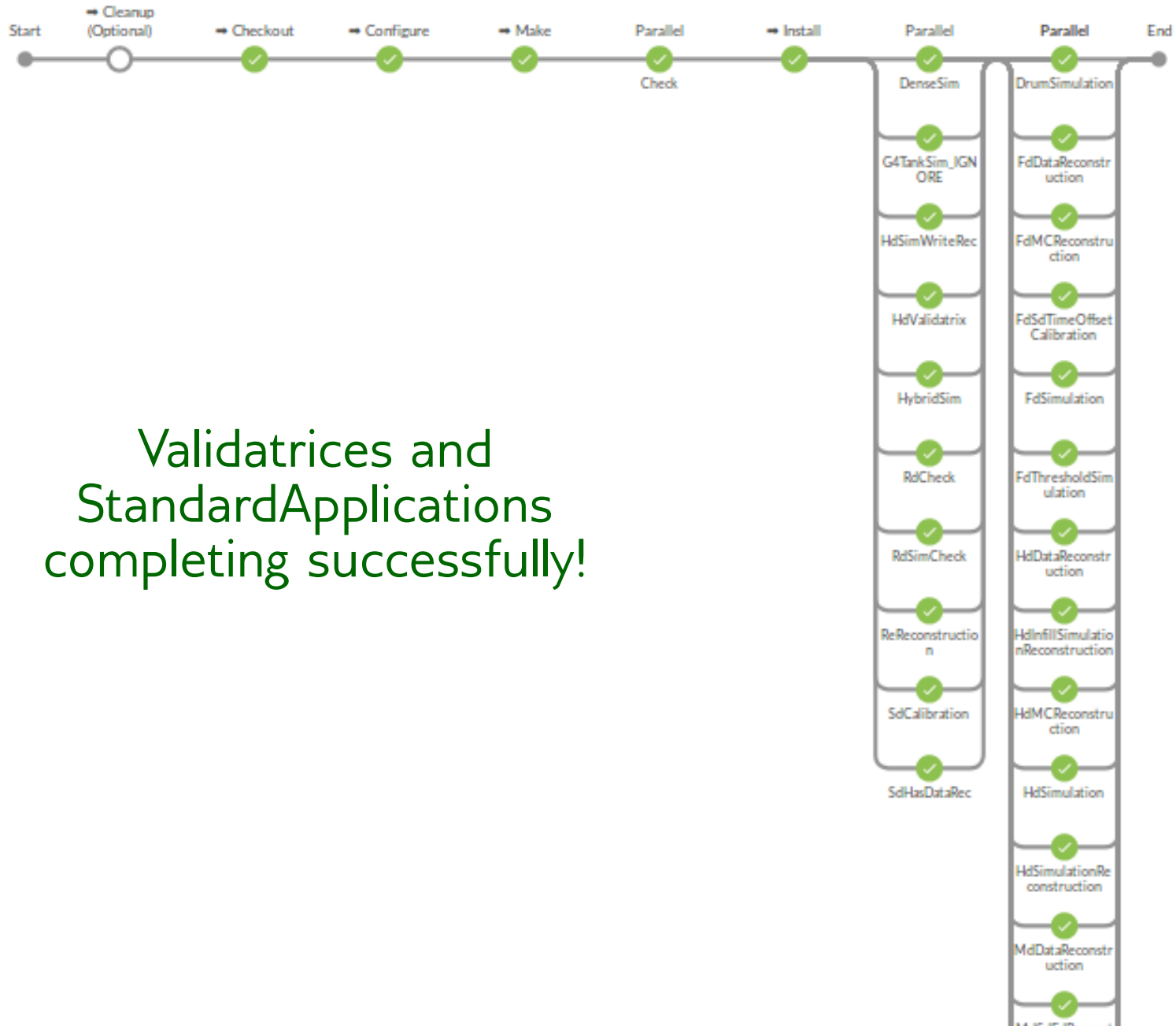# Offline workshop
Summary

Jenkins

Validatrices and
StandardApplications
completing successfully!

SD

Data access/analysis:

- Update on what's available in local station / CDAS
- Discussed method for analysis of EA data in Offline
  - EA module and SdUpgradeDataReconstruction application shortly!
- SDetector can be overridden by what's seen in CDAS event
- Seen small PMT traces in Offline!

Open questions:
- What calibration variables do we need?
- Implementation of small PMT calibration values and histogram fitting methods

Reconstruction

Discussion and opened line of communication regarding calibration of signals

SD

Simulation

- Progress on resolving Geant4 photon-killing bug (some outstanding quirks to address)
- Photon killing implemented for support of PMTs with different QEs
- Small PMT (and other PMT) calibration application updated for fast calibration of simulations
- Discussion of how trace types and summing rules should be implemented to make sure components add to total in future

To do:
- Implement trace sum rules
- Implementation of small PMT calibration values and histogram fitting methods
- Ensure proper handling of double and integer traces
- Etc.

We're now just a few clean-up steps away from proper simulation application for all upgrade hardware!

MD

Clearly defined the need for working simulations and StandardApplications

Agreed on code implementation to incorporate MD back into main simulations development track

RD/Externals/etc.

Root6 in version of externals, changes required to work with Offline
- Errors with dictionary reading observed
- Not expected to be working as default option for ICRC release

Multiple users on mac…

ICRC
- Most likely will need new tag/branch from trunk (too many changes since prior branch)
- Reading old Offline files likely won't work
- Discussion with analysis leaders about when to make tag/branch

Radio
- Extend AERA infrastructure to cope with upgrade or new simplified infrastructure (one design) to handle full array upgrade.

Regular phone calls (Lukas will call for them)