



Sponsoring Consortium for
Open Access Publishing in Particle Physics

10 years of SCOAP³:

Achieving the transition to OA for an entire discipline

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What is SCOAP³?

- **Sponsoring Consortium for Open Access Publishing in Particle Physics**
- **Mission:**
 - SCOAP³ enables open access publishing in the field of high-energy physics, helping to remove financial and administrative barriers to science
- **International collaboration launched in 2014**
- **Partnership consisting of 3000+ libraries, research institutions and international research organizations from 45 countries (and growing)**
- **11 of the leading journals in the discipline of high energy physics**

2007: The Origins of SCOAP³

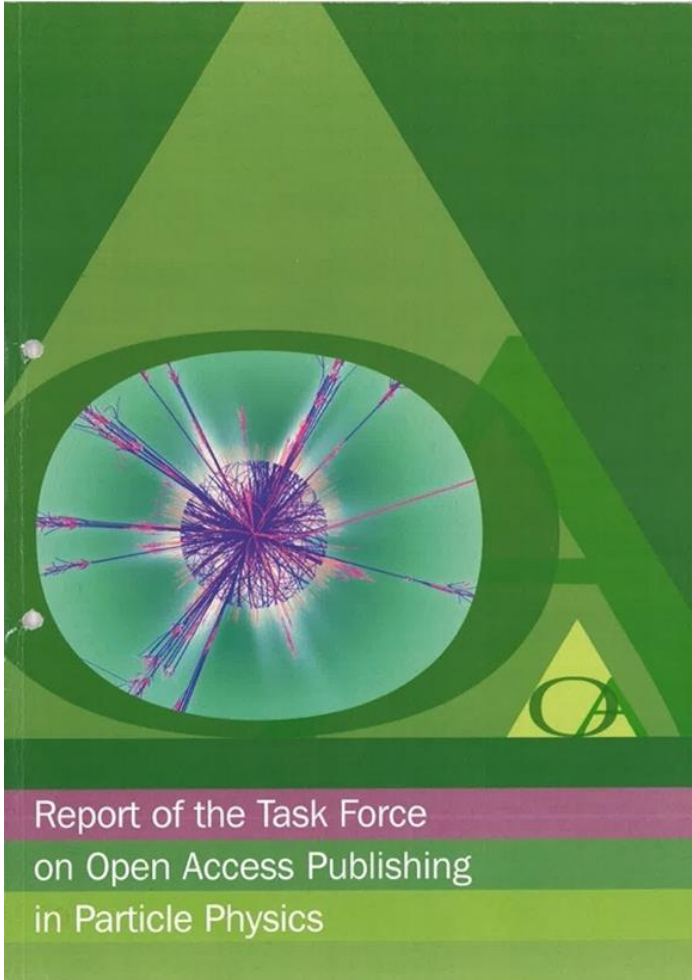


Authors want the widest possible audience for their scientific publications. To enable this, a global transition of the scholarly publishing model was needed and CERN was the only institution in our field to initiate such a change.

