

ORP – OPTICON-RADIONET PILOT

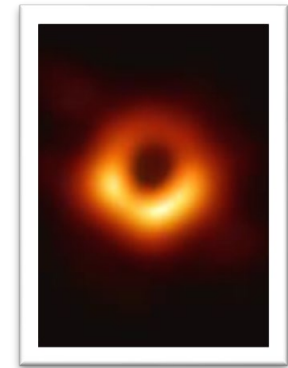
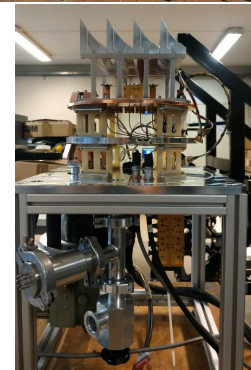
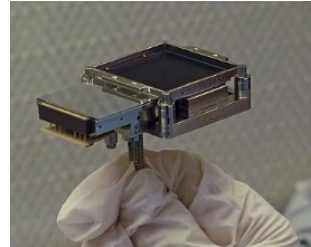
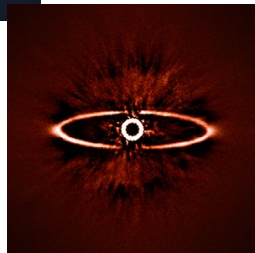
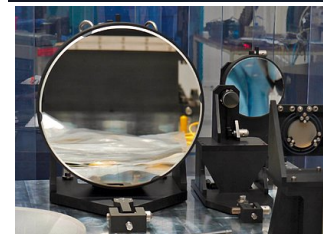
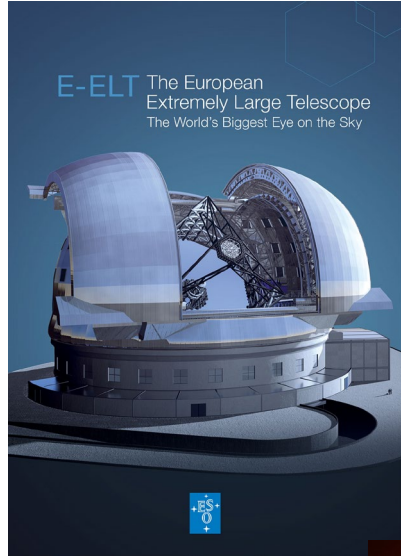
Colibri SVOM workshop
8-10 November, OHP

Coordination CNRS
15 M€/ 4 years
37 PARTNERS
Start date: 1st March 2021

Jean-Gabriel Cuby, H el ene Dworak
CNRS/Aix-Marseille University/LAM
On behalf of the ORP consortium



Merging of two highly successful programmes funded for more than 20 yrs by the EC, OPTICON and RadioNet



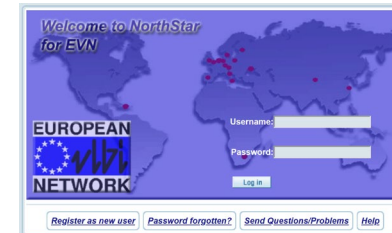
ORP in a nutshell

- **Pilot for a new model of Integrating Activities**
- **Access:** Trans-national and virtual access to infrastructures (60% of the budget)
- **Joint activities** to facilitate and integrate the access procedures and to improve the services the infrastructures provide
- **Training**
- **Strategy:** Establish the optimal conditions for the long-term engagement of funders in making trans-national access sustainable beyond the EU funding
- Pilot demonstrations (< 4 yrs) of the proposed long-term strategy (> 4 yrs)



Apertif Long Term Archive

Black Hole TOM



Accessibility, Equal Opportunities and Diversity

- ORP Gender and Diversity Policy
- Mapping of Gender Equality and Diversity Indicators and Best Practices
 - **Data/information collection** (numbers, policies, best practices) to develop policies, guidelines and recommendations
 - **Training schools focusing on young astronomers** to ensure gender balance but also diversity (nationalities, education paths) and to address EDI matters and career development issues in specific sessions
 - **Improving trans-national and virtual access processes** to enhance accessibility and equal opportunities (e.g. dual anonymous evaluation)

Transnational and Virtual Access

- Access to telescopes through a competitive, scientific-merit-based process. Eligibility criteria apply. All calls at www.orp-h2020.eu/
 - Radio: 8 Infrastructures ranging from sub-mm to metre wavelengths
 - 4 single dishes : APEX, IRAM-PV, SRT, Effelsberg
 - 4 interferometric arrays: e-MERLIN, NOEMA, EVN, LOFAR
 - Optical: 14 Infrastructures ranging from 60-cm to 10-m in diameter
 - REM, TCS, OHP, LT, TBL, CAHA-2.2, Aristarchos, NOT, CAHA-3.5, TNG, CFHT, AAT, SALT
 - LCO
- Other access: ARC (ALMA), VLTI centers, Canary (adaptive optics)
- Virtual access to archives : (LOFAR & WSRT) and Time-Domain Astronomy Central Coordination System (TDA-CCS)

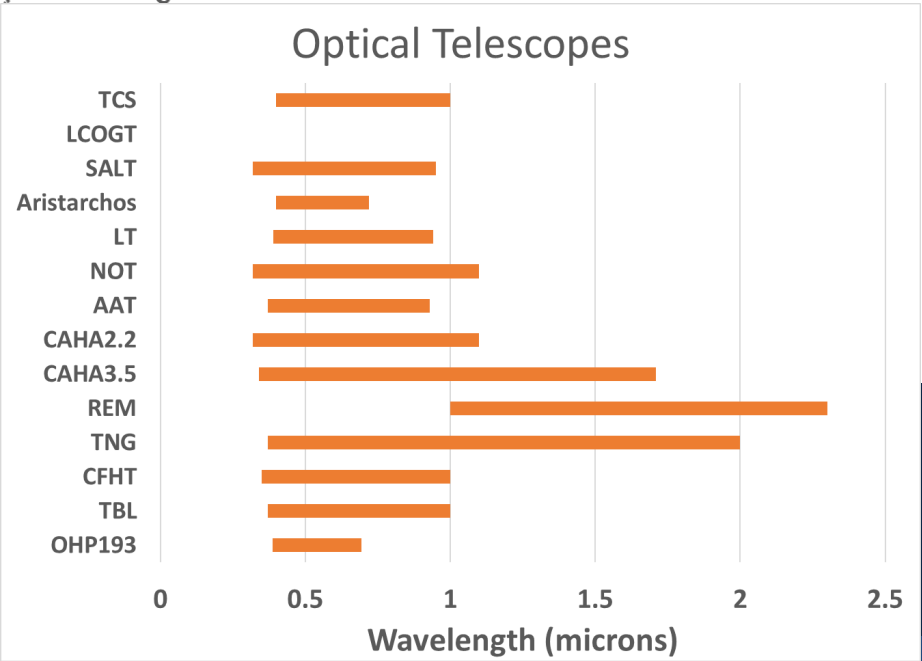
