#### **Data Deposition Repositories**



Korbinian Bösl Data manager ELIXIR Norway 21 February 2020









**ARCHIVE** 

Increased Visibility (SEO) → more citations

- Increased Visibility (SEO) → more citations
- Value added Databases → more citations

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- ← FAIRification Funding requirements 

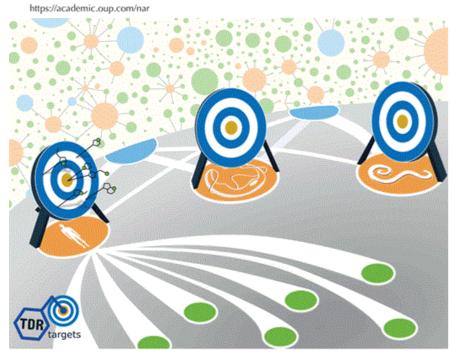
  ✓ ✓

- Increased Visibility (SEO) → more citations
- Value added Databases → more citations
- ← FAIRification Funding requirements 

  ✓ ✓
- \$ Safe money on storage

#### Nucleic Acids Research

VOLUME 48 DATABASE ISSUE JANUARY 8, 2020



# molecular biology 1637 databases



Open Access
No barriers to access – all articles freely available online



FAIRsharing
re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

#### Meta data standards

#### Community standards vs. formal ISO standards

HOW STANDARDS PROLIFERATE: (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION: THERE ARE 14 COMPETING STANDARDS.



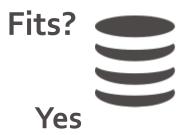
SOON:

SITUATION:

THERE ARE

15 COMPETING

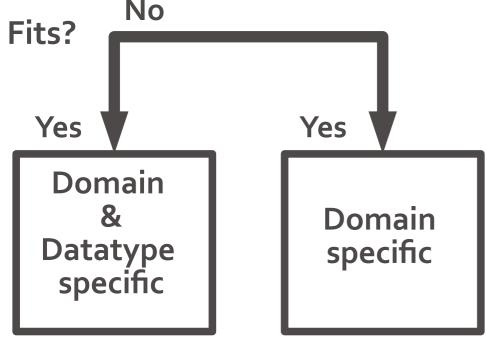
STANDARDS.



