Classical Transnational Access To Optical Telescopes (WP15)

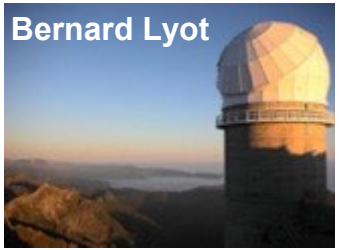
Dan Dicken – UKATC

23rd May 2025

Funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 101004719.

Optical Transnational Access - In numbers

13 observatories……

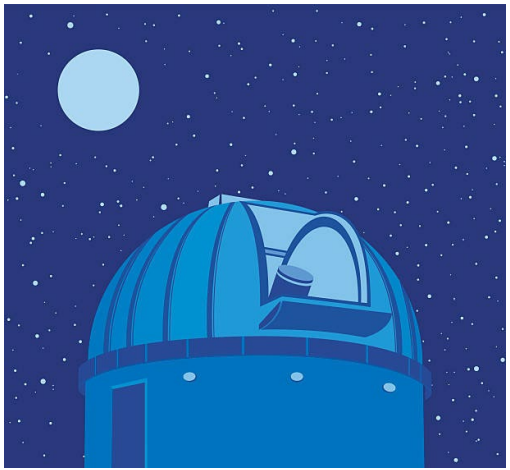


OPTICON RadioNet Pilot

Optical Transnational Access - In numbers

8 Semesters……

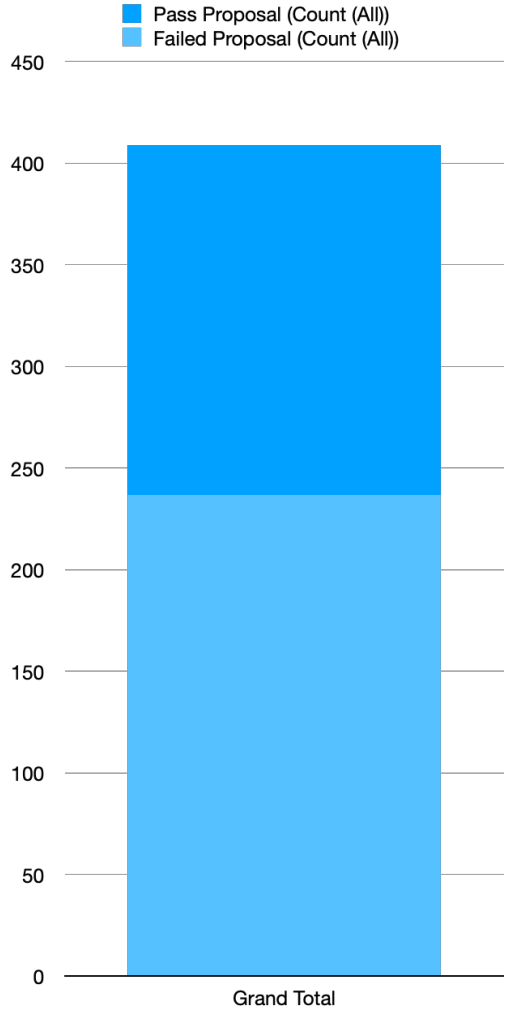
2021A	2021B	2022A	2022B	2023A	2023B	2024A	2024B



Optical Transnational Access - In numbers

409 proposals……

	Failed	Pass	Grand Total
Proposal count	237	172	409



OPTICON RadioNet Pilot

Optical Transnational Access - In numbers

128 hours of TAC meetings……

Osservatorio Astronomico di Brera - Milan

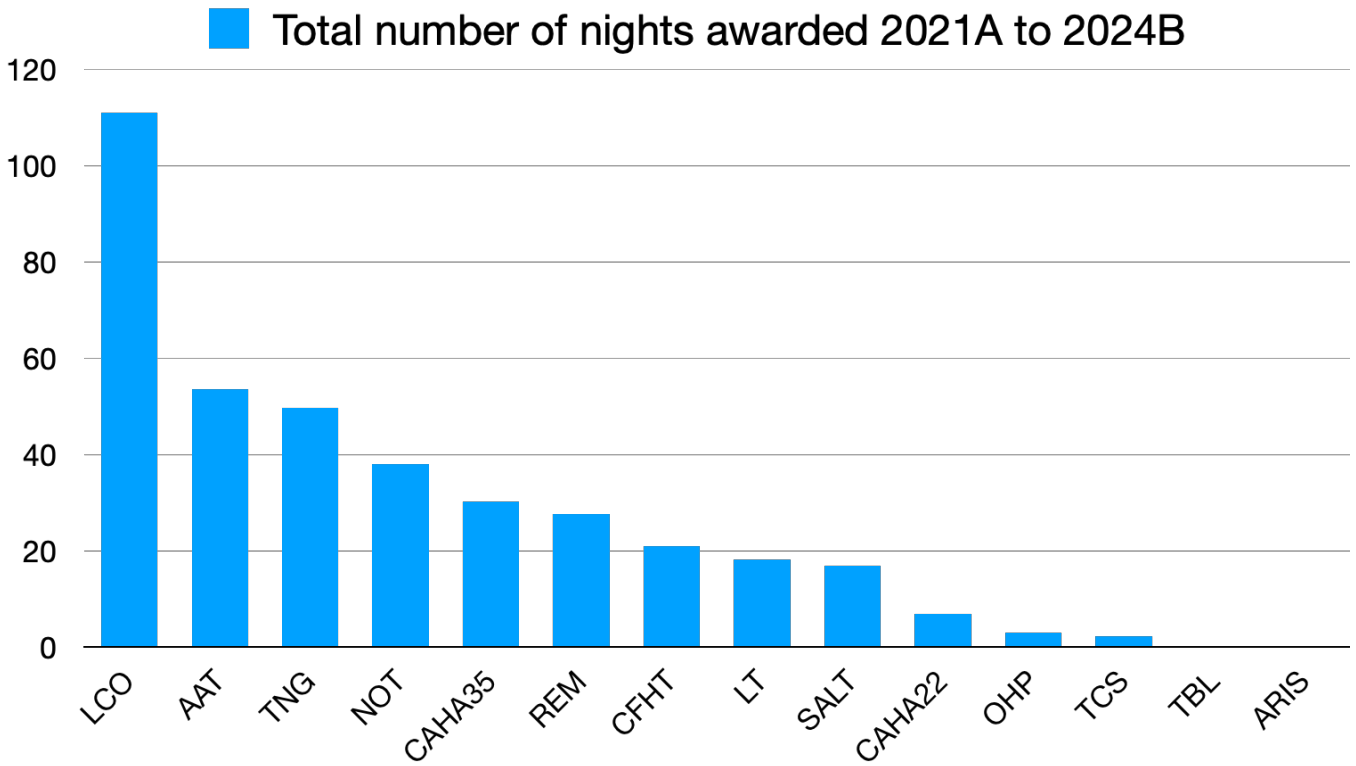
Final call - 2024B review meeting in May in Milan

