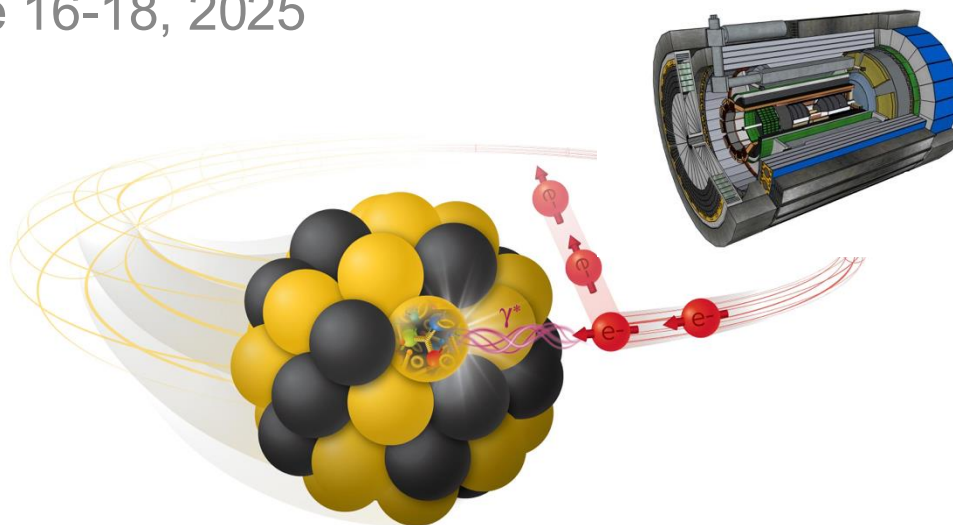


Giornate Nazionali ePIC Italia
Padova June 16-18, 2025



ePIC Italia and the EIC project status and prospects

Domenico Elia, INFN Bari

Welcome to Giornate Nazionali ePIC Italia 2025



Welcome to Giornate Nazionali ePIC Italia 2025

- VII edition including all nice meetings in the EIC_NET era
 - ✓ marking a lot of effort, a long and fruitful path for early (networking) initiative
 - approval of ePIC “sigla” in June 2024!



Welcome to

Giornate Nazionali ePIC Italia 2025

- VII edition including all nice meetings in the EIC_NET era
- first time as experiment “sigla” ePIC in CSN3
- first time agenda runs over 3 days:
 - ✓ a new phase both in ePIC Italia and EIC
 - ✓ growing as ePIC Italia community
 - ✓ increasing effort on R&D, prototyping, physics
 - ✓ extending activities in many directions (eg outreach)

Welcome to

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 - ✓ a new phase both in ePIC Italia and EIC
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 - ✓ extending activities in many directions (eg outreach)
- **need to double the total agenda available time (decided in Bologna)**



Agenda is very rich

- thanks to organizers, programme committee, available speakers!

Today: Intro, Theory, Physics & simulation

Wednesday: det R&D con'd, computing, accelerator, planning & organisational

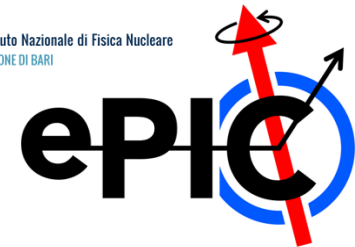
14:00	Welcome DFA & INFN Sala della Carità, Padova, Scuola della Carità di San Francesco
	14:00 - 14:10
	Intro Organizers Sala della Carità, Padova, Scuola della Carità di San Francesco
	Rosario Tummi
	ePIC Italia and the EIC project: status and prospects Sala della Carità, Padova, Scuola della Carità di San Francesco
	3D Parton Imaging with TMDs and Gluon Saturation at ePIC Sala della Carità, Padova, Scuola della Carità di San Francesco
15:00	Physics analysis activities at ePIC Sala della Carità, Padova, Scuola della Carità di San Francesco
	EIC impact on unpolarized TMDs in Early Science conditions Sala della Carità, Padova, Scuola della Carità di San Francesco
16:00	Coordination of SIDIS/TMDs studies Sala della Carità, Padova, Scuola della Carità di San Francesco
	Coffee Break Sala "I. Damini", Via S. Francesco, 61 - 35121, Padova
17:00	Elastic e-p scattering at ePIC 10c100 Sala della Carità, Padova, Scuola della Carità di San Francesco
	Charmed hadron reconstruction with ML Sala della Carità, Padova, Scuola della Carità di San Francesco
	Coordination of dRICH simulation Sala della Carità, Padova, Scuola della Carità di San Francesco
18:00	dRICH simulation activities from INFN groups Sala della Carità, Padova, Scuola della Carità di San Francesco
	Benchmarking tracking performance Sala della Carità, Padova, Scuola della Carità di San Francesco

Tuesday MOR: det R&D, magnet

09:00	TIC / TDR (detector) report Sala della Carità, Padova, Scuola della Carità di San Francesco
	Silvia Dalla Torre
	09:00 - 09:30
	dRICH Project update Sala della Carità, Padova, Scuola della Carità di San Francesco
	dRICH mechanics Sala della Carità, Padova, Scuola della Carità di San Francesco
10:00	dRICH RDO Sala della Carità, Padova, Scuola della Carità di San Francesco
	dRICH ALCOR Sala della Carità, Padova, Scuola della Carità di San Francesco
	Coffee Break Sala "I. Damini", Via S. Francesco, 61 - 35121, Padova
11:00	dRICH SIPM Sala della Carità, Padova, Scuola della Carità di San Francesco
	SRO Project update Sala della Carità, Padova, Scuola della Carità di San Francesco
12:00	dRICH DAQ Sala della Carità, Padova, Scuola della Carità di San Francesco
	dRICH Online Data Reduction Sala della Carità, Padova, Scuola della Carità di San Francesco
	EIC solenoidal magnet activity @GE Sala della Carità, Padova, Scuola della Carità di San Francesco
18:00	Premiazione vincitori "Vi presento ePIC!" Sala della Carità, Padova, Scuola della Carità di San Francesco
	18:00 - 18:40

09:00	Computing coordination Sala della Carità, Padova, Scuola della Carità di San Francesco
	Andrea Bressan
	09:00 - 09:20
	Electron Cloud Mitigation Strategies for the EIC: INFN's Research on Coated Surfaces Sala della Carità, Padova, Scuola della Carità di San Francesco
	Marco Angelucci
	09:20 - 09:40
	dRICH Interaction tagger Sala della Carità, Padova, Scuola della Carità di San Francesco
	Simone Vallarino
	09:40 - 10:00
10:00	LAPPD/HRPPD studies @TS Sala della Carità, Padova, Scuola della Carità di San Francesco
	Jinky Agarwala
	10:00 - 10:20
	ePIC Italia agenda/planning Sala della Carità, Padova, Scuola della Carità di San Francesco
	Domenico Elia
	10:20 - 10:50
11:00	Coffee Break Sala "I. Damini", Via S. Francesco, 61 - 35121, Padova
	10:50 - 11:30
	Open discussion Sala della Carità, Padova, Scuola della Carità di San Francesco
	11:30 - 12:00
12:00	CEI Sala della Carità, Padova, Scuola della Carità di San Francesco
	12:00 - 13:00
13:00	"Vi presento ePIC!" Initiative? Sala della Carità, Padova, Scuola della Carità di San Francesco
	Marciana Capria
	17:45 - 18:00
	Premiazione vincitori "Vi presento ePIC!" Sala della Carità, Padova, Scuola della Carità di San Francesco
	18:00 - 18:40

Tuesday AFT: det R&D cont'd, International guest, outreach, "Vi presento ePIC!" award



Outline

- EIC project status and current timeline
- Status of the ePIC Collaboration
- ePIC Italia organization and size
- INFN contribution to ePIC
- Summary

