

# TC STATUS REPORT

- Klaus Dehmelt
- ePIC General Meeting
- June-08-2023



Stony Brook University

The State University of New York





# WHAT IS THE TECHNICAL COORDINATOR?

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- My understanding
  - Taking on tasks in coordinating
    - ✦ Planning and developing of detector components
    - ✦ Assembling them into a functioning detector
    - ✦ Integrating them into the IR6 environment → specific for ePIC
  - Communicate closely with Software and Computing Coordinators
  - Communicate closely with Electronics, Readout, and DAQ working group
  - Communicate with Cross-Cutting Working Groups
  - Communicate with Detector Subsystem Collaborations DSC
  - Work closely with Project Management



# WHAT IS THE TECHNICAL COORDINATOR?

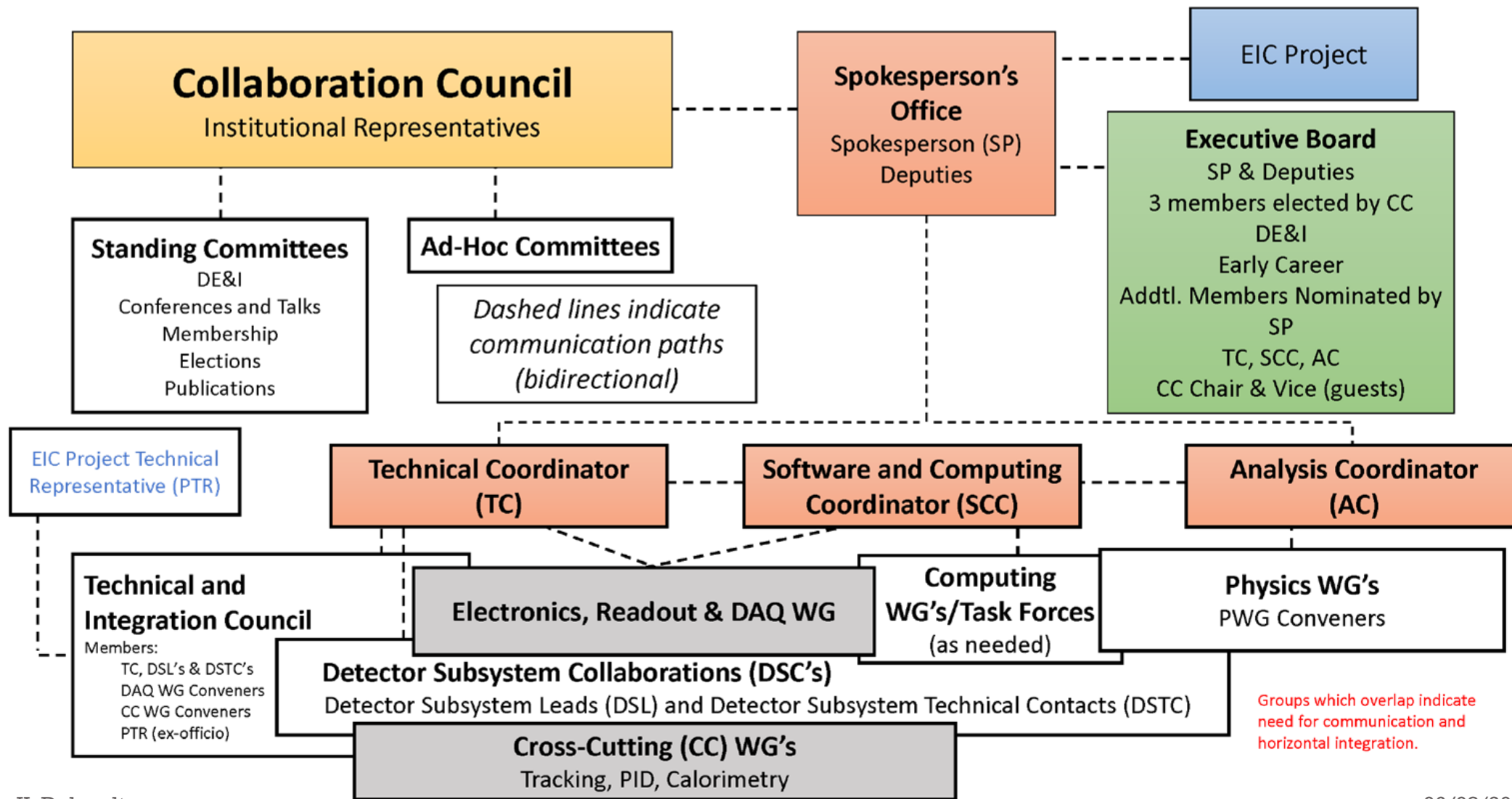
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- **Start-up phase**
  - Collect information
    - ✦ Status of planning the detector components
  - Support formation of Detector Subsystem Collaboration
  - Support DSC in planning detector components
- **Instrumental**
  - Technical and Integration Council TIC