Included multi-facility proposals

Name	Organisation	Country
Ismael Perez Fournon	IAC	Tenerife Spain
Thomas Hackman	University of Helsinki	Finland
Edita Stonkute	University of Vilnius	Lithuania
Tom Wilson	University of St. Andrews	UK
Elme Breedt	University of Cambridge	UK
Paola Severgnini	INAF-Osservatorio Astronomico di Brera	Italy
Emeric Lefloch	CEA - Saclay	France

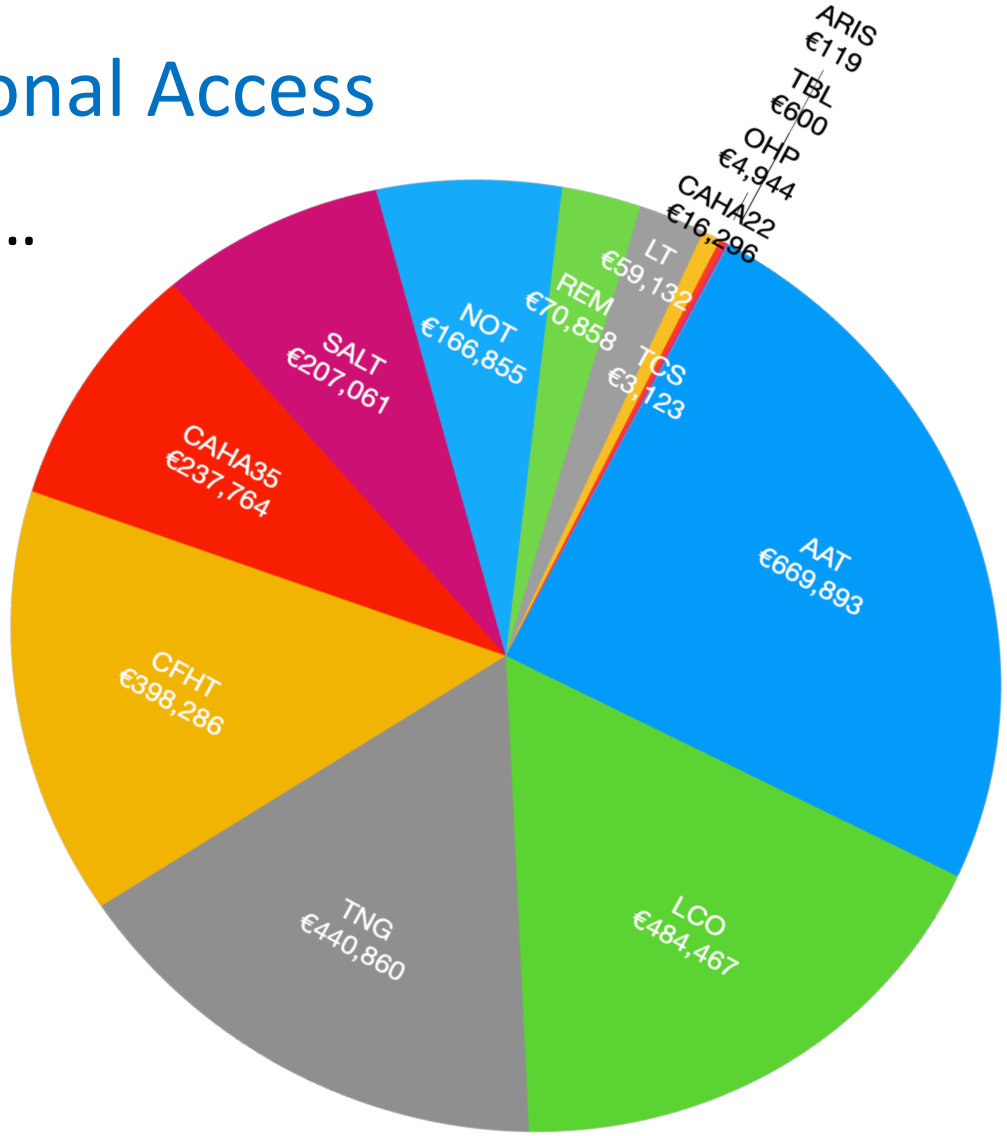
Optical Transnational Access - In numbers

