

## Design of a Local TRE for Processing of Patient Records

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# Background



- ► Thomas Arildsen signal processing engineer with a researcher and lecturer background.
- ▶ I work at a research support unit called CLAAUDIA at Aalborg University, Denmark.
- ▶ We provide IT infrastructure, consultancy, and guidance on data management, data science, scientific computing etc.

#### The need for a trusted research environment



- ► Research project 2020-2021: Articial Intelligence for Quality Improvement in General Practice.
- ► Initial project to facilitate transfer of highly sensitive, complete medical records from primary sector to university for research (algorithm development).
- ► No previous examples of handing over such extensive sensitive data out of primary sector.
- ▶ Need for a secure platform for storage and processing of data.

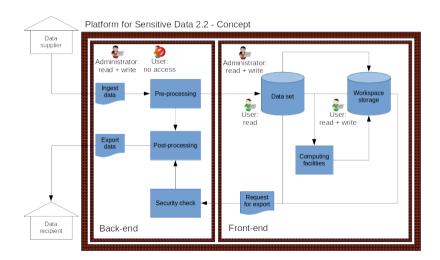
### How did we go about it?



- ▶ We found no existiing, ready-to-deploy platform solutions.
- ▶ Decided to build our own.
- ▶ Used the "researcher service" at Statistics Denmark as inspirational model for our platform.
- ► A "data jail" as I like to call it.

## Design of the platform





## Alternative design (not used)



