

Swiss Institute of Bioinformatics

Sustaining open data resources in bioinformatics: the UniProt case study

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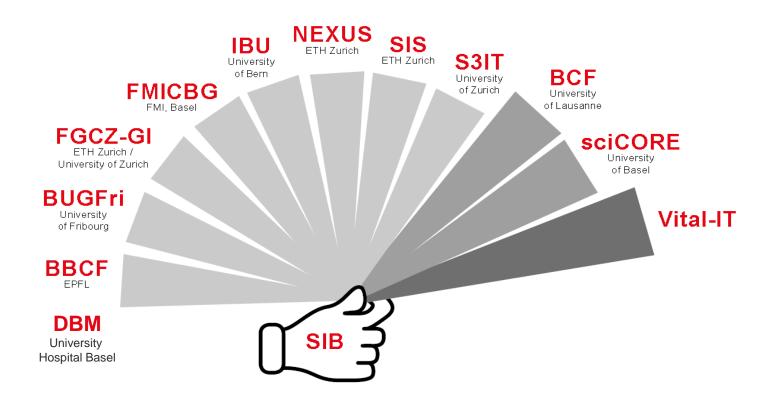
SIB Swiss Institute of Bioinformatics



19 partner institutions

65 groups800 members

Bioinformatics competence centers



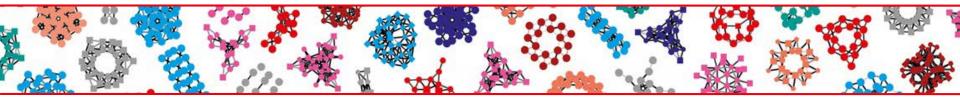
More than 150 bioinformatics resources



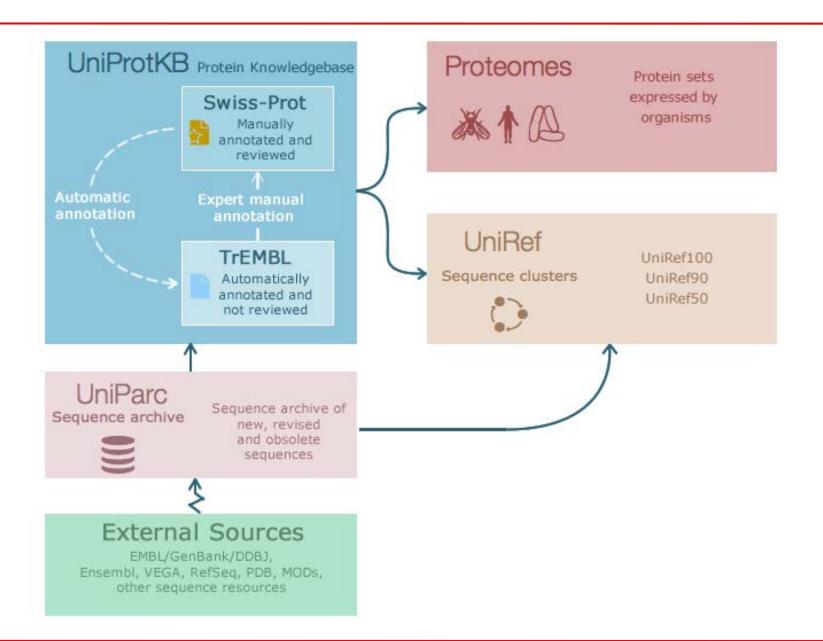


Knowledgebases

Expert manual curation



UniProt



UniProtKB/Swiss-Prot

Encyclopedia of protein sequences and functional information



50 biocurators