379 nights of access provided ……



Optical Transnational Access

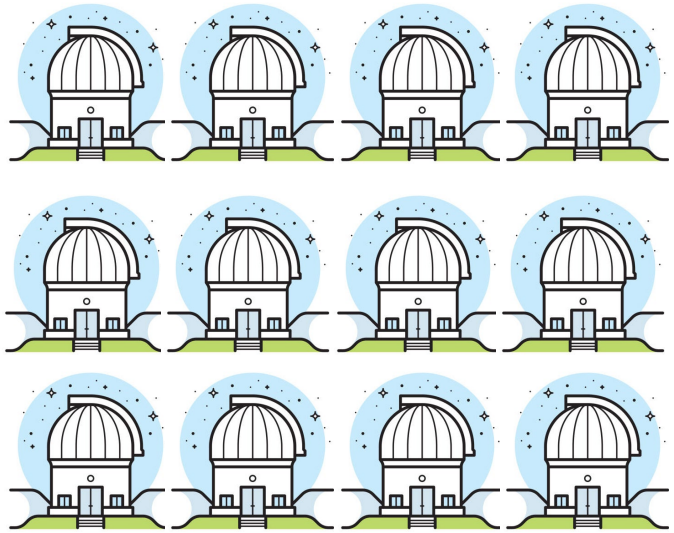
€2,747,663 awarded……



OPTICON RadioNet Pilot

Optical Transnational Access - In numbers

28 Multi-facility proposals awarded……

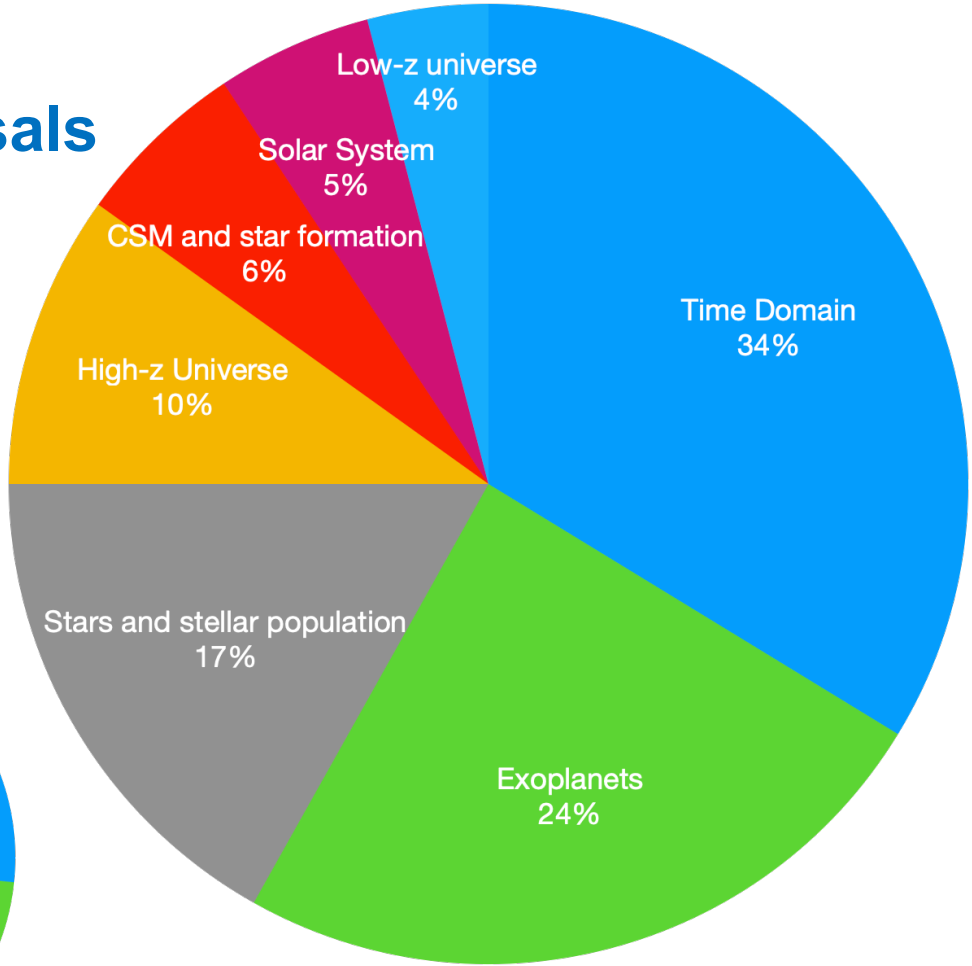


17% of all awarded proposals

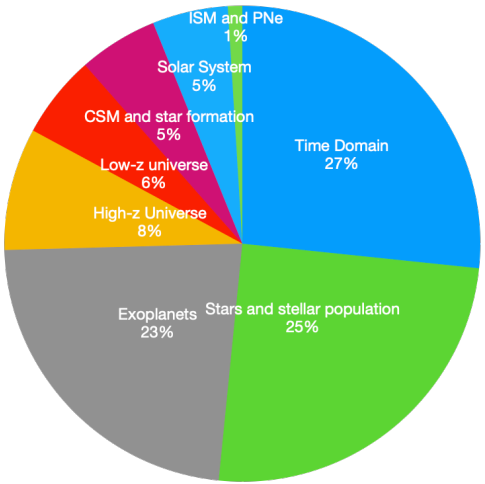
Telescopes combinations	Successful proposals
NOT/TNG	12
CAHA35/TNG	2
NOT/TNG/LT	2
NOT/SALT/TCS/LT/LCO/REM	2
LT/TNG	1
CAHA35/CFHT	1
AAT/CFHT	1
AAT/NOT	1
LCO/LT	1
LT/ARIS	1
SALT/LT/LCO	1
SALT/LT/LCO/REM	1
SALT/REM	1
TNG/LCO	1

