







FUS data management

Welzel, Paschen & Hansen, 2022

Type of data

	label	origin	storage destination
	Demographic	Clinical IT (OLAT) / Questionnaire	RedCap
	General clinical	Clinical IT (OLAT) / Interview	RedCap
	MRI	Clinical system	XNAT
	Questionnaire/ Neuropsychology	Clinical assessment	Clinical IT (OLAT)/ RedCap
	Movement analysis	Sensor system	Disk
	EEG	EEG recording computer	Disk

Proposed format

RedCap

XNAT

Clinical IT (OLAT)

Disk



```
— README
— dataset_description.json
— participants.json
— participants.tsv
— sub-01\
  └─ eeg\
  └─ mri\
  └─ motion\
— sub-02\
  └─ eeg\
  └─ motion\
  └─ ...
```

BIDS

- Storage system of raw-data and metadata in the same location
- Specification per entity (MRI, PET, EEG, genetics, motion, ...)
- Online documentation and widely accepted (+2000 citation since 2016)
- Big set of application (Validator, High Performance Computing, ...)
- Research steering committee and company independent

Research output

- MRI & EEG most popular toolboxes support BIDS for data import
- Clinical & behavioral data is stored in UTF-8 table formats which can be utilized with common statistical programs (R, SPSS, Python, ...)
- Motion data requires self written analysis scripts (Currently adapted to BIDS format)