

# Be FAIR to Pedestrian Dynamics Data

Maik Boltes, Alica Kandler and Tobias Schrödter



## Motivation

- F**indable: Detailed description by metadata in a searchable environment
- A**ccessible: Easy access to data and saved in a long-term storage
- I**nteroperable: Use of exchangeable formats functioning across different systems
- R**eusable: Metadata includes process of data creation for easy reproduction of data

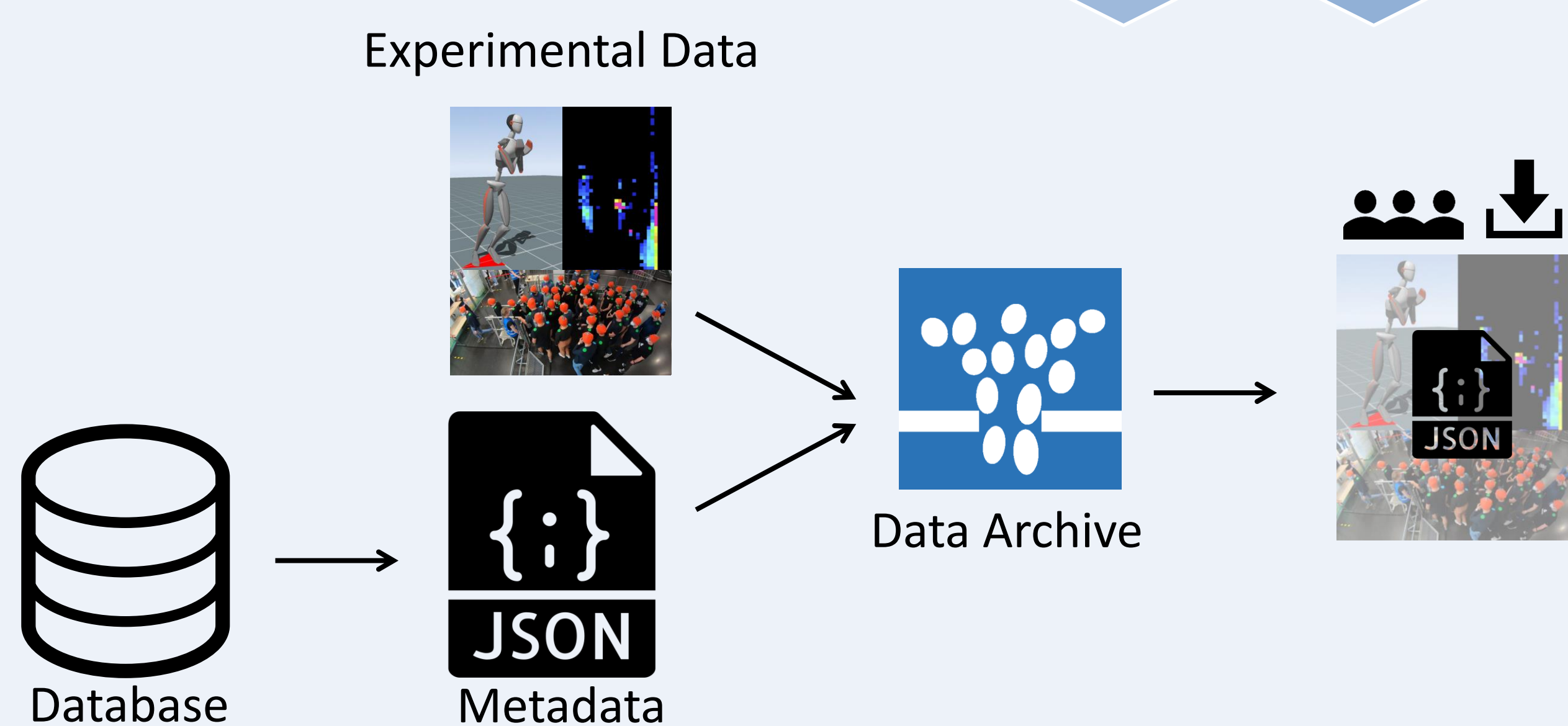
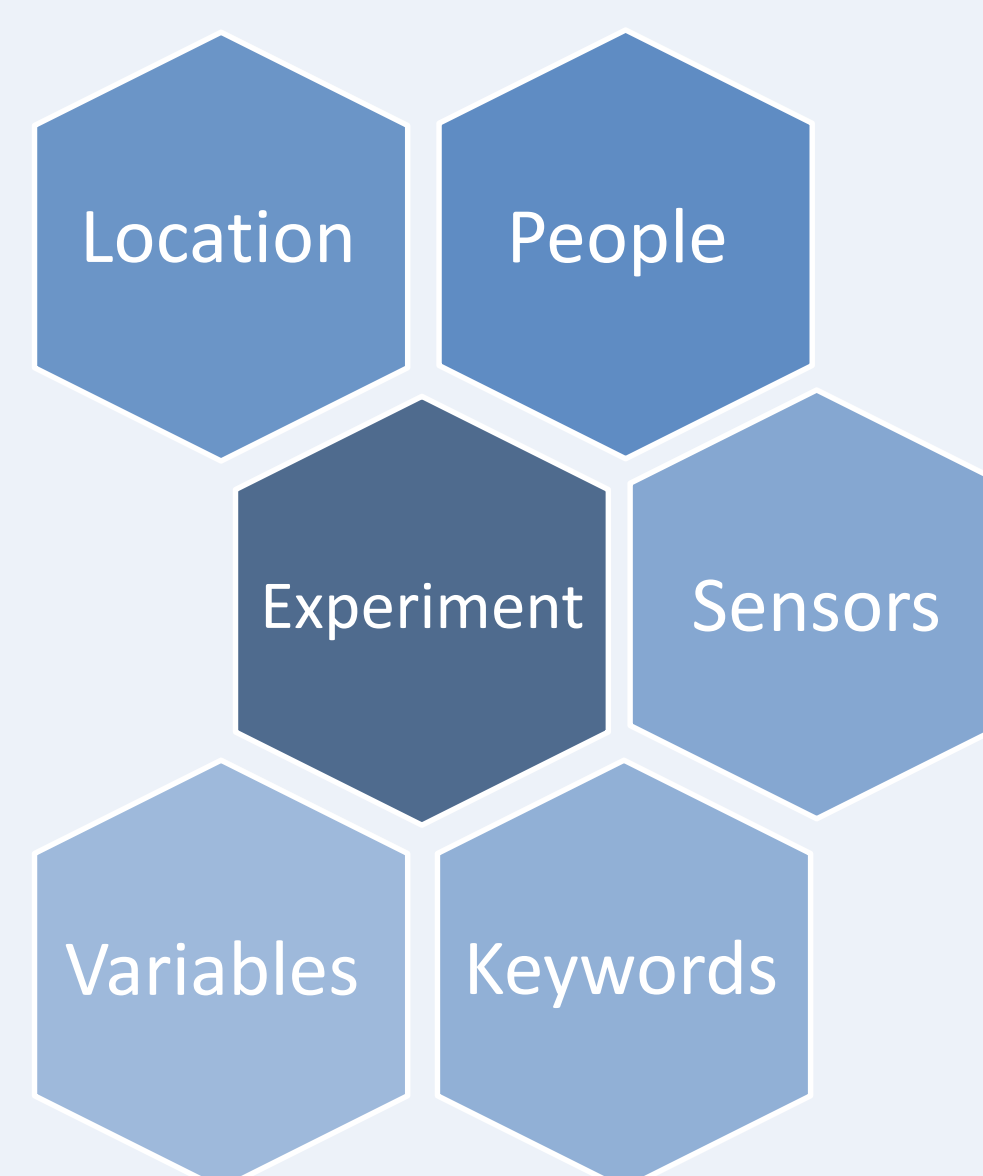
- Design of standardized metadata schema
- Definition and unification of trajectory and geometry data based on established data formats
- Enrich datasets of existing open data archive with metadata and uniformed data
- Build up consistent documentation
- Establish community metadata schema and data format