Science themes

Funded proposals



All proposals



OPTICON RadioNet Pilot

AUTHORS
COLLECTIONS
REFEREED
refereed 179
INSTITUTIONS
KEYWORDS
PUBLICATIONS
BIB GROUPS
SIMBAD OBJECTS
NED OBJECTS
DATA
VIZIER TABLES
PUBLICATION TYPE

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1 2025A&A...697A..57B 2025/05
AT2021uey: A planetary microlensing event outside the Galactic bulge
Ban, M.; Voloshyn, P.; Adomavičienė, R. *and 42 more*

2 2025A&A...697A..32S 2025/05
Precise radial velocities of giant stars: XVII. Distinguishing planets from intrinsically induced radial velocity signals in evolved stars
Spaeth, Dane; Reffert, Sabine; Trifonov, Trifon *and 6 more*

3 2025ApJ...983...78P 2025/04 cited: 1
X-Ray Polarization of the High-synchrotron-peak BL Lacertae Object 1ES 1959+650 during Intermediate and High X-Ray Flux States
Pacciani, Luigi; Kim, Dawoon E.; Middei, Riccardo *and 130 more*

4 2025A&A...696A.202S 2025/04 cited: 2
ALMA-IMF: XVIII. The assembly of a star cluster: Dense N_2H^+ (1–0) kinematics in the massive G351.77 protocluster
Sandoval-Garrido, N. A.; Stutz, A. M.; Álvarez-Gutiérrez, R. H. *and 20 more*

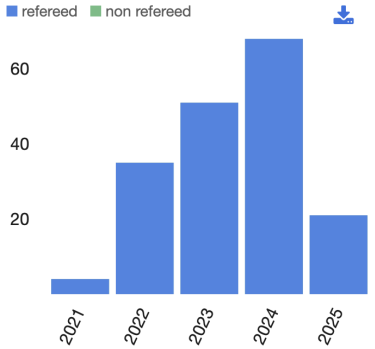
5 2025A&A...696A..88W 2025/04
JWST + ALMA ubiquitously discover companion systems within ≲18 kpc around four $z \approx 3.5$ luminous radio-loud AGN
Wang, Wuji; De Breuck, Carlos; Wylezalek, Dominika *and 11 more*

6 2025A&A...696A..11V 2025/04 cited: 1
ALMA-IMF: XVII. Census and lifetime of high-mass prestellar cores in 14 massive protoclusters
Valeille-Manet, M.; Bontemps, S.; Csengeri, T. *and 24 more*

7 2025ApJ...982...36J 2025/03
Evidence for an Accretion Bridge in the DX Cha Circumbinary System from VLTI/MATISSE Observations
Juhász, Tímea; Varga, József; Ábrahám, Péter *and 20 more*

8 2025ApJ...981L..34D 2025/03 cited: 5

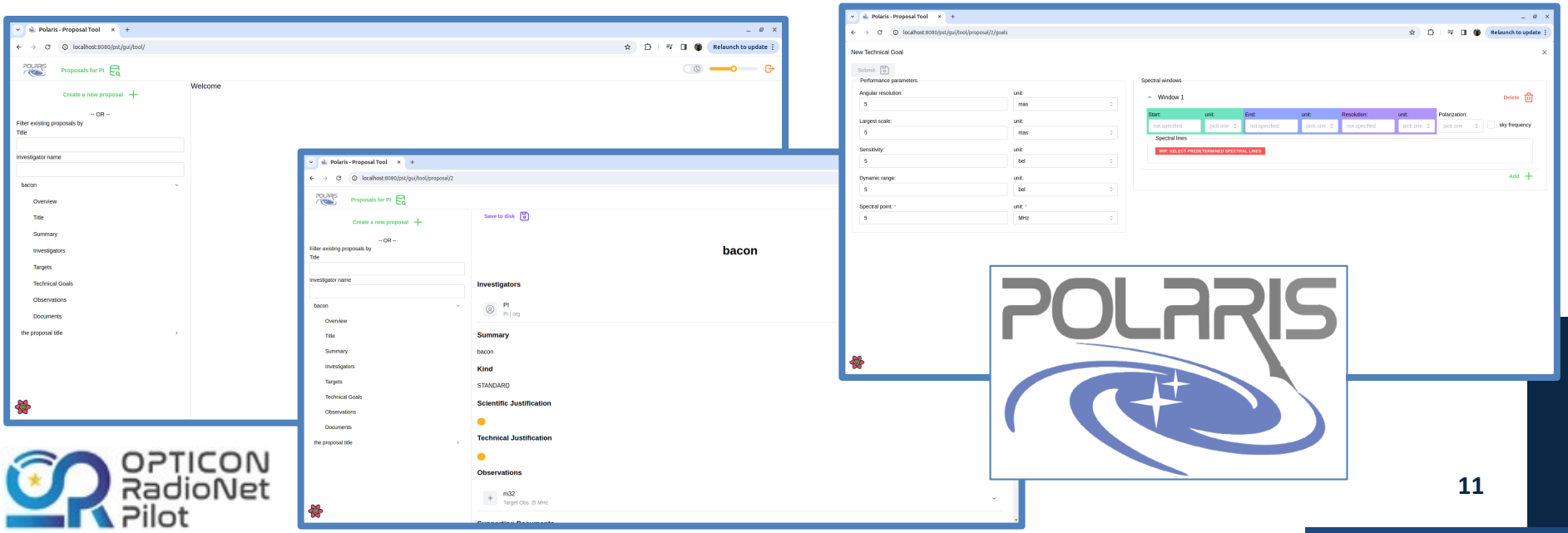
Years Citations Reads



Limit results to papers from
2021 to 2025 Apply

Optical TNA continued……

- Note the agreement by most/all telescopes to deliver an unfunded CfP, showing how highly valued is TNA to both users and observatories
- UK ATC still supporting POLARIS development to support the unfunded call



ORP Joint Statistics 1.3.2021 - 28.2.2025

Dan Dicken, Izabela Rottmann, Simon Garrington

23 May 2025

Funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 101004719.

