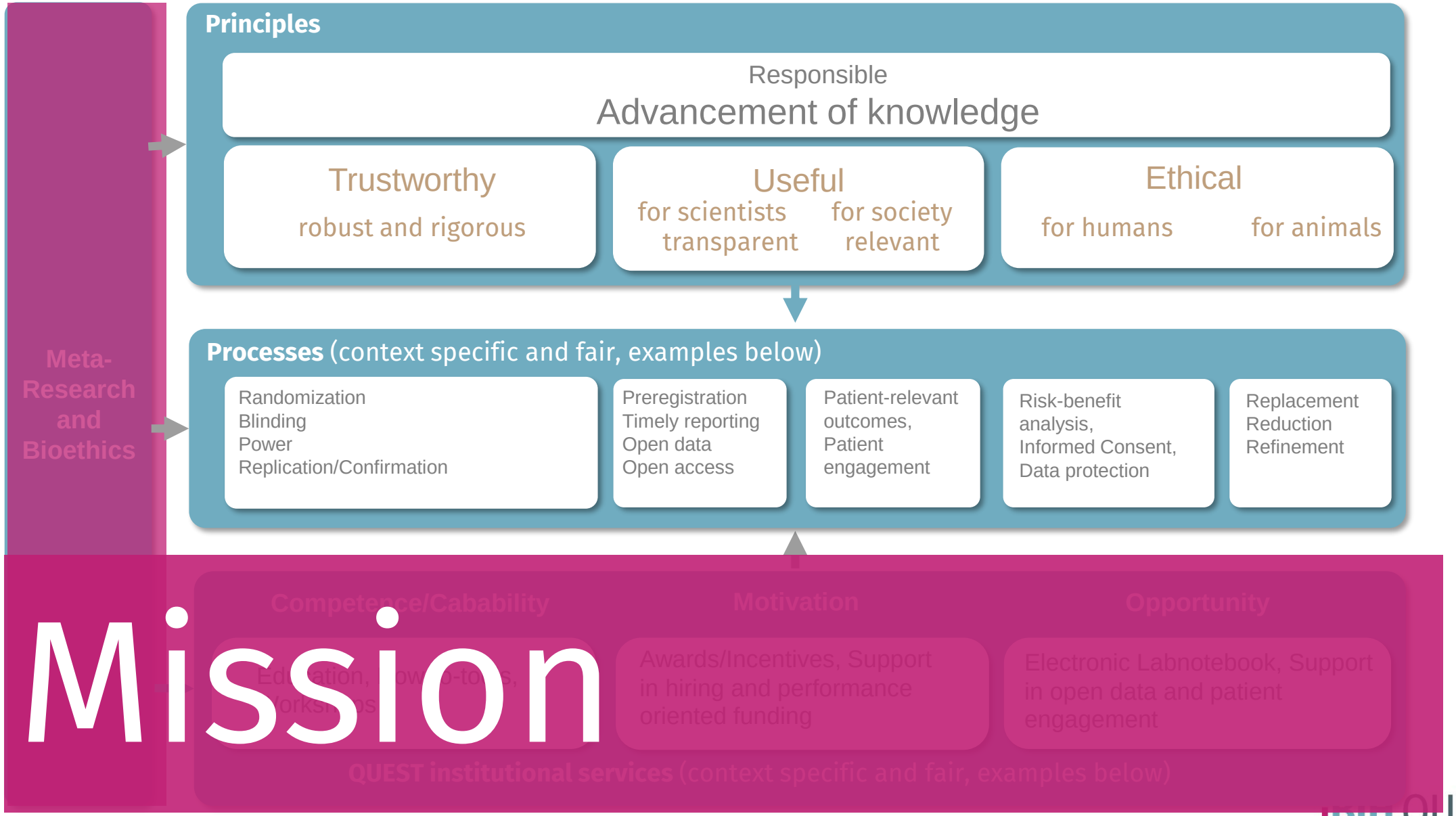

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Main foci of QUEST

Education and Training

Incentives and reward systems

Quality assurance

Open Science

Patient & Stakeholder Engagement

Meta Research

