

# Spokesperson Statement

## *Spokesperson Team:*

Ken Barish (Spokesperson), UC Riverside

Barbara Jacak (Deputy Spokesperson), UC Berkeley

TBN (Deputy Spokesperson)

# Collaborate: Share Opportunities, Goals, and Challenges

- How do nucleons emerge from quarks, gluons, and their interactions?
  - Nucleon spin
  - Nucleon mass
- How do partons interact inside cold dense QCD matter?
  - Nuclear modification of PDF's
  - Physics at high gluon density, saturation (or not...)
  - Energy loss & transport in dense QCD matter

## We get to build a state-of-the-art detector

- High rate & precision
- Capable of multiple simultaneous physics programs

# Goals and Vision (design phase)

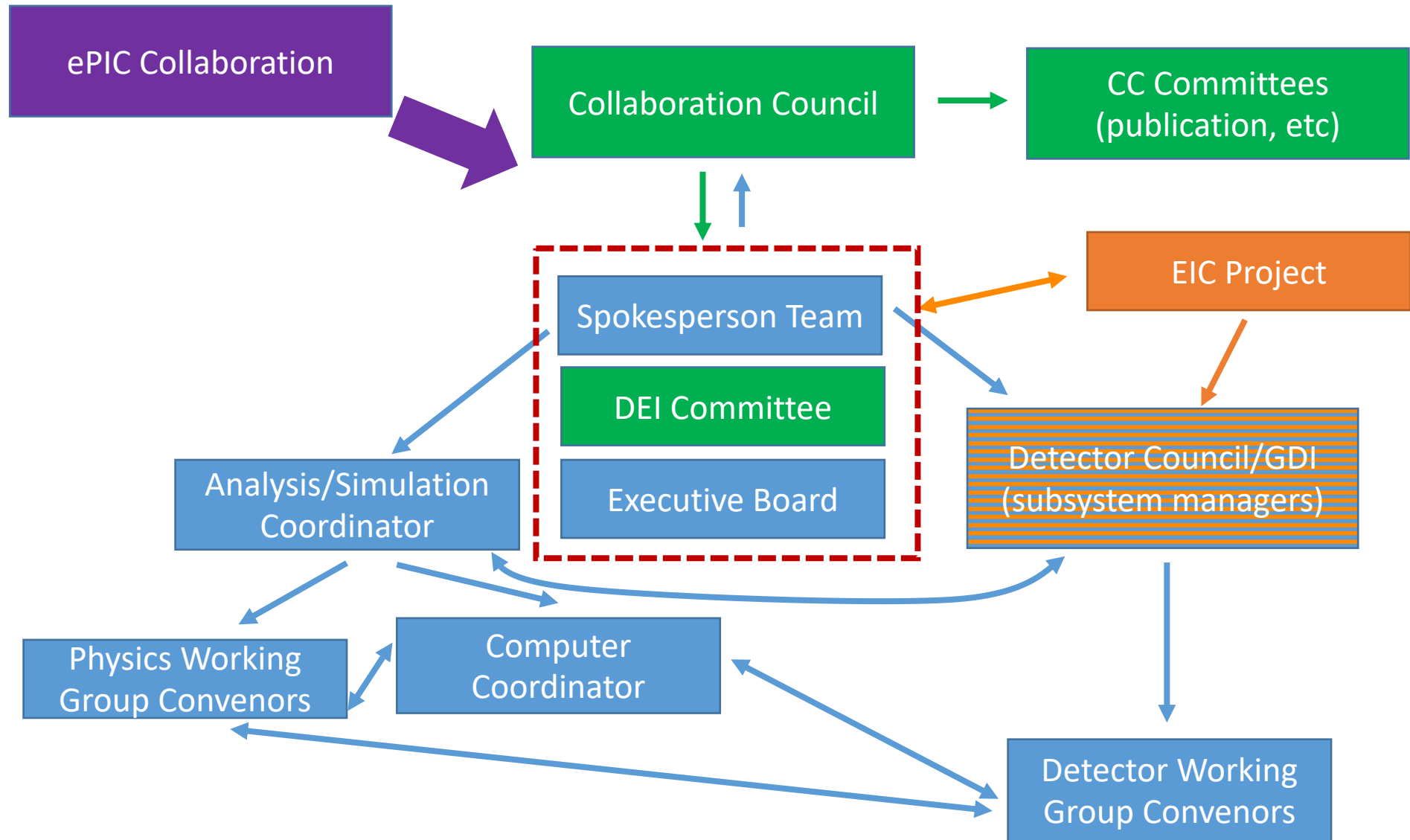
## ➤ Successful Progression to TDR (CD-3A/2/3 Process)

- Design that fits inside the budget without compromising the key performance parameters
- Performance studies to demonstrate performance at very quantitative level
- Demonstrate strength & organization to pull it off

## ➤ Pre-requisites

- Welcoming, inclusive, and transparent environment.
- Scientific outreach to expand the science and collaboration.
  - Engage the heavy ion community more actively (Many-body QCD is key. Complex, interesting, not understood. HI physicists bring experience to EIC.)
  - High Energy community: evaluate targeted measurements interesting to low energy QCD physicists, high-energy physics community (EIC in Snowmass 2021)
- Fully integrate collaboration and project.
- Physics performance must drive decisions. Tools must be in place to make informed decisions.
- Development and promotion of early career scientists.
- Continual formal and informal input from CC and Collaboration.

# Proposed Org Chart (initial phase)



# Committees and Groups

## ➤ Detector/Technical Council (Proposed)

- Responsibilities & structure of leadership to be decided jointly with the project.
- Proposal:
  - Project manager + physics lead for each detector subsystem
  - Directly overseen by the spokesperson team and project management
- Sub-detector working groups within its structure.

## • Analysis/Simulation Coordinator (Proposed)

- Physics working groups and software coordinator within its structure.

## ➤ Grant Support Team (Proposed)

- Range of members with a variety of funding agency experience.
- Advise and provide feedback
- Particularly valuable to early career scientists and scientists transitioning into EIC science from another field.

# Selected Biography (Ken)

## ➤ Academic history

- UC Santa Cruz (BA), Yale U (MS, M.Phil, PhD)
- UCLA (postdoc), UC Riverside (Professor)

## ➤ Physics background: RHIC Cold QCD, Heavy-Ion

- L3 (CERN), E864 (BNL), PHENIX (BNL), STAR (BNL)
- PHENIX central arm (DOE) and muon (NSF) triggers.
- Convenor PHENIX spin physics group, deputy spokesperson STAR.
- BNL RHIC/AGS Users Committee (2 times)

## ➤ EIC: YR Detector Group Convenor, ATHENA Charter Committee, ATHENA spokesperson candidate

## ➤ Selected administrative experience (UCR)

- Vice chair (4 years) and Chair (6 Years) Dept Phys & Astronomy (45 faculty), Chair Grad admissions
- University Senate committee on Planning and Budget (chair 3 years), Graduate Council chair, UCOP systemwide committee on Planning and Budget.