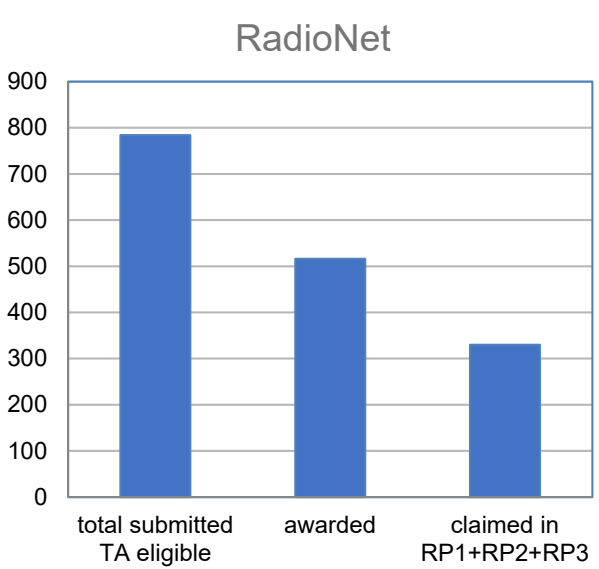
Introduction to Joint Statistics

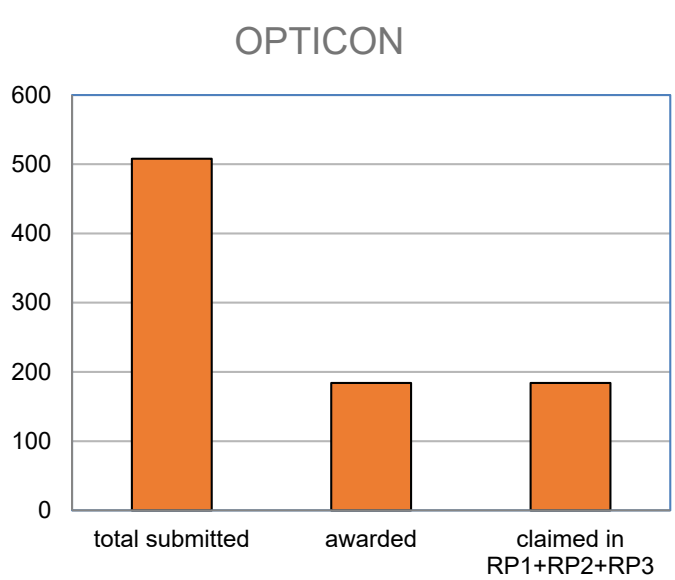
- The following statistics are for RP1 – RP3
  (1st March 21 – 28nd February 2025)
  - The statistics are a comparison of TA projects that have been observed and claimed (except statistics on submitted proposals)
  - Projects are awarded time in RadioNet and OPTICON is quite different making it complicated to compare statistics on TA eligible/awarded proposals:
    - All proposals considered by the CTAC in OPTICON are TA-eligible as this is a condition of the call for proposals – Projects awarded time by scientific merit and available funding
    - Open-skies policy in RadioNet does not distinguish between TA-eligible/non-eligible proposals. Projects are awarded time by scientific merit and the technical feasibility only. The projects are observed independent from funding.

ALL TA proposals submitted vs awarded and claimed in RP1+2+3

- Note that for RadioNet not all TA proposals - although awarded (observed) - will be claimed.
- Whereas all OPTICON proposals awarded will be funded except if the observing runs did not happen i.e. for technical issues or weather
- These statistics incl. by EVN projects awarded before RP1

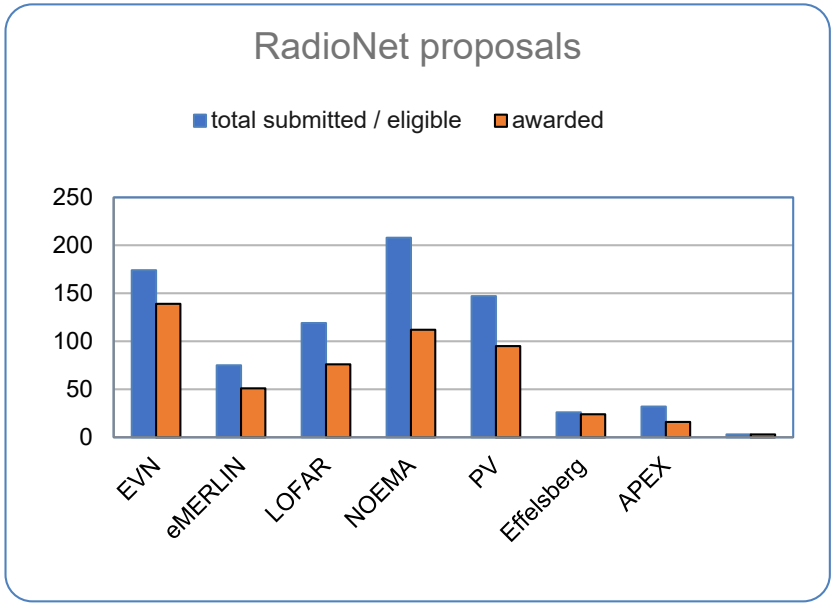
	submitted	awarded	claimed	Submitted vs. claimed
RadioNet	784	516	330	42%
OPTICON	508	184	184	36%

