

# ePIC Management Plan for the Next 2-year Term

Comp/SW WG Presentation

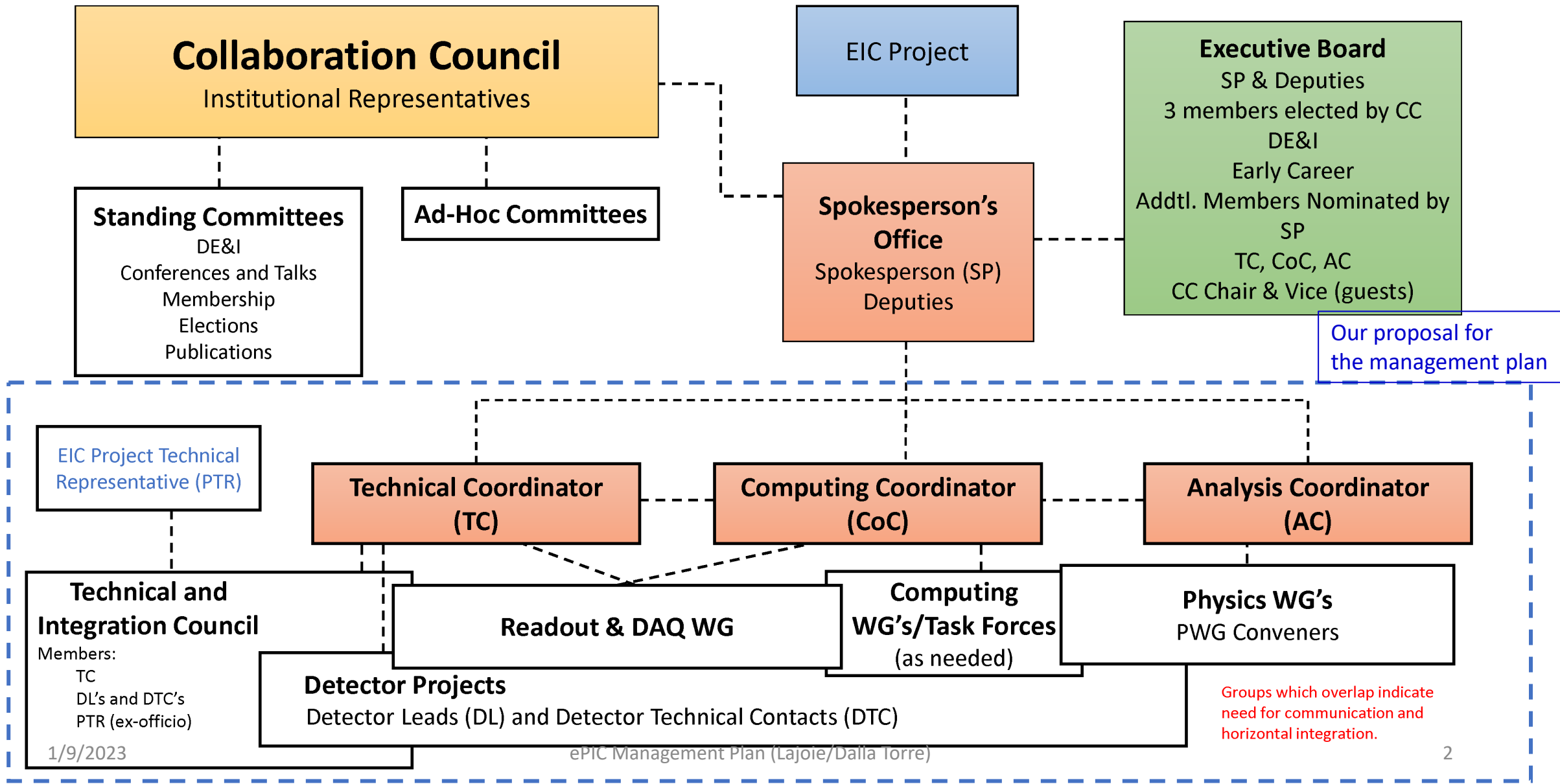
John Lajoie and Silvia Dalla Torre

2/15/2023

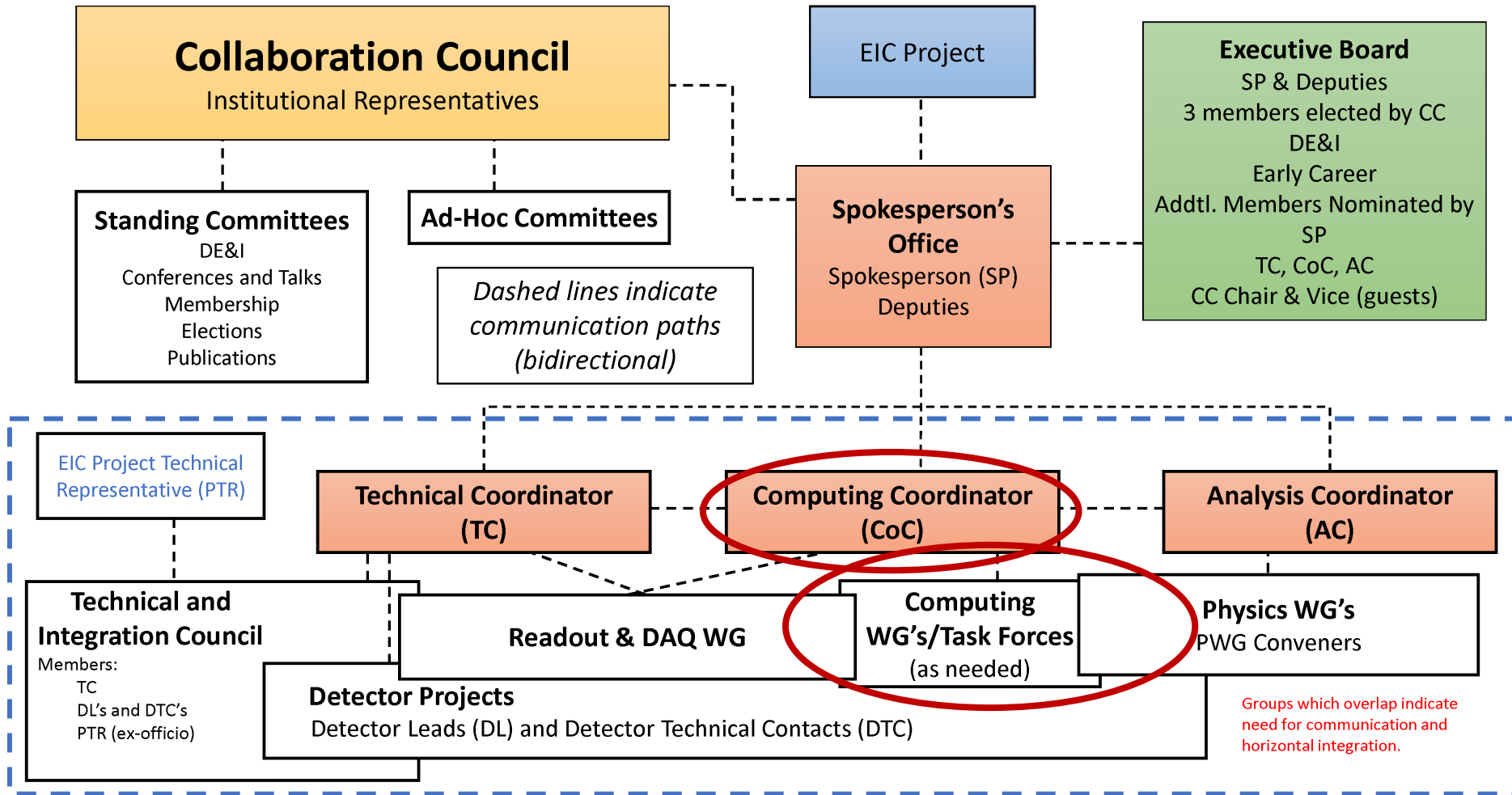


# Collaboration Structure Including the Scientific Structure for the Next Two-year Term

**Black dashed lines indicate communication paths (bidirectional)**



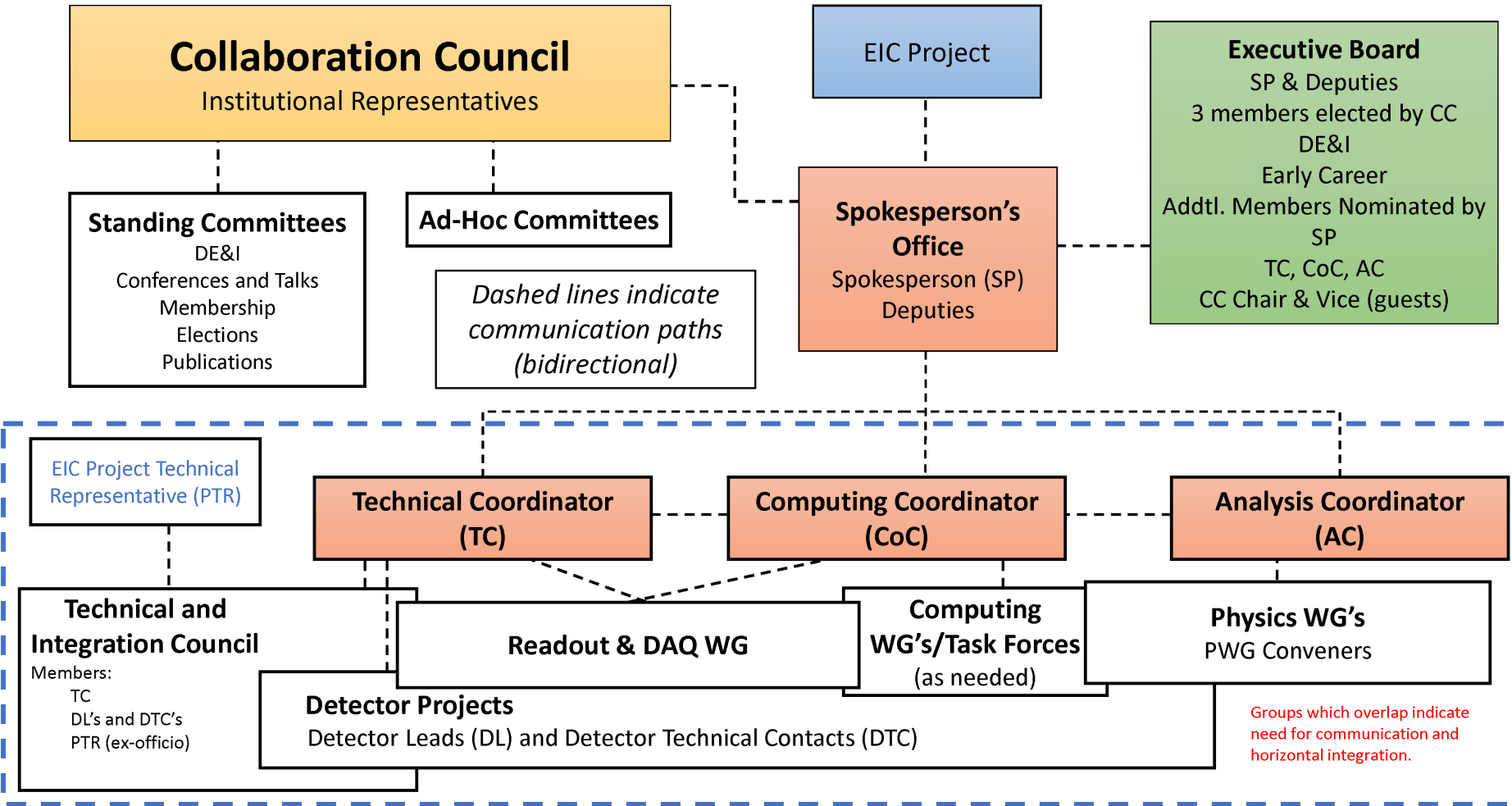
# Collaboration Structure Including the Scientific Structure for the Next Two-year Term



- *Computing Coordinator*
  - *Interface with labs*
  - *Coordinates collaboration activity*
- *Computing WG/Task Forces:*
  - *Software architecture*
  - *Simulations*
  - *Computing resources*
  - *Advanced algorithms & AI*
  - *Documentation and User Support*
  - ...
- *A dedicated WG and flexible structure of subgroups*

# ePIC Official meetings

*Goal: each meeting has a clear purpose, reduce redundancy in meetings*



## WG/TF/DP MEETINGS:

- *Detector Projects, RO and DAQ WG, computing WGs/Task Forces, PWGs will organize their agendas as they see fit*
- *Open to collaboration (publicly announced in the collaboration calendar)*

# Questions for Discussion

- How do we evaluate the effectiveness of the “flexible model”?
- What WG’s/TF’s are semi-permanent?
- What are the required skills for the Computing Coordinator?