UniProtKB/Swiss-Prot

Encyclopedia of protein sequences and functional information



>550,000 manually curated protein sequences

UniProtKB/Swiss-Prot

Encyclopedia of protein sequences and functional information



220,000 curated literature references

UniProtKB/Swiss-Prot

Encyclopedia of protein sequences and functional information



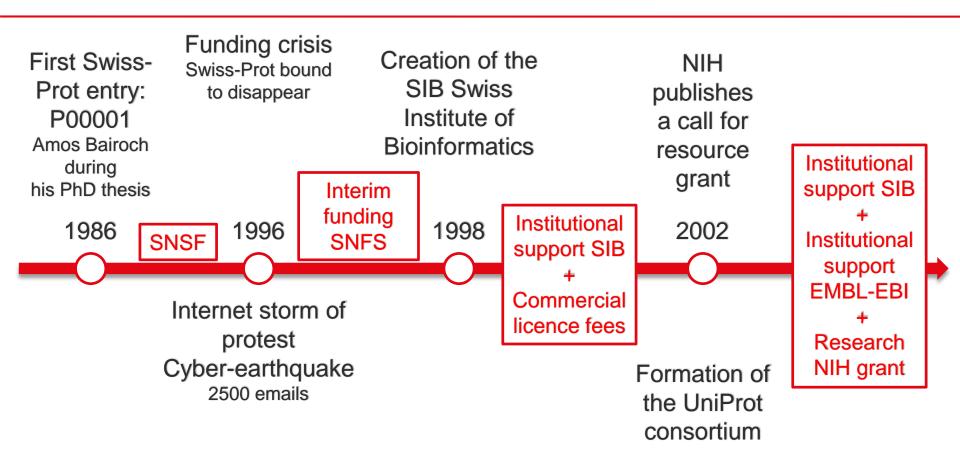
~500,000 users per month

Access to UniProt is free

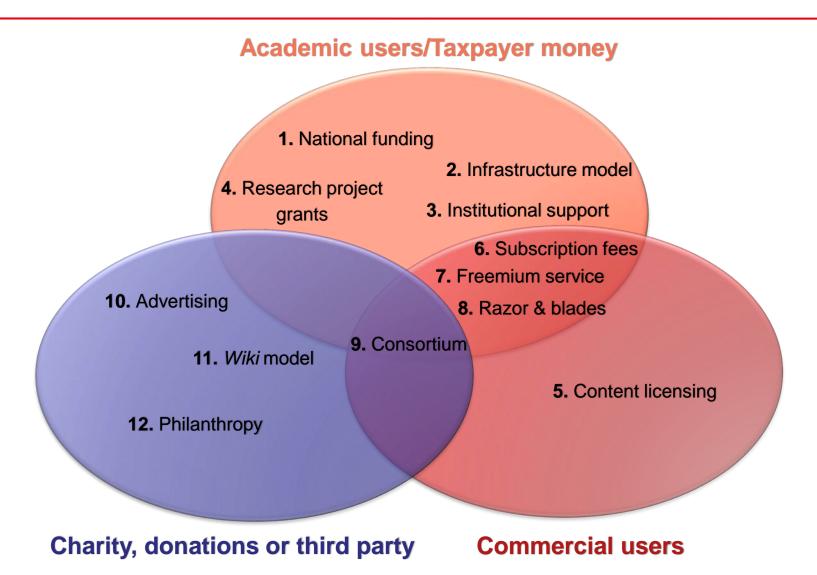
Cost of UniProt is NOT free

Cost of UniProt ≈ 0.1% of the reviewed research

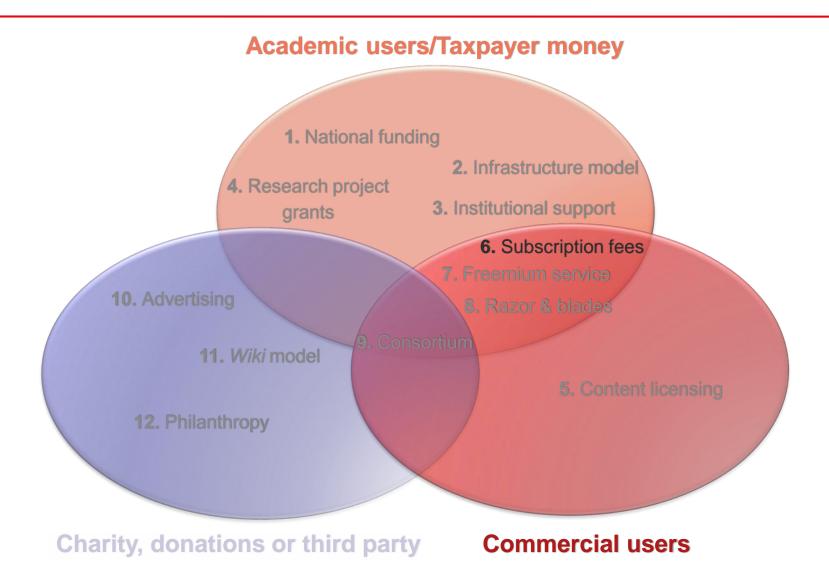
How is UniProt funded?