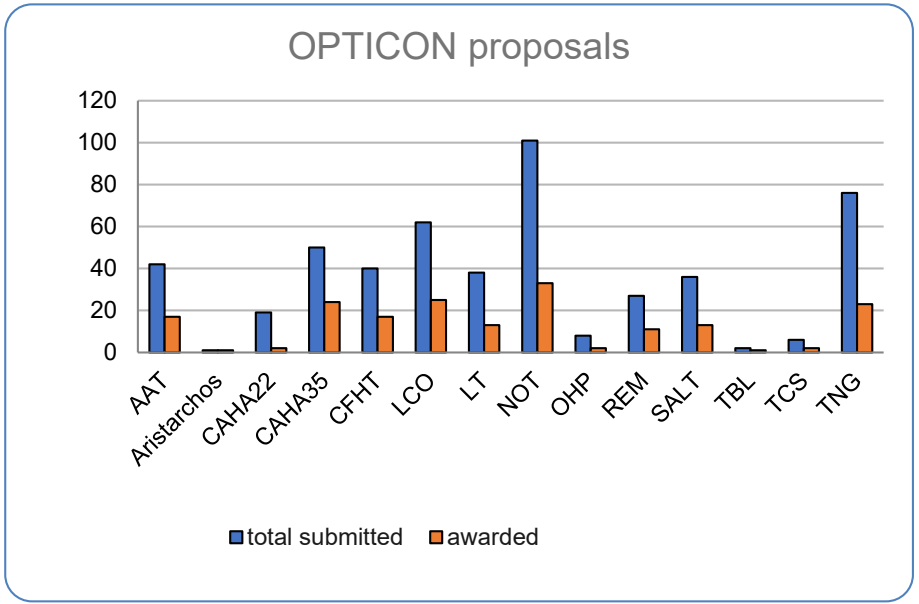




Submitted vs. Supported

- Showing the same statistic as previous slide but breaking down the results per infrastructure. Here it is clear that some infrastructures get more TA-proposals than others.
- Again, success rate on optical infra is limited not only by the scientific merit but mostly by the budget limit allocated for each call

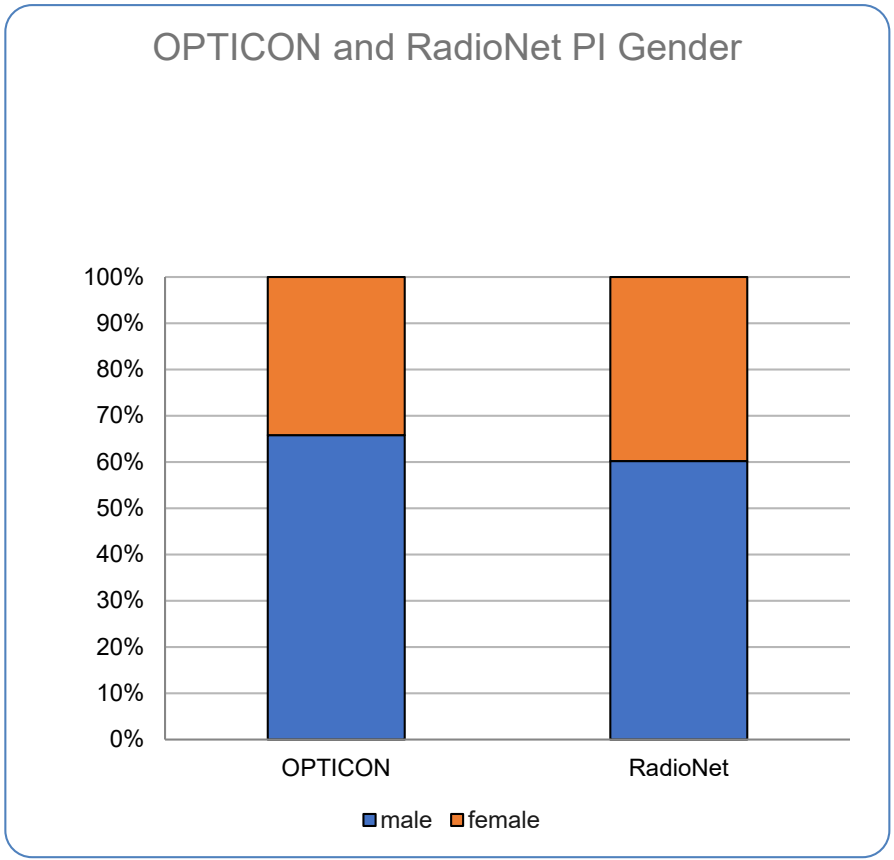




Projects claimed: Gender balance (PI)

- Gender balance is not a formal goal of ORP, there is a strong presence of female scientists among the user base, reflecting positive inclusivity.