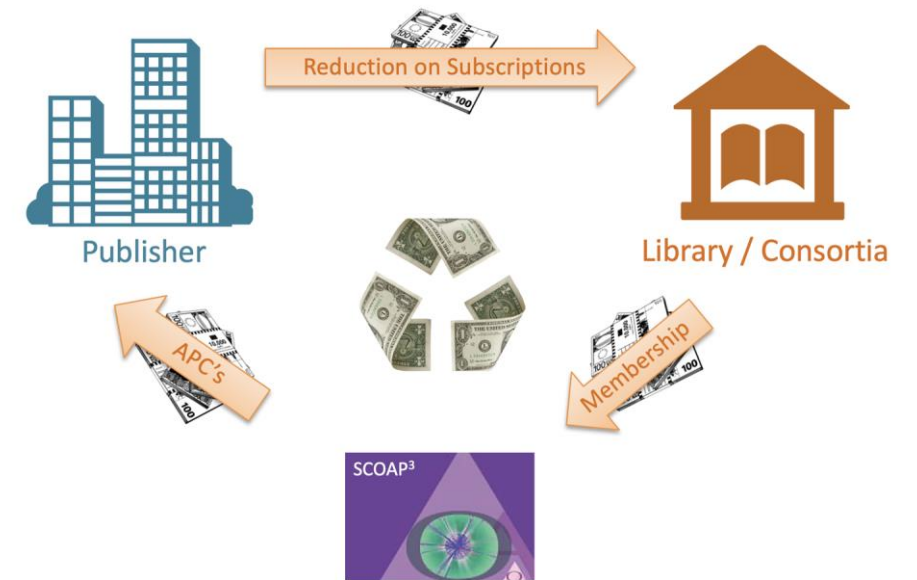
Robert Aymar, August 2022

Robert Aymar described his vision of a transition towards open access in 2007 during an interview with BMC available on YouTube (<https://youtu.be/qkBRPJsmVXQ>)...

2007–2008: Developing the operational model of SCOAP³



...reuse funds previously spent by libraries to subscribe to HEP journals... to pay centrally for OA publishing



SCOAP³ Timeline



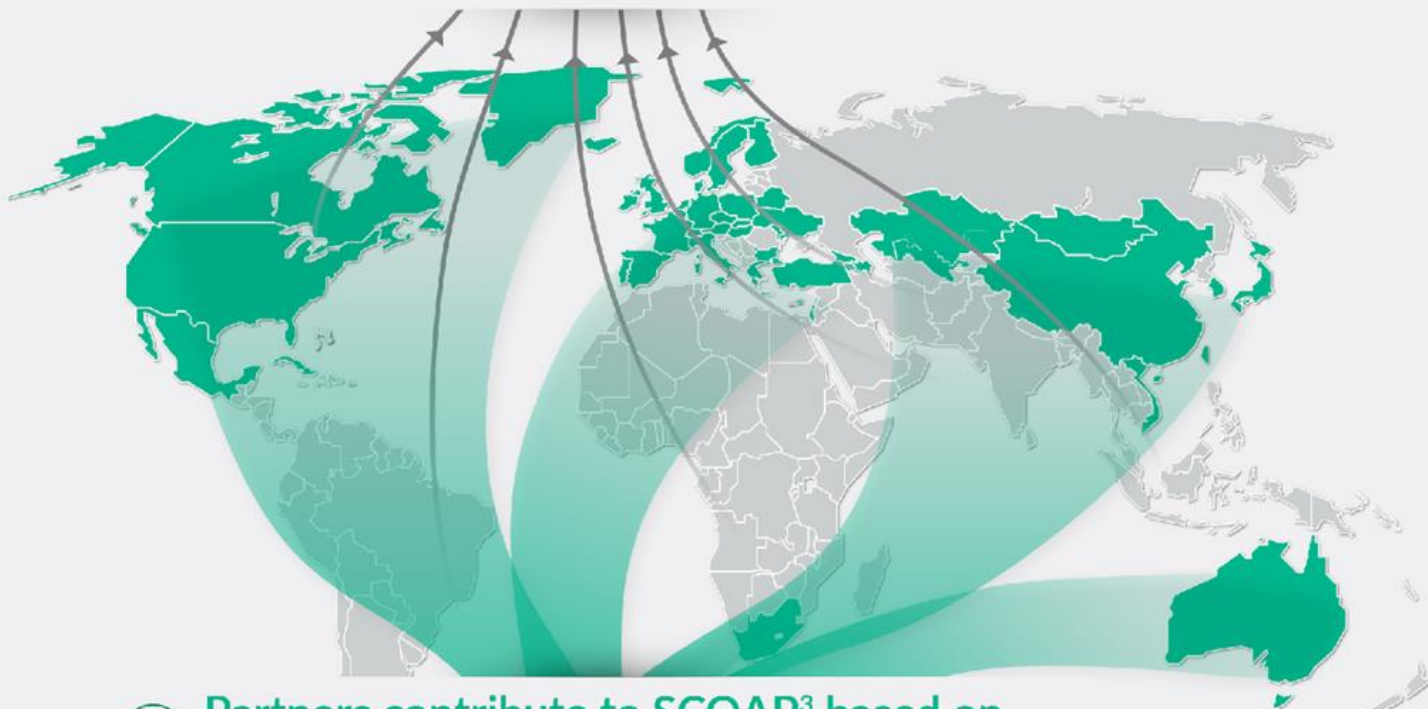
SCOAP³ – How does it work?