Possible funding models



Subscription fees

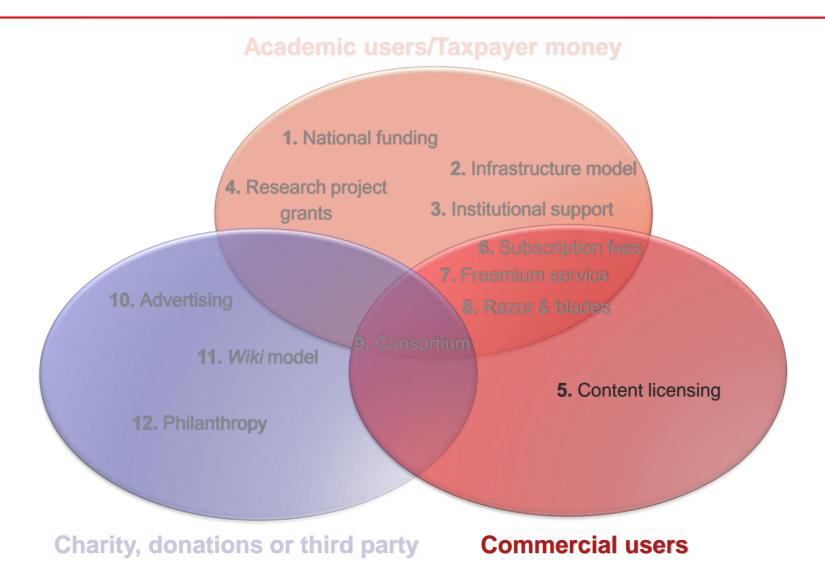


€3.5 / month

€ 0.055 / MB download



Content licensing

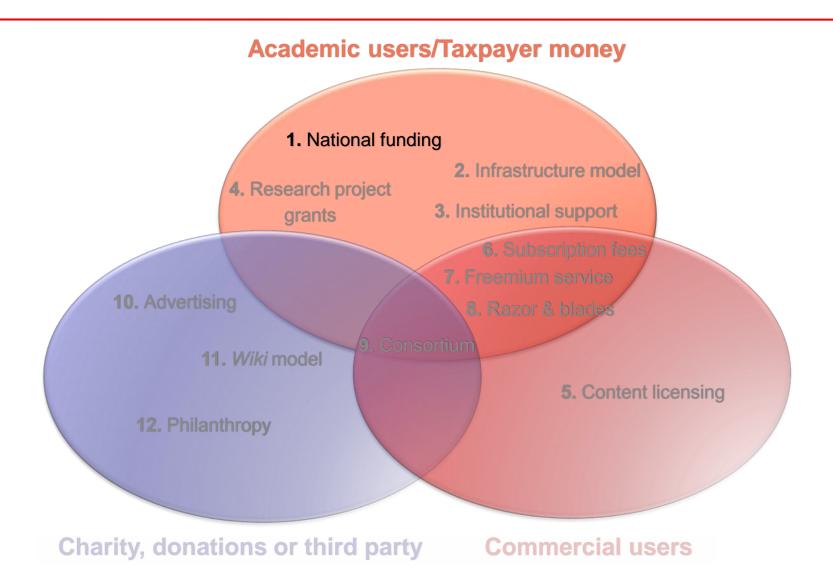


€2,500 - €90,000