# TECHNICAL AND INTEGRATION COUNCIL

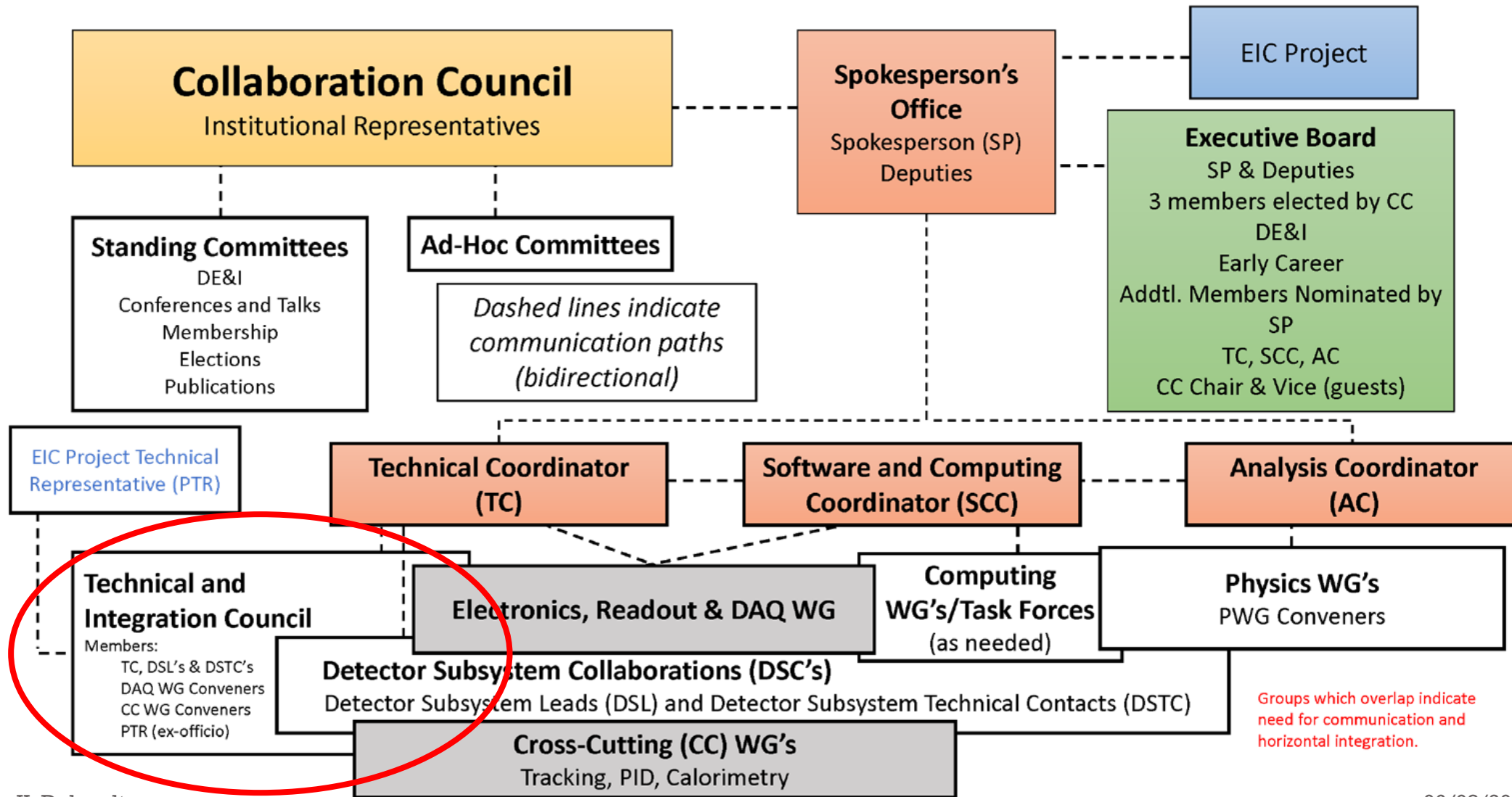
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# TECHNICAL AND INTEGRATION COUNCIL

