

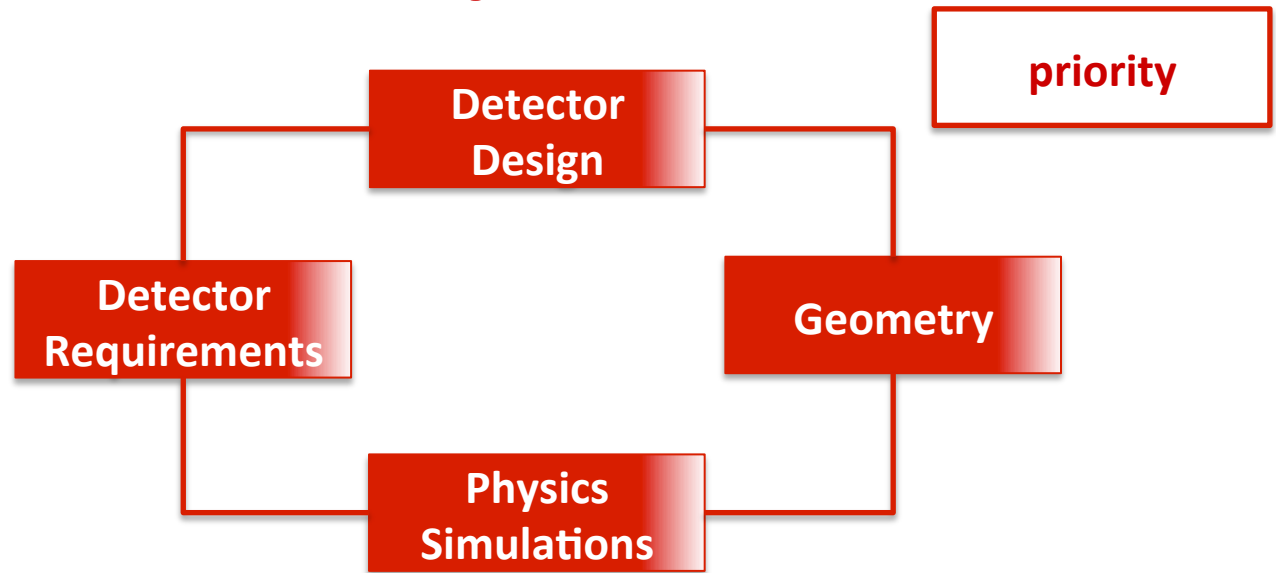
Computing R&D as part of (Detector) R&D

2016

one decade
of software
development

2025

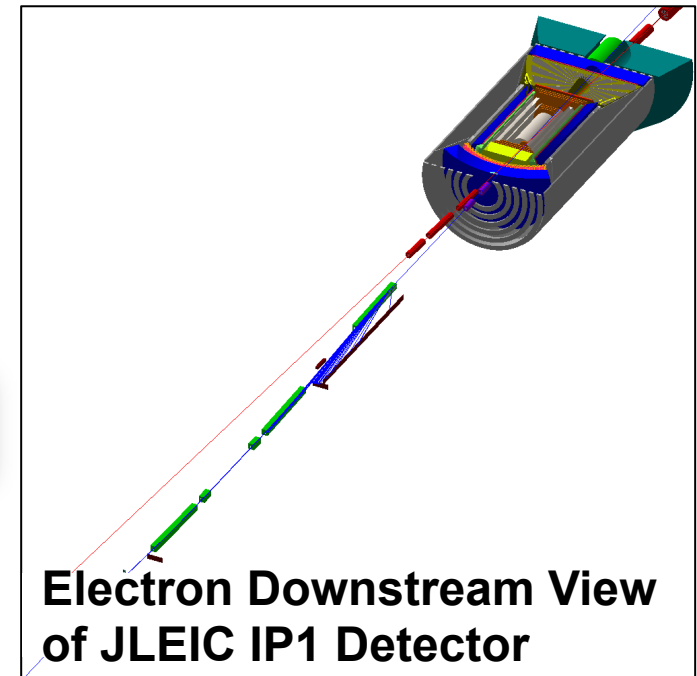
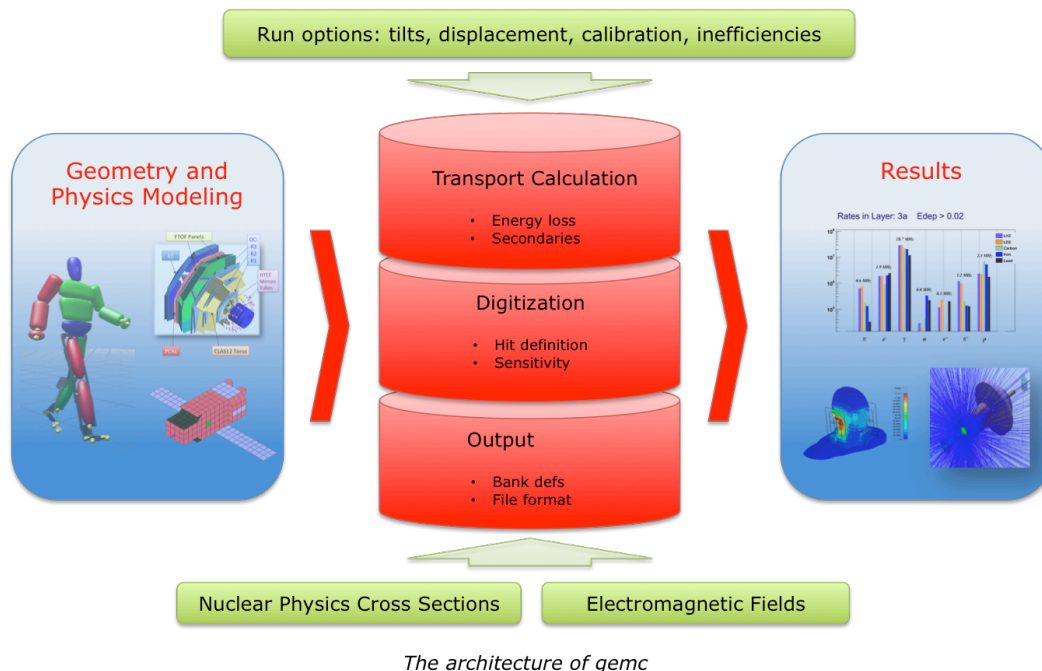
Detector & Physics Simulations:



Online & Offline Framework

JLEIC detector and physics simulations

- **GEMC**: C++ framework for Geant4, developed by Maurizio Ungaro (JLab)
- simulation package for JLab 12 GeV program, fully supported by JLab
- simulation of simple and full featured detectors (including detector responses)
- fast running mode will full detector acceptance for physics simulations
- **Priority**: Workflow for including existing Geant4 detector simulations
- **Priority**: export full geometry information definition for track reconstruction

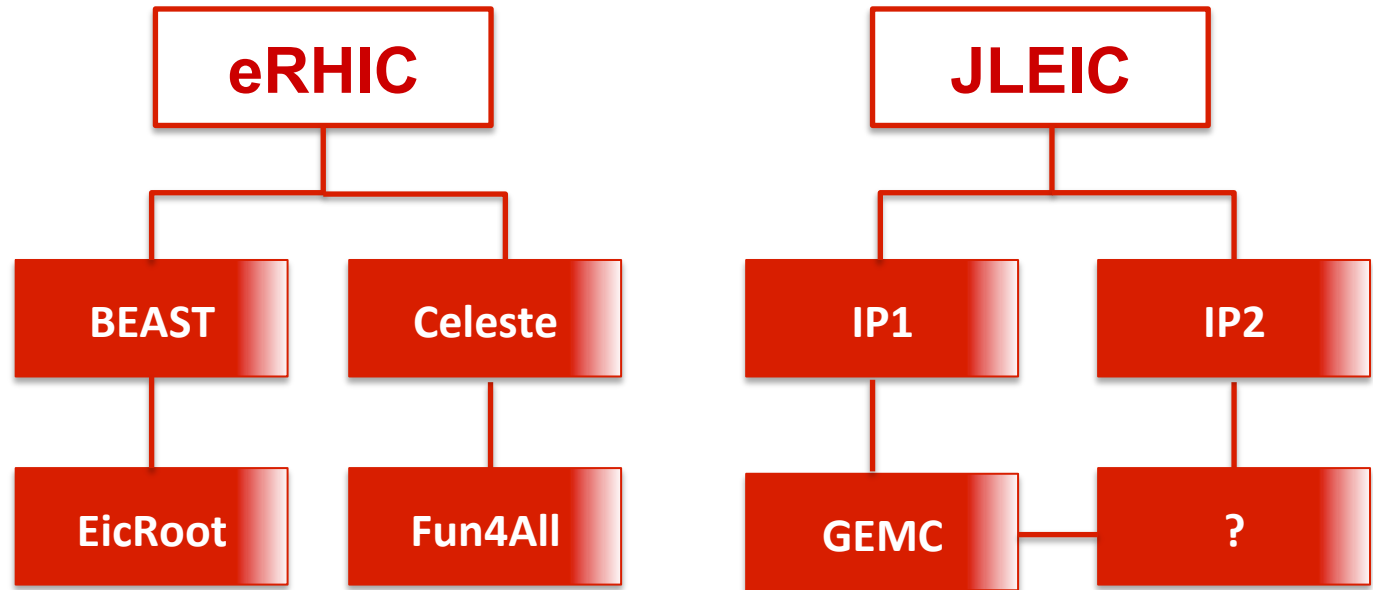


Common Interfaces and Tools

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Work towards common interfaces & tools