

Status of the FCC Software

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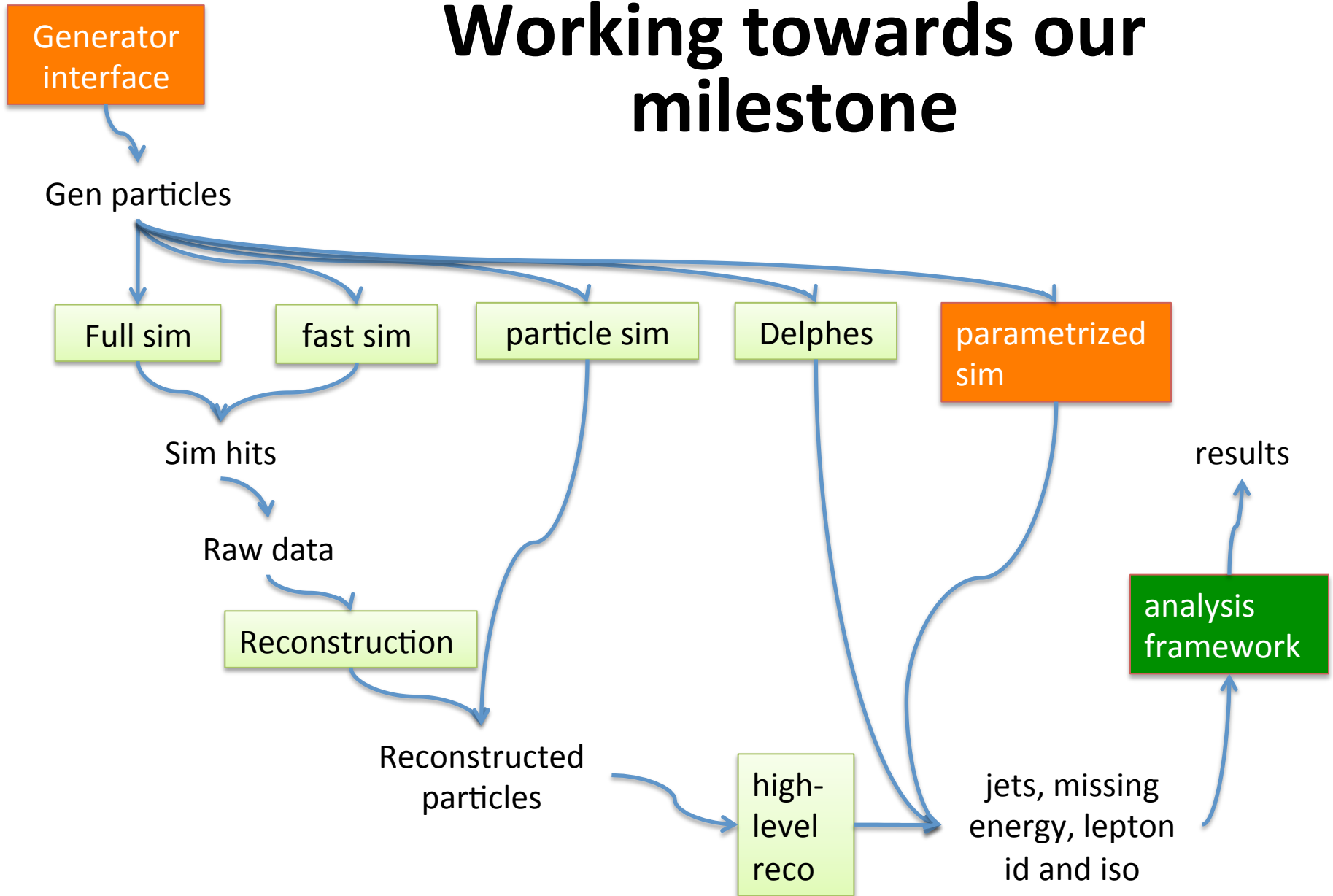
Tutorial Status

- Improved and extended the FCCSW tutorial since the Paris workshop:
 - <https://twiki.cern.ch/twiki/bin/view/FCC/FccSoftware>
 - Thanks for all the feedback and comments
- Repeated the tutorial at CERN a week ago.
- 1 person joined the effort after participating in the tutorial (E. Pilicer).
 - but more people are needed...
- Tutorials will take place **once a month** on a regular basis
 - next one around Dec 15

Recent changes

- Three new volunteers joined recently
 - In a two-month project Lukas Marti is setting up continuous testing to ensure our software (and our tutorial) continue to work
 - Karolos Potamianos joined as librarian to help with the technical integration of our software
 - Improving efficiency and freeing the time of others for development!
 - Ercan Pilicer is working on generator integration, starting with Pythia.
- Infrastructure for central SW distribution (CVMFS) and build (cluster of 50 cores) ready

Working towards our milestone



Working towards our milestone

- Generation
 - Can read HepMC
 - Direct generator interfaces not yet finished
 - Not converged yet on generator particle definition in our EDM
- Simulation
 - Progress on (parameterized) simulation
 - Includes strategy and tools for obtaining the parameters from full simulation
 - Will become part of the tutorial once ready
- Reconstruction
 - Apart from jet reconstruction nothing implemented.
 - More will naturally come once simulation is there
- Analysis
 - Heppy happily running
 - Need more helper tools on our I/O format
- Usability
 - Need to extend documentation and simplify the setup

Computing stays a concern

- No work done on submission scripts, sample management and production tools
- Only little work done on resource allocation and negotiation

Not urgent yet, but may end up on the critical path ...

- Framework
 - Core event data model, Gaudi integration, Software stack

Bernet, Hegner, Potamianos



- Generators
 - Integration

Pilicer



- Simulation infrastructure
 - Geant-4 (fast & full)
 - Delphes integration

Carminati, Dell'aqua, Hrdinka, Salzburger, Williams, Zaborowska (Convener: Ribon)



Hegner, **People needed**



- Reconstruction

People needed



- Analysis tools
 - python & C++ framework

Bernet



- Validation
 - testing and performance

Marti



- Computing
 - sample production and management

People needed