 No publication costs for authors worldwide



Research articles are published fully Open Access with CC-BY licenses



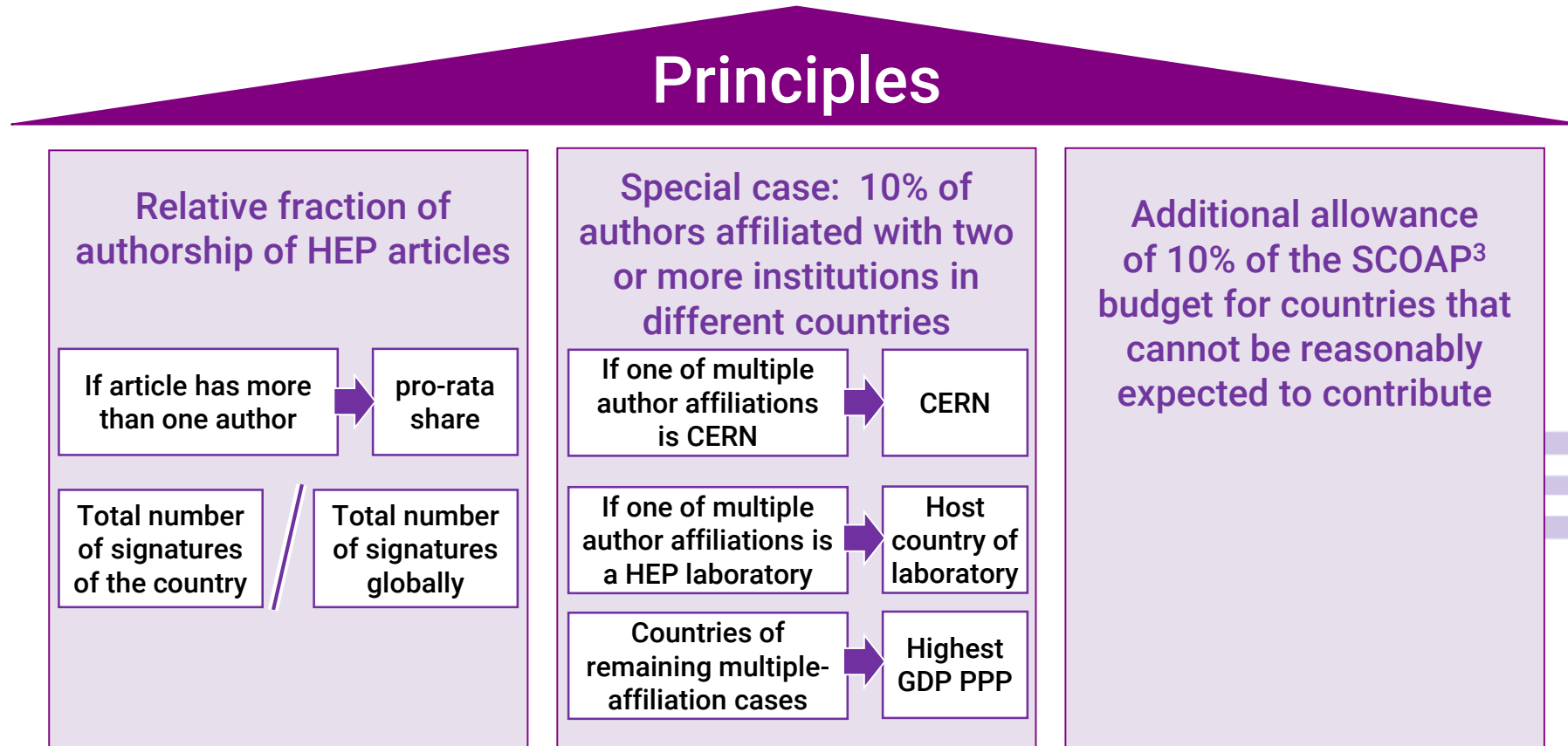
 Partners contribute to SCOAP³ based on their share of the published literature