for Swiss-Prot subscription in 1998

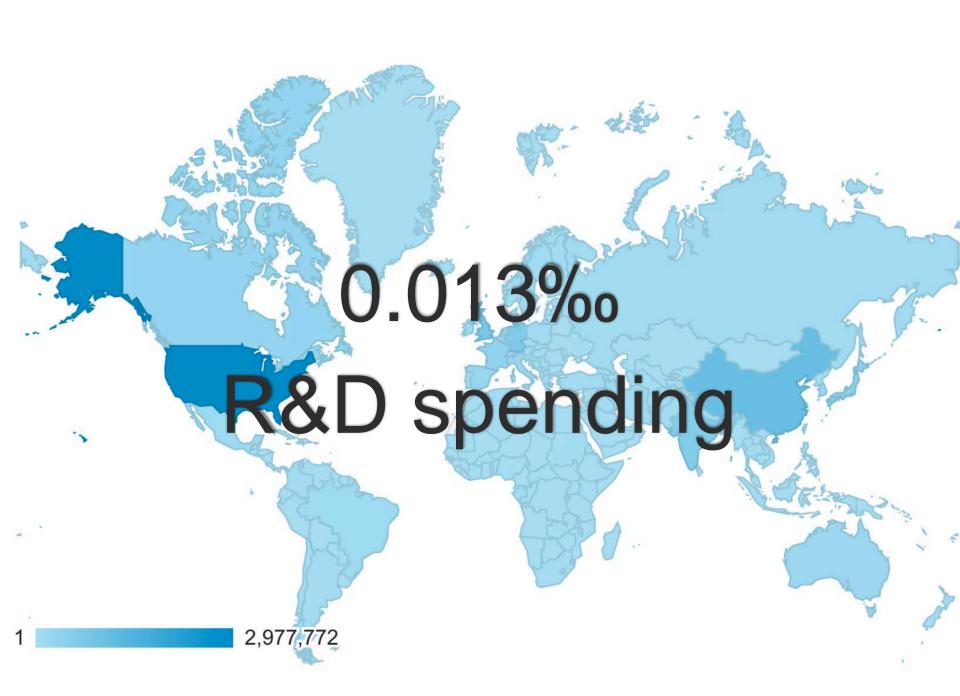


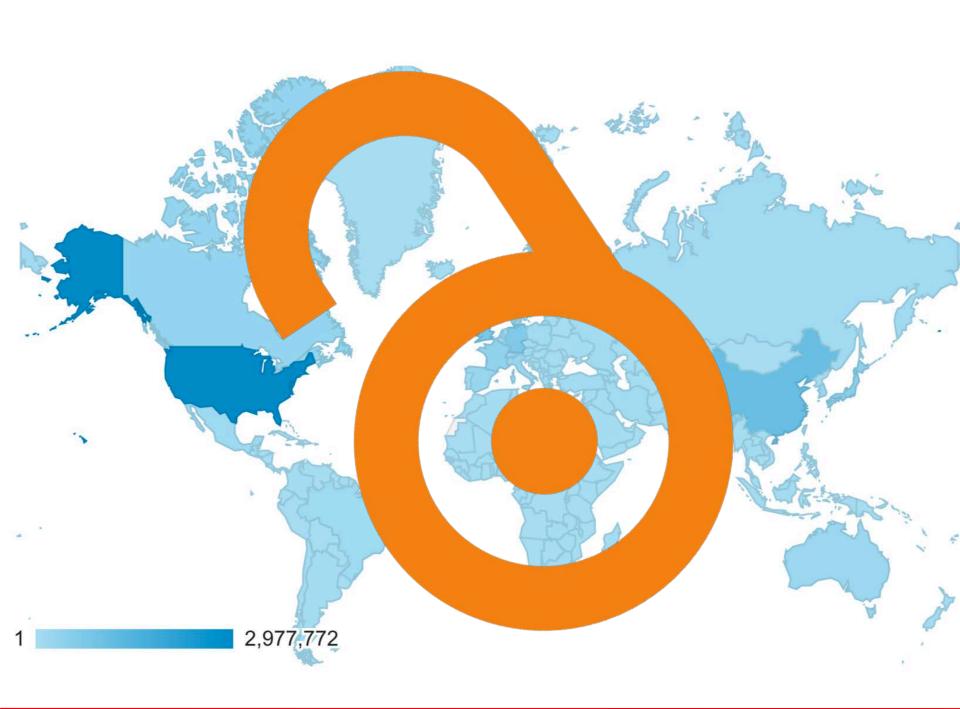
National model



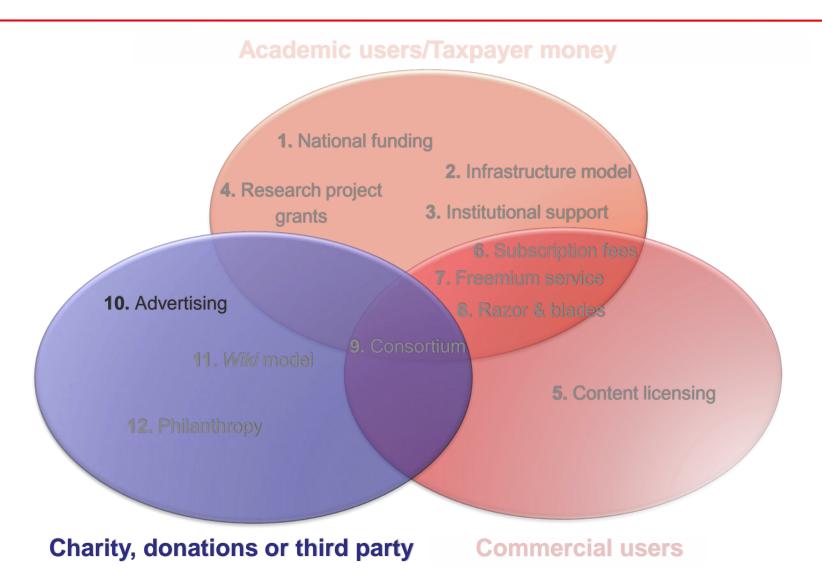
Proportional to usage 2,977,772



