

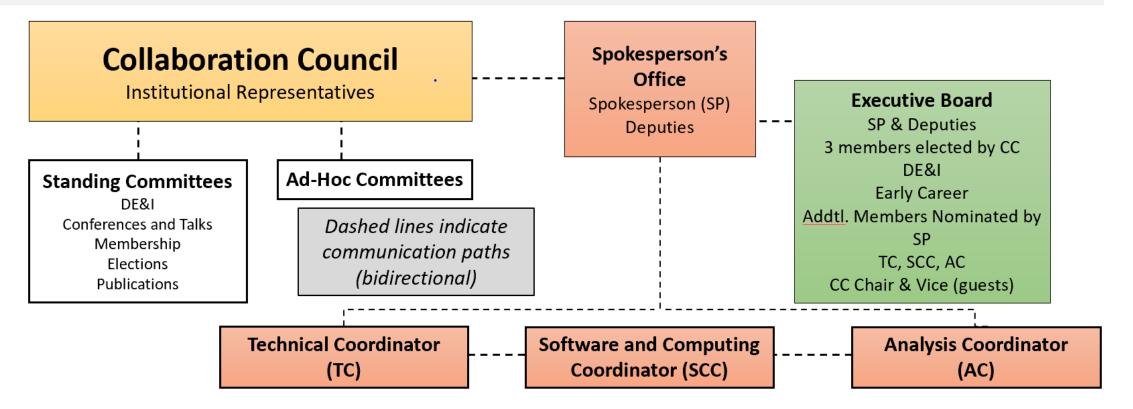
Detector Subsystem Collaboration Formation Status