SCOAP³ centrally pays for Open Access publishing services



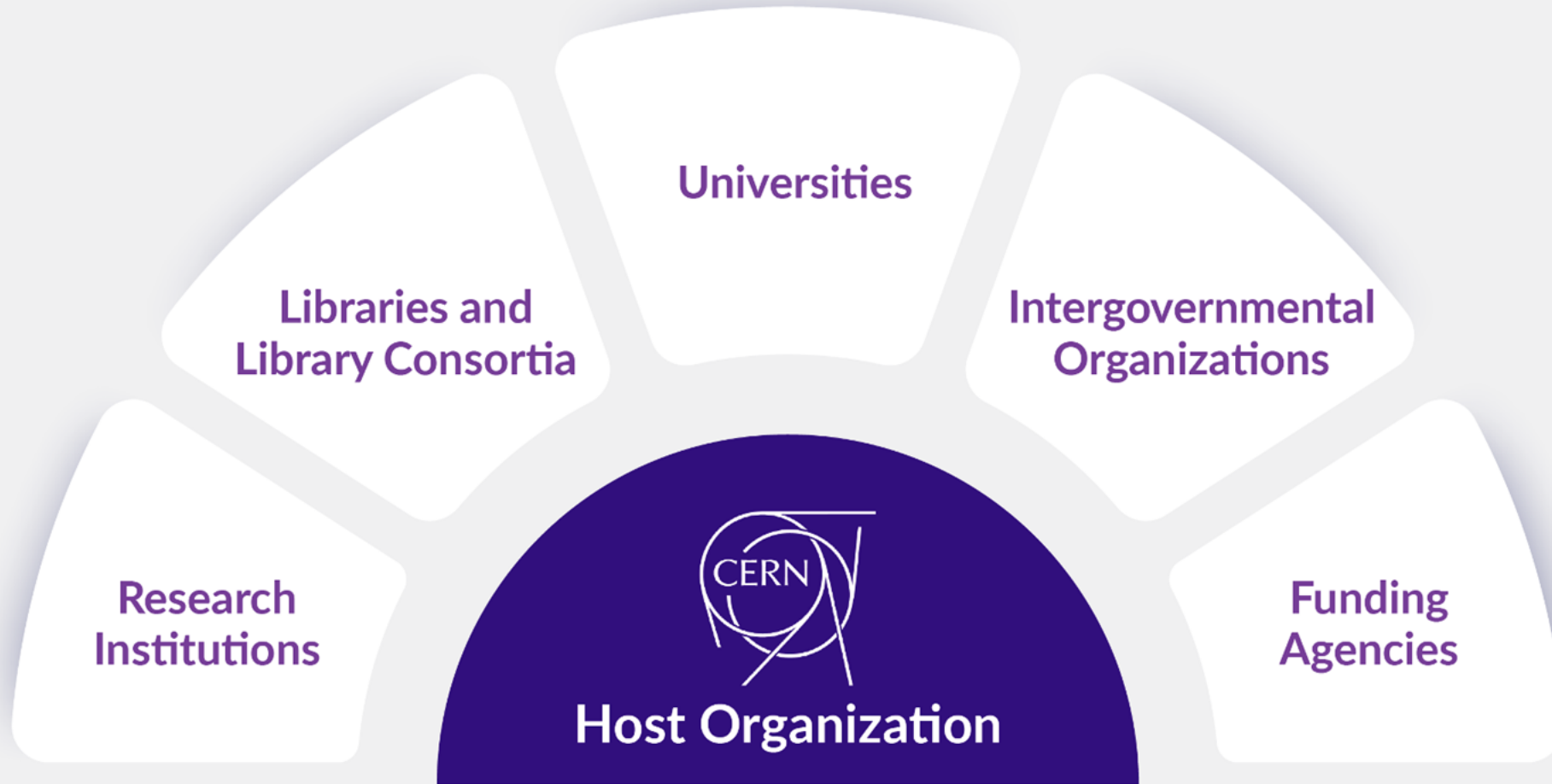
Calculating equitable partner contributions, i.e. “Fair Share”