EIC project status and timeline

Latest (5th) EIC Resource Review Board

- held on June 5-6, 2025 in Prague:
 - ✓ info online: <https://indico.bnl.gov/event/26316/>
 - ✓ attendance: DOE/NP, NSF, EIC management, FAs: Canada, Czech, France/CEA & France/IN2P3, Italy/INFN, Japan, Korea, Taiwan, UK/SFC
 - INFN:** D. Bettoni (GE, RRB co-chair → end of mandate, F. Sabatié/CEA takes over on next RRB)
 - P. Giubellino (CSN3 chair) and DE, observers**
- with usual agenda items/sessions:
 - ✓ Welcome, Goals, Project Director report
 - ✓ EIC Project and ePIC sessions
 - ✓ Action Items followup (Computing, Common Funds, Global Strategy etc)
 - ✓ Final comments and decision on next RRB



EIC project status and timeline

EIC project highlights

DOE CD-3B expected in July

J. Yeck, June 5-6 2025 EIC RRB

Major Project Milestones

- **CD-3A Long Lead Procurement (LLP) of \$90M approved in 2024 and most contracts already awarded.**
- Successful DOE CD-3B/Status review in Jan 2025.
- **CD-3B LLP of \$66M ready for ESAAB approval.**
- Coordination of “EIC Portfolio” led by Erik Johnson.

Reviews, Boards, and Advisory Committees in 2025

- Advisory Board meets quarterly.
- Resource Review Board meets 2x each year.
- Advisory Committees meet (PAC, MAC, DAC, ICAC).
- IR SC Magnet Steering Group meets monthly.
- Electron Injector Design & Cost Review in April.
- “Red Team Review” in May 2025 – Focus on project delivery strategy via sub-projects.
- **DOE “Focused Review” on August 5-7, 2025.**

Focused DOE IPR in 6 months

Infrastructure

- **\$100M New York State Grant for EIC buildings.**
- 90% Detailed Design submission received in April 2025.
- A/E Contract Modification for crab cavities CM awarded.

Accelerator

- New Technical Director in Jan ‘24, Sergei Nagaitsev.
- Reuse of Advanced Photon Source magnets processed at BNL and JLab.
- **Optimized design and scope to mitigate risk.**
- **Electron injector design changed to remove Rapid Cycling Synchrotron (RCS) from RHIC tunnel.**
- International EIC Accelerator Collaboration established and working groups established.

Detector

From R&D to final design/construction

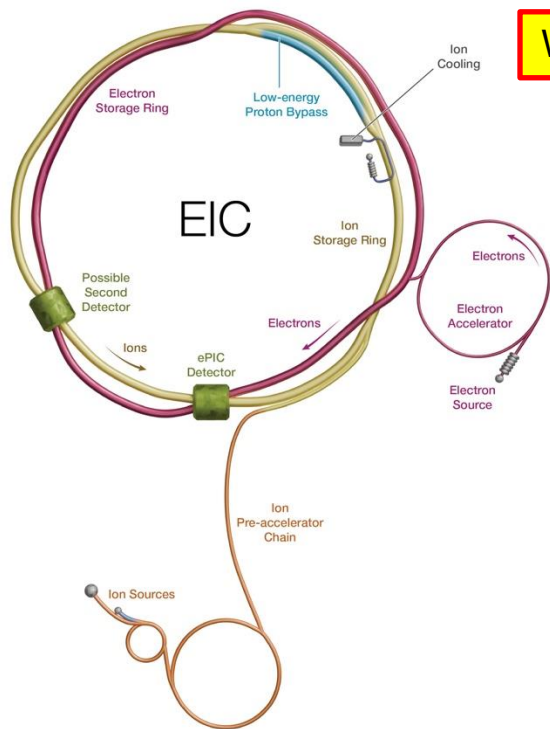
- R&D complete
- **ePIC Detector technical baseline defined and Preliminary Design Report in preparation.**
- **Assessment of Baseline Readiness planned for Nov 2025.**
- Plans developing for the EIC Science Program.

RHIC to EIC Transition

- DOE ONP Review of RHIC Operations in the EIC era planned for September 2025
- **RHIC Operations planned to conclude end of 2025.**
- Removal & Repurposing planned for January 2026.

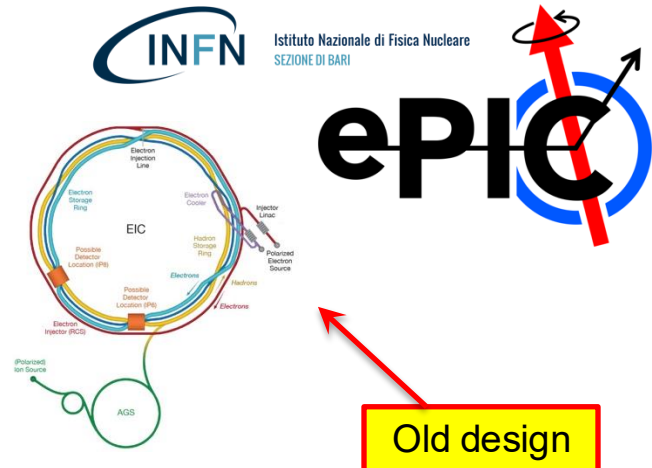
EIC project status and timeline

EIC accelerator concept and parameters



With new electron injection design

- ✓ Polarized ion/proton source
- ✓ Ion injection and initial acceleration systems:
 - Linac (200 MeV)
 - Booster (1.5 GeV)
 - AGS (25 GeV)
- UPGRADE** Hadron Storage Ring (40-275 GeV)
- NEW** Electron Pre-Injector (750 MeV Linac)
- NEW** Electron Rapid Cycling Synchrotron (0.75 GeV – Top Energy)
- NEW** Electron Storage Ring (5 GeV – 18 GeV)
- NEW** Interaction Region(s)
- NEW** Hadron Injection Cooling System



EIC project status and timeline

EIC Project Delivery Requirements: subprojects

Requirements:

- EIC is a single, integrated line-item project.
- Subprojects have well-defined deliverables, interfaces, and KPPs.
- Subprojects enable start of the EIC science program.
- Subproject plans are consistent with DOE annual funding guidance.

EIC Line-Item Project Scope:

Accelerator Storage Rings

Electron Injector

Interaction Region (IR) Integration – SC Magnets, RF Crab Cavities

Detector (ePIC)

Start Science Program

Energy and Luminosity Ramp-up (CD-4)

Project delivery strategy based on
subprojects

The strategy enables the
**start of the EIC science
program during collider
commissioning** and for
the concurrent completion
of the full capability
required to meet the DOE
Mission Need.

EIC project status and timeline

EIC Reference Schedule

- project on track, navigating through financial constraints
 - ✓ CD-2 (60% design maturity, pre-TDR): ~Q4 2026
 - ✓ CD-3 (full TDR → start construction): ~Q1 2028
 - ✓ Early CD-4 (first beams → early physics): ~Q2 2034

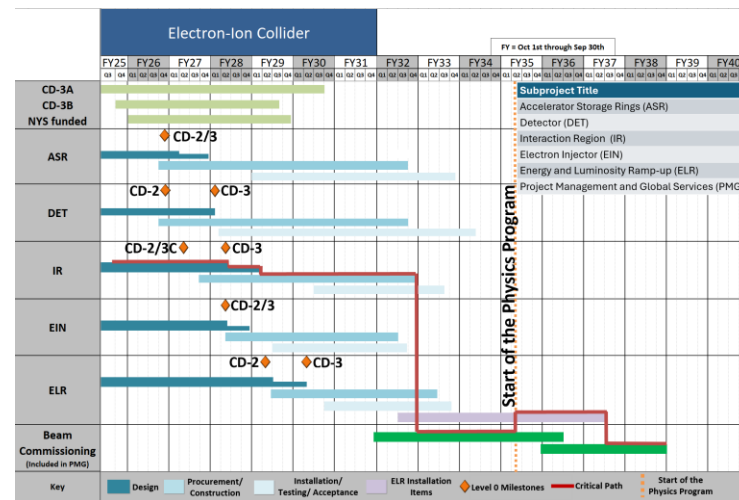
6-months delay wrt last November RRB

based on:

- ✓ delivery of subprojects
- ✓ revised annual funding assumption

Updated status:

- ✓ CD-1 cost range ~ \$1.7B to \$2.8B, with assumed peak annual funding at \$325M/year in FY2026
- ✓ CD-2/3 for the Accelerator Rings and CD-2 for the Detector planned ~ end of FY2026



EIC Reference Schedule



EIC project status and timeline

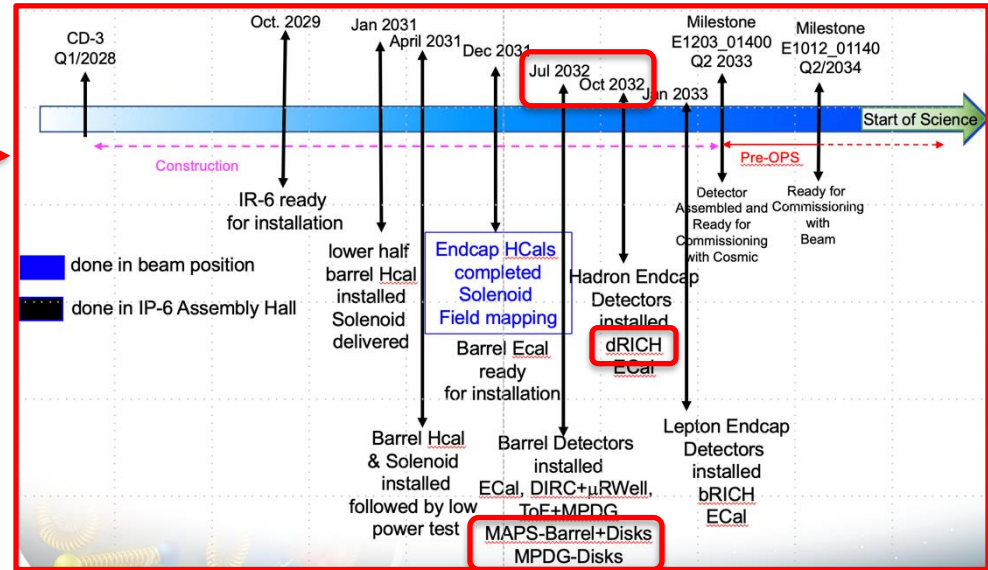
EIC Reference Schedule

E. C. Aschenauer, June 5-6 2025 EIC RRB

Key points:

- hold the date for the **CD-2 IPR of June 2026**
- all sub-detectors need to be more or less **ready at the same time to be assembled to ePIC**

our updated financial plan: 2026 → 2031
for ancillary items may extend further



The schedule drivers are:

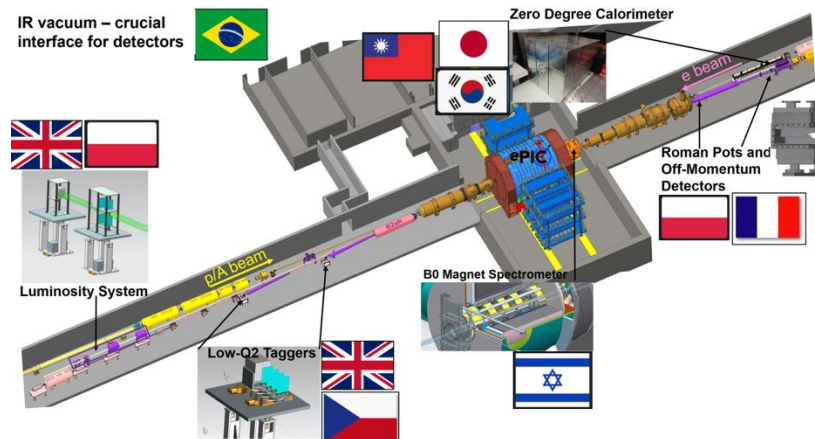
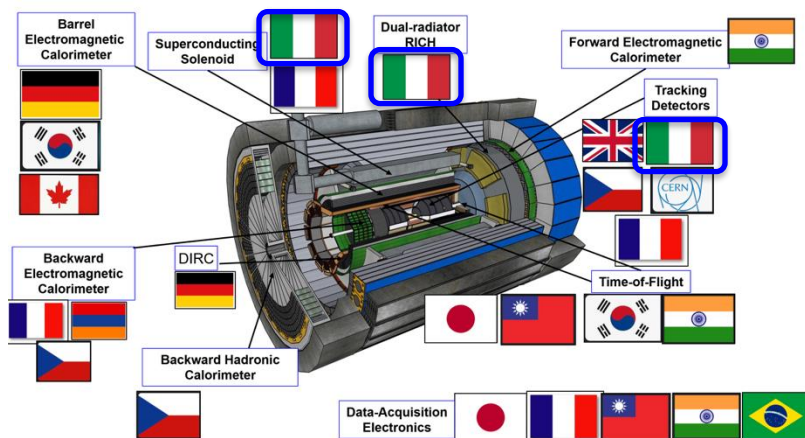
- Superconducting Solenoid → CD-3A item
- Silicon Sensors (MAPS, AC-LGAD & ASTROPIX)
- ASIC long time frames only one ASIC designed from scratch all others are modifications to existing ASICS
- Items with long production times, single vendor and complex assembly → CD-3A & CD-3B
- **International agreements driving in-kind and MAPS design (agreement with CERN)**

EIC project status and timeline

IKC for subdetector project

L. Lari, June 5-6 2025 EIC RRB

- target for the EIC detectors is **~30% of the total scope: ~100M\$**
 - ✓ Italy and France IKCs for the Detector Solenoid magnet, procurement and design respectively
 - ✓ UK, Italy, France, Korea, Canada, and Japan identified scope for IKCs in several detector areas
 - ✓ other IKCs are being discussed with India, Israel, Taiwan and potentially others could follow

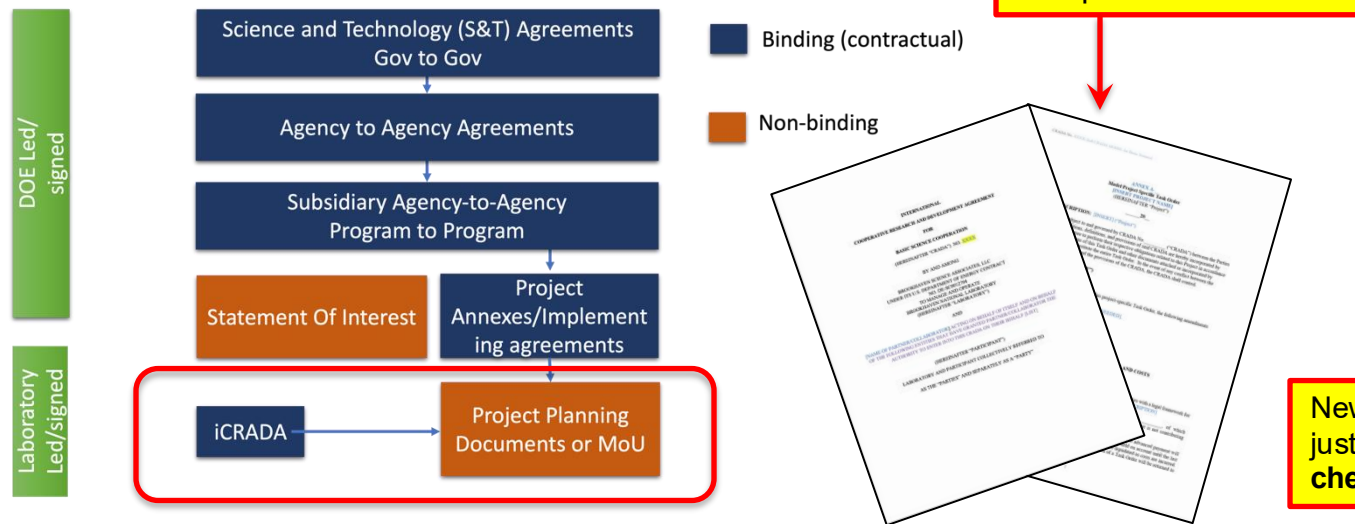


EIC project status and timeline

iCRADAs and PPDs (... and where to find them)

ICRADA: INTERNATIONAL COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT

PPD: PROJECT PLANNING DOCUMENT



New (multi-signature) models just released by DOE, to be checked by partners

DOE level agreements do not contain details on EIC IKC scope. For this reason, it is suggested to pursue an iCRADA (laboratory-level) **binding agreement** for all the IKC items for which the development of Project Planning Documents (PPDs) are necessary.