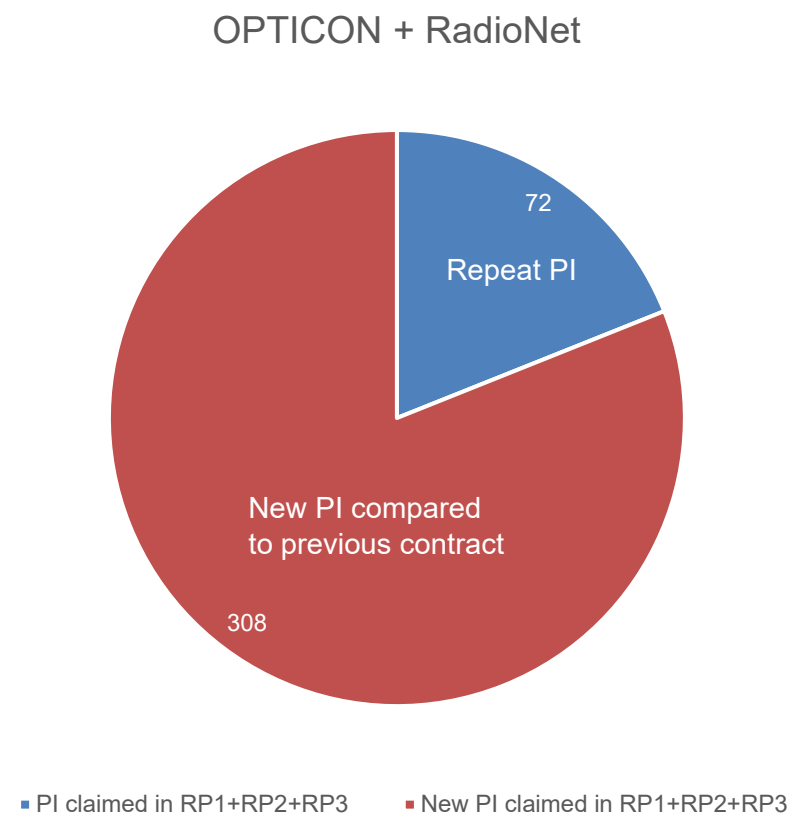
	male	female	% female
OPTICON	52	27	34%
RadioNet	118	78	40%



Projects claimed in RP1+2+3: New PI?

Both RadioNet and OPTICON show a significant fraction of new PIs in TNA compared to the last contract (before ORP)

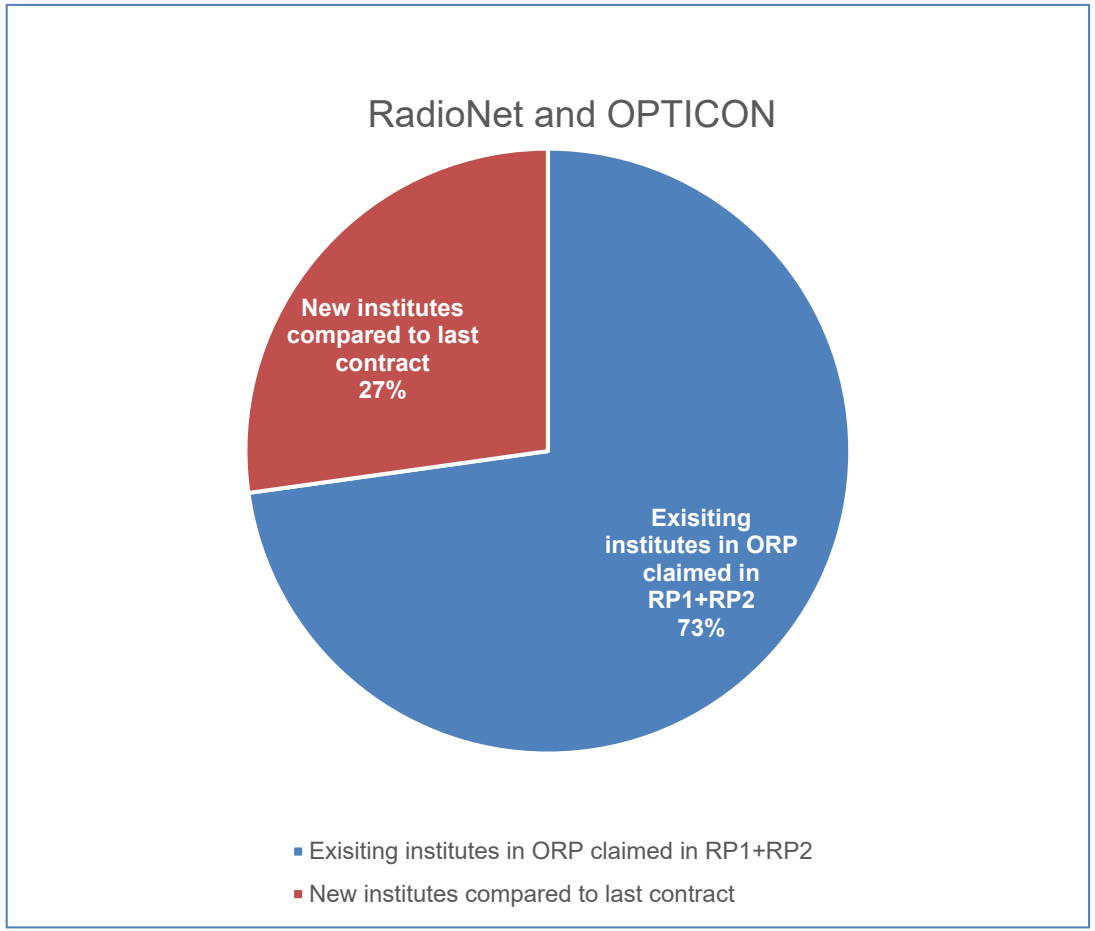
	PI Previous Contract	PI claimed in RP1+RP2+RP3	New PI claimed in RP1+RP2+RP3	Percentage new PI's
OPTICON	228	184	162	88.0%
RadioNet	201	196	146	74.5%



Projects claimed in RP1+2: New institute?