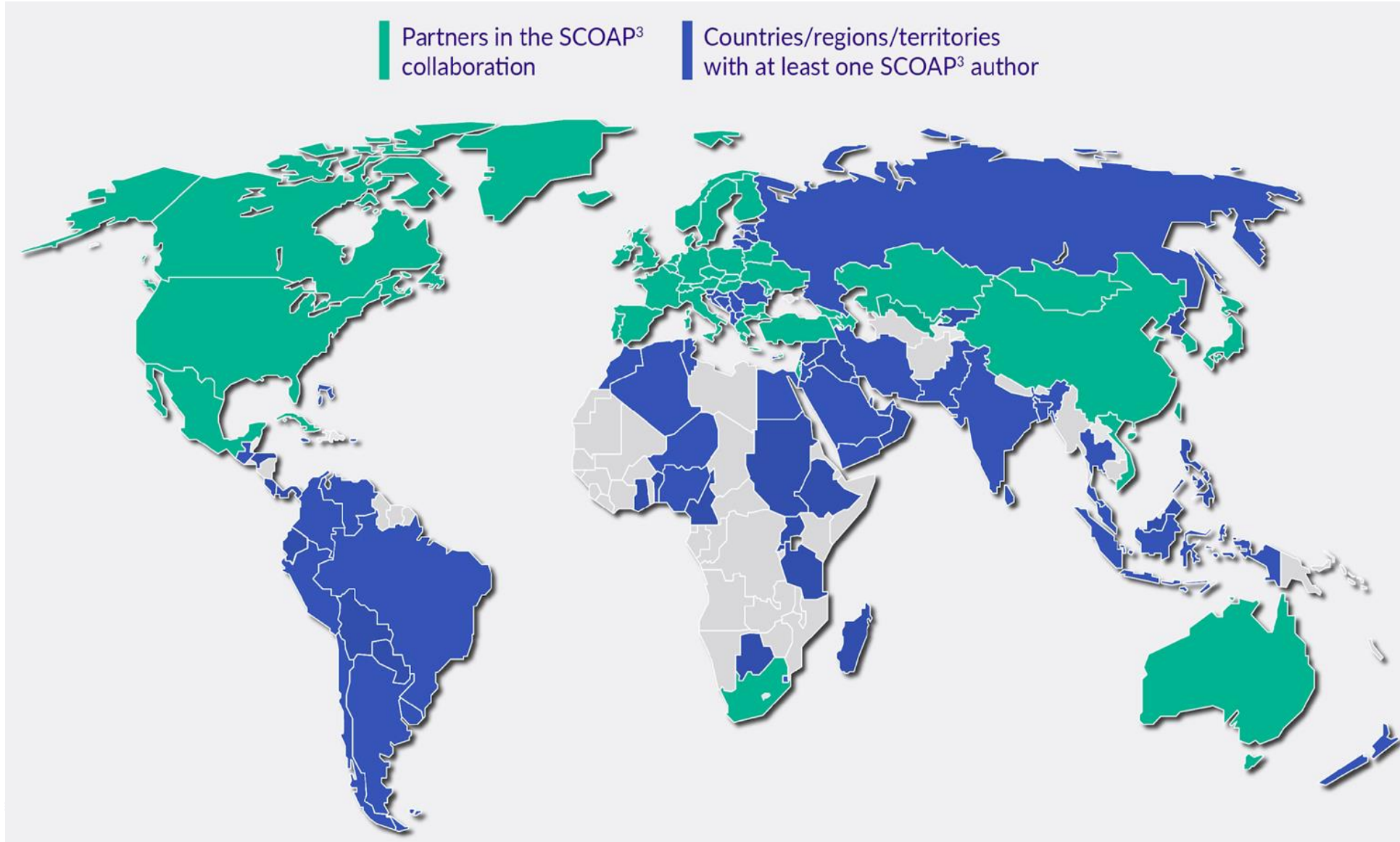
E.g.: L. Pavarotti (IT), W.A. Mozart (GR, AT), G. Gershwin (USA, CERN) \boxtimes 1/3 IT; 1/3 AT; 1/3 CERN

