Reconstruction passes in ALICE

original computing model

```
data taking
   ↓
online calibr.
   ↓
immediate pass 1 reco of entire stat.
```

current implementation

```
data taking
   ↓
online calibr.
   ↓
pass 0 calibration
   ↓
reco of entire stat.
```

possible extension

```
data taking
   ↓
online calibr.
   ↓
pass 0 calibration
   ↓
reco of a small subset of stat.
   ↓
monitoring + QA (PWG1) train + user's analysis
   ↓
reco of entire stat.
```

n iterations

if minimum quality is **not** fulfilled
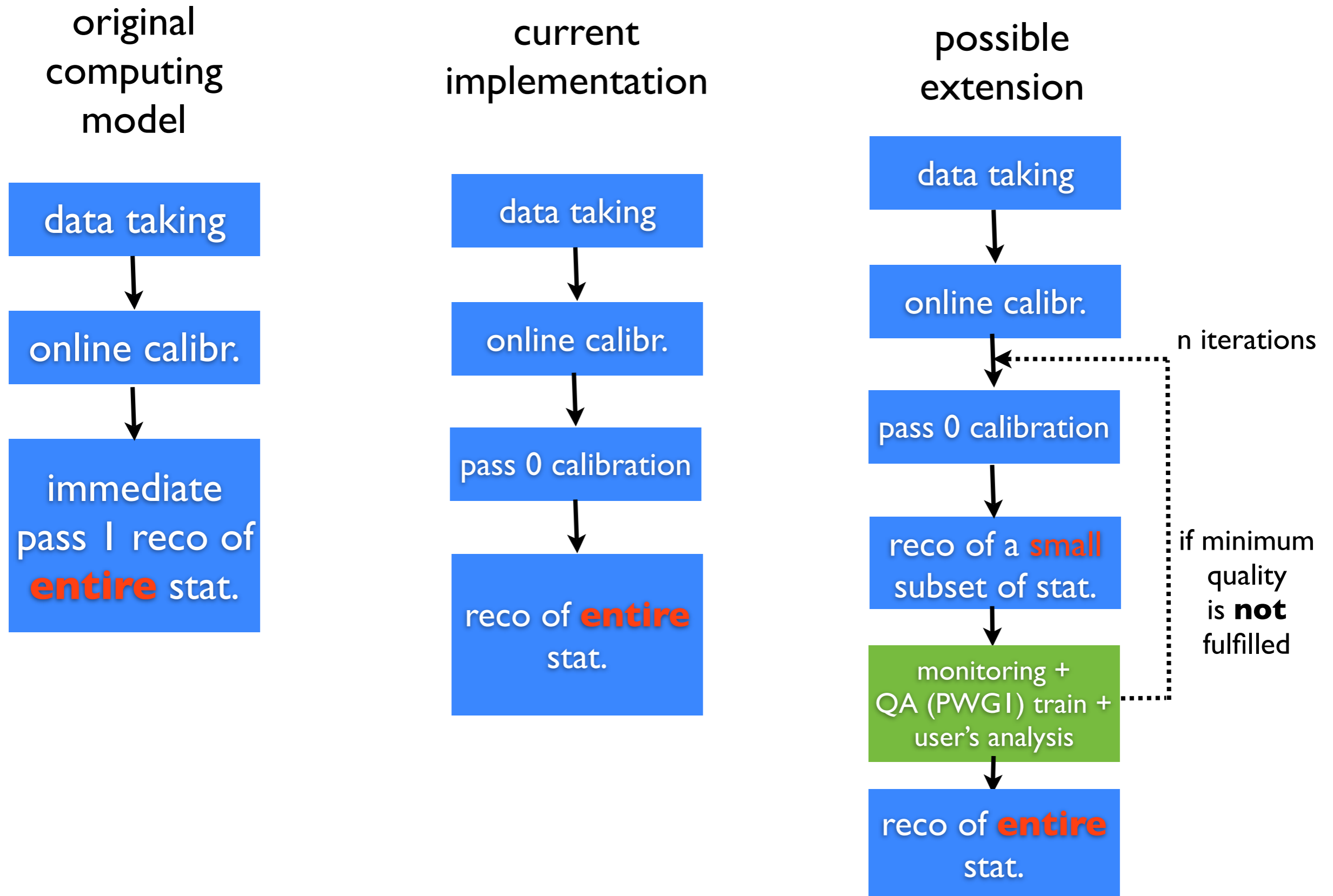
Summary

- Reconstruction of a small subset of events should be run very often and centrally for monitoring of:

    - reconstruction performance (PWG1 train + any user analysis), especially after changes in the reconstruction code and OCDB

    - memory consumption and CPU time

- Ideally, this subset of events contains already flagged events for calibration and rare physics observables (e.g. by HLT and separate DAQ streams).

- The assessment of the quality of the regular reconstructions can be done in the QA meeting. A fully automatic extraction of standard plots from the PWG1 train would be necessary.

- The reconstruction of pass0 and the small subset can be done on the same raw data files which should be fast accessible. The jobs could run at Tier0.

- As soon as the minimal physics requirements are fulfilled, the reconstruction of the entire data set can start and be run also at Tier1 centers.