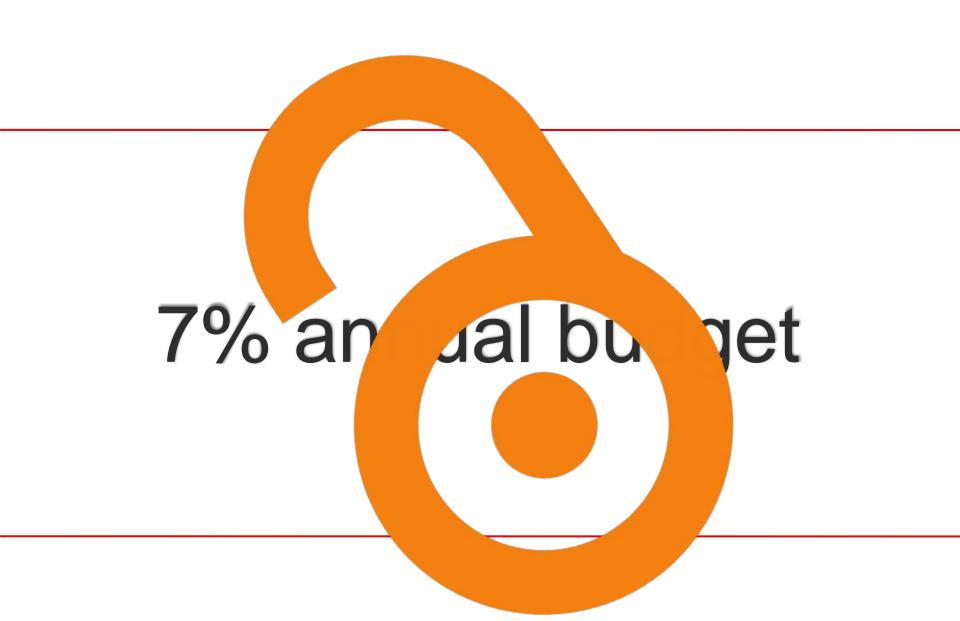




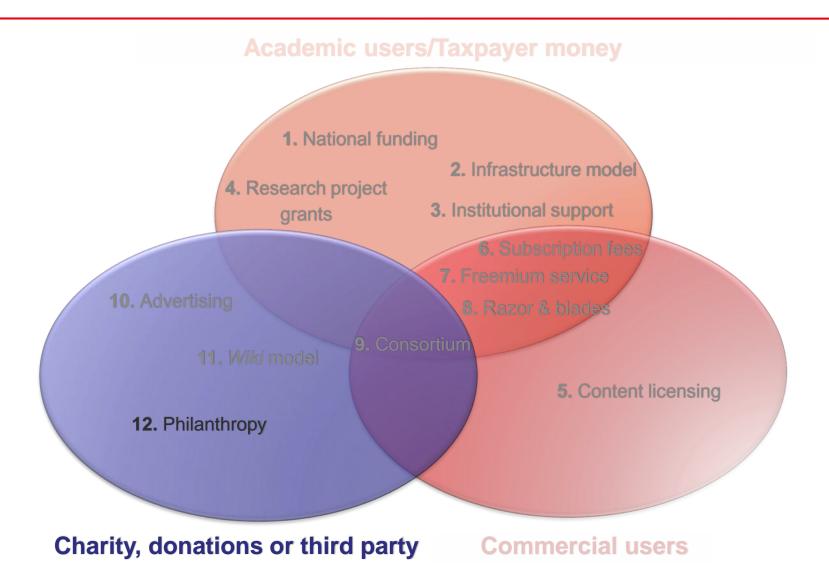
Advertising



7% annual budget



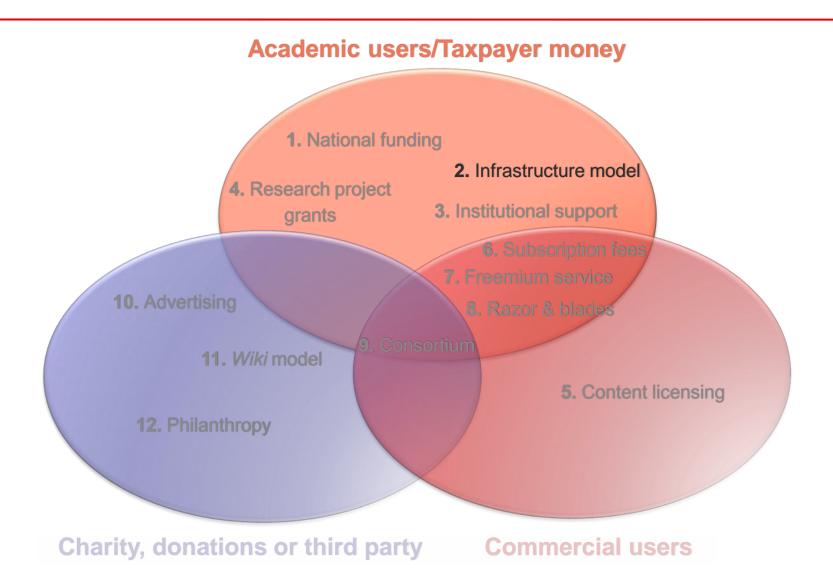
Philanthropy

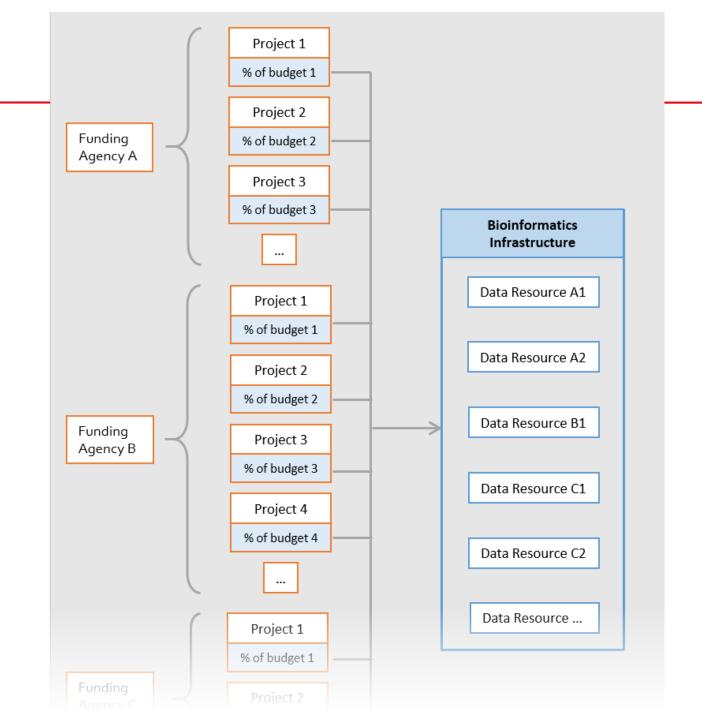