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K. Dehmelt

06/08/2023



# TECHNICAL AND INTEGRATION COUNCIL

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- Technical Integration Council TIC → succeeds GD/I entity
- Meeting frequency → weekly, took over Monday's GD/I spot
- Indico category: <https://indico.bnl.gov/category/480/>
  - Recordings and chat posted on Indico
- Five (5) meetings so far

## ***Technical and Integration Council is formed by***

- *TC (chair)*
- *DSL's and DSTC's*
- *RO&DAQ WG conveners*
- *CC WG conveners*
- *EIC PTR (ex-officio)*



# DETECTOR SUBSYSTEM COLLABORATIONS

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- Identified 17 DSC at this time
- Started discussions about DSC status
  - Technical status
- Introduction of new simulation campaign
  - Status for new simulation campaign

dRICH
hpDIRC
backward RICH (pfRICH)
FFWD
FBKWD - Pair Spectrometer
FBKWD - High-Rate Calorimetry
FBKWD - High-Rate Tracker
Si Trackers
Gaseous Trackers
Backward ECal
Backward HCal
Barrel ECal (Pb/Sci)
Barrel HCal
Forward ECal
Forward HCal
Forward HCal Insert
AC-LGAD TOF (Barrel + Forward)



# TIC MEETINGS

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- TIC meetings will have presentations/discussions with focus on specific topics
- Emphasis will be on technical and workforce issues
  - Status of the design/layout of subsystems
  - Is technical design ready
  - Integration in ePIC design
  - Services
  - Personnel working on issues
  - Readiness for reviews
  - ...
- Cross-cutting working groups and/or DSC will be asked to present



# TIC MEETINGS

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- **Focuses so far**

- Engineering support → Integration support: ePIC constraints for PID
- PID DSC → Integration status (incomplete yet)
- Tracker update

- **Next focuses**

- DAQ
- Barrel calorimeter
- FBKWD & FFWD
- Backward calorimetry
- Forward calorimetry