EIC project status and timeline

iCRADAs and PPDs

ICRADA: INTERNATIONAL COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT

PPD: PROJECT PLANNING DOCUMENT

Drafted Annex A – iCRADAs → aim to have them signed by end 2025

Country/Agency	Scope	Status
Canada – TRIUMF	JLab Crab 394 MHz CMs for Full Capability	Drafted
Canada – TRIUMF	BNL Crab 394 MHz CMs for Full Capability (New Model)	Approval Pending
France – IN2P3	591 MHz 5-Cell CMs for EIN	Drafted
Czech Republic – ČVUT	Electron Source Laser for EIN	Drafting in progress
Italy-INFN	Detector (dRICH, Si/ITS3, GEM-muRwell)	Drafted
UK-STFC	Si-LAS, Low-Q2, Lumi	Drafted
France-CEA	MicroMegas, SALSA	Drafted
France-IN2P3	EEEmCAL, RPs, ASICs	Drafted
Italy-INFN	Solenoid	Drafted
France-CEA	Solenoid	Drafted
Korea-MSIT	Barrel EMCal, GEM-muRwell, TOF/ZDC collab.	Drafted
Japan-MEXT	Barrel TOF, streaming DAQ, ZDC	Drafted
Canada-CFI	Barrel EMCal readout, software	Drafted

- Likely IKC
 - UK detector (UKRI/STFC)
 - Italy/INFN detector
 - Italy/INFN magnet
 - CEA/IN2P3 detector
 - Japan detector
 - Korea detector
- Possible IKC
 - Canada detector
 - Taiwan detector
 - Israel Auxiliary detectors
 - India detector
 - NSF

we would surpass this \$100M goal.

Elke and Rolf will contact partners to start work on PPDs

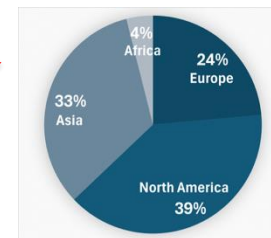
Status of the ePIC Collaboration

J. Lajoie, June 5-6 2025 EIC RRB

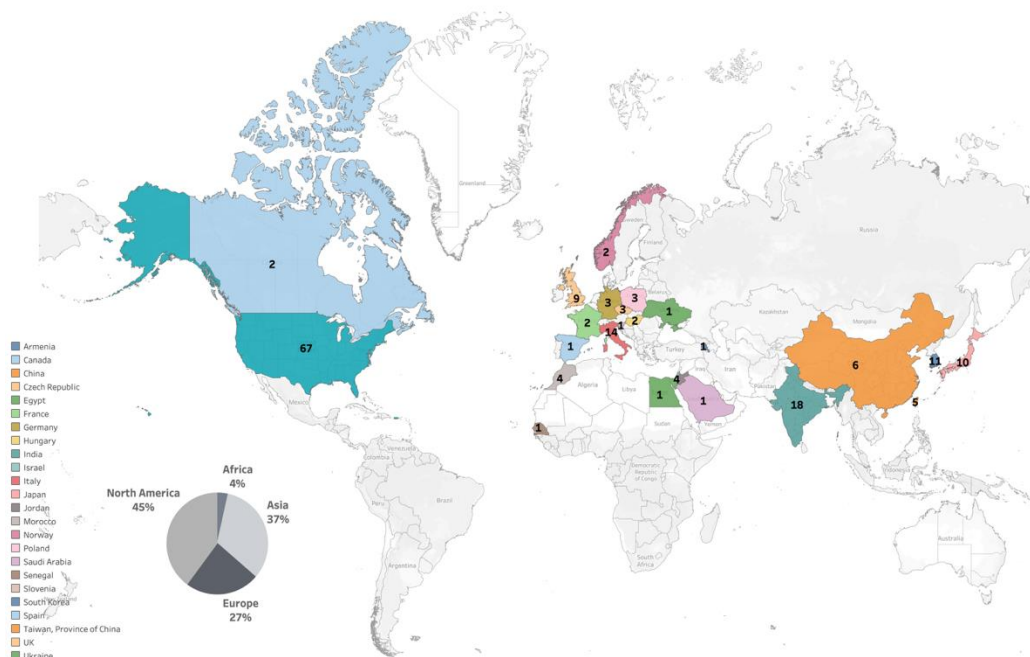
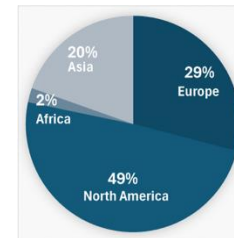
A new (growing) collaboration in HEP/NP

2025 survey: > 1000 collaborators, 173 Institutions, 25 Countries, 4 World regions

Institutions:

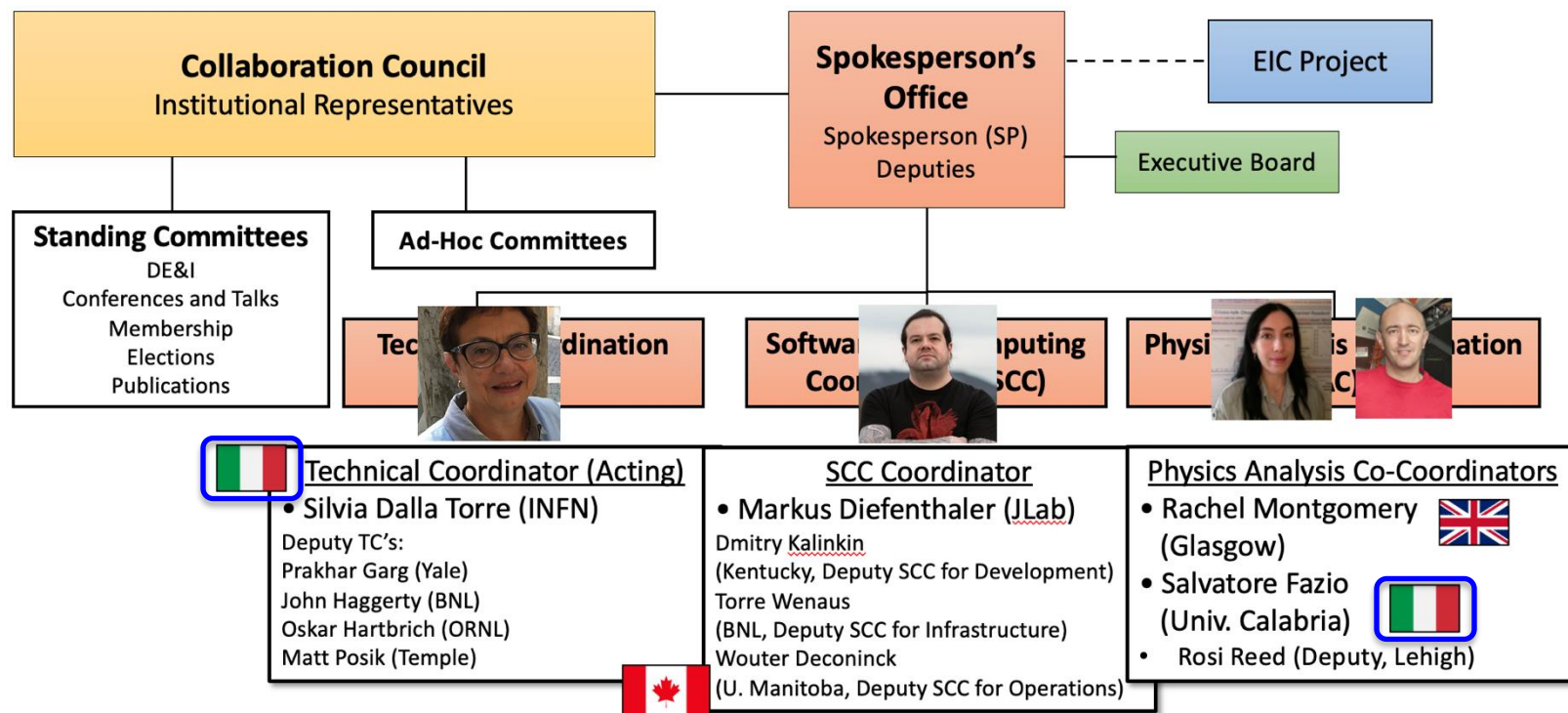


Collaborators:



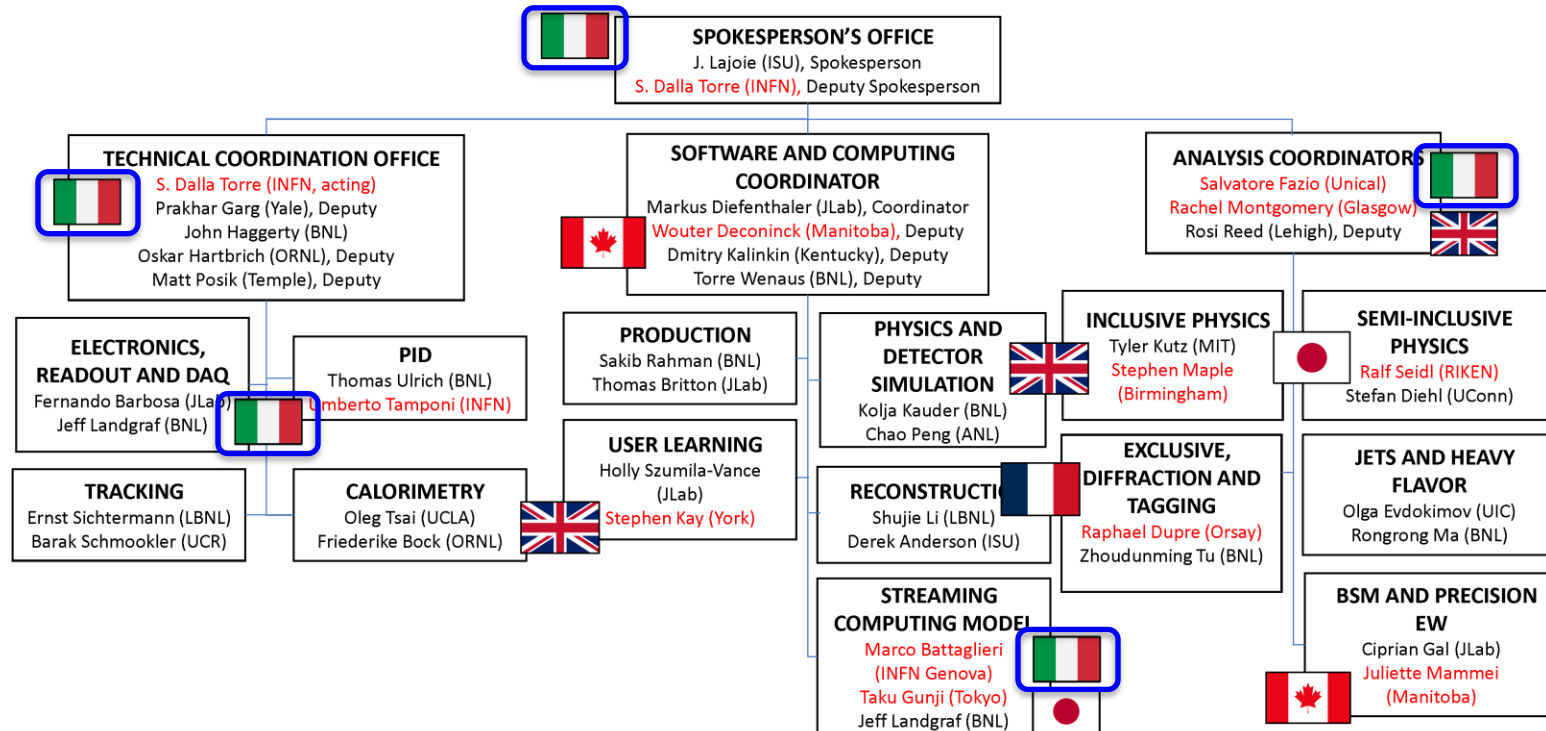
Status of the ePIC Collaboration

The Collaboration structure



Status of the ePIC Collaboration

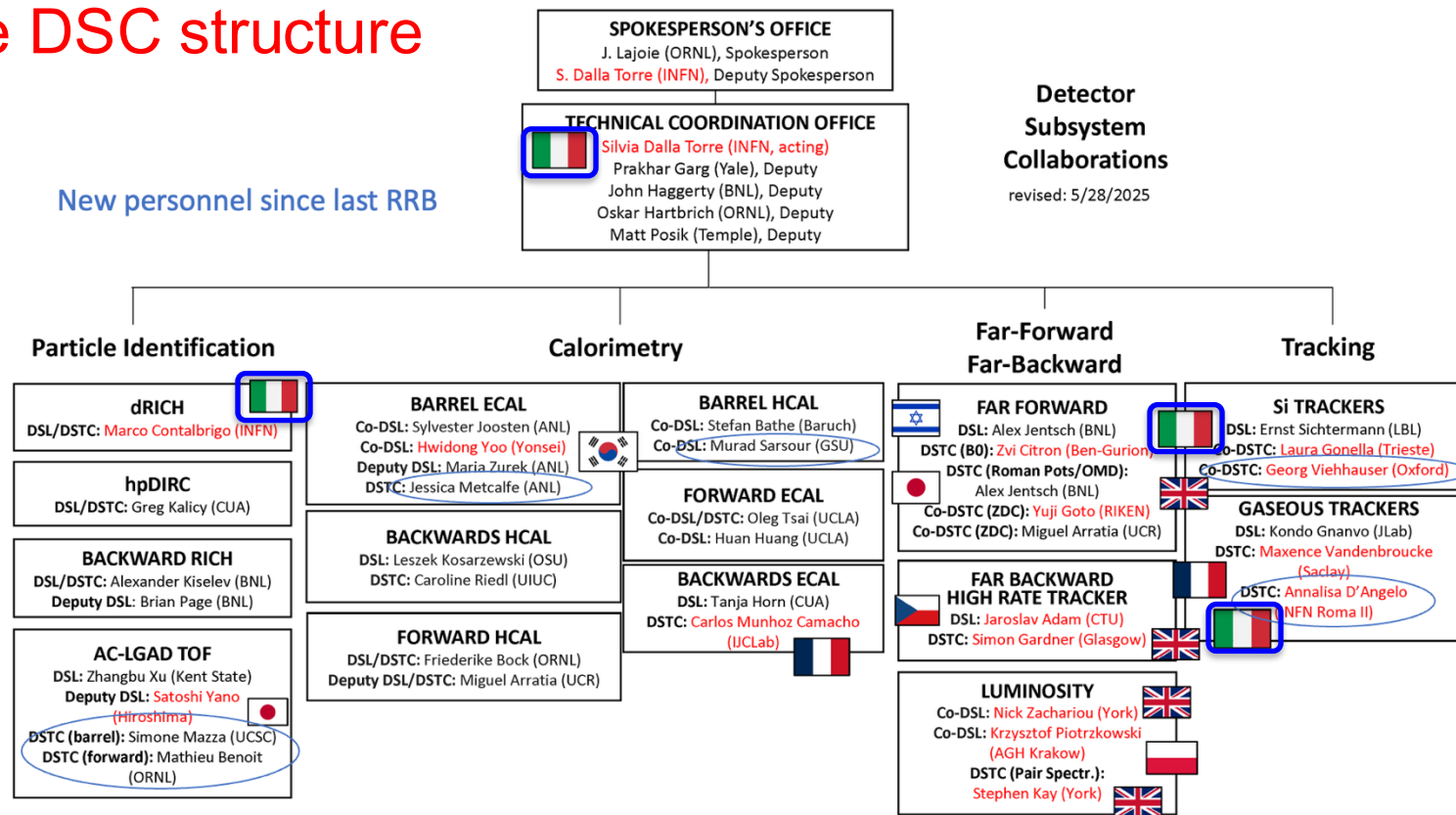
The Working Group structure



Status of the ePIC Collaboration

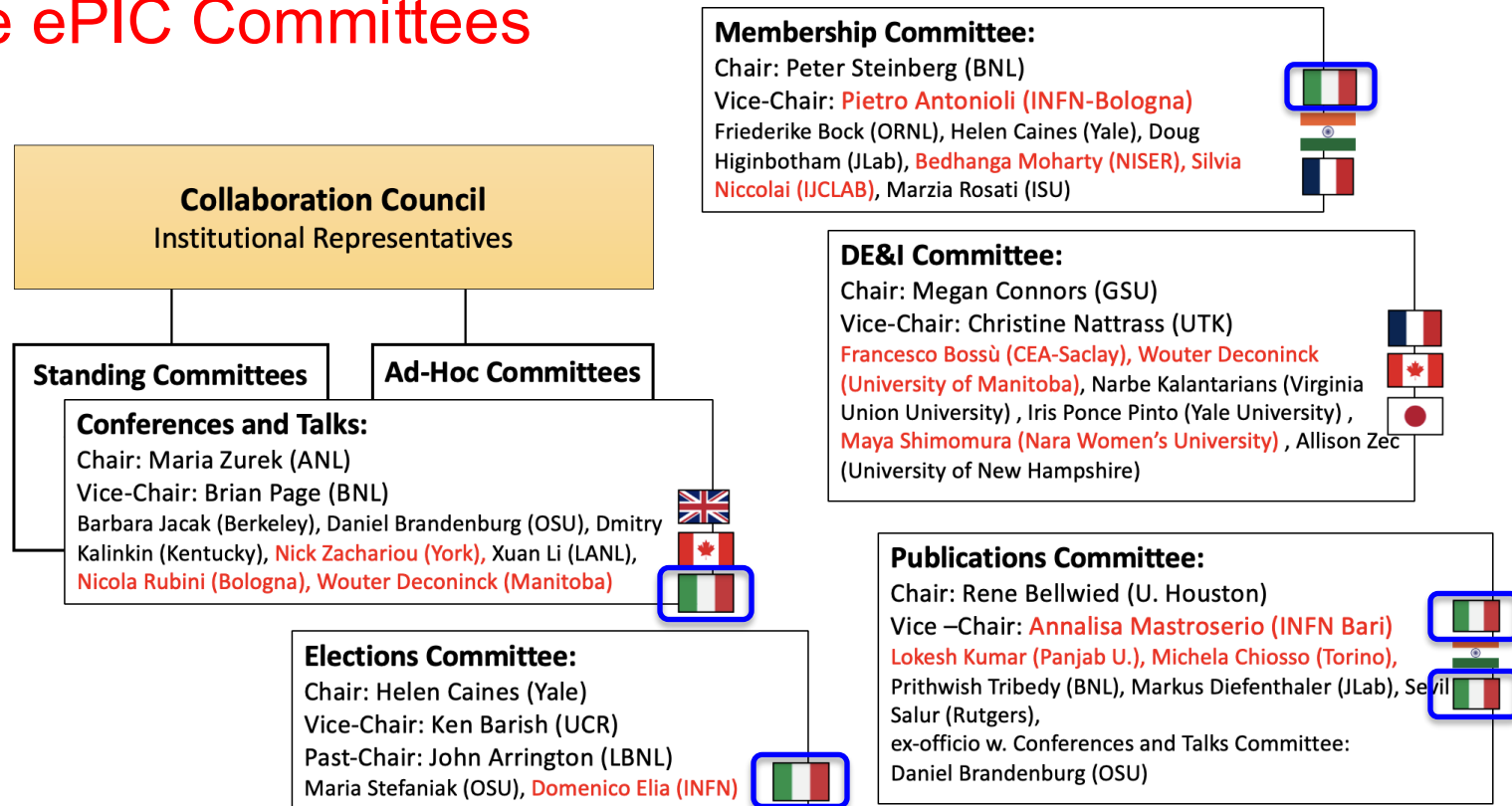
The DSC structure

New personnel since last RRB



Status of the ePIC Collaboration

The ePIC Committees

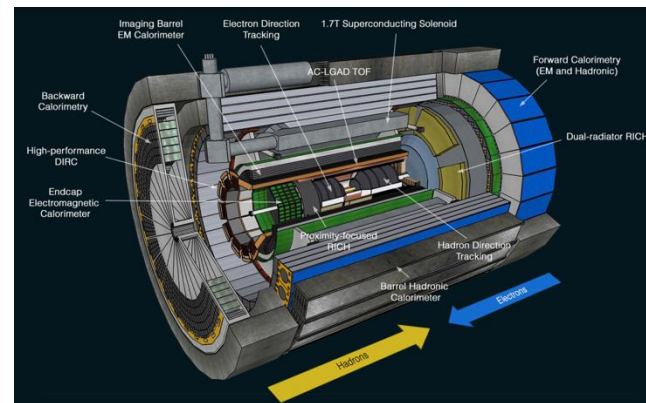


Status of the ePIC Collaboration

Most recent news:

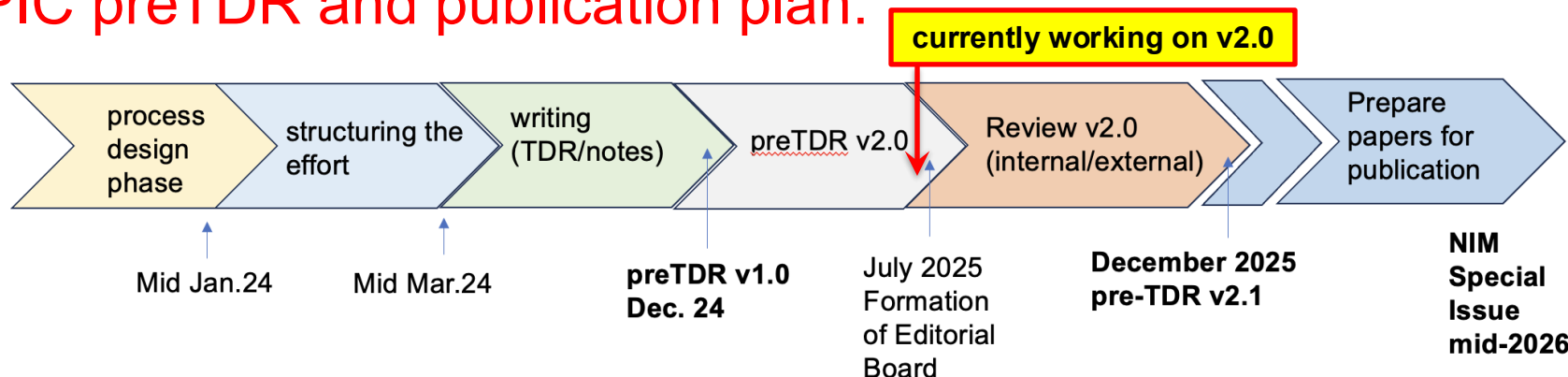
- spokesperson election in February 2025:
 - ✓ **John Lajoie** elected to a second (final) term
 - ✓ **Silvia Dalla Torre** continues as Deputy-SP
- formation of the ePIC Policies well advanced:
 - ✓ Membership (Aug 2024), Conference and Talks (Nov 2024), Code of Conduct (Dec 2024), Results Release (May 2025),
Publication (advanced draft)
- ePIC CERN recognized experiment since March 2025
 - ✓ RE47 in grey book (<https://greybook.cern.ch/experiment/recognized>), individual ePIC group registration ongoing
- elections underway for next ePIC Collaboration Council vice-chair
- incoming elections also for ePIC Committees chair-lines (just over for EICUG SC)
- **summer EICUG/ePIC Collaboration meeting @JLab on July 14-18**