SCOAP³ Governance

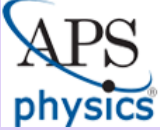








A global consortium with participatory governance operated by CERN



Achieving research communication in HEP as a global public good



First 10 years (2014-2023): 62,560 articles funded (90+ % of all HEP)

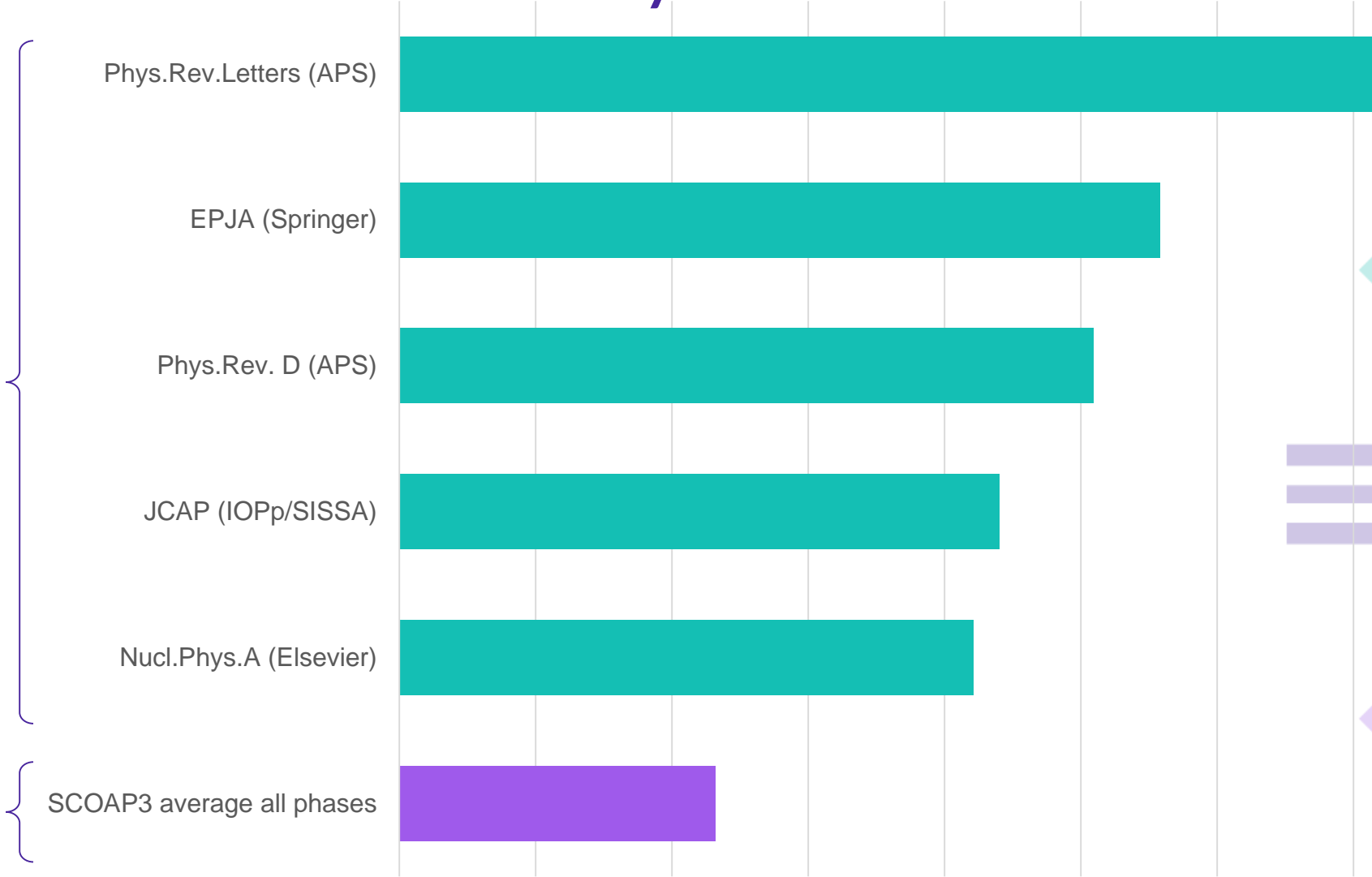
Publisher	Journal	Articles
 Joined in 2018	Physical Review C	516
	Physical Review D	13,076
	Physical Review Letters	8,263
 ELSEVIER	Nuclear Physics B	3,060
	Physics Letters B	8,263
 Hindawi	Advances in High Energy Physics	1,120
 IOP Publishing	Chinese Physics C	740
	New Journal of Physics	25
	J. Cosm. and Astroparticle Physics	654
 JAGIELLONIAN UNIVERSITY IN KRAKOW	Acta Physica Polonica B	165
  OXFORD UNIVERSITY PRESS	Progress of Theor. and Exp. Physics	841
  Springer	European Physical Journal C	9,500
	J. High Energy Physics	22,949