<5% annual budget

<5% ar Jual bu 'get

Infrastructure model



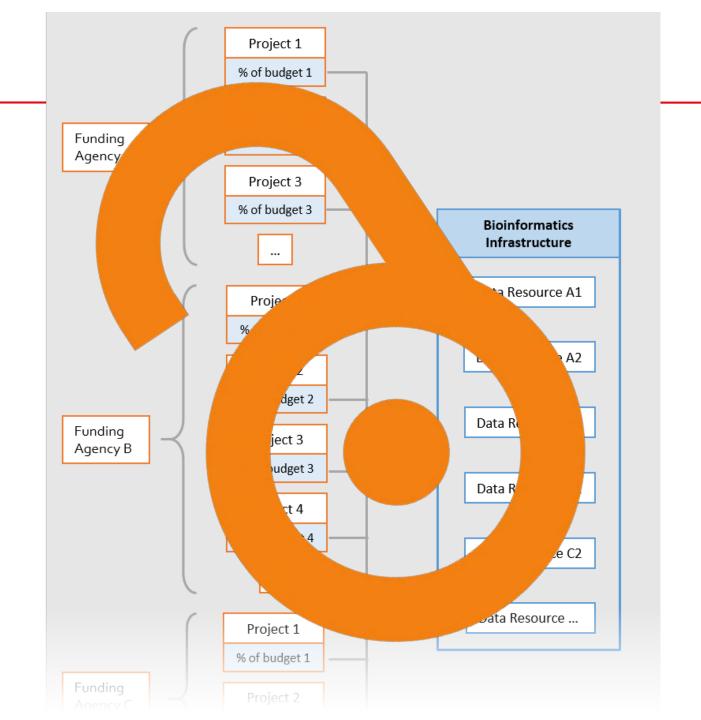


5 funding agencies

total spending for life science research grants

0.25 %

could sustain UniProt