The ePIC detector



Status of the ePIC Collaboration

ePIC preTDR and publication plan:



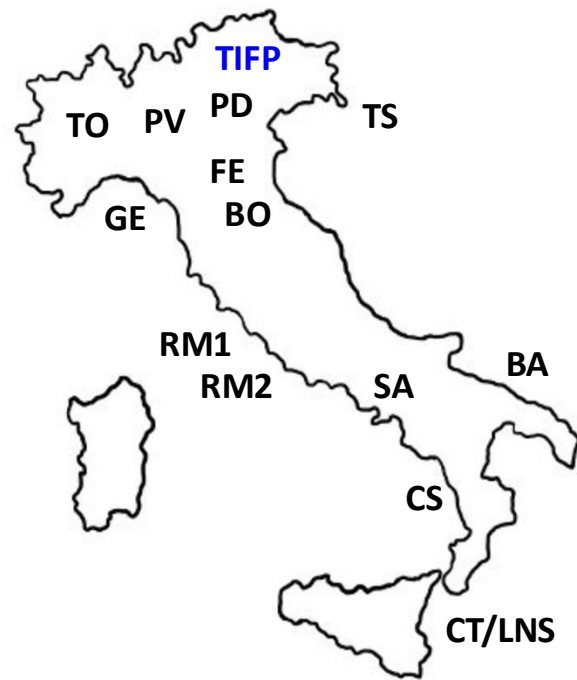
- preTDR version 1.0 ready in Dec 2024
- intent to publish a super-set of the material prepared for the preTDR
 - ✓ longer articles on subsystems, physics performance, etc.
 - ✓ important for collaborators to have a published product for all their hard work
- plan to open a NIM Special Issue at the end of 2025, open for ~6 months

ePIC Italia organization and size

INFN groups and coordination team:

- **15 INFN units:** largest cluster within CSN3
 - ✓ 14 units till 2025, **TIFPA** officially joining from 2026
- **CEI (Comitato ePIC Italia):**
 - ✓ RN, 15 RLs and 1 Theory representative: M. Radici (PV)
- **Coordination team:**
 - ✓ **dRICH:** M. Contalbrigo (FE)
 - ✓ **SVT:** R. Turrisi (PD)
 - ✓ **uRWELL-ECT:** A. D'Angelo (Roma TV)
 - ✓ **Physics:** S. Fazio (CS) + SIDIS subgroup: S. Costanza (PV)
 - ✓ **Computing:** A. Bressan (TS) + deputy: F. Noferini (BO)
 - ✓ **Streaming RO:** M. Battaglieri (GE)
 - ✓ **Outreach:** M. Ruspa (TO)

ePIC Italia INFN units in 2026



ePIC Italia organization and size



Mailing lists and useful links:

- general coordination lists:

- ✓ epic-italia@lists.infn.it
- ✓ epic-italia-staff@lists.infn.it
- ✓ epic-italia-cei@lists.infn.it
- ✓ epic-italia-rl@lists.infn.it

- specific activity coordination lists:

- ✓ epic-italia-drch@lists.infn.it
- ✓ epic-italia-svt@lists.infn.it
- ✓ epic-italia-mrwecl@lists.infn.it
- ✓ epic-italia-physics@lists.infn.it
- ✓ epic-italia-physics-sidis@lists.infn.it
- ✓ epic-italia-outreach@lists.infn.it

- **ePIC Italia indico:** <https://agenda.infn.it/category/1147/>
- **ePIC Italia web pages:** <https://eic-it.infn.it/>



- **ePIC Collaboration indico:** <https://indico.bnl.gov/category/402/>
- EIC and ePIC web site: <https://www.bnl.gov/eic/goals.php>
- EICUG: <https://eicug.org>

Welcome to subscribe if interested, eg startgin from here:

- ✓ ePIC-Italia: https://lists.infn.it/sympa/subscribe/epic-italia?previous_action=info
- ✓ ePIC/EIC/EICUG lists: <https://lists.bnl.gov/mailman/listinfo> (list names about to be updated ...)

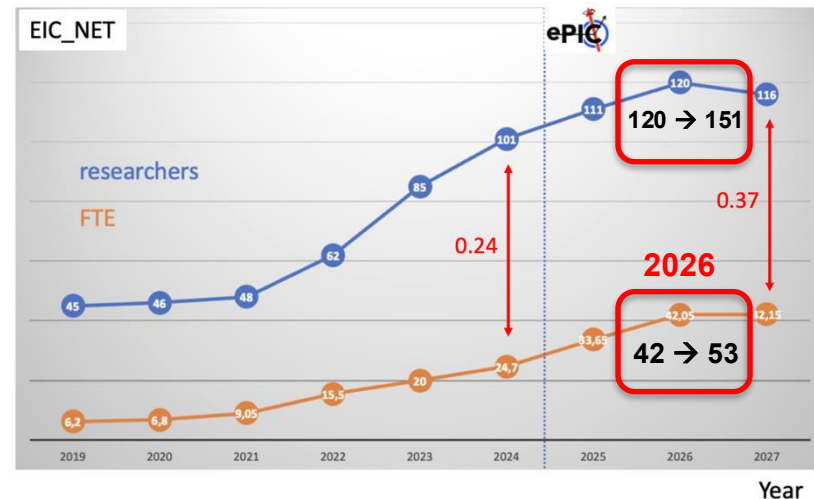
ePIC Italia organization and size

FTE evolution vs 2024 LoI prospects:

FTE: EIC_NET to ePIC (from LoI 2024)

- preliminary 2026 vs final numbers 2025:

Anagrafica		
	2025	2026
Ricercatori	93,0	112,0
Tecnologi	27,0	30,0
Sinergie	6,0	9,0
Ricercatori staff	61,0	65,0
Tecnologi staff	25,0	24,0
FTE Ricercatori	26,6	42,2
FTE Tecnologi	8,9	6,2
FTE Sinergie	3,3	4,5
FTE Ricercatori staff	15,5	18,2
FTE Tecnologi staff	4,9	5,3
Tot Persone	126,0	151,0
Tot FTE	38,8	52,8
FTE/Persona	0,31	0,35



Quite large increase in FTE: 35% (expected ~20%)

- increasing FTE of collaborators (avg FTE 0.31 → 0.35)
- including new interested colleagues/groups (new FTEs)
- doing quite well with DOE-funded contracts (new FTEs)
- prepare for further increase (PhDs, outreach activity etc)

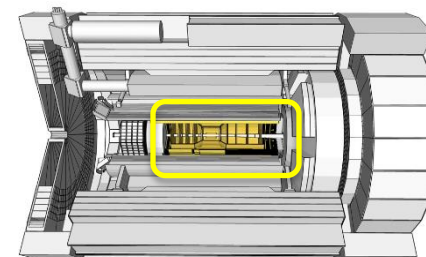
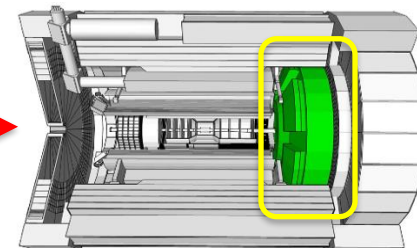
INFN contribution to ePIC