John Lajoie and Silvia Dalla Torre

ePIC General Meeting, April 14, 2023

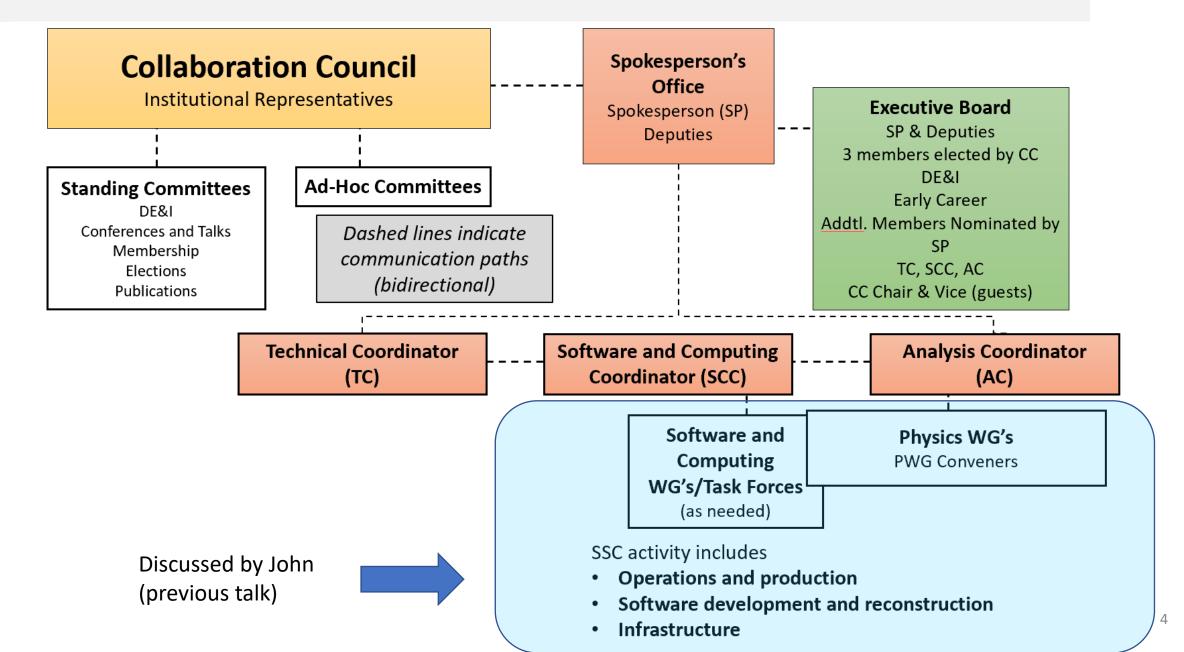
REMINDER

Introducing the Scientific Coordinators

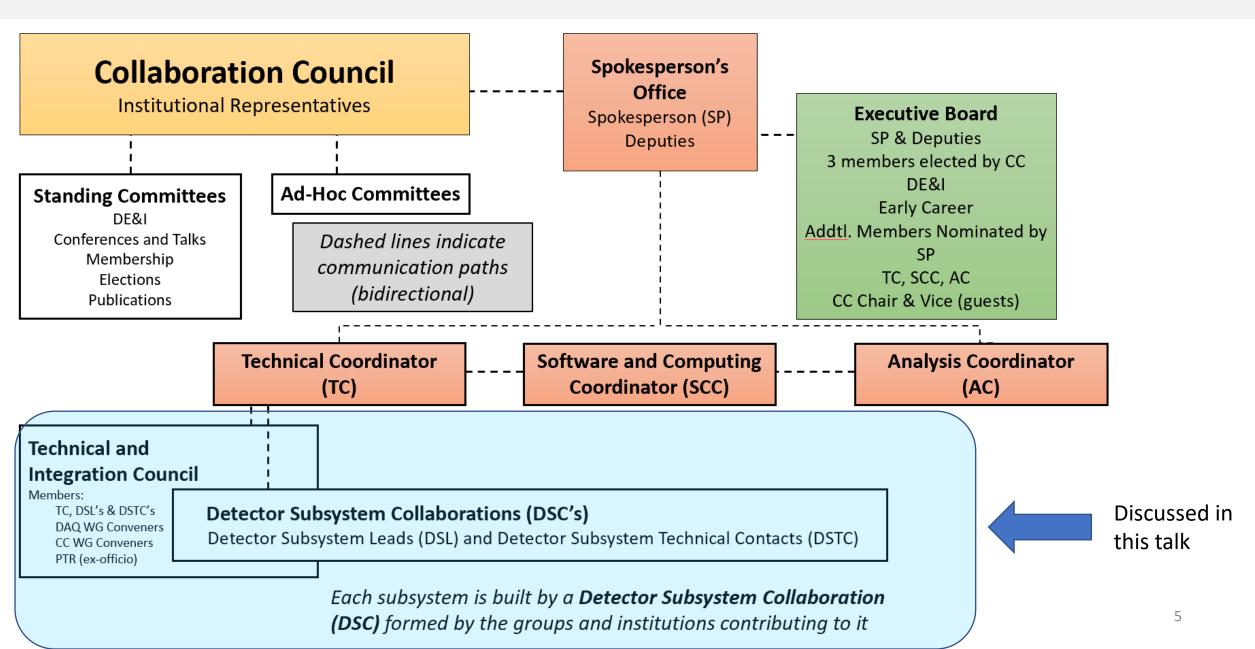


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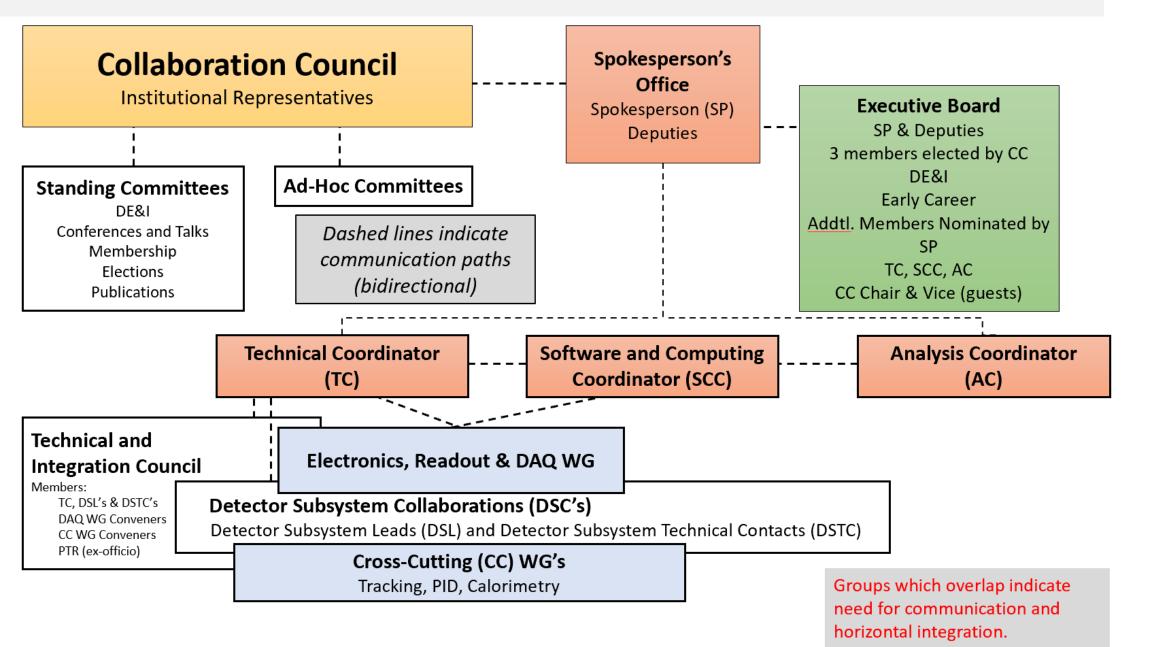
Software and Computing addressed with WGs and TFs



Technical and Integration Council and Detector Subsystem Collaborations



The cross-cutting effort



WHY DSCs

• Functional to:

- Finalize the detector sub-systems for the TDR (CD2&3)
- Prepare the construction period
 - Please, note that the present 2-y term coincides with period of preparation of the TDR !
- All large-size collaborations have similar structures
- Groups involved in the Detector Sub-Systems:
 - Make their **responsibility explicit**
 - Support their engagement and enthusiasm
 - **Clarify the communication cha**in in matter of Detector Sub-Systems
- Collaboration community:
 - **Support the aggregation** of different groups within the same Detector Sub-System
 - Offer an **opportunity of enlargement of the collaboration** also via the direct efforts of the groups in a Detector Sub-System to encourage partners, who are presently not ePIC members
- Financial Aspects
 - The **explicit links of groups in a Detector Sub-System** to their Detector Sub-System realization supports **actions** (by PM, ePIC management and Detector Sub-Systems members) **for in-kind contributions**
- Project progress:
 - Establish direct links between the Detector Sub-Systems and the EIC Project CAMs
 - DSL and Task responsibles can integrated in the Project at level 4 and 5

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WHY DSCs & CROSS-CUTTING WGs

- Electronics, Read-out and DAQ WG
 - Crossing all detector subsystems
 - Crossing both subsystems and software area
 - \rightarrow No doubt about the cross-cutting nature of this effort
- Detector cross-cutting WGs (Tracking, calorimetry, PID)
 - **Request by the detector community** to preserve a forum for
 - Reciprocal information;
 - Discussion about common technical aspects;
 - Identify needs of common efforts to avoid duplication.
 - Cross-cutting WGs are in no way board with decision power:
 - they do not sit between the DSCs and the TIC !
 - Light meeting load expected.
- A specific case: the Tracking cross-cutting WG
 - Presently, ePIC does not have yet an optimized tracking configuration
 - Therefore, presently, the new WG has to act as a long-term task-force in view of this goal;
 - The single DSCs cannot perform the global optimization independently