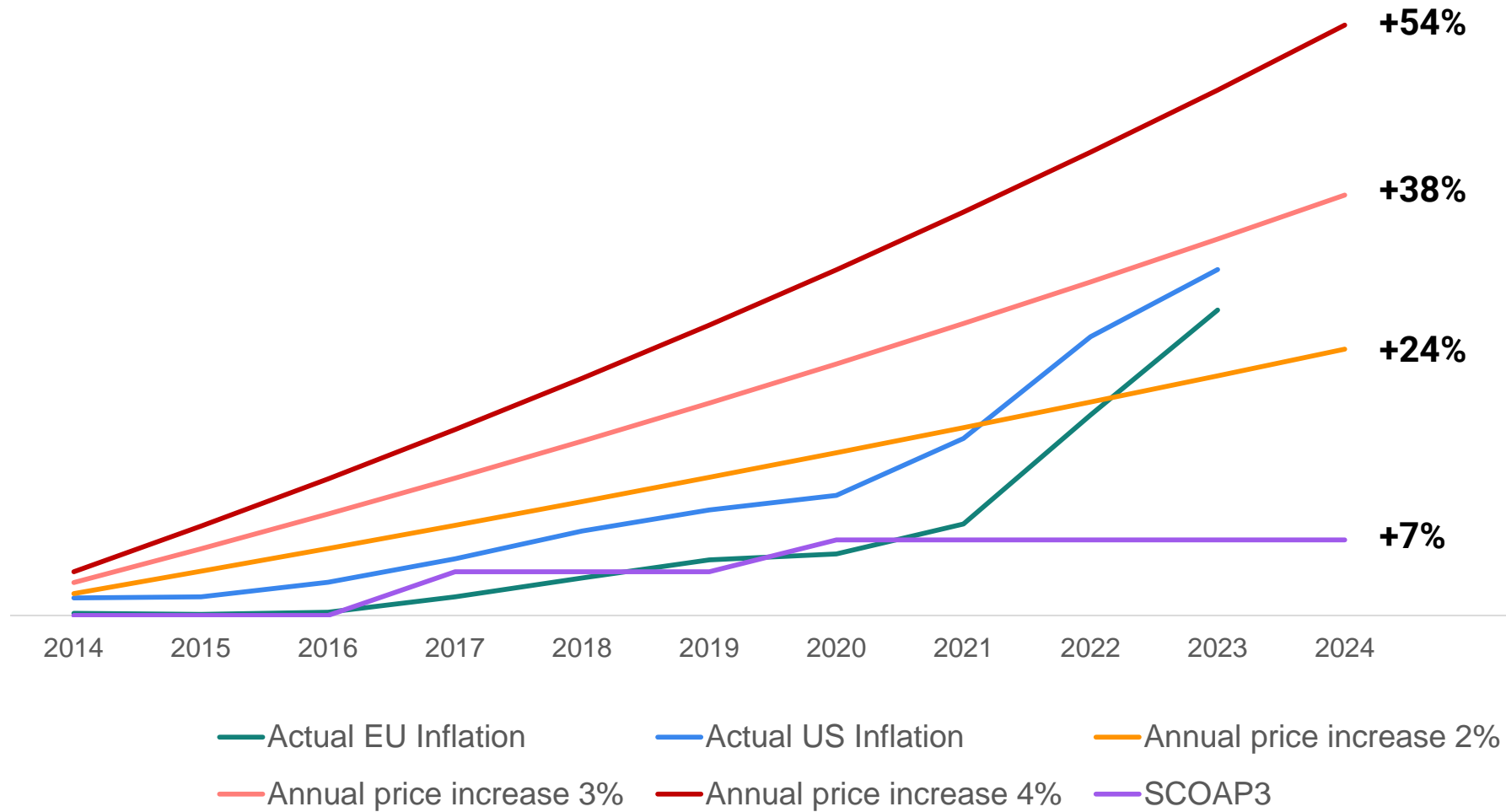
Continued best-in-class value for money...