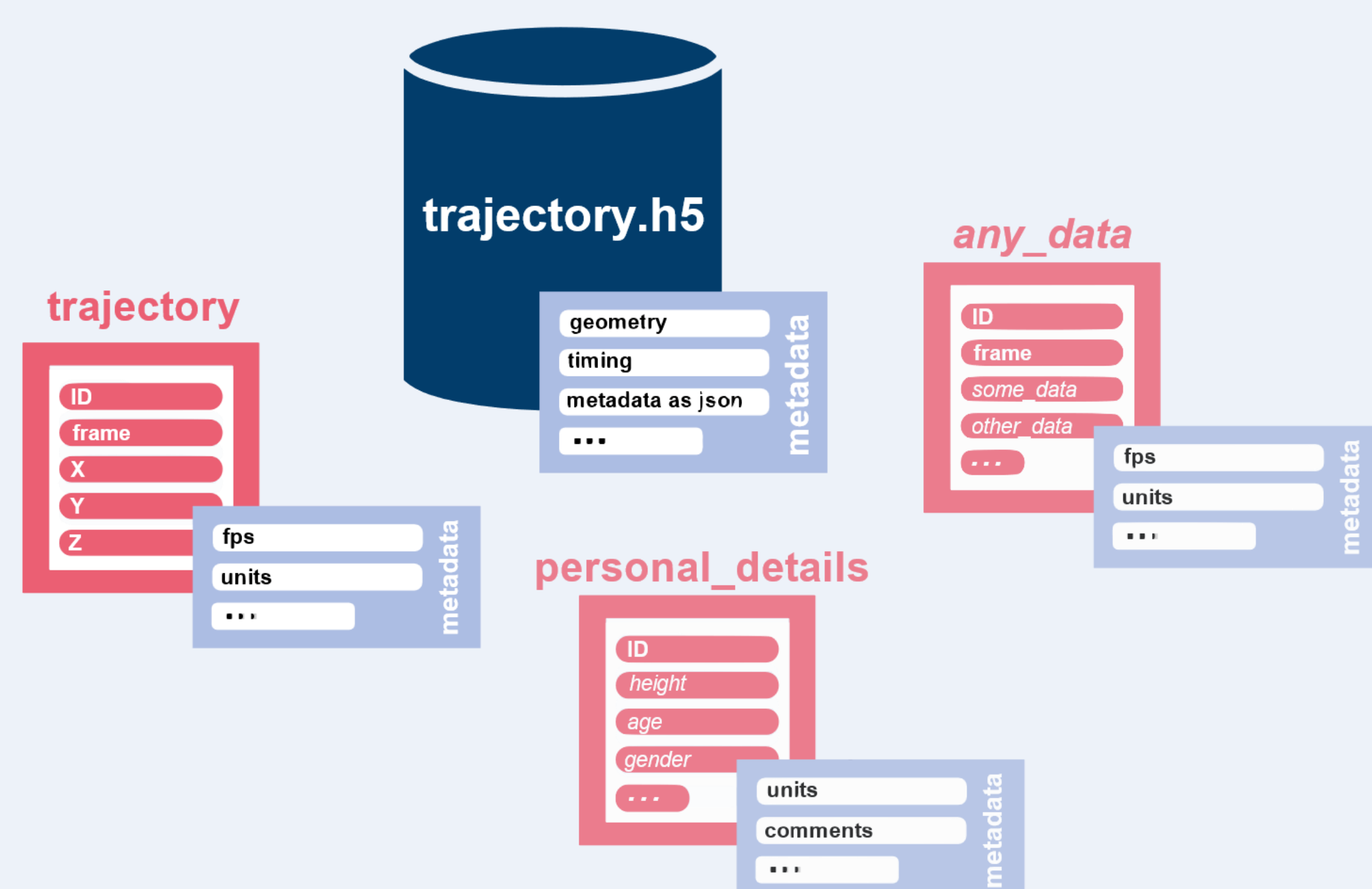
Pedestrian Dynamics Data Archive

## Metadata

- Central database describing all experiments
- Provision by JSON file with essential information
- Available alongside experimental data