DSCs

- Information being collected in a share google sheet
 - When there is the need to open the share google sheet to more editors, please, let me know
- First dead-line for the collection of the initial information: April 13
- Present DSC layout has to be regarded as temporary:
 - Several DSCs are still not completed and more members will join the subsystem collaborations.
 - The subsystem grouping has to be scrutinized within TIC

Updated today, dead-line expired

Detector Subsystem Collaboration	Detector Subsystem	Detector Subsystem	
Name	Leader (DSL)	Technical Contact (DSTC)	Collaborating Institutions
			U Bari and INFN Bari (Italy)
dRICH	Marco Contalbrigo		U Bologna and INFN Bologna (Italy)
			U Calabria and iNFN Cosenza (Italy)
			U Catania and INFN Catania (Italy) Duke University, Durham NC (USA)
			U Ferrara and INFN Ferrara (Italy)
			U Genova and INFN Genova (Italy)
			INFN Laboratori Nazionali di Frascati (Italy)
			INFN Laboratori Nazionali del Sud (Italy)
			NISER, Bhubaneswar (India) U Salerno and INFN Salerno (Italy)
			U Tor Vergata and INFN Roma 2 (Italy)
			U Torino, U Piemonte Orientale, Politecnico Torino and INFN Torino (Italy)
			U Trieste and INFN Trieste (Italy)
DIRC backward RICH (TBD)			tion provided reccomendation
backward Rich (TDD)	Alex Jentsch or Michael	Zvi Citron (B0 Spectrometer)	recomendation
FFWD	Murray	Alex Jentsch (Roman Pots and OMD)	
	(need to select one)	Yuji Goto or Yuji Yamazaki (ZDC)	
FBKWD - Pair Spectrometer	Nick Zachariou	Dhevan Gangadharan	Brookhaven National Laboratory
			University of Houston (USA)
			University of York (UK)
			University of York (UK) AGH University of Science and Technology (Poland)
			AGH University of Science and Technology (Poland) Massachusetts Institute of Technology (USA)
			University of York (UK)
			Czech Technical University
			University of York (UK)
			University of Kansas (USA)
FBKWD - High Rate Calorimetry	Krzysztof Piotrzkowski	Krzysztof Piotrzkowski	
FBKWD - High Rate Tracker	Jaroslav Adam	Simon Gardner	
Si Trackers		no informa	tion provided
Gaseous Trackers	no information provided		
Gaseous Hackers		no morma	
Backward ECal	Tanja Horn	Carlos Munoz	AANL Abilene Christian University
			Catholic University of America
			Charles University - Prague
			College of William and Mary
			Florida International U.
			UCLab - Orsay
			James Madison U. Lehigh U.
			MIT
			Ohio U.
			University of Kentucky
Backward HCal	Leszek Kosarzewski		Czech Technical University in Prague
Barrel ECal (TBD)		waiting for the	reccomendation
		waiting for the	reccomendation
Barrel HCal	John Lajoie		
Forward ECal	Oleg Tsai and Huan Z.		Brookhaven National Lab
			Fudan University Indiana University
		Oleg Tsai	Tsinghua University
	Huang		Shandong University
			South China Normal University
			University of California Los Angeles
Forward HCal	Friederike Bock		University of California Riverside
			Yale University
			Georgia State University
			University of California Riverside
			Valparaiso University
			Fermi National Laboratory
			University of Tennesee
			Iowa State University
Energy and the state of			Brookhaven National Laboratory
Forward HCal Insert	no information provided		
Barrel AC-LGADs	no information provided		
Forward AC-LGADs	no information provided		

ePIC general meeting, April 14, 2023

First TIC meeting

- Exceptionally on Friday: April 28 at 10.30am ET
- <u>Standard TIC time slot</u>: the one previously used by GD/I: Monday at 9.00am ET
- Attendance
 - TC
 - DSL, DSTC
 - Electronics, R-O and DAQ WG conveners
 - CC WG conveners
 - PTR