# How the data piepline works

- The user changes parameters -> new data needs to be loaded
- Timestmap is too old (threshold needed) -> new data needs to be loaded
- User can specify "getNEWdata" to refresh the cached data for these parameters
- every hour or so the cache is "filtered" -> too old data will get deleted
- · A list of opened modules is gathered
  - The server requests data for ALL procedures and calculates ALL visual structures for ALL available modules
  - BUT
    - At first only data for opened modules is requested
    - The data will be parsed
  - After that
    - all open data requests will be done
    - and the data for not yet opened modules will be parsed

### GENERAL

- procedures get called only once
- all data (and parsed data) will be cached
- if a modules is opened -> the data will be requested from the client to the server
  - the server already has the parsed data and sends it to the client!

#### FILTERS

• filters just filter the data on the client-side

### IMPLEMENTATION

- what is needed?
  - cache, that caches raw data
  - cache, that caches parsed data
  - cache, that caches vis data
  - list of all procedures used in all modules (closed and open!)
  - list of all parse- und vis-functions for all modules (closed and open!)

## anderes

- Freeze Funktion -> Module beliebig oft öffnenbar -> können eingefroren werden = no data updates
- aber Problem: sie sind im Weg -> sie k\u00f6nnen gespeichert werden -> export der VISDATEN im Modul +
  Modulname -> \u00fcber Button kann gespeichertes Modul reingeladen werden = import