# Thank You

We want to thank all of the conveners and WG members for all their hard work over the past *two years* to chart a path to realizing the EIC science program. You have all been **incredible**, and all your hard work is appreciated.

The coming weeks will include a lot of change. Some people in convenor positions may continue, some may not – that should **not** be construed as a lack of confidence in any of the current conveners!



# Introductory Notes (1/2)

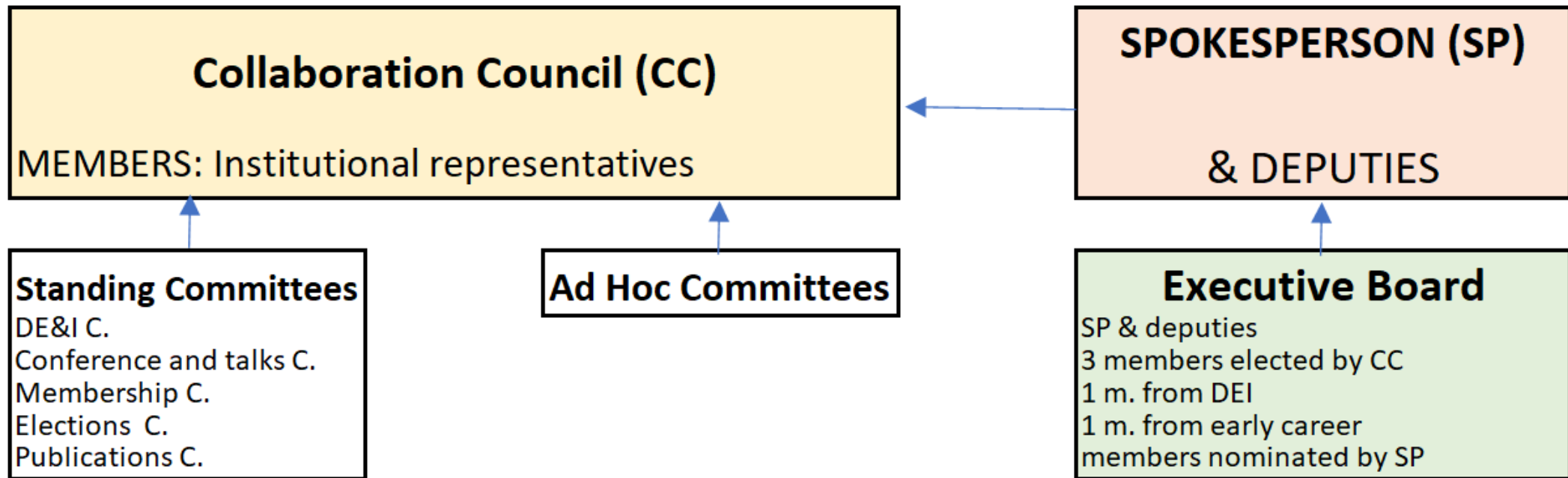
- This ePIC management plan is proposed with a focus on the next two years
- It has been developed by the SP/Deputy SP candidates jointly
- It includes contributions from the ePIC SC based on the experience gained together
- We consider this a Work-In-Progress and look forward to feedback and suggestions!



# Introductory Notes (2/2)

- The Charter establishes the high-level managerial structure, while the scientific management structure is not depicted in the document
- Our focus: present our model for the ePIC scientific management structure
  - We expect this structure will evolve as the Collaboration evolves, according to the needs in the different phases
  - Emphasis here is on the structure needed to support CD-2/3

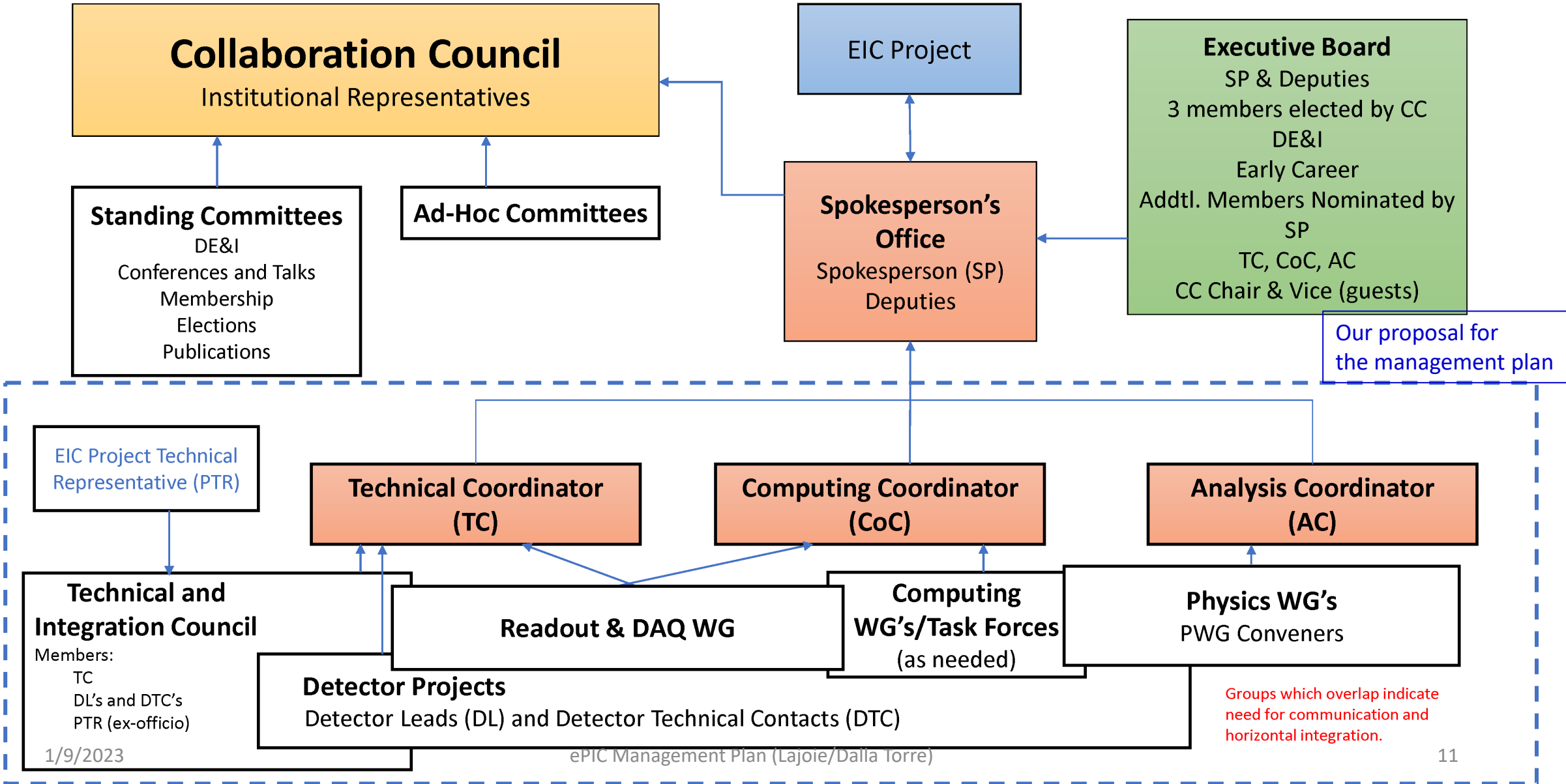
# Collaboration structure from the Charter