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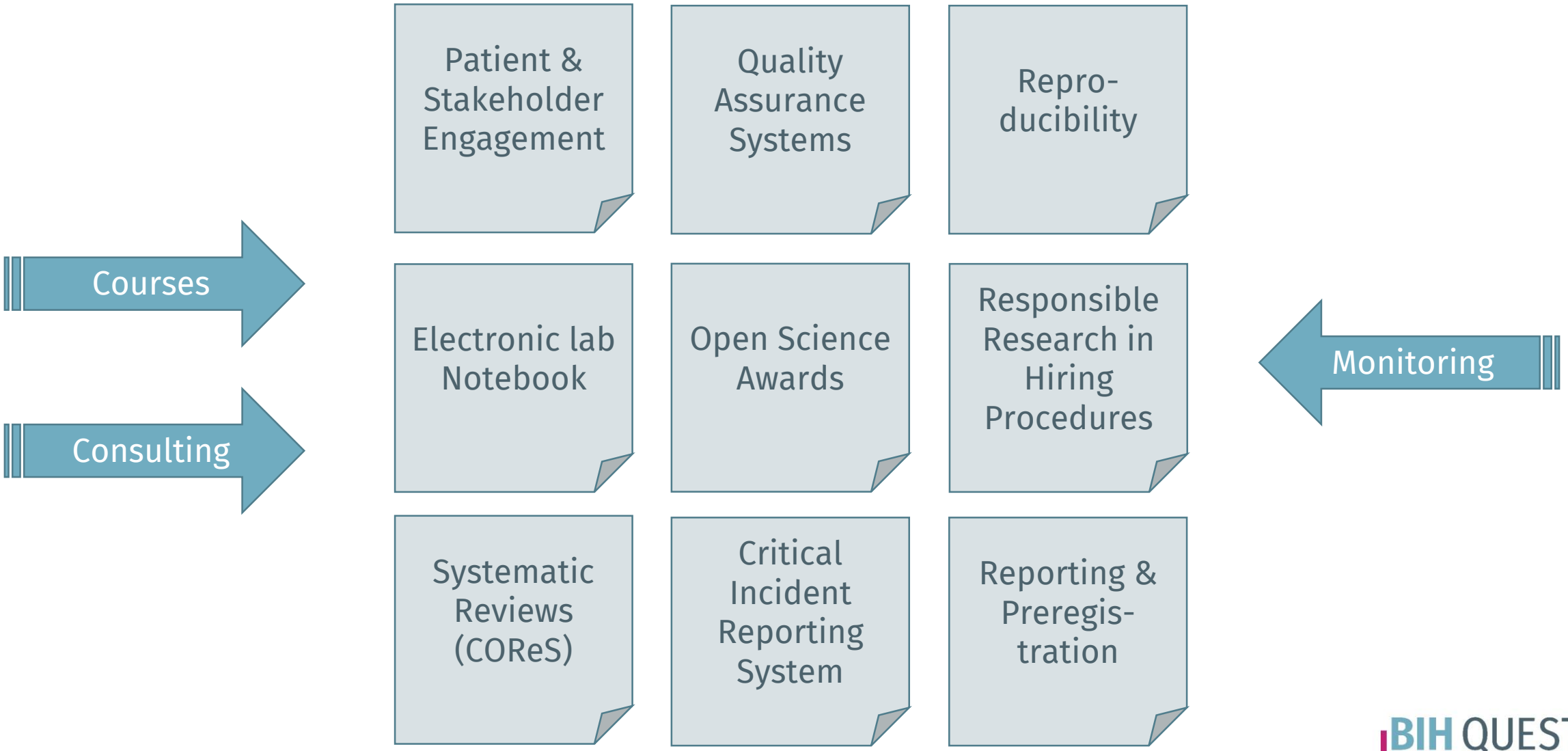
QUEST Activities



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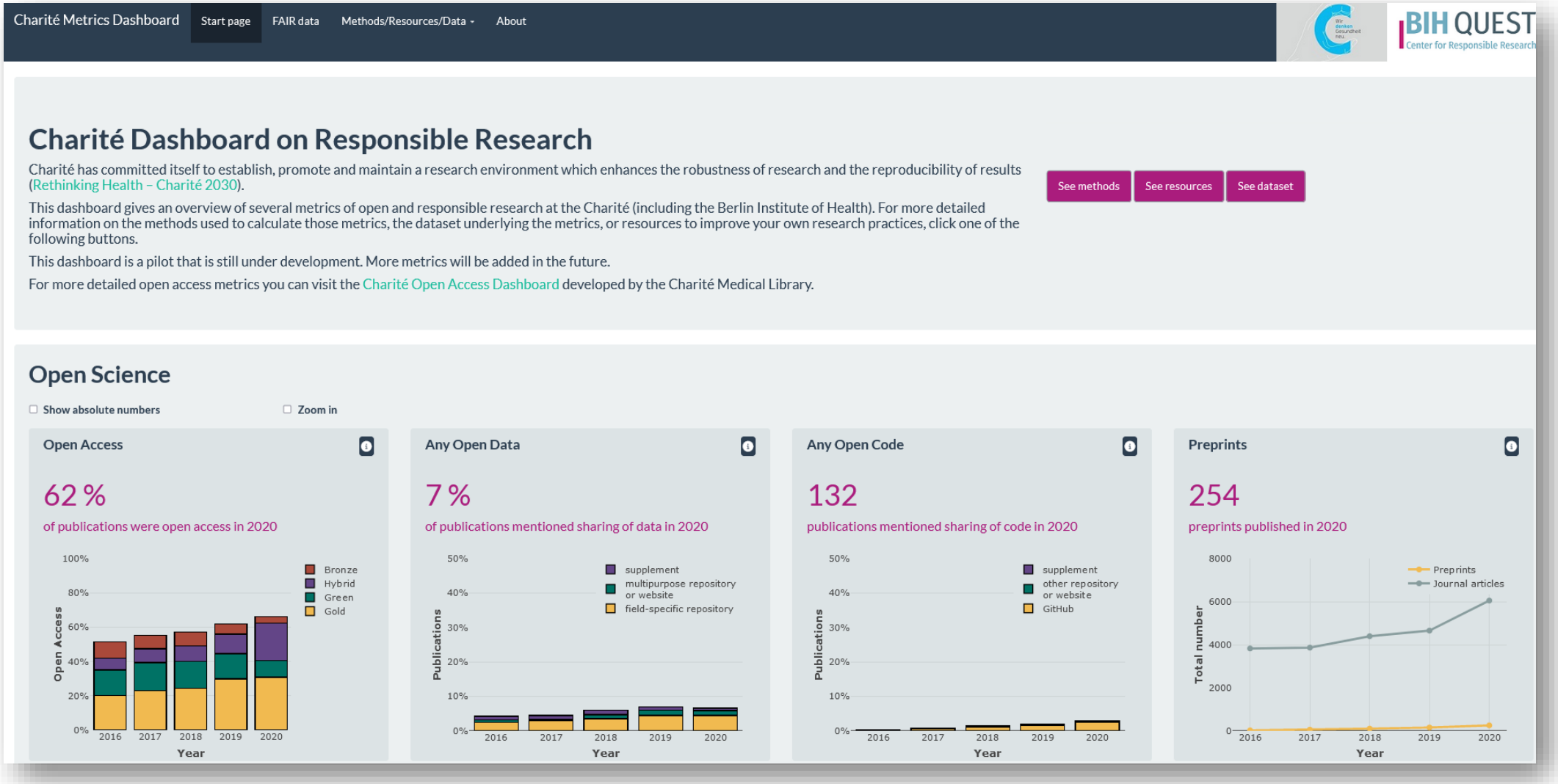
Charité Dashboard on Responsible Research



