Calibration Software

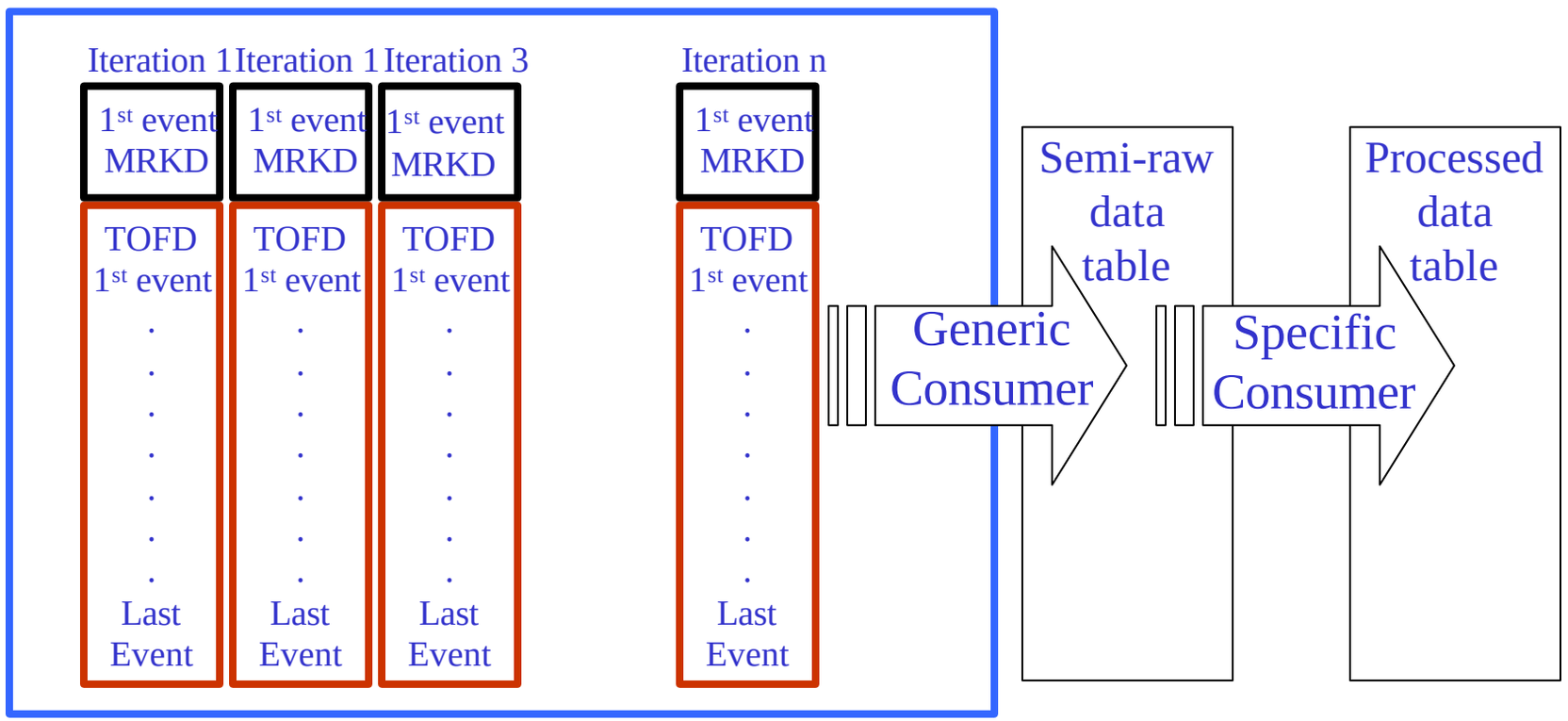
- Goals:
  - What is current the status?
  - What is left to do?
  - New task assignment.
  - Short term plans.
  - Long term plans.

Online and offline...

- Online code produces readout banks
  - Raw data banks ⇒ D-Mode Calibrations.
  - Special banks ⇒ X-Mode Calibrations.
  - Readout banks processed by the calibration consumers and the results are transferred to the database.
- Dedicated data samples processed by the offline software and results to database

D-Mode data flow and processing

- Out of D-Mode calibration run there are several MKRD bank and TOFD bank in a single file



Task List

1. Calibration Consumers
   - TOFQie and Qie pedestals consumer
   - Generic D-Mode consumer (TAC, laser)
     - table definitions (algorithm definition).
2. Calibration Database
   - Current Database Status
   - DB-offline reconstruction interface
     - What tables are needed.
   - DB-offline calibration interface
     - What tables are needed.
   - Testing the calibration ->database -> production path

Offline Calibrations and corrections

1. Offline Corrections.
   - Row data corrections (Pedestal and TDC to Time)

     Algorithm definition $\Rightarrow$ consumer implementation $\Rightarrow$ offline reco.
2. Offline calibrations.
   - Effective speed of light (needed for production)
   - Attenuation length
   - Bar positions (needed for production)
   - Time Walk correction (needed for production?)
   - Channel-to-channel time offset (needed for production?)
3. Validation on data samples