In-kind contribution from INFN:

- **dRICH**: 5.8 M€ (hadron forward PID)
 - ✓ BA BO CS CT LNS FE GE RM1 RM2 SA TO TS
 - ✓ DSC Leader (and Italian coordinator): **M. Contalbrigo** (FE)
- **SVT**: 900 k€ (Inner Barrel of the silicon vertex tracker)
 - ✓ BA PD PV TIFP TS
 - ✓ DSC Technical coordinator: **L. Gonella** (TS)
 - ✓ SVT IB coordinator: **D. Elia** (BA)
 - ✓ Italian coordinator: **R. Turrisi** (PD)
- **uRWELL-ECT**: 500 k€ (forward end-cap disks)
 - ✓ CT GE RM2
 - ✓ DSC Technical coordinator (and Italian coordinator): **A. D'Angelo** (Roma TV)

Total INFN IKC well defined: 7.2 M€

- same numbers since INFN Eol 2020
- officially re-stated by INFN management



Total of 21 INFN people in various coordination roles both in ePIC Italia and in the ePIC Collaboration

INFN contribution to ePIC

Updated multi-year financial plan (includes 2031):

- what is new: 2026-2030 profile updated including 2031 (missioni, R&D, IKC)

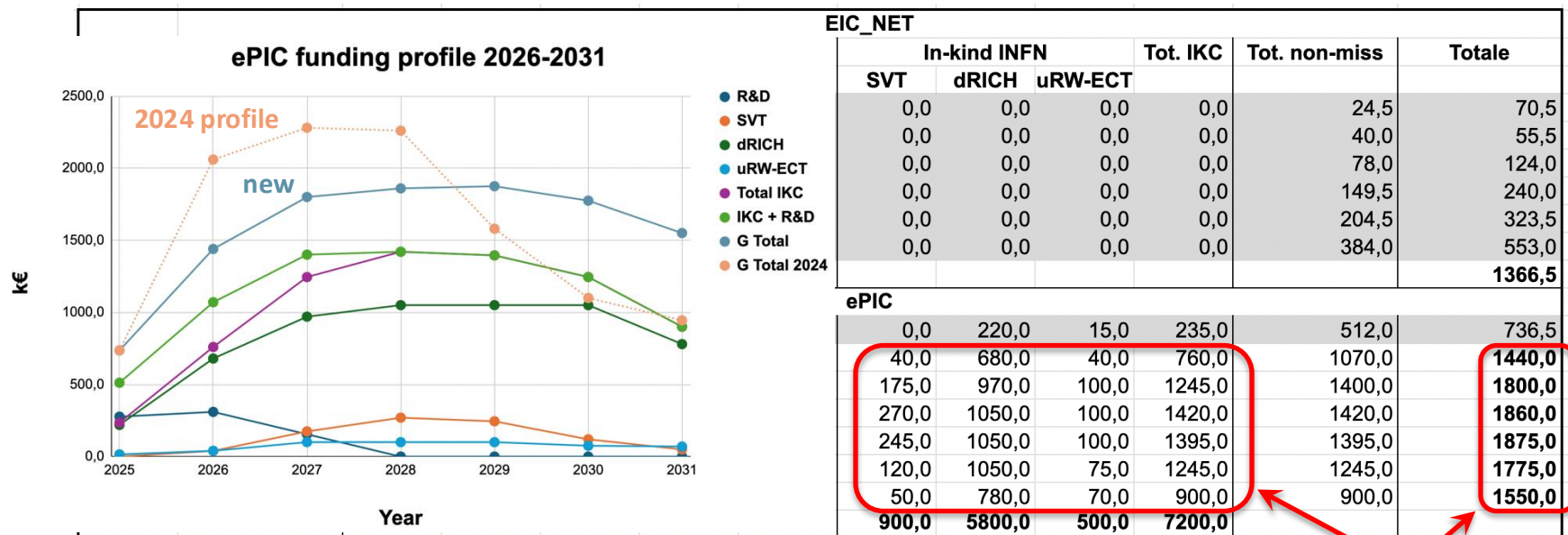
EIC_NET												
	Missioni	R&D				Tot. R&D	In-kind INFN			Tot. IKC	Tot. non-miss	Totale
		SVT	dRICH	uRW-ECT	SRO		SVT	dRICH	uRW-ECT			
2019	46,0	0,0	19,0	0,0	5,5	24,5	0,0	0,0	0,0	0,0	24,5	70,5
2020	15,5	0,0	33,5	0,0	6,5	40,0	0,0	0,0	0,0	0,0	40,0	55,5
2021	46,0	0,0	72,0	0,0	6,0	78,0	0,0	0,0	0,0	0,0	78,0	124,0
2022	90,5	0,0	149,5	0,0	0,0	149,5	0,0	0,0	0,0	0,0	149,5	240,0
2023	119,0	0,0	198,5	0,0	6,0	204,5	0,0	0,0	0,0	0,0	204,5	323,5
2024	169,0	15,0	349,0	5,0	15,0	384,0	0,0	0,0	0,0	0,0	384,0	553,0
						880,5						1366,5
ePIC												
2025	224,5	49,0	205,0	19,5	3,5	277,0	0,0	220,0	15,0	235,0	512,0	736,5
2026	370,0	60,0	200,0	30,0	20,0	310,0	40,0	680,0	40,0	760,0	1070,0	1440,0
2027	400,0	30,0	100,0	20,0	5,0	155,0	175,0	970,0	100,0	1245,0	1400,0	1800,0
2028	440,0	0,0	0,0	0,0	0,0	0,0	270,0	1050,0	100,0	1420,0	1420,0	1860,0
2029	480,0	0,0	0,0	0,0	0,0	0,0	245,0	1050,0	100,0	1395,0	1395,0	1875,0
2030	530,0	0,0	0,0	0,0	0,0	0,0	120,0	1050,0	75,0	1245,0	1245,0	1775,0
2031	650,0	0,0	0,0	0,0	0,0	0,0	50,0	780,0	70,0	900,0	900,0	1550,0
							900,0	5800,0	500,0	7200,0		

Total IKC: 7.2 M€

INFN contribution to ePIC

Updated multi-year financial plan (includes 2031):

- what is new: 2026-2030 profile updated including 2031 (missioni, R&D, IKC)



Mitigated extending to 2031, best profile still to be discussed

Miscellanea

- EICO charter draft presented to the RRB
 - ✓ to be checked by FAs and approved at the next RRB in November
 - ✓ shared in the past months with INFN C3SN (computing steering committee)
 - ✓ more in Andrea's talk on Wednesday
- Discussion on Common Funds continues
 - ✓ dedicated WG (P Giubellino for INFN) still tuning contribution size and evolution
 - ✓ to start ~2028-2030, compensation with in-kind for INFN to be discussed
- Possibility to access DOE funding for PED FY26
 - ✓ more in the planning discussion on Wednesday
- Recent and incoming elections
 - ✓ EICUG SC: ballots open till June 10, **Marta running as SC vice-chair**
 - ✓ ePIC Committees: incoming, **Susanna running as DE&I Committee vice-chair**

(Instead of a) Summary

... five good reasons to be in ePIC:

1. Unique timeline and prospects
 - ✓ EIC is the only novel HEP collider in the next 10-20 years
2. Broad physic scope and key science questions
 - ✓ EIC will allow high-precision ultimate QCD exploration
3. Mix of established and novel detector technologies
 - ✓ unique environment for enabling future technologies
 - ✓ virtuos scenario for R&D synergies, eg with LHC upgrades “2b”
4. Growth opportunity for young scientists
 - ✓ get involved in a large HEP/NP project since the early phases
5. **ePIC Italia enthusiastic and inclusive community!**