# INTEGRATION — DSC AND PROJECT

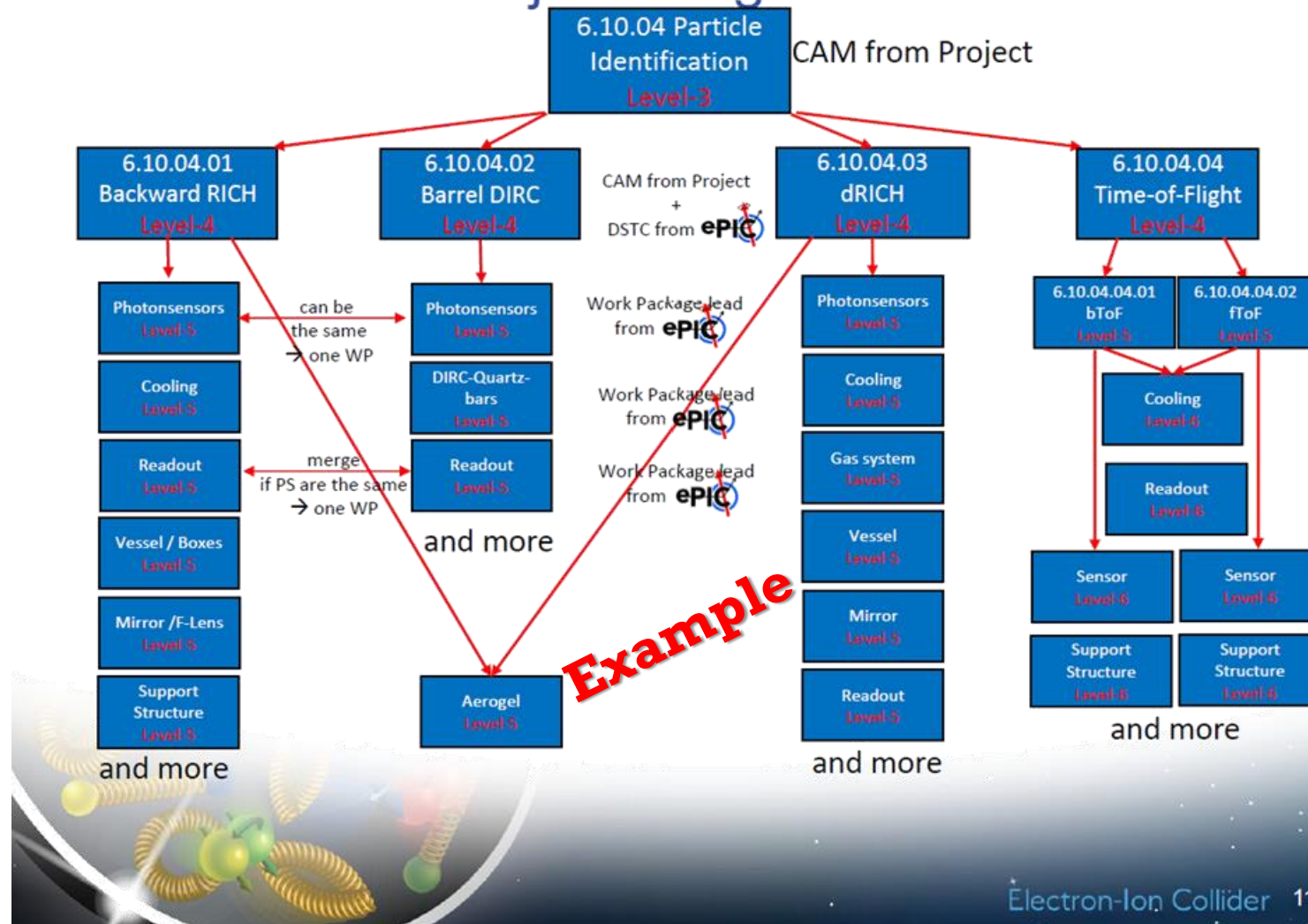
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- Approached DSC to initiate the work packages
  - Scope of WP
    - ✦ WP define a set of activities that need to be completed to realize an aspect of that subsystem
    - ✦ Collection of all WP for a subsystem encompasses all the work that needs to be done
  - Identify group(s) – if any - to be associated with WP
  - Identify individuals – if any – as WP leads



# INTEGRATION – DSC AND PROJECT

## Collaboration – Project integration





# SUMMARY

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- Booted efforts for a technical coordination within the ePIC collaboration
- Established Detector Subsystem Collaborations and identified their leadership
- Ramping up the communication efforts
- We are pushing the integration of the DSC into the Work (package) Breakdown Structure WBS → crucial to get successfully through reviews and monetary mapping
- Setback: I will resign from the position of Technical Coordinator after short tenure due to job change → replacement search underway