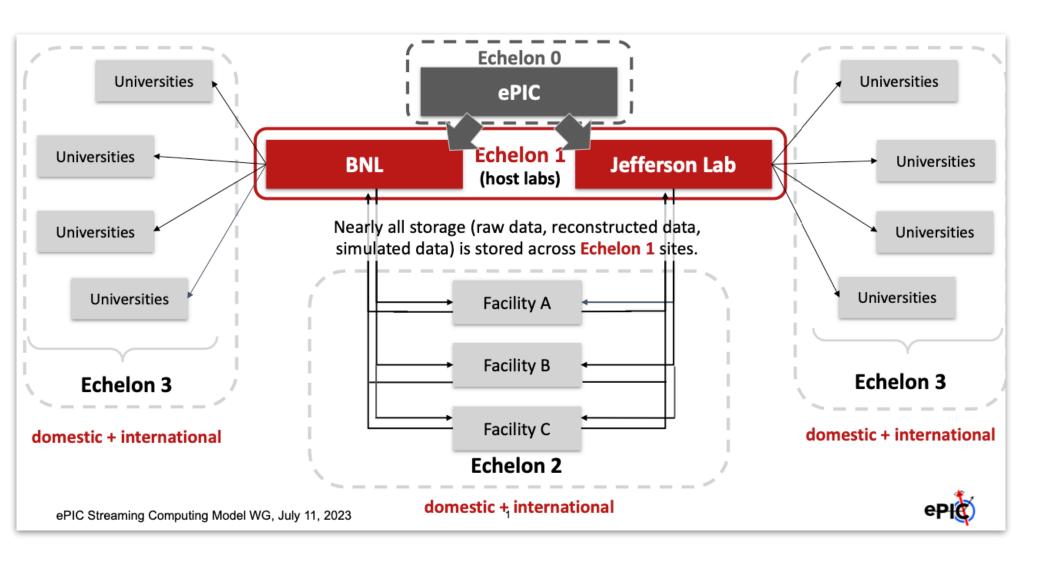
## ePIC Streaming Computing Model Working Group

Meeting - July 18, 2023



Presentation of the ePIC SCM WG

- Butterfly model: detector computing hand in hand (Markus)
- The computing model affects the role of international partners (Pietro)
- SRO to speed up physics analysis (Markus)

## What is this talk about?

- This is not a proposal for a computing model for ePIC. It is a short look at:
  - -What streaming data is in the broadest sense
  - The opportunities and challenges for processing such data
- Outline
  - Definition of streaming data
  - The current dominant data processing model
  - The need for a new approach
  - Data Streaming as a disruptive model
  - Science use cases
  - Computing models
  - Hardware architectures
  - Data steering
  - Summary

- General talk about computing models (not only for hep/np physics) (Graham)
- Real-time data processing is a general issue (with commercial/custom solutions already available!) (Graham)
- SRO is an opportunity to simplify data acquisition (Graham)
- Flexibility to cope with technology evolution (Graham)
- Every DAQ is a streaming system! (Jeff)
- Streaming as a model for the whole analysis pipeline? (Pietro)
- The connection between Physics WGs and Computing Models needs to be tightened (Markus)
- row data and 'events': where to place the separation line? physics? (Jan, Markus, Alexandre, Vardan)