List price APCs of comparable journals

Effective cost per article for SCOAP³



...allows stable prices for SCOAP³ partners



Phase 4 of SCOAP³: from Open Access to Open Science

- **Disciplinary OA has been achieved and sustained for a decade**
- **No new journals are to be considered for inclusion**
- **Mechanism to financially incentivize publishers on delivery of Open Science Elements that situate publications in HEP more readily for OS future**
 - **Adjustment of financial compensation to publishers**
 - **Based on comparative scoring performance with other SCOAP3 publishers**
 - **Pioneering OS elements leading to better service quality and innovative compensation mechanism**

Open Science Elements

Open Science Elements	Definition
Accessibility	Removing barriers to accessing content for people with disabilities by following WCAG guidelines.
Dataset Linking	Enabling linking between articles and related datasets; improve/incentivize publishing of data as supplementary material associated with publications
Transparent Peer Review	Offer open or public peer-review services which provide both authors and reviewers options to publish peer-review reports
ORCID adoption	Integrate ORCID submission for all (co)authors into the publishing process and ensure systematic distribution of ORCIDs in subsequent metadata feeds
ROR adoption	Integrate ROR submission for institutional identification into the publishing process and ensure systematic distribution of RORs in subsequent metadata feeds
SCOAP ³ Community Values Disclosures	Provide transparent statements on core business practices related to defined community values (see next slide)
Software Linking	Enabling linking between articles and related research software; improve/incentivize publishing of software as supplementary material associated with publications
Standardized metadata provision	Provide enriched article metadata in a consistent, standardized, community-determined format; include abstracts and references

Open Science Elements (cont'd)

Open Science Element	Values
SCOAP ³ Community Values Disclosures	Diversity, Equity & Inclusion: in aspects ranging from the profile of authors/first-time submitters; diversity in career stages; geographical diversity (in publishing and editorial practices); gender equity; etc.
	Sustainability: adopting practices to reduce their carbon emissions and address sustainability issues within their operations towards becoming net-zero businesses.
	Data Privacy: adopting practices to protect the privacy of users consistent with the European Union's General Data Protection Regulation (GDPR).
	Financial Transparency: engaging in emerging price transparency frameworks.
	Referee Recognition/Compensation: demonstrating transparency in how the work of referees is acknowledged/ recognized/compensated.
Publication transparency: publication of journal metrics such as acceptance rates and desk rejection rates	



Critical reflection on SCOAP³

- Why has SCOAP³ not been replicated?
 - High organizing costs of global collective (borne by CERN in SCOAP³)
- SCOAP³ potentially created barrier to new outlets in discipline
 - Ease of publishing for global authors may prevent authors publishing in alternate journals
- Is SCOAP³ even needed?
 - Prevalence of preprint culture may make OA redundant