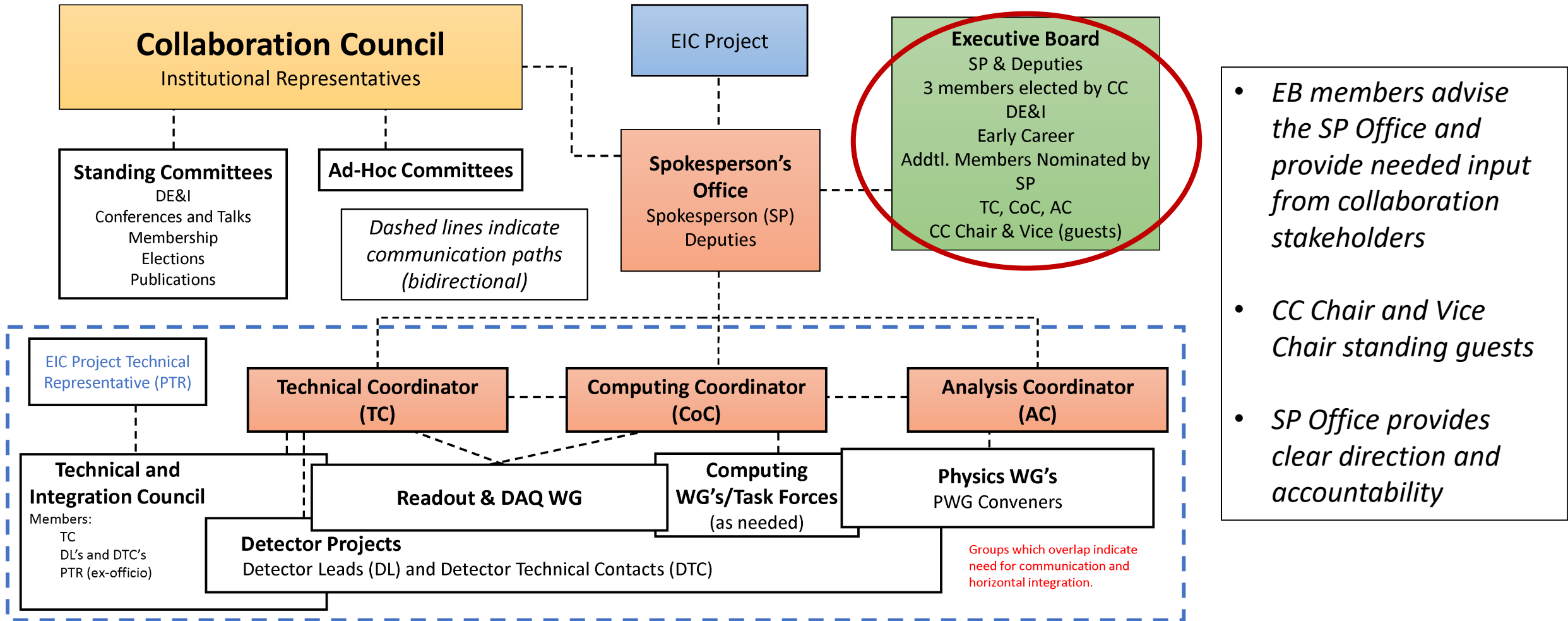
The high-level management structure, as set by the charter.

