

Managed Database

Pierre Chanial, EGO



Why?



Access to all European research data
Access to world-class data services
Clear rules of use and service provision
FAIR data tools, training and standards
Sustainable after the grant

Why?

- Databases provide space to store and **index** user data
 - To do further analysis
 - Easy to be combined with other data sources through the data lingua franca: SQL
 - Cross-fertilization: new science
- But database admin takes a lot of time
 - Setting up, backups, redundancy



ESAP-DB data model



SELECT did FROM `project_id.dataset_id.table_id` WHERE metadata='xyz' ex: 'escape_datalake' Rucio's Scope Rucio's Dataset or Container

ESAP-DB stack

- Back-end (docker-compose):
 - ESAP-DB: FastAPI / Gunicorn (uvicorn)
 - DB admin (postgresql 12)
 - 2 x DB projects (postgresql 12)
 - PGAdmin
 - soon: Celery & Flower
- ESAP-DB client (Python)



If you want to go fast, go alone If you want to go far, go together