Domain & Datatype specific



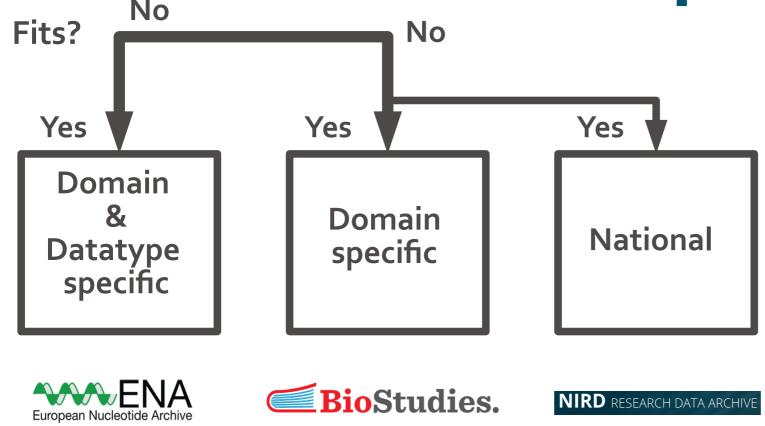




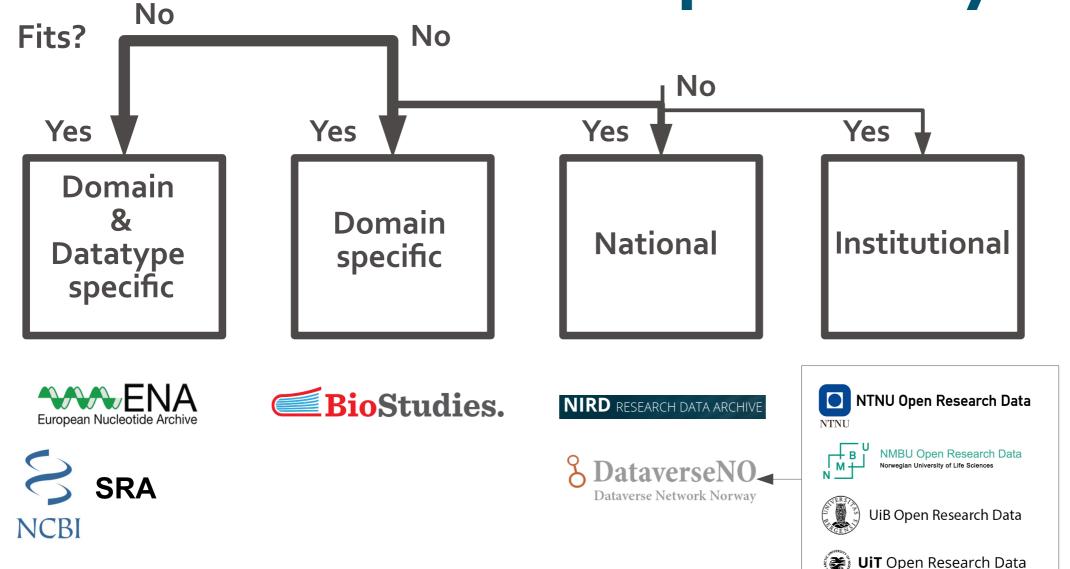


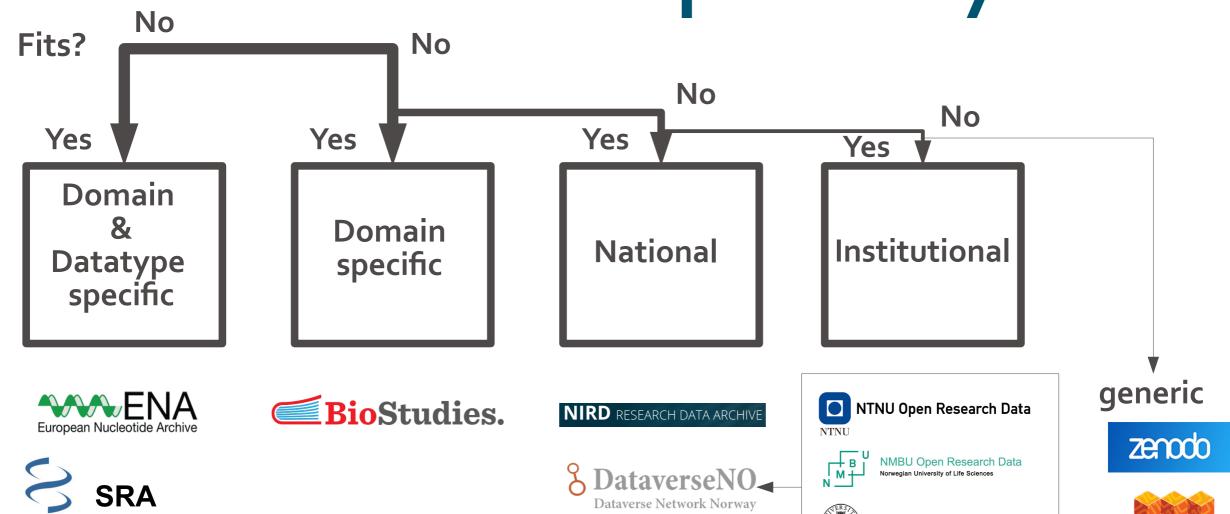












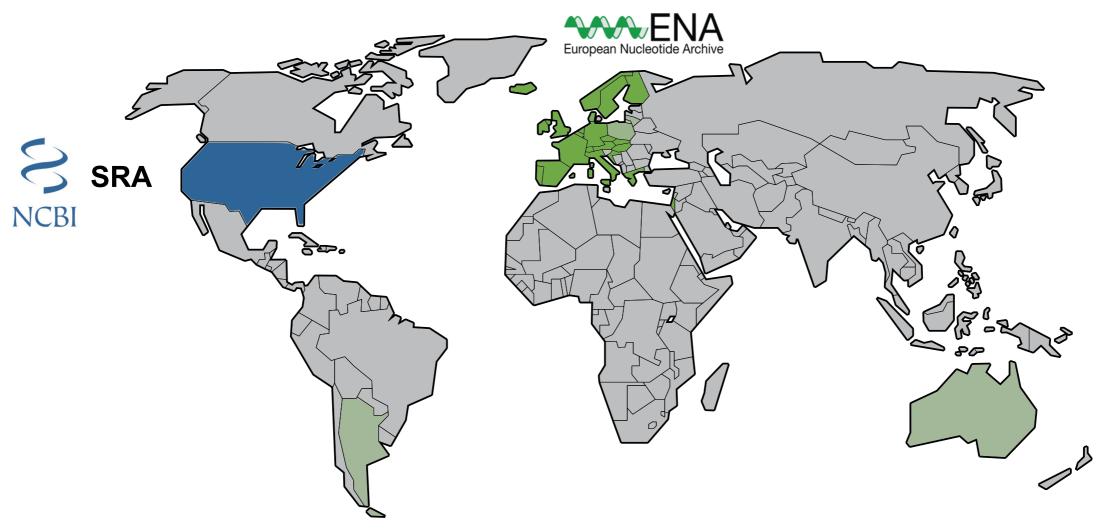


#### Multiple Repositories – similar datatypes

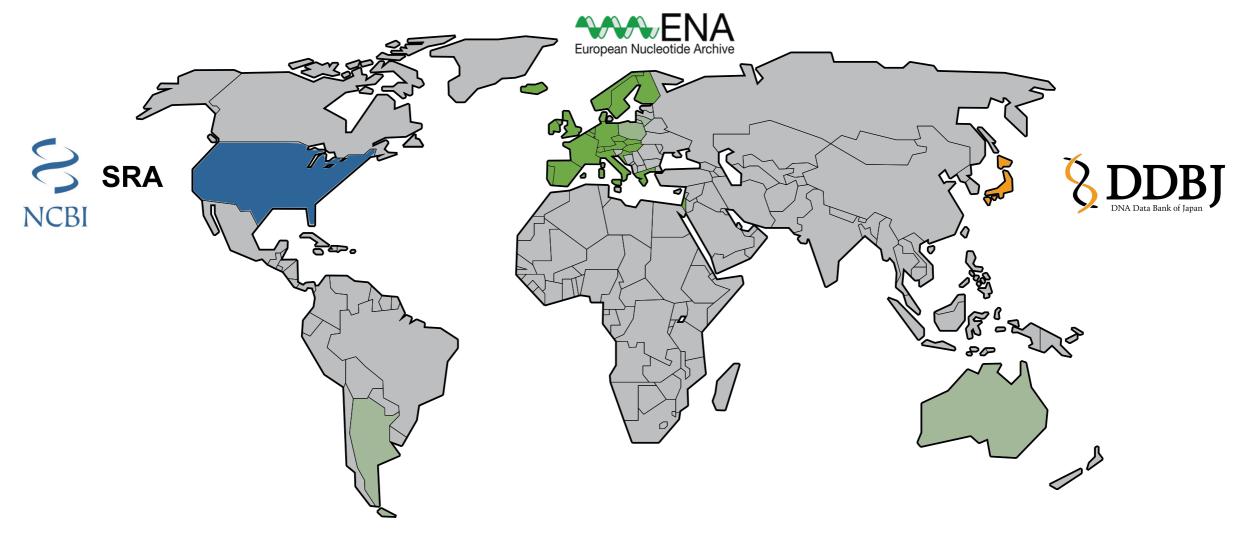


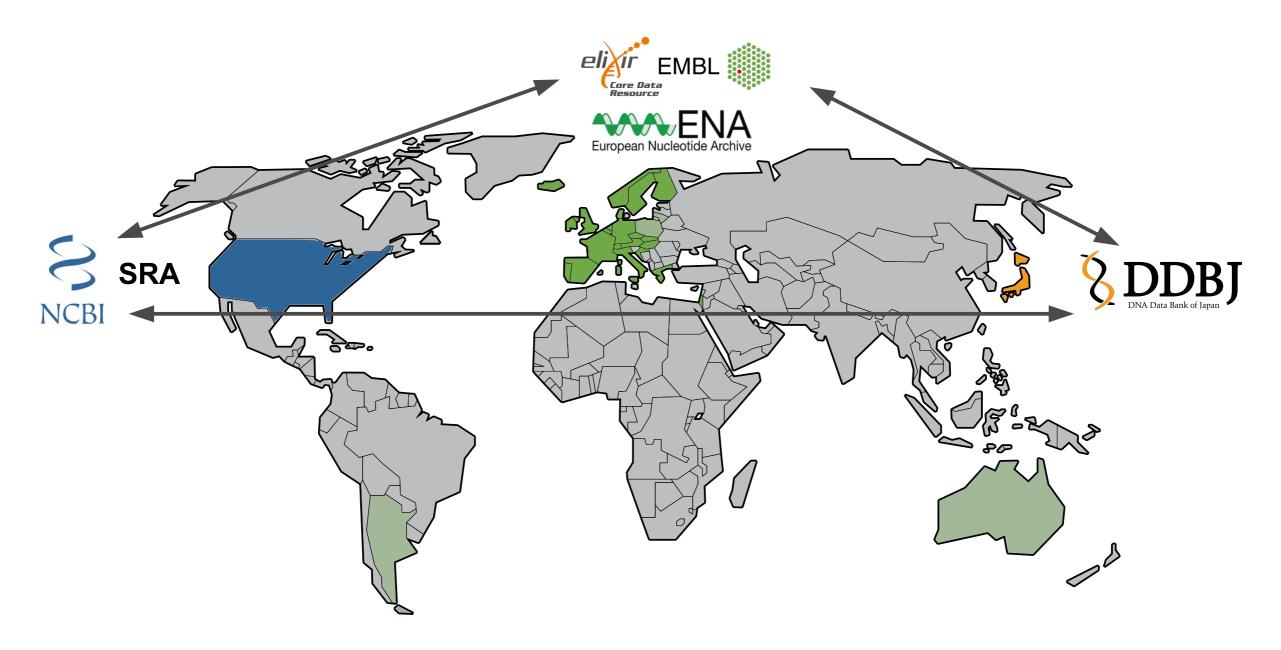