# Collaboration Structure Including the Scientific Structure for the Next Two-year Term

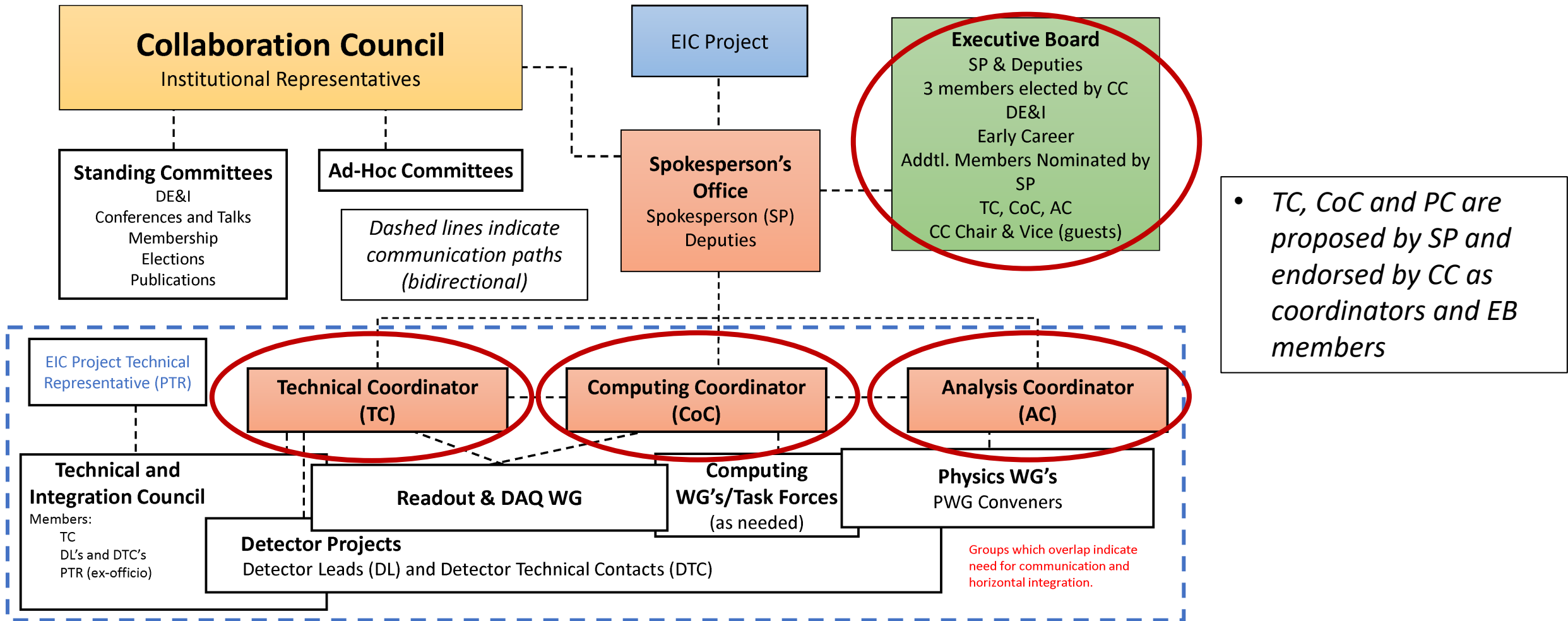
**Arrows indicate reporting pathways**



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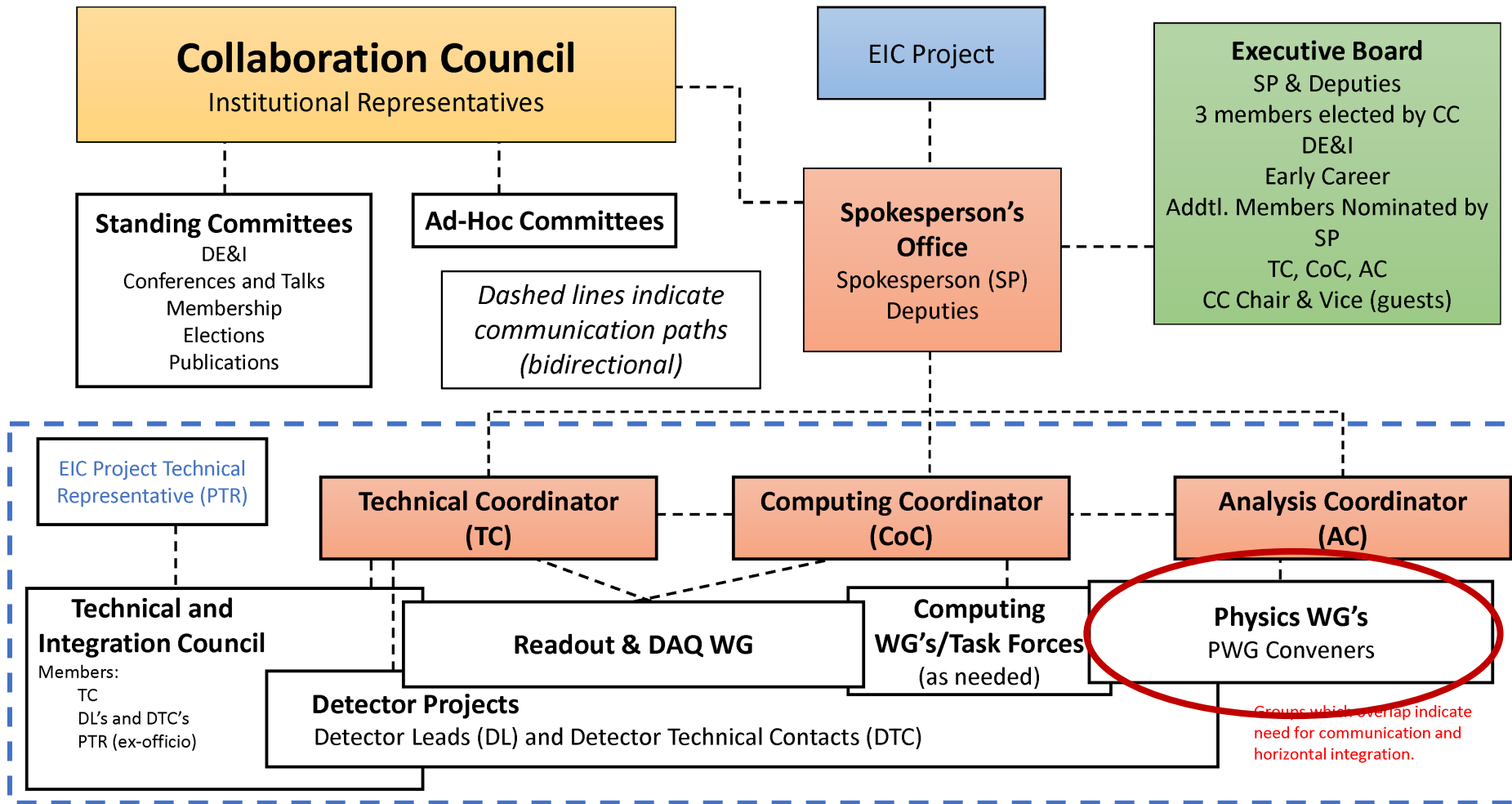


# Collaboration Structure Including the Scientific Structure for the Next Two-year Term



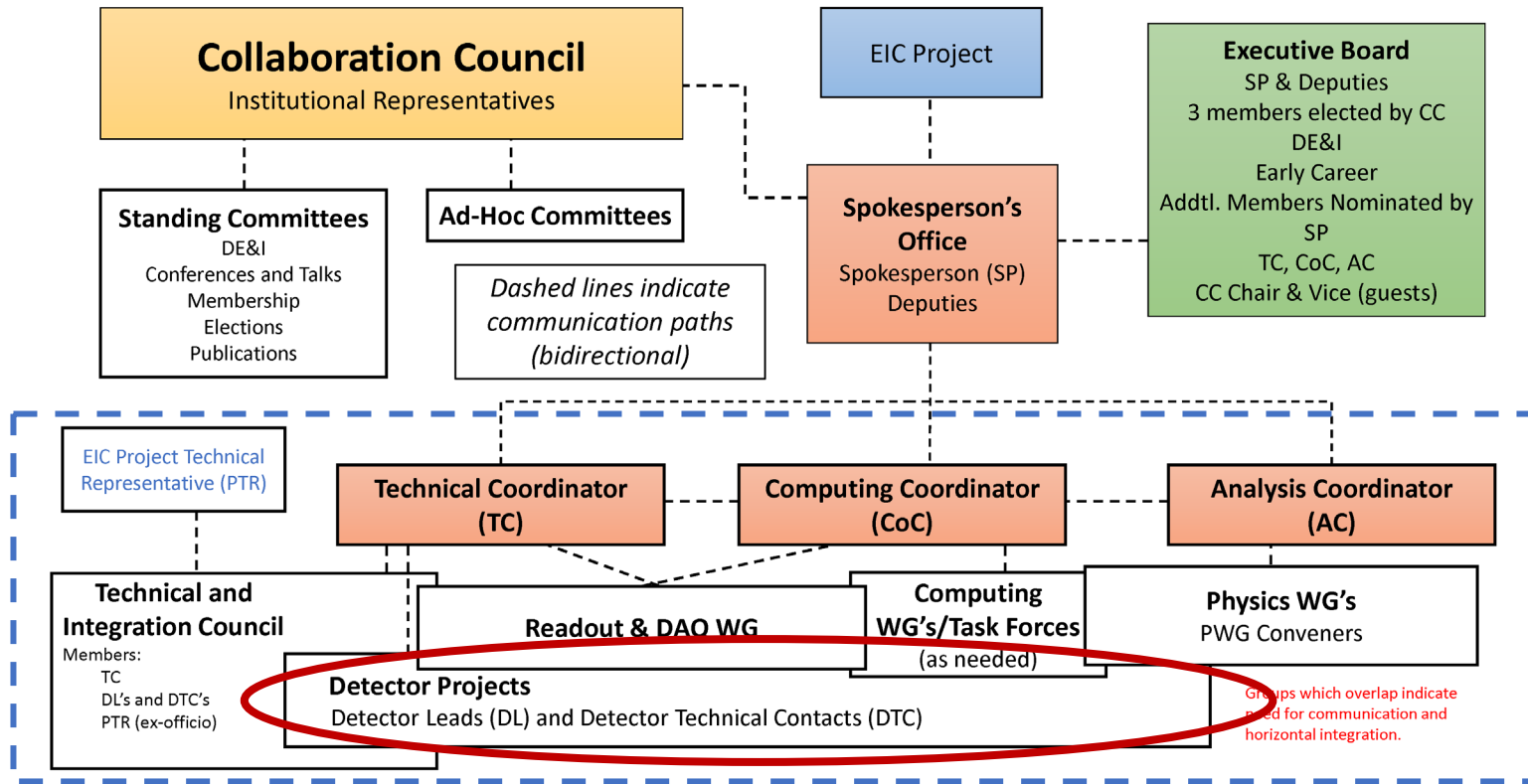
- *TC, CoC and PC are proposed by SP and endorsed by CC as coordinators and EB members*

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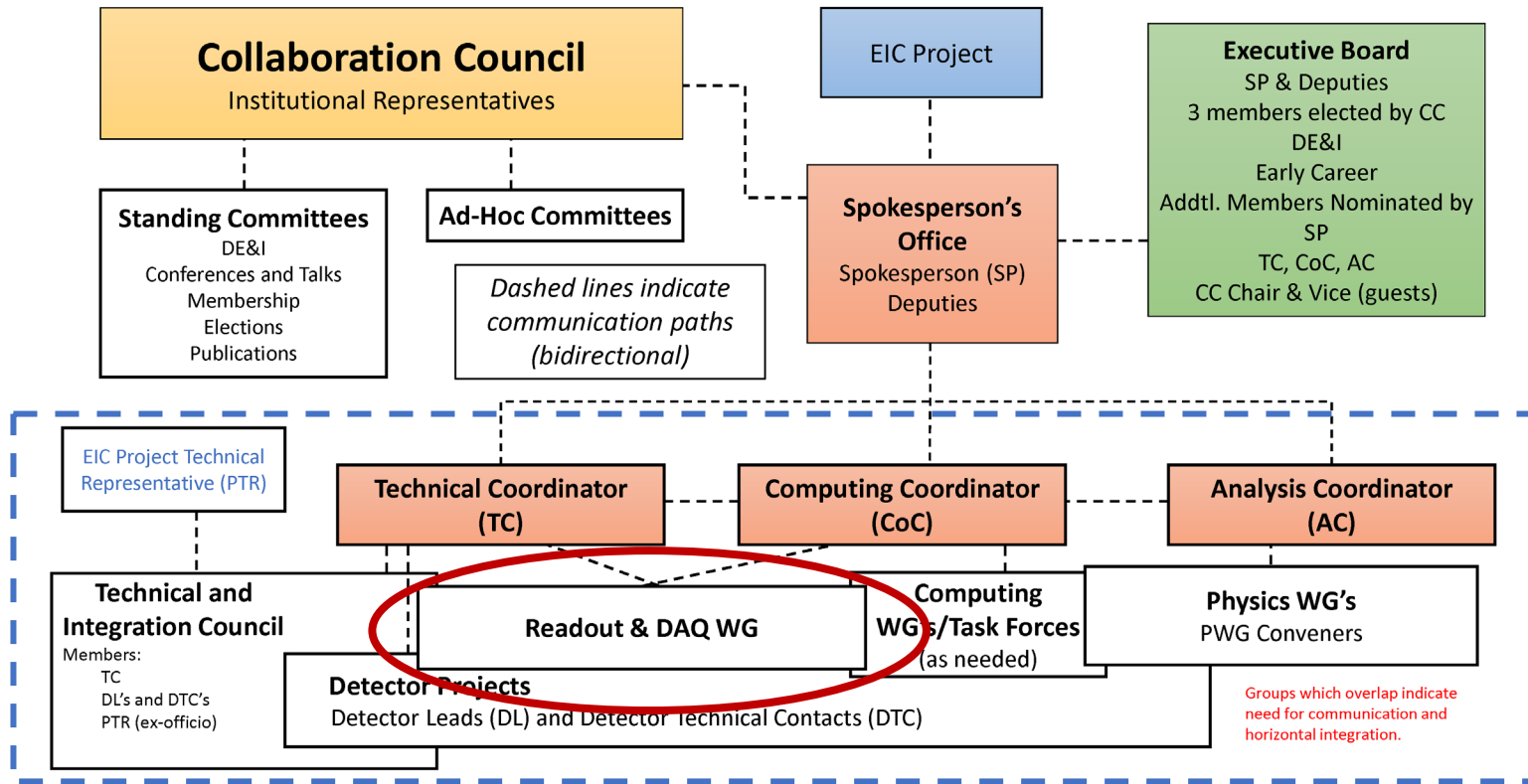
- *Physics WGs with ~ 2 conveners*
- *Number and domain of WGs to be discussed with the present WGs/collaboration*