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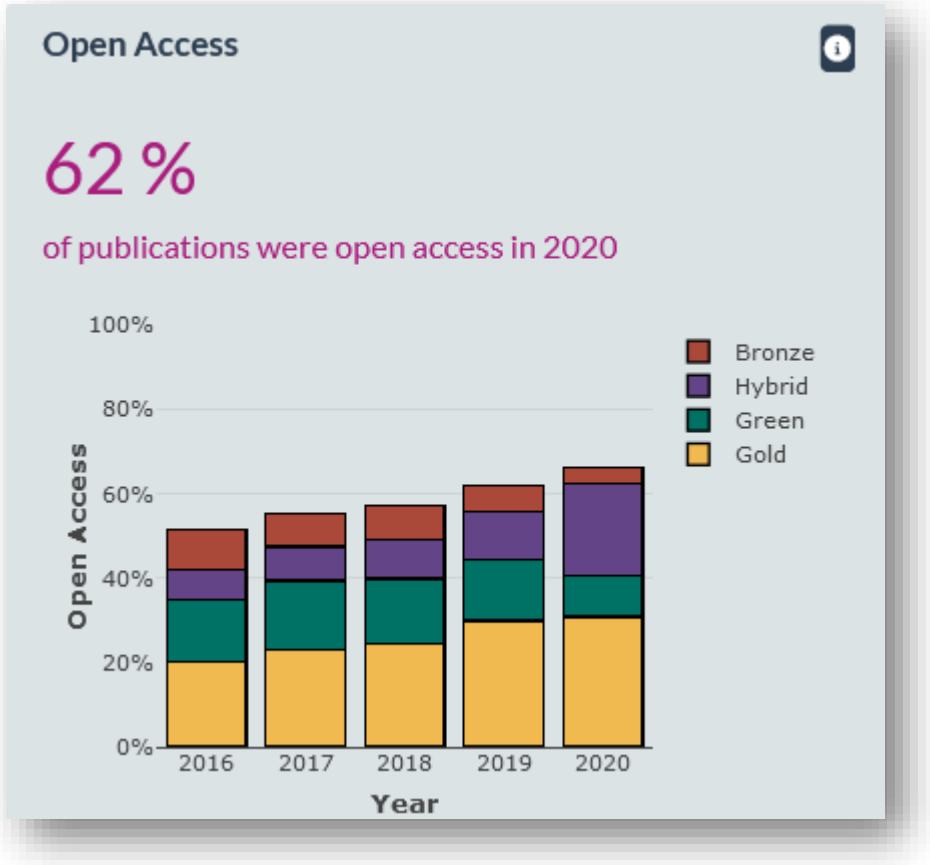
Charité Dashboard on Responsible Research



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Charité Dashboard on Responsible Research

