## System Development Architecture

Sergi Blanco-Cuaresma and the ADS Team

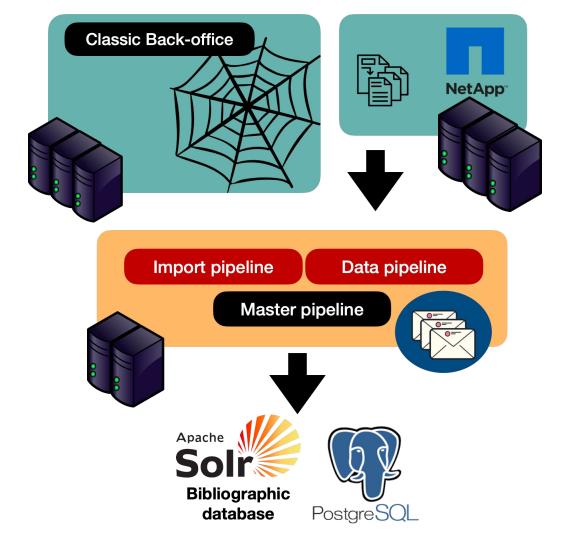
ADS Users Group Meeting, 9-10 Nov. 2022







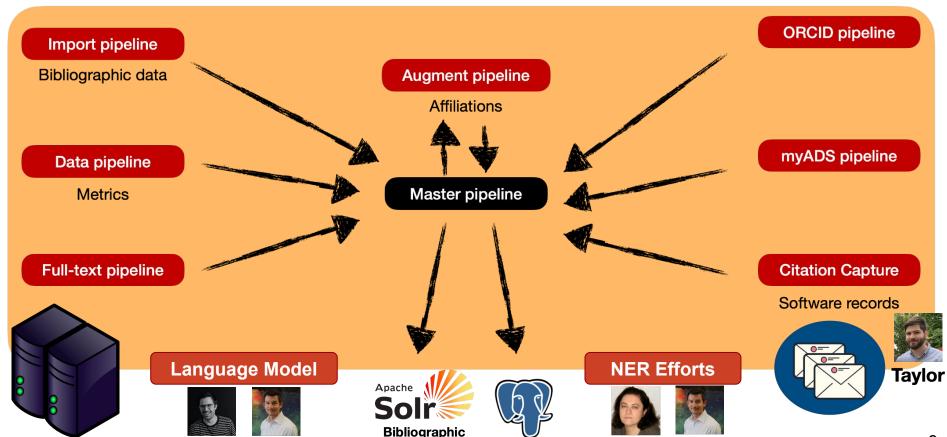
# Back-Office Overview



### Python-based pipelines overview

**Félix** 

Tom



database

PostgreSQL

**Golnaz Tom** 

Microservices **Overview** 





Harbour

Resolver gateway



**Author** affiliation

**Biblib** 

**Metrics** 

Solr service









Tim **Jennifer** 

kubernetes

Citation helper

**Export** 

**Graphics** 

**Oracle** 

**Object** 

Orcid

Resolver service

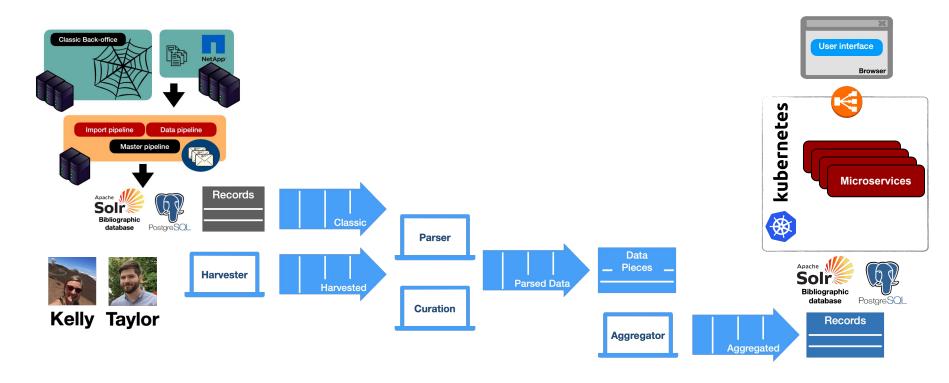
**Tugboat** 

Vault

Core

Reference

#### **Future Event-driven Architecture**



#### **Summary**

- Work completed
  - Designed an incremental plan to migrate to a new architecture
  - Progress in multiple fronts to replace old components such as:
    - Refactored UI / Scan Explorer
    - Document matching / Reference extraction / ...
- Work ahead
  - Experiment with new technologies for the new architecture
    - gRPC
    - Kafka
  - Continue replacing classic pieces and plug them into the new architecture
  - Replace main obsolete API component (adsws)