# Collaboration Structure Including the Scientific Structure for the Next Two-year Term



- *Need to **evolve DWGs** to a structure more appropriate to the (pre-)TDR/construction phase:*  
**WGs → Detector Projects**
- *Each project corresponds to a subdetector built by a **Detector Project Collaboration (DPC)** of the groups and institutions contributing to it*
- *Each project collaboration will choose its **Detector Lead (DL)** and **Detector Technical Contact (DTC)***
- *Work in concert with EIC project CAMS*

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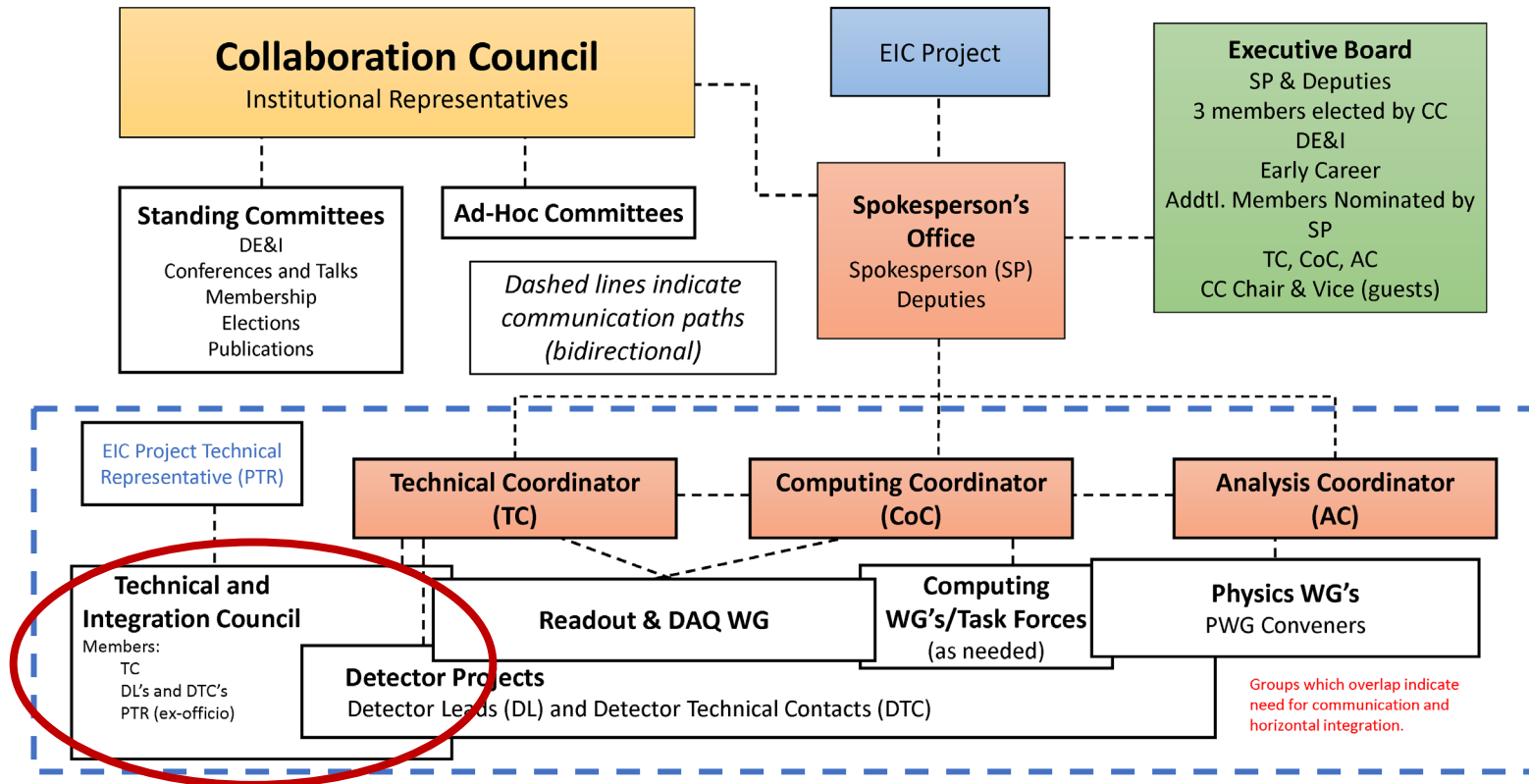


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• ***RO and DAQ**, which is transversal to sub-detectors, remains a separate WG with ~2 conveners*



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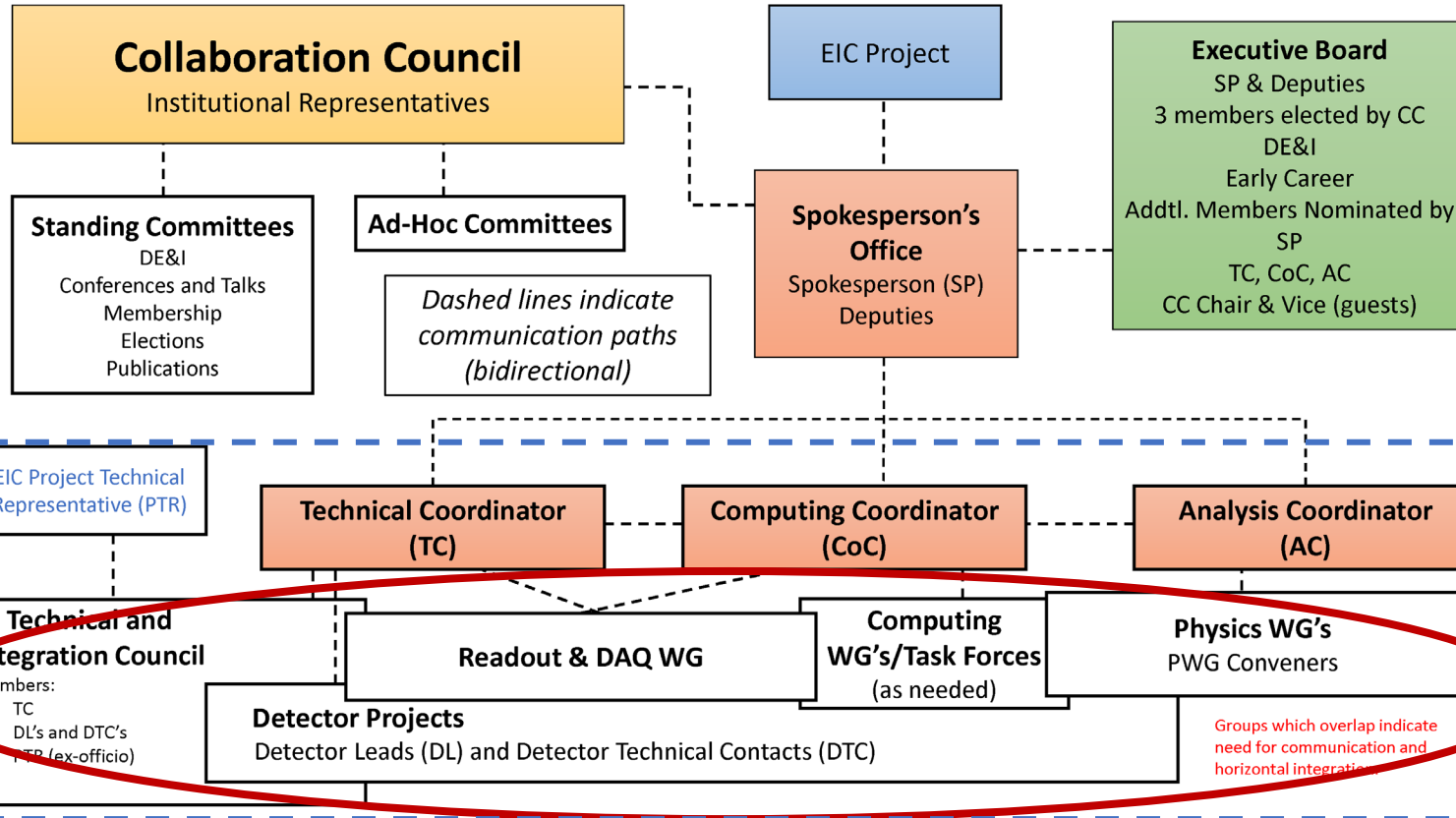
**Technical and Integration Council** is formed by