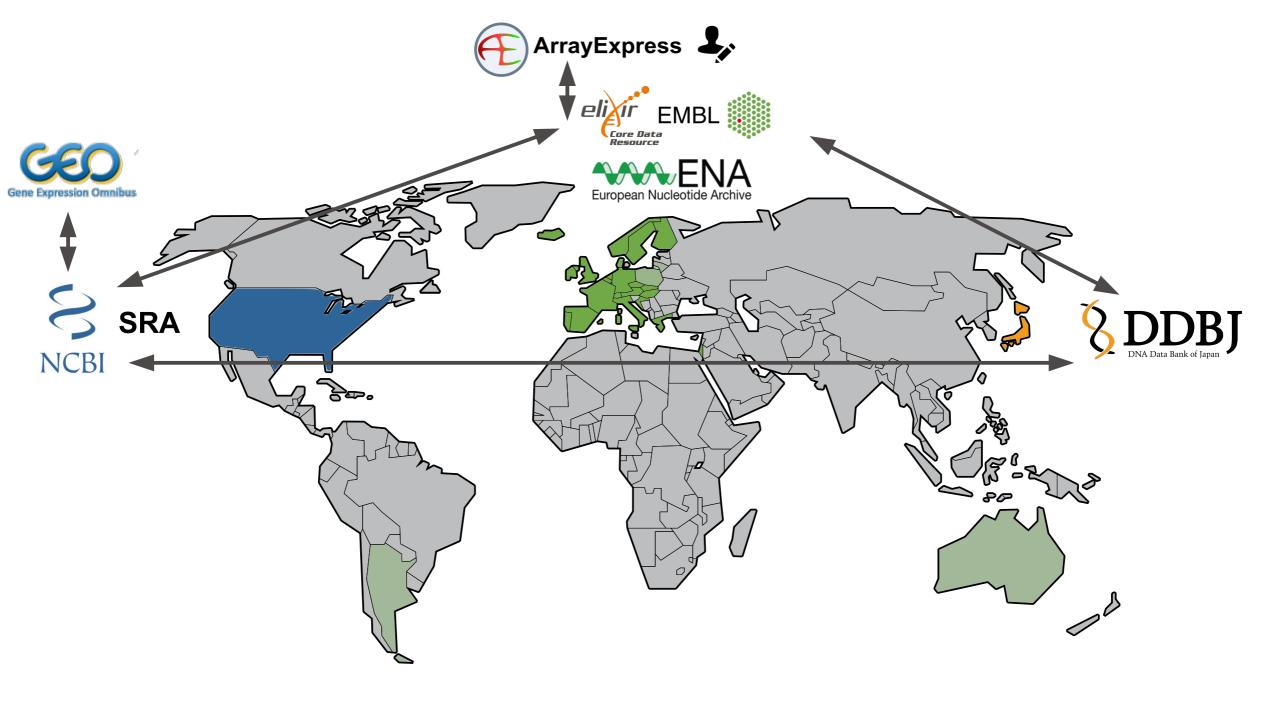


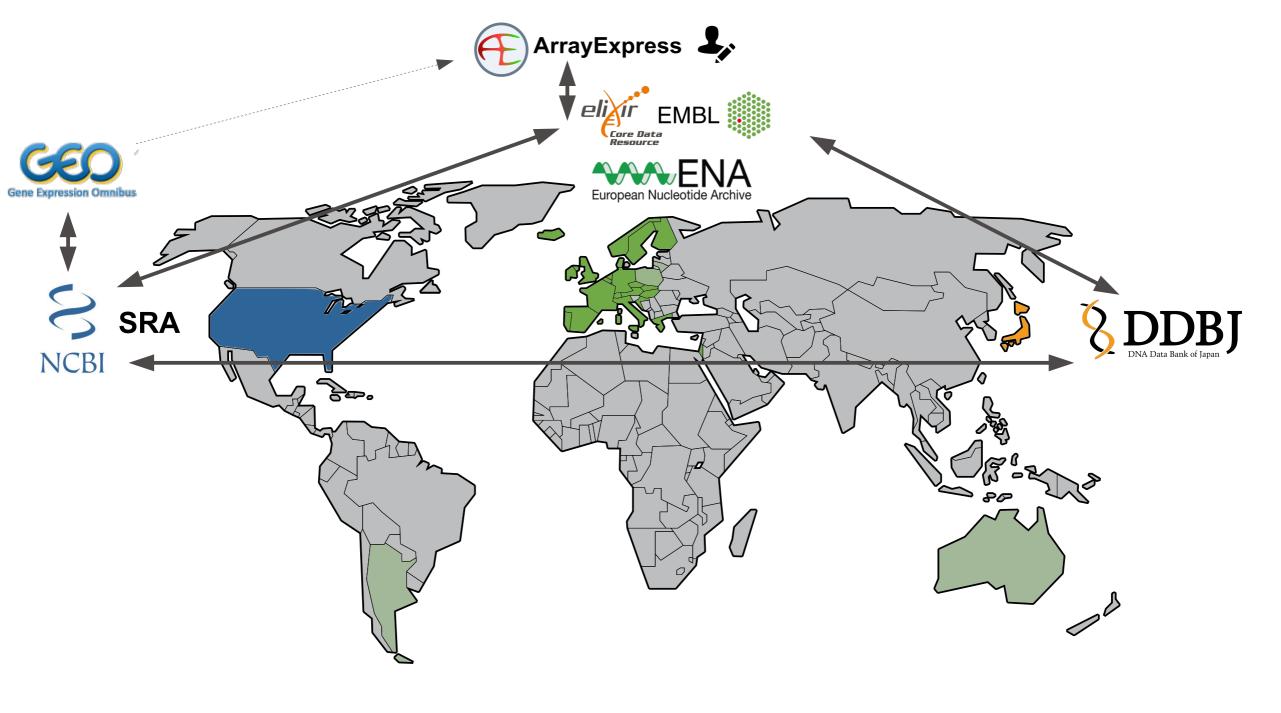


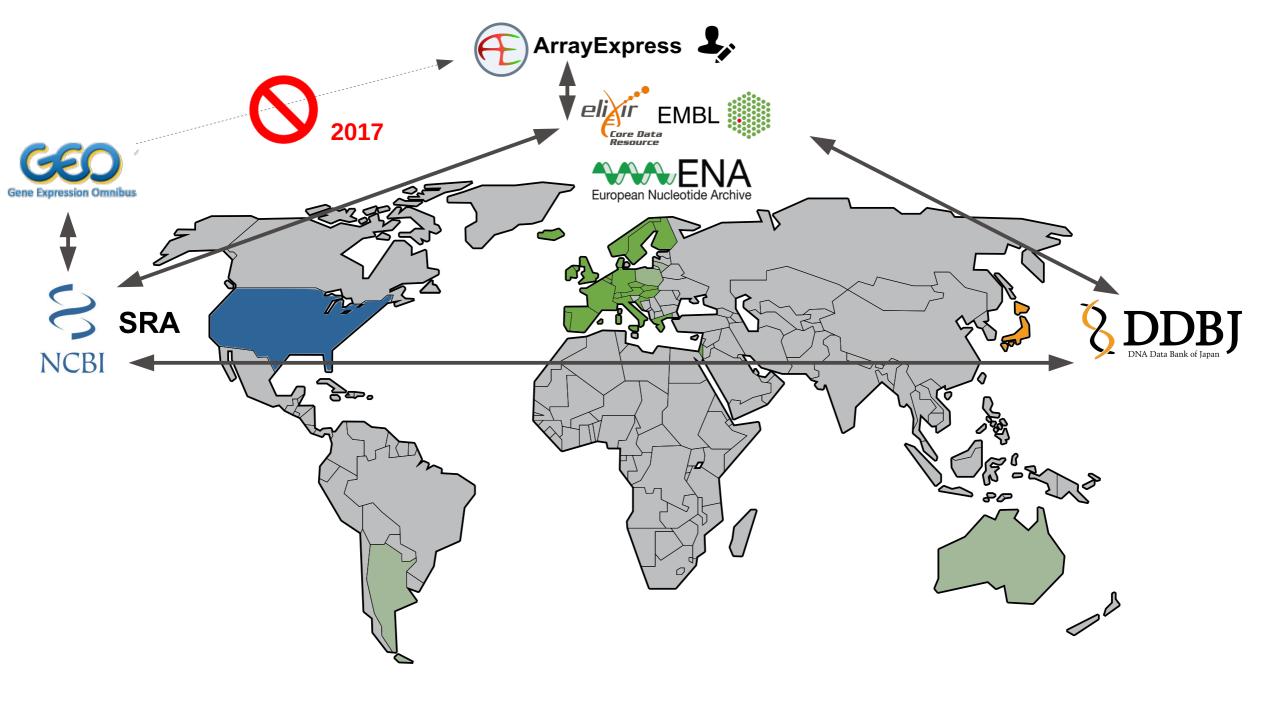










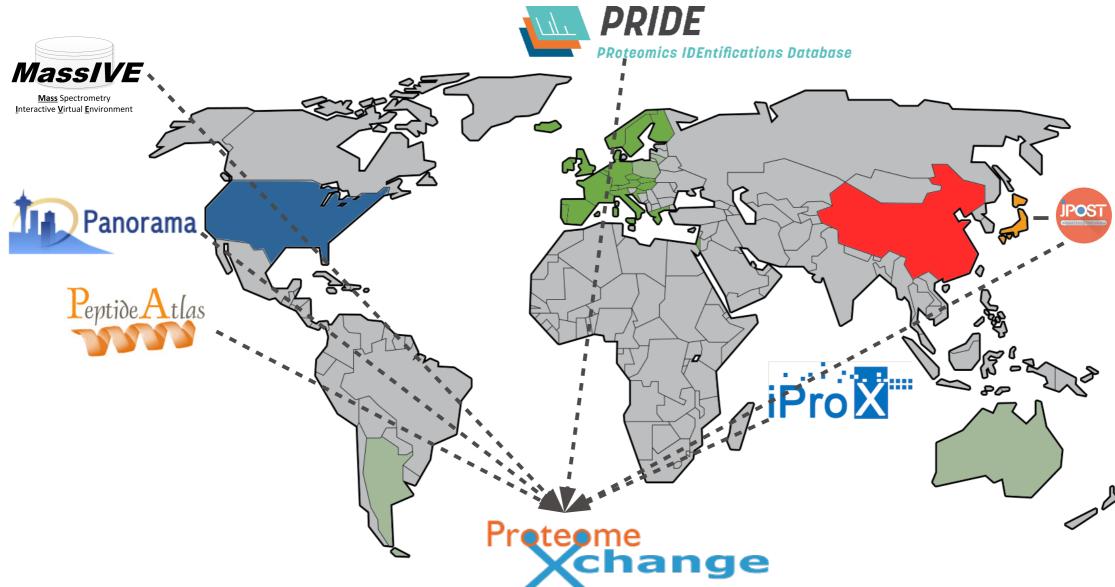












Free of charge



- Free of charge
- Quick upload (Aspera)



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- Not operated by single university/government



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- Guided submission process









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Generous embargo regulation (2yrs → )



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- Generous embargo regulation (2yrs → )
- API access (upload from NeLS planned)

Resource





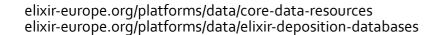














































































#### NIRD archive

#### **NIRD** RESEARCH DATA ARCHIVE



National, free depositing repository

Domain agnostic

**Dublin-core metadata standard** 

**DOI** accessible

Supports machine readable metadata harvesting

#### Generic archives







Less standard metadata → Re-usability

Domain agnostic → Finability

Guided submission process

Commercial actors: Size limitations, ...

#### What about sensitive data?



Central metadata accessibility

Secure storage

Implemented data access committees

Local EGA in development





#### **NSD** archive



Domain agnostic

**DOI** accessible

Implemented data access committees