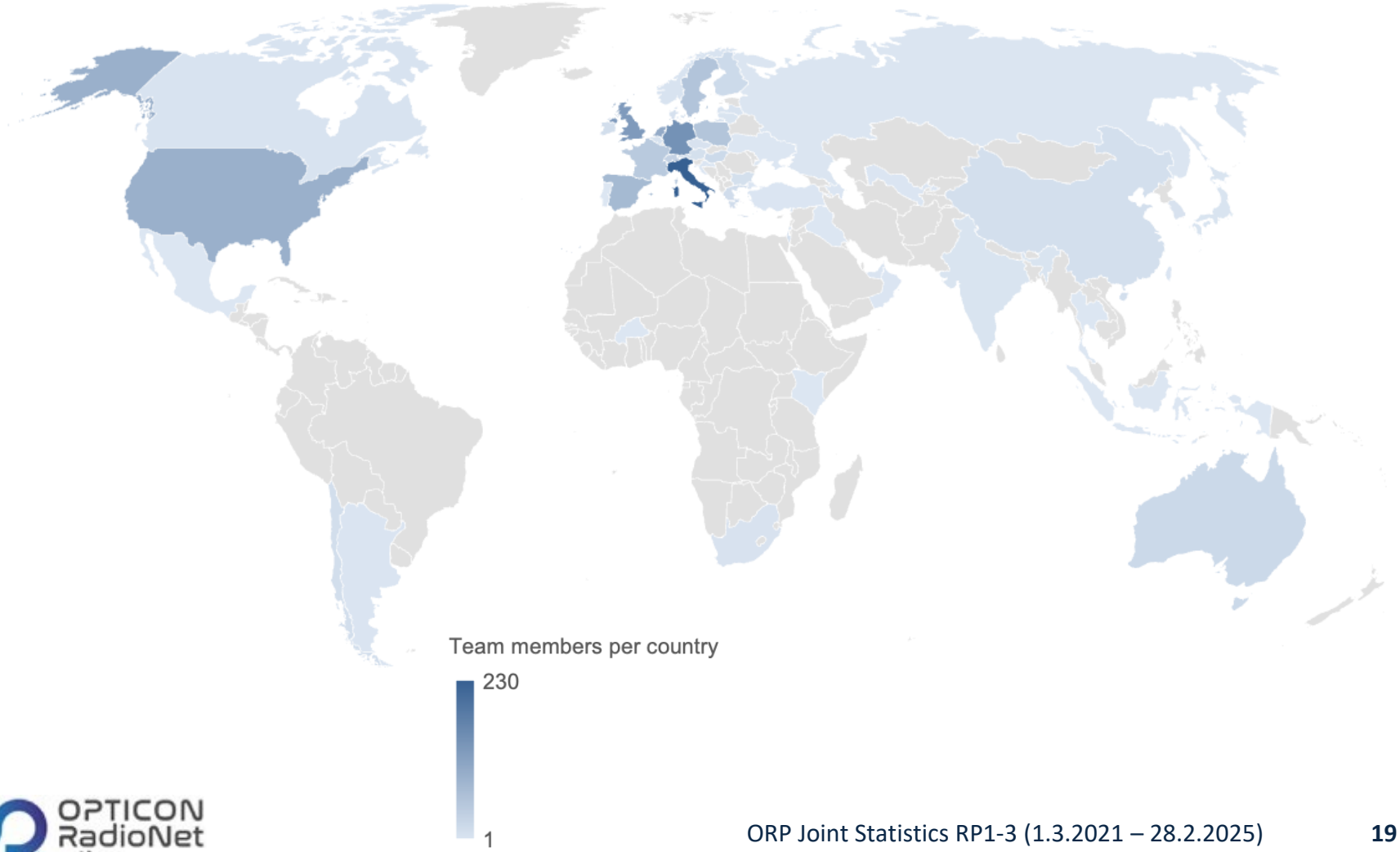
Both RadioNet and OPTICON show a significant fraction of new institutes in TNA compared to the last contract (before ORP)

	Unique Institutes in ORP claimed in RP1 + RP2	New institutes compared to last contract
OPTICON	47	13
RadioNet	60	27



OPTICON RadioNet Pilot

All TNA Team Institute Countries



Cost operations vs. access

infrastructure	Annual operational cost from GA	total access cost (Form C) CLAIMED	% of EC contribution to annual operational cost (claimed)
eMERLIN	€ 2,958,563	€ 466,640	4%
LOFAR	€ 2,183,144	€ 1,200,335	14%
IRAM NOEMA	€ 5,775,460	€ 1,015,671	4%
IRAM PV	€ 3,203,528	€ 366,068	3%
Effelsberg	€ 4,179,173	€ 442,888	3%
APEX	€ 721,267	€ 207,936	7%
SRT	€ 1,993,892	€ 15,250	0.2%
EVN	€ 14,205,985	€ 2,955,015	5%
AAT	€ 2,093,416	€ 669,893	8%
Aristarchos	€ 297,500	€ 119	0.01%
CAHA 2.2	€ 791,658	€ 19,559	1%
CFHT	€ 9,573,779	€ 350,877	1%
LCOGT	€ 6,230,740	€ 480,738	2%
LT	€ 722,749	€ 69,168	2%
NOT	€ 1,425,938	€ 173,399	3%
OHP193	€ 584,836	€ 4,945	0.2%
SALT	€ 1,219,831	€ 248,760	5%
TBL	€ 455,469	€ 600	0.03%
TCS	€ 427,662	€ 0	0%
TNG	€ 2,640,052	€ 380,256	4%

OPTICON RadioNet Pilot

Final Comments

- ORP provided access to a wide range of world-class infrastructures, attracting new users and institutions across Europe while enabling excellent scientific output, including significant high-impact publications and several ‘firsts’
- The European Commission’s (modest) contribution to access provision, significantly boosts the visibility, usability & scientific competitiveness of these RIs
- The fraction of female and early-career scientists is positive and shows an inclusive and support approach
- The multi-facility call stimulated and supported new & innovative observing campaigns across multiple infrastructures.
- Publications from ORP projects are already strong and still growing, demonstrating excellent scientific productivity