- TC
- DL's and PTC's
- R-O & DAQ conveners
- EIC PTR (ex-officio)

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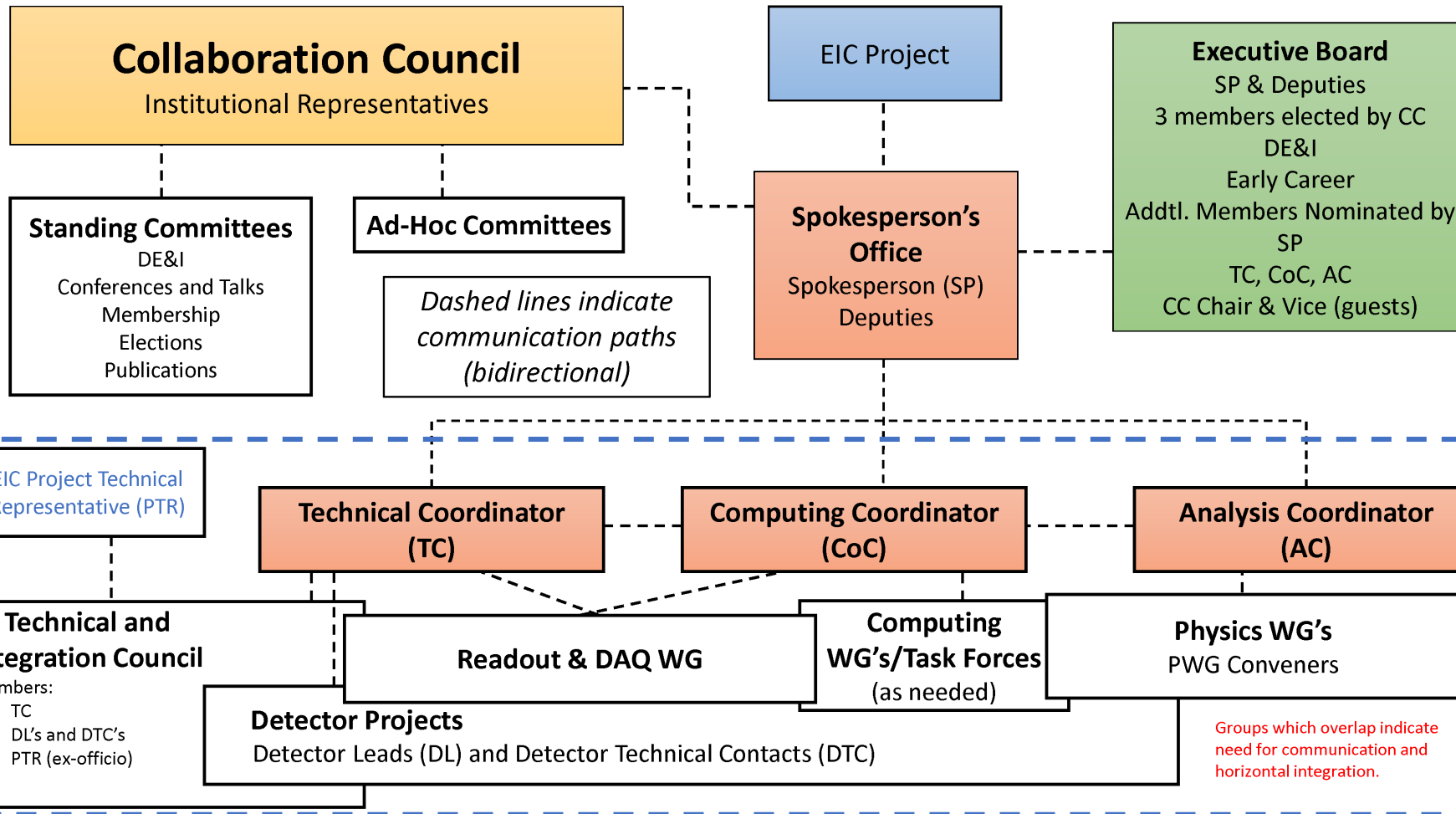
## Transversal Task Forces

- *Proposed by coordinators (TC, CoC, PC)*
- *Formed as needed to address critical issues, or issues that require coordination between efforts*

## Examples:

- *Background Task Force (formed by Project)*
- *Potential TF's: ACTS/Tracking TF, Global Event Kinematics, etc.*

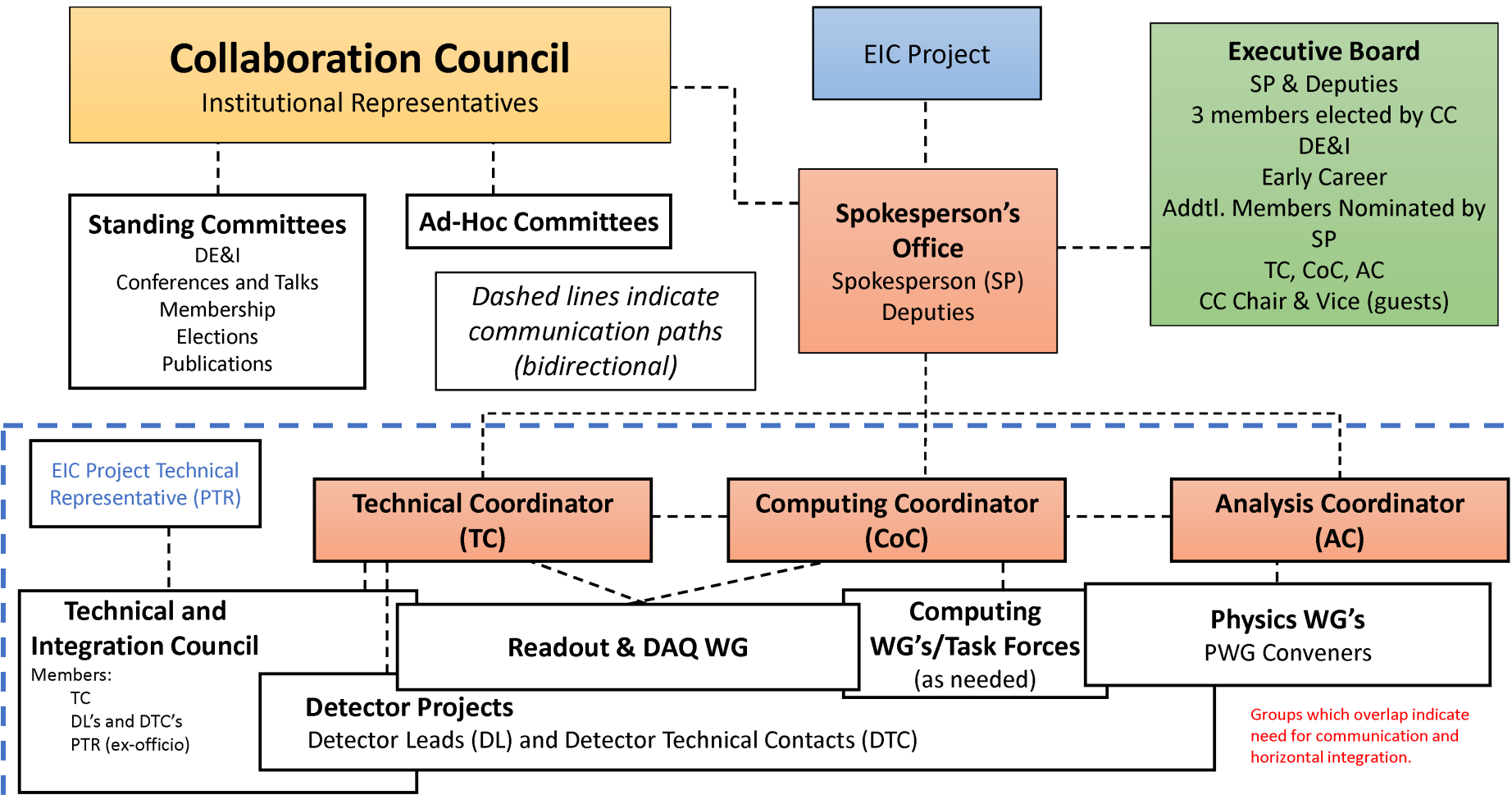
# Detector decision flow



1. *Review, analysis and report by TIC*
2. *Recommendation formulated in consultation with EB*
3. *SP submits the recommendation to CC*