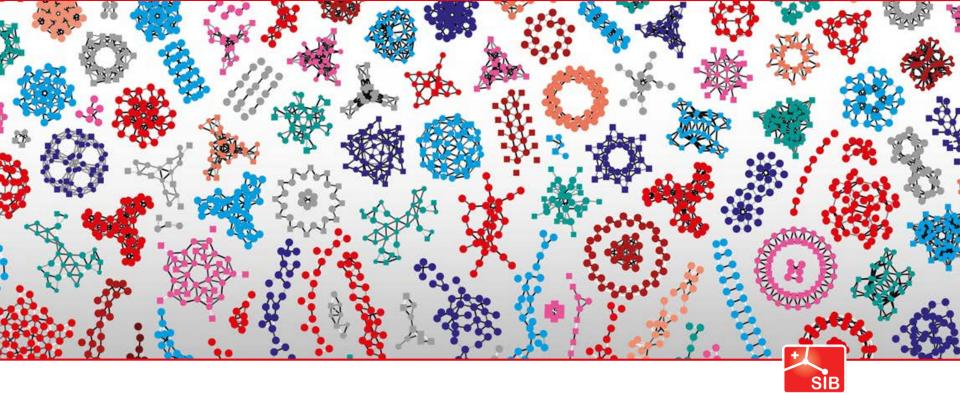


Scalable with the research

International

Open data is not free data

Long term sustainable model is needed



Swiss Institute of Bioinformatics

Thank you