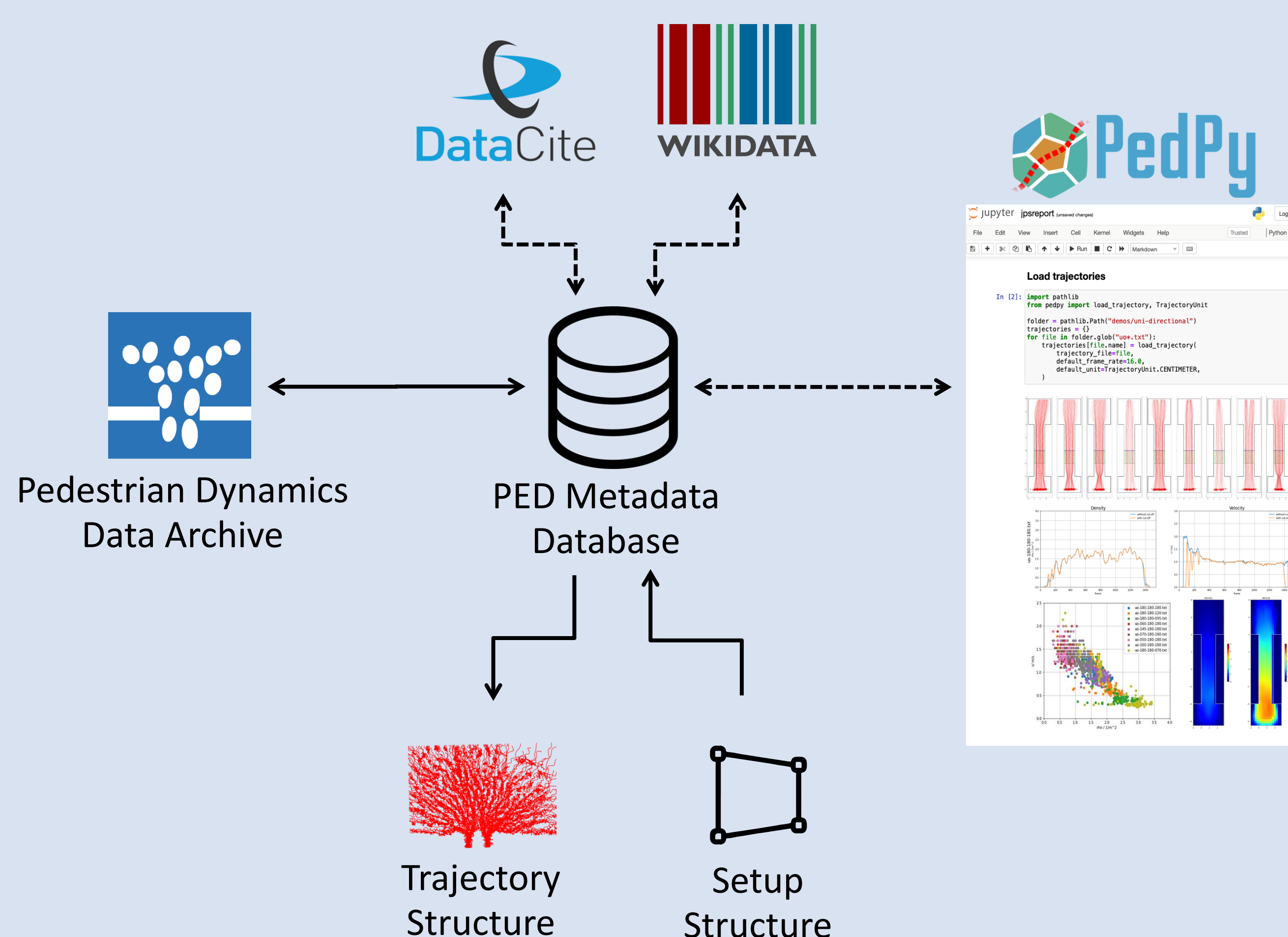


## Trajectory Format



- Based on HDF5 as an established data format
- Enriched with related metadata including standardized geometry and timing
- Unification of trajectories within data archive

## Future Work



- Metadata exchange with repositories like DataCite or WIKIDATA
- Direct access to data via metadata e.g., for analysis
- Keep on reprocessing all of our legacy data
- Reprocessing of hosted external data



Single-file motion of pupils



Forward propagation of a push