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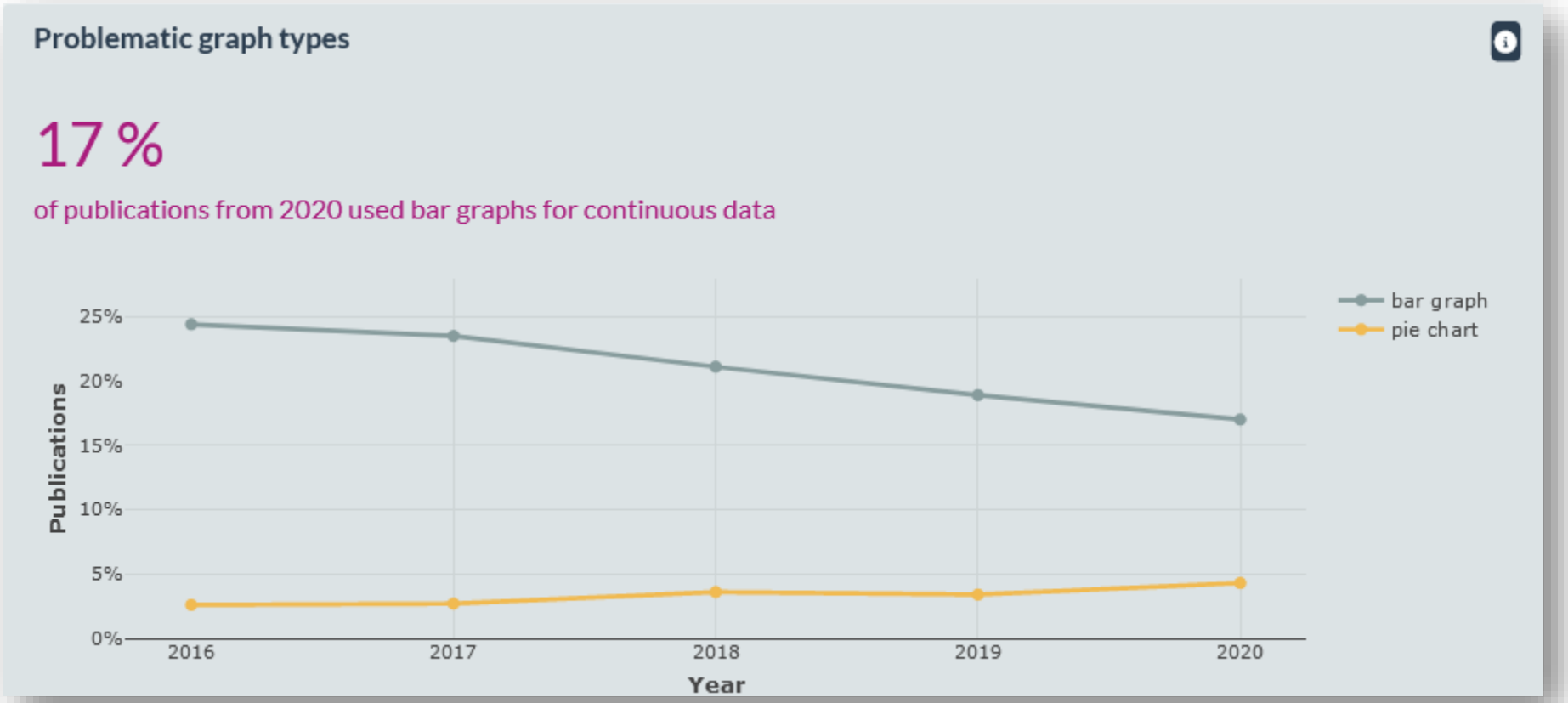
Charité Dashboard on Responsible Research



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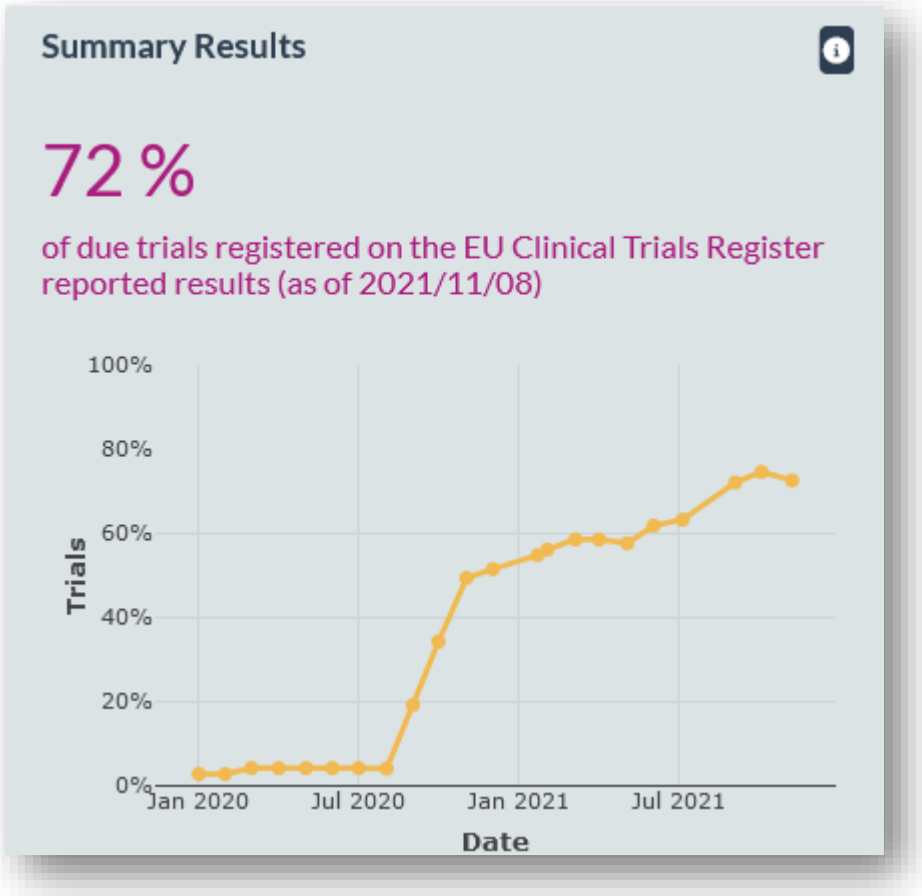

