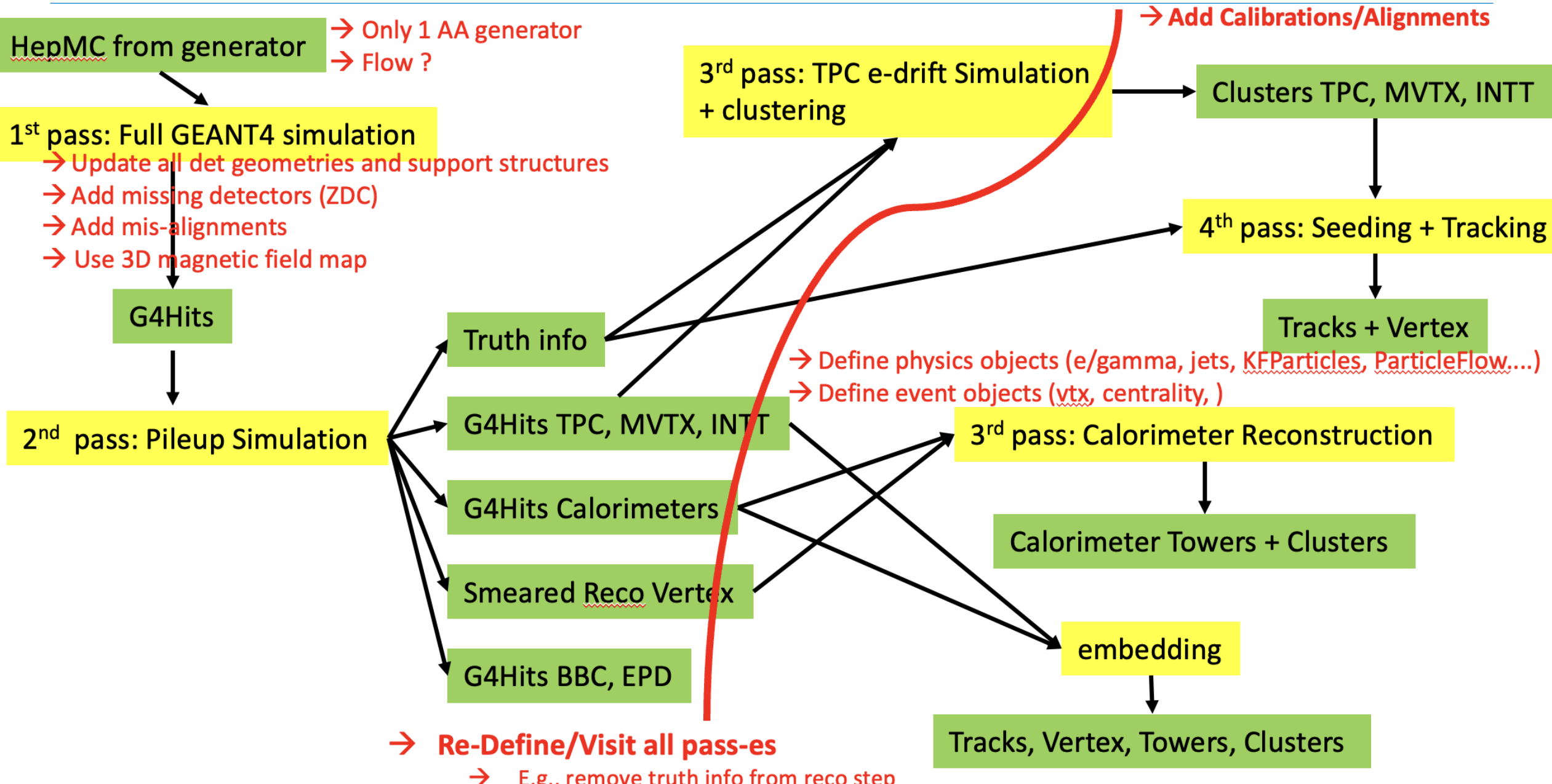


sPHENIX status

MDC2 Recap

- Planning on having 150 nodes with final configuration
 - 4GB/core
 - Local ssd's
 - 7% of 2025 total
 - Likely not available in time
- Production of large samples of simulations for analysis and testing
 - Many (10) months enterprise
 - Starts as soon as GEANT4 description of sPHENIX is ready
 - Multiple steps, tracking/calorimeter reco can be re-run if needed
- Workflow development
 - Offline event builder commissioning
 - Scale testing of PanDa (after move to BNL instance) and conditions DB
 - Realistic testing of I/O
 - Code speed and memory footprint testing/improvement
 - Calibration procedures (extraction and application)
 - Reco Objects/output content (10PB/a disk space)

MDC2: Major progress in reconstruction (no more truth info)



PanDa

<https://chat.sdcc.bnl.gov/npps/channels/distributed-software>

- Sdcc will help getting PanDa services to run on OKD cluster
 - Should take care of cyber issues with sudo access for non BNL employees
 - Unclear if there are other issues
 - Will not be ready for start of MDC2, we will use the CERN instance
- Tried to revive my PanDa submission from my desktop so I could show something
 - It still works but got an error from the server side

(0, 'ERROR : token-based authentication failed on the server side with invalid member in panda_dev')

ERROR : token-based authentication failed on the server side with invalid member in panda_dev

(255, 'ERROR : token-based authentication failed on the server side with invalid member in panda_dev\ninsertTaskParams failed : loads() takes no keyword arguments')

- – maybe it is fixed when I show this
- Todo (by me)
 - Enable submission to the sPHENIX queue instead of OSG
 - Our jobs are suitable for submission by PanDa – as soon as I learn how to pass parameters we can basically use it

PanDa Monitoring

- Not only monitoring the workflow itself
 - Memory usage
 - Reconstruction time (including separation by components)
 - Parsing log or read records from DB
 - Identify failures and get the logs (easily)