# ePIC Official meetings

*Goal: each meeting has a clear purpose, reduce redundancy in meetings*



## **ePIC General Meetings:**

1. *Monthly (held at two times?)*
2. *Twice per year in-person (hybrid)*
  - *One per year outside US*

**Attendance:** *the whole collaboration*

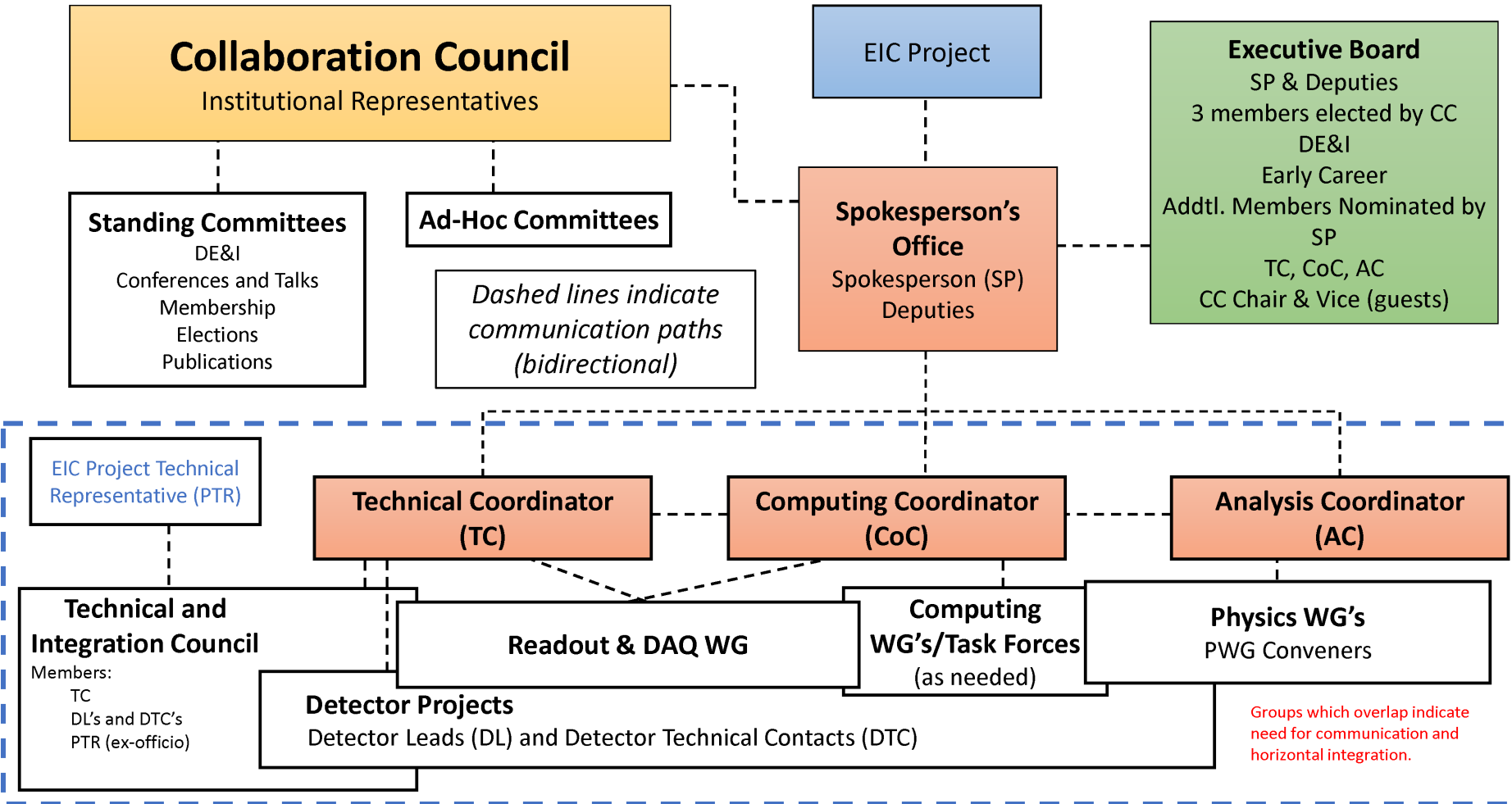
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**EB Meetings:**

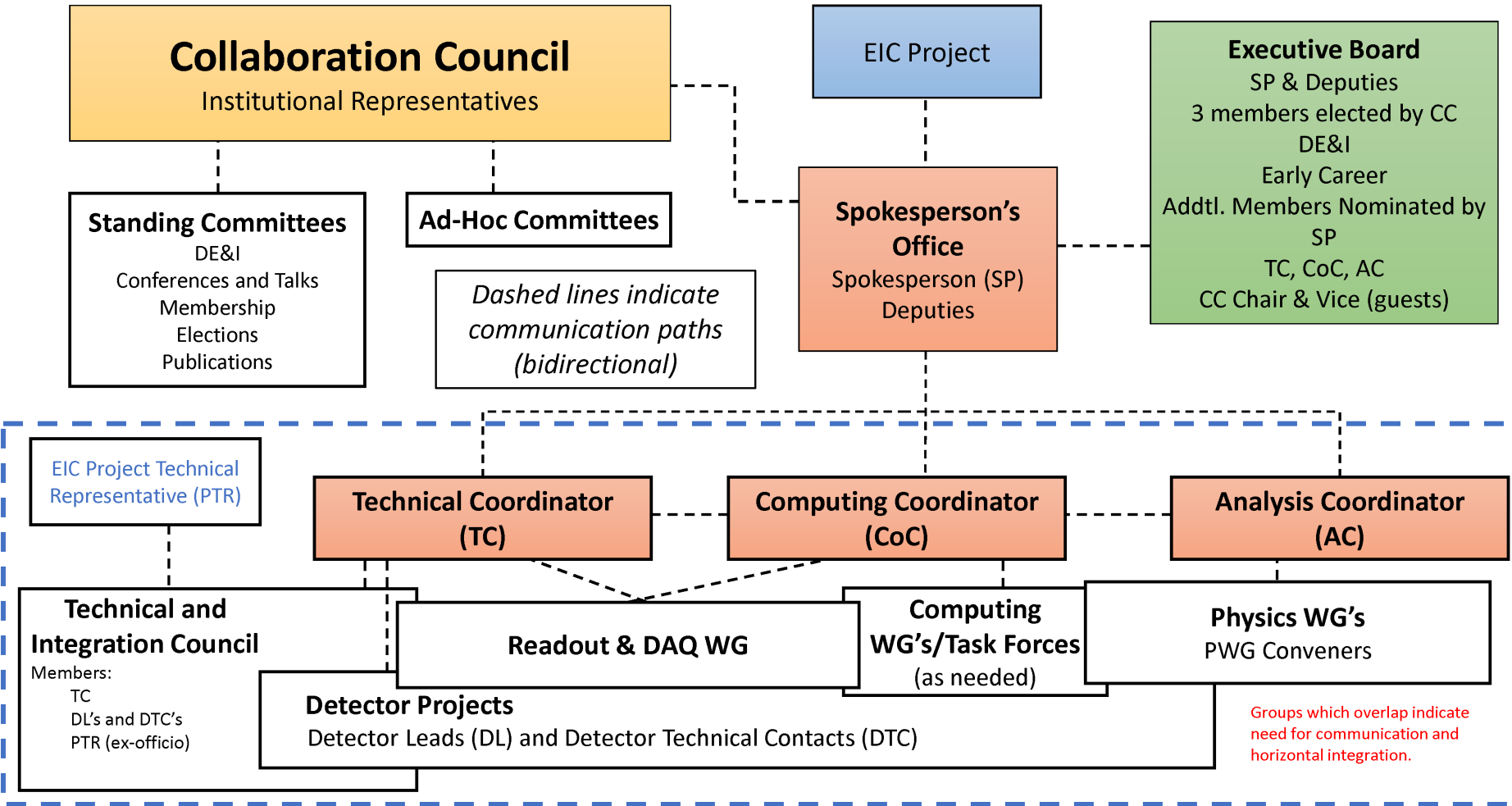
1. *Bi-weekly*
2. *Additional meetings as needed*

**Attendance:** *the EB members and invited guests*



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## TIC, Computing, Analysis Meetings:

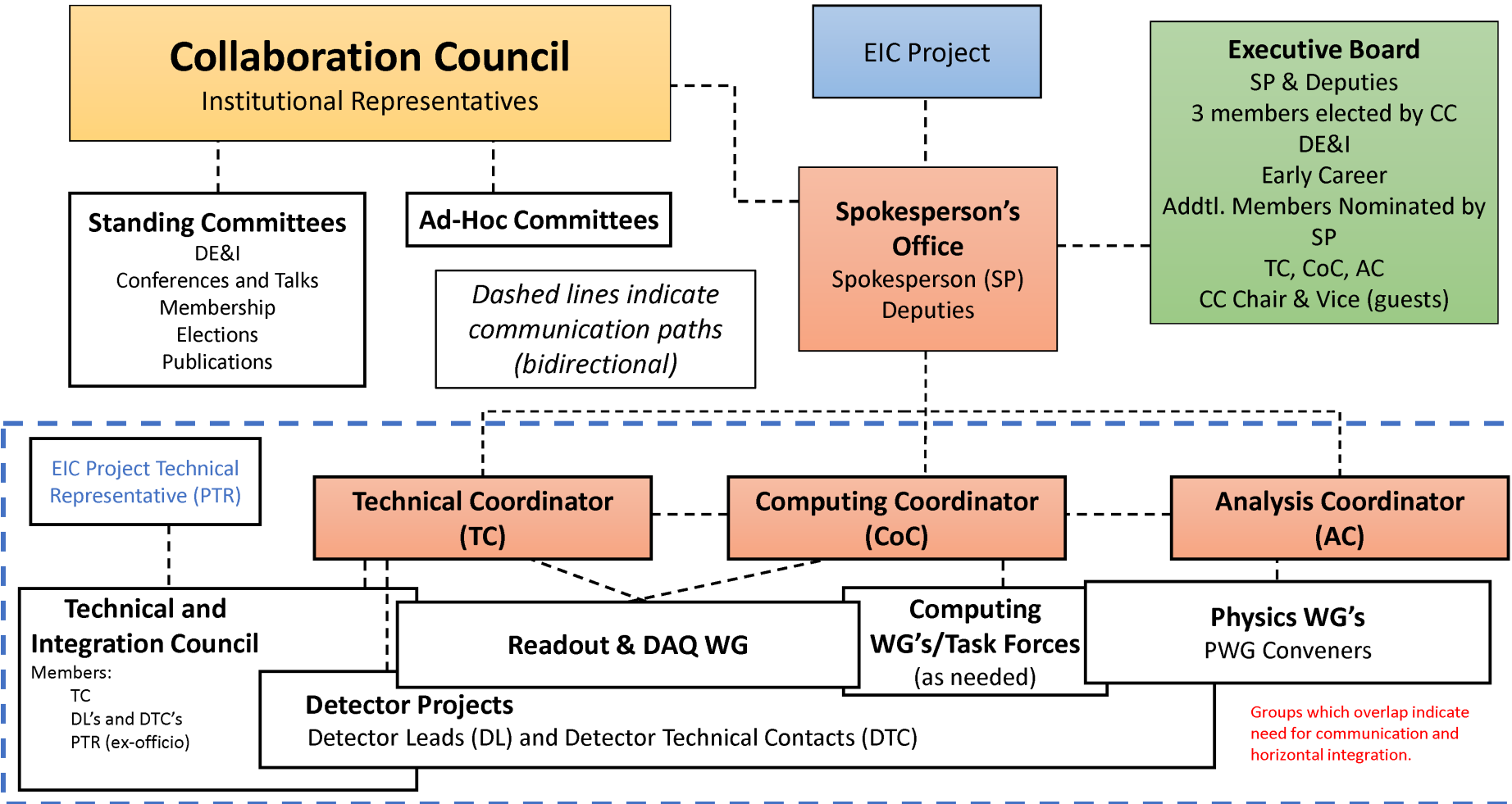
1. Bi-weekly

### Attendance:

- TIC, Computing WG/Task Force Leaders, PWG Conveners (respectively)
- Open to collaboration (publicly announced in the collaboration calendar)

# ePIC Official meetings

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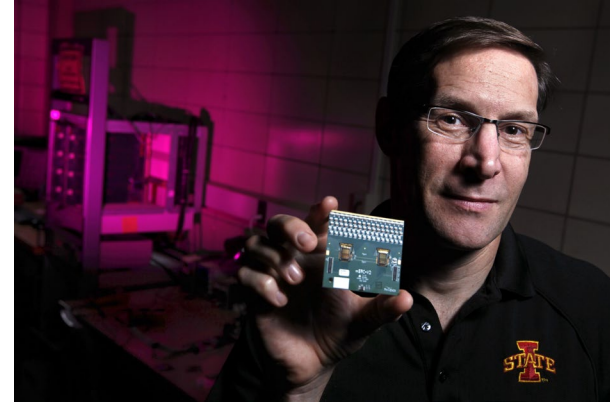
**CC Meetings**  
(TBD by CC):

1. SP-office would suggest meetings every few (~3) months
  - In-person meetings should include CC meeting

**Attendance:** the whole collaboration

# The SP Office

- SP: **John Lajoie**
- Deputy SP: **Silvia Dalla Torre**



- Both SP and Deputy SP will dedicate to ePIC > 80% of their professional time
- Well defined distribution of responsibilities



# The SP-Office and Responsibilities

## **SP:**

- Represents the Collaboration in all circumstances
- Overall responsibility for ePIC scientific management
- Relationship and communication with EB, PM, CC and its Committees
- Relationship with BNL, JLab and laboratory user groups, university groups
- Raising the visibility of ePIC/EIC worldwide

## **Deputy SP:**

- Communication with the coordinators (TC, PC, CoC) and the corresponding board (TIC)
- Managing the detector technology and integration decision process
- Relationship with RRB
- Relationships with Institutes/Groups concerning effective FTE and in-kind

## **Joint Responsibilities:**

- We plan to work as a collegial team. The areas above are intended as guidelines to make the work efficient.

# Increasing International Engagement

- ePIC will need strong international engagement in order to succeed!
- Role of the Spokesperson's Office:
  - Outreach/encourage participation in ePIC
  - Help nuclear physics communities raise EIC visibility in their home countries
  - Support international groups by helping them engage with ePIC, match their talents and capabilities to work that need to be done
    - Provide assistance/training to students and postdocs integrating into WG's
    - Help with laboratory appointments, access to resources
  - Assist Project with coordinating planning for international contributions
    - Especially workforce in international groups
  - Support the efforts of the Project in the RRB

# Community

- To be successful we will not only need to grow the ePIC Collaboration but take full advantage of the skills, talents, and capabilities of all our collaborators
  - Silvia and I are dedicated to making ePIC a collegial, friendly, safe, and welcoming environment for everyone
  - It is critical to build this into ePIC culture from the very beginning!
- Support the CC in developing a strong Code of Conduct
  - The ePIC charter includes concrete provisions to address misconduct
  - Code of Conduct should be developed quickly as a policy document
- Support the CC in appointing a Talks Committee
  - Track assignment of talks, ensure an equitable distribution across all groups
- Support the professional development of junior scientists
  - Provide opportunities for leadership and recognition
- Facilitate participation in ePIC
  - While some can dedicate all their time to ePIC, many will have to balance ongoing commitments. Make sure that everyone can contribute to the best of their ability.

# ePIC Relationship with PM (via SP supported by CC)

## Major Guidelines:

- Work with EIC PM to ensure the realization of the full EIC science program in the ePIC detector
- Facilitate communication to ensure transparency in project decisions and the prompt exchange of information
- Ensure that ePIC responds in a timely and complete manner to EIC PM requests
- Provide the link between the collaboration and EIC PM to guarantee a constructive and friendly environment for ePIC
- Support collaboration proposals to PM
- Maintain a constructive and cooperative attitude

# Transition of the Scientific Structure (1)

## General considerations :

- The transition of the high-level Collaboration management structure will follow the path indicated in the charter
- The transition of the scientific structure is proposed in the next slides and follows the guiding principles:
  - Complete the transition in a reasonable time, but avoid disruption due to unnecessarily sharp transitions
  - Work as much as possible in consultation with the community
  - Truly dedicated WG conveners, DPL's and DPC's

# Transition of the Scientific Structure (2)

- PWGs:
  - Presently 5 WGs with 4 conveners each
  - Model to be discussed with the community: 5 or 6 PWGs with 2 conveners each
  - Look at ways to maintain contact between PWG's, make it possible for people to be active in multiple PWG's
- Computing:
  - Areas of Responsibility:
    - *Software architecture; Simulations; Computing resources; Advanced algorithms and AI; Documentation; User Support; ....*
  - Presently: 2 WGs with 4 conveners each
  - Possible model:
    - Flexible subgroups and task forces
  - To be determined in consultation with the community

# Transition of the Scientific Structure (3)

- R-O & DAQ:
  - Connections to all detector projects
  - Presently 1 WG with 4 conveners
  - Model proposed: 1 WG with 2 conveners
- Subdetectors:
  - Presently: 6 WGs with 4 conveners each
  - Proposed model:
    - Project Collaborations (PC) each building a well-defined subdetector
    - Each DPC determines its Detector Project Leader (PL) and Project Technical Coordinator (PTC)
    - The breakdown in projects to be discussed/optimized with the collaboration

# The Ongoing GD/I Review Process (BECal/backwards RICH)

- Review process is already underway:
  - The review committee is GD/I with external reviewers
  - External reviewers contacted, dates set, charge discussed with proponents
- GD/I remains in charge of the process as a review committee
  - No change to current plans
  - GD/I will provide a report to the EB
  - GD/I will be terminated after the completions of these reviews
- The TIC will be set up in parallel to this process