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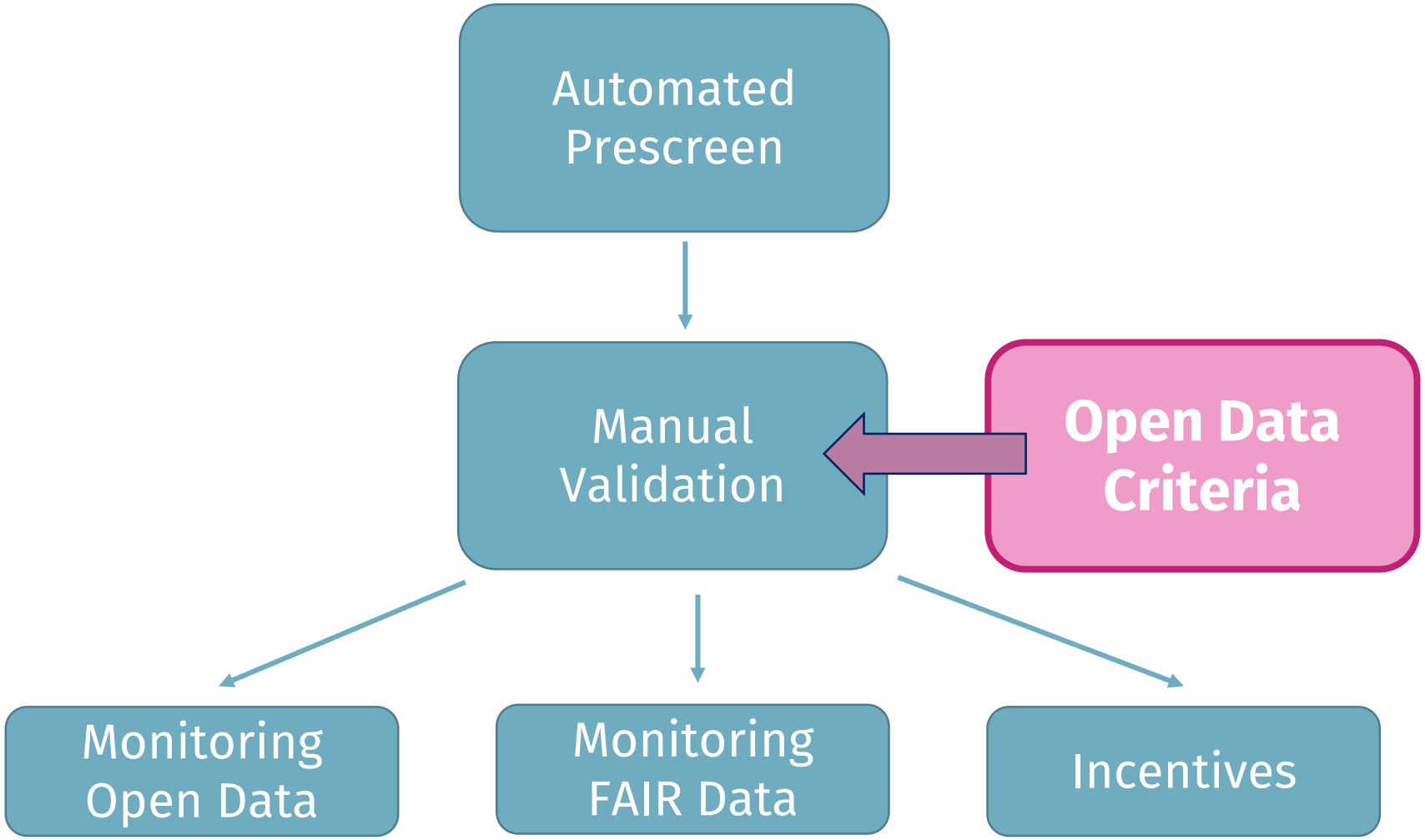
Workflow for Open Data & data FAIRness



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Automated Prescreen

Nico Riedel

ODDPub – Open Data Detection in Publications

- Open Source-Tool in R, developed by QUEST
- Detection of keywords in articles → Detection of Open Data (and Open Code)
- Open Data detected as a combination of terms concerning availability and location of deposit, as well as sometimes accession code
- Charité: ca. 5500 publications/year → ca. 770 Hits
- → Have to be screened manually

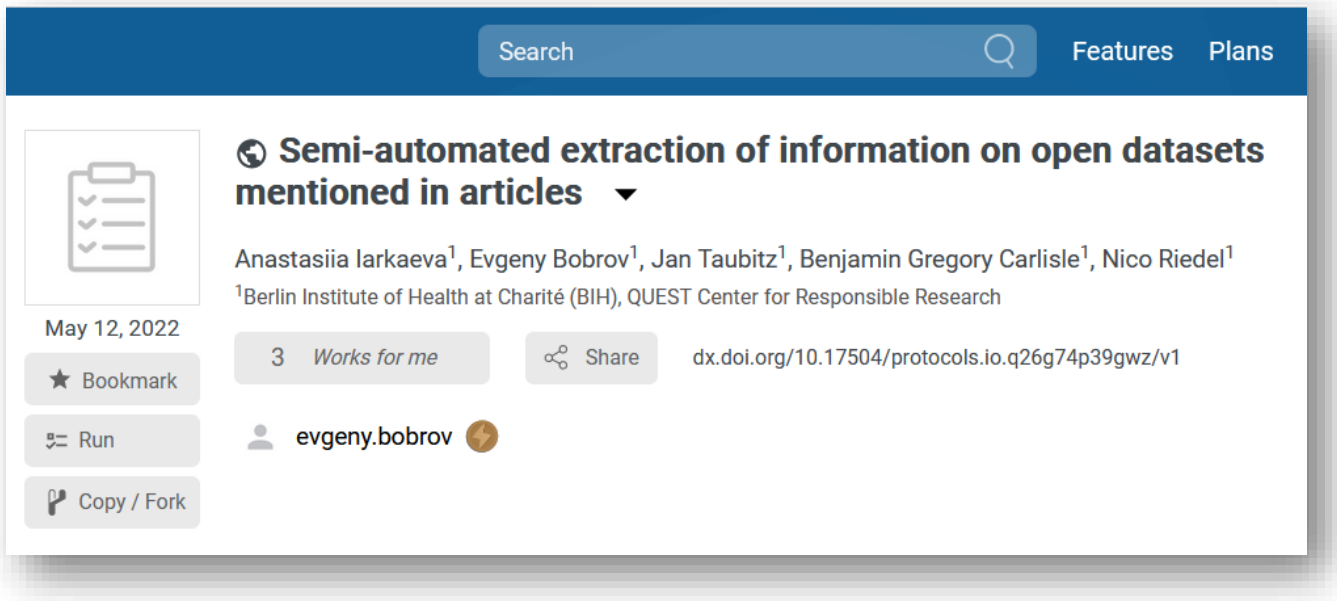
Riedel, N., Kip, M. and Bobrov, E., 2020. ODDPub – a Text-Mining Algorithm to Detect Data Sharing in Biomedical Publications. *Data Science Journal*, 19(1), p.42. DOI: http://doi.org/10.5334/dsj-2020-042

Manual Validation

Anastasiia Iarkaeva

Screening of Open Data Statements using Numbat

- Open Source Tool in PHP, originally developed for systematic reviews
- Adaptation for Open Data Screening
- → Detailed protocol of the complete workflow in protocols.io



Iarkaeva A, Bobrov E, Taubitz J, Carlisle BC, Riedel N 2022. Semi-automated extraction of information on open datasets mentioned in articles. **protocols.io** https://dx.doi.org/10.17504/protocols.io.q26g74p39gwz/v1

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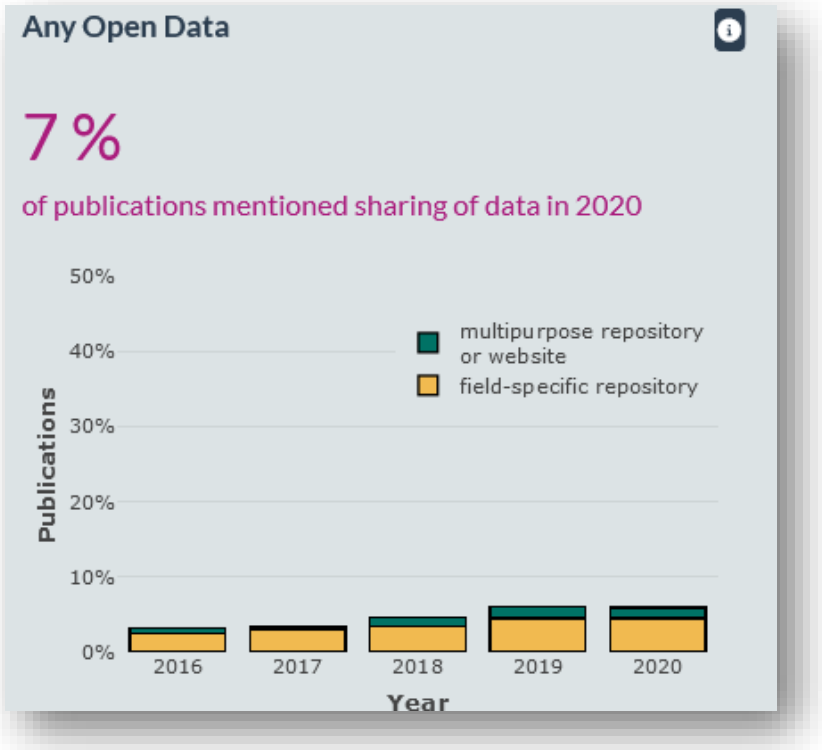
Charité Dashboard on Responsible Research : Open Data



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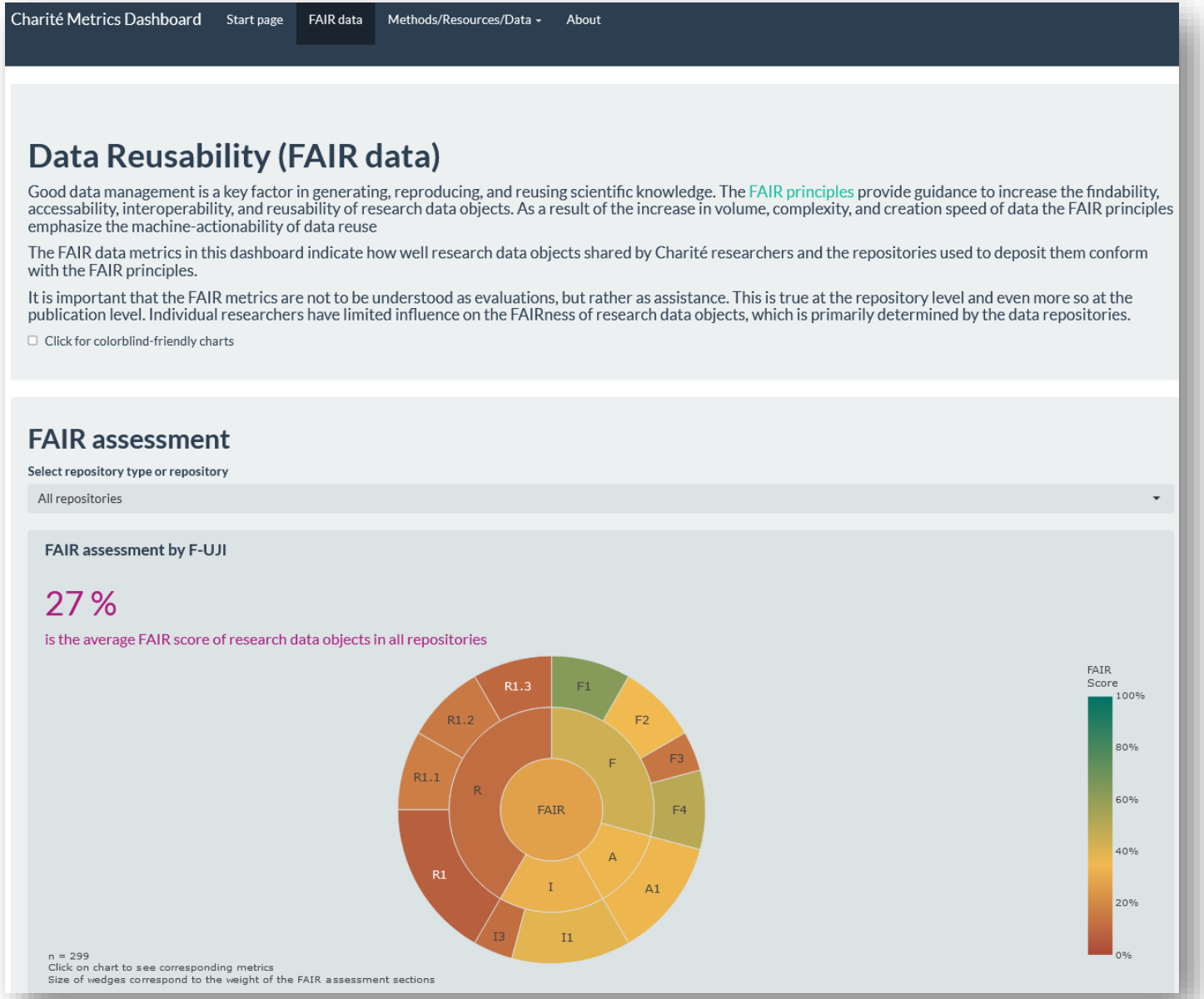
Charité Dashboard on Responsible Research: FAIR data

Jan Taubitz



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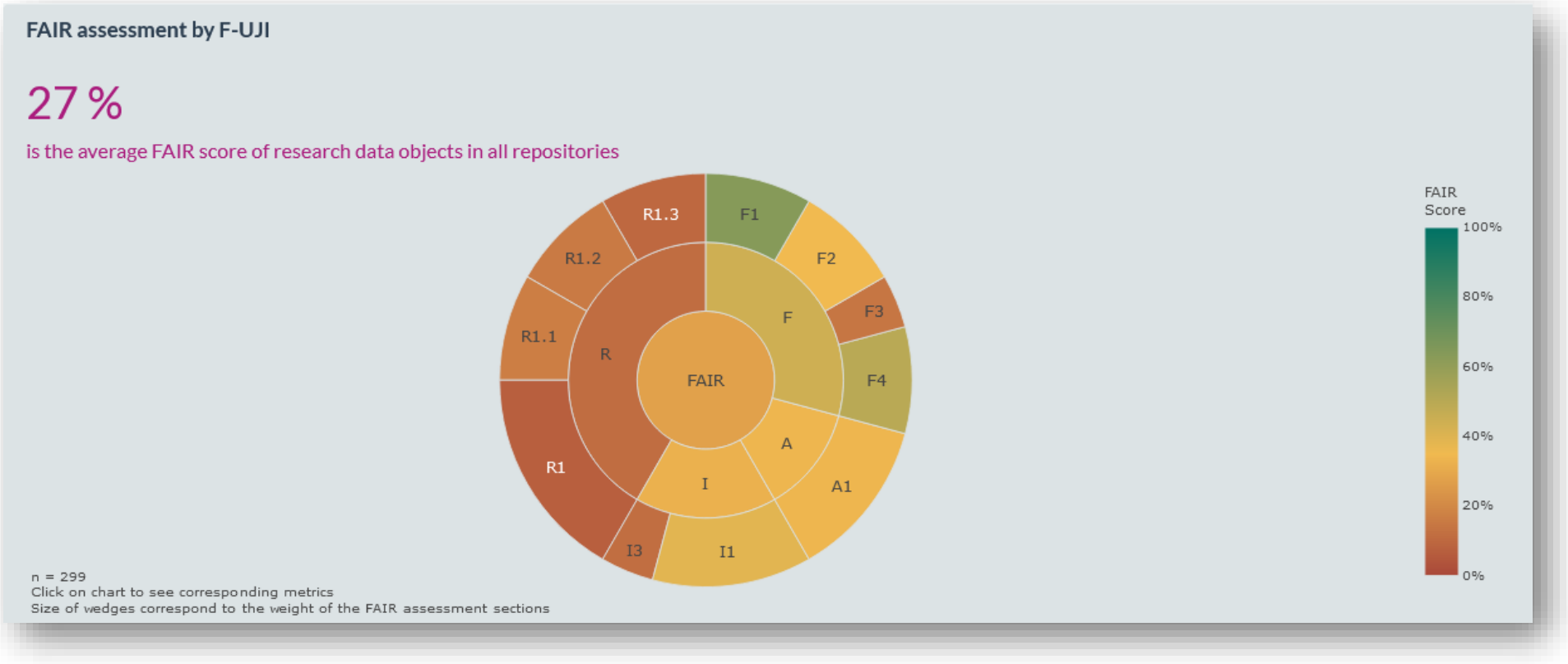
Charité Dashboard on Responsible Research: FAIR data



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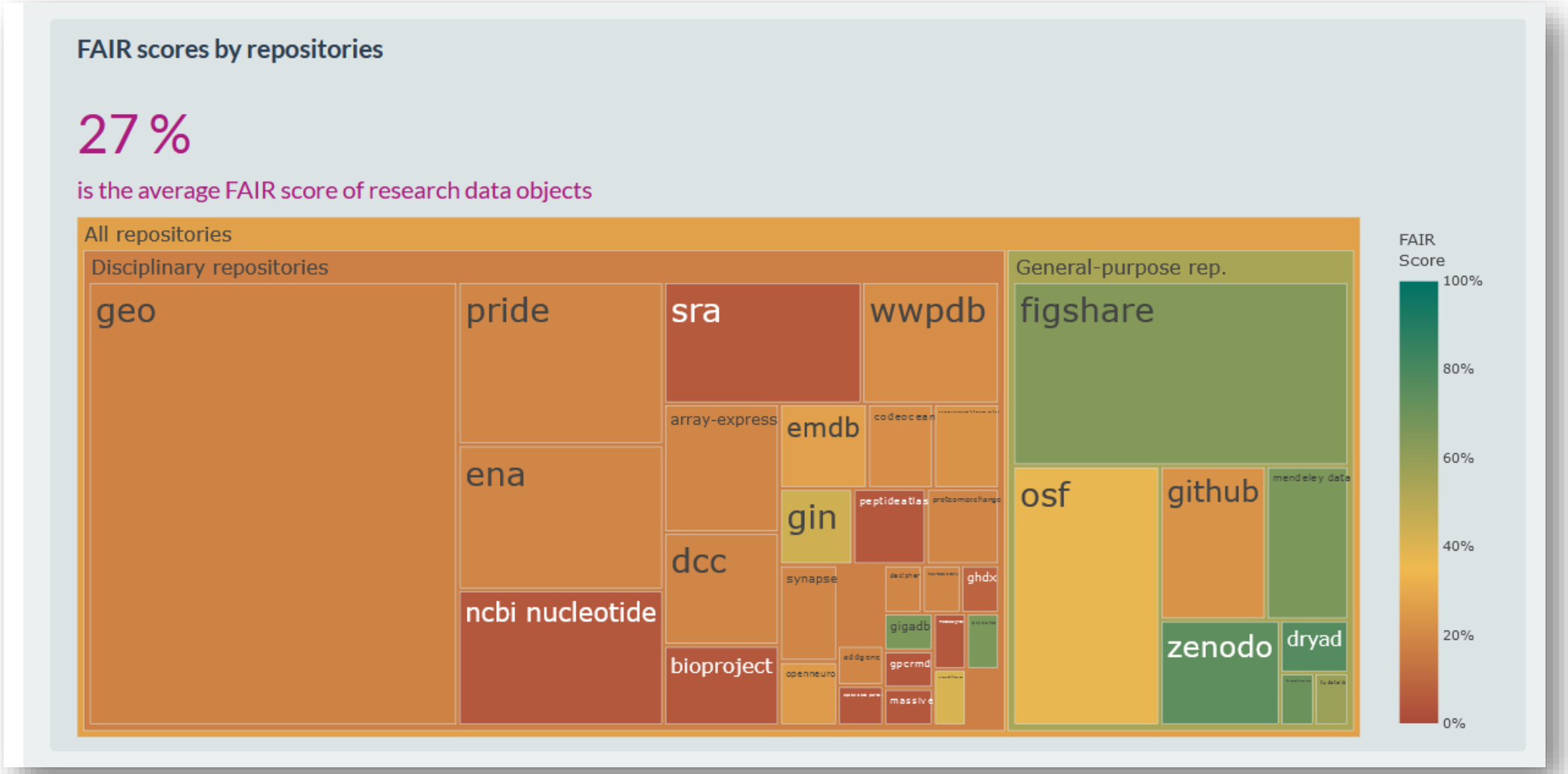
Charité Dashboard on Responsible Research: FAIR data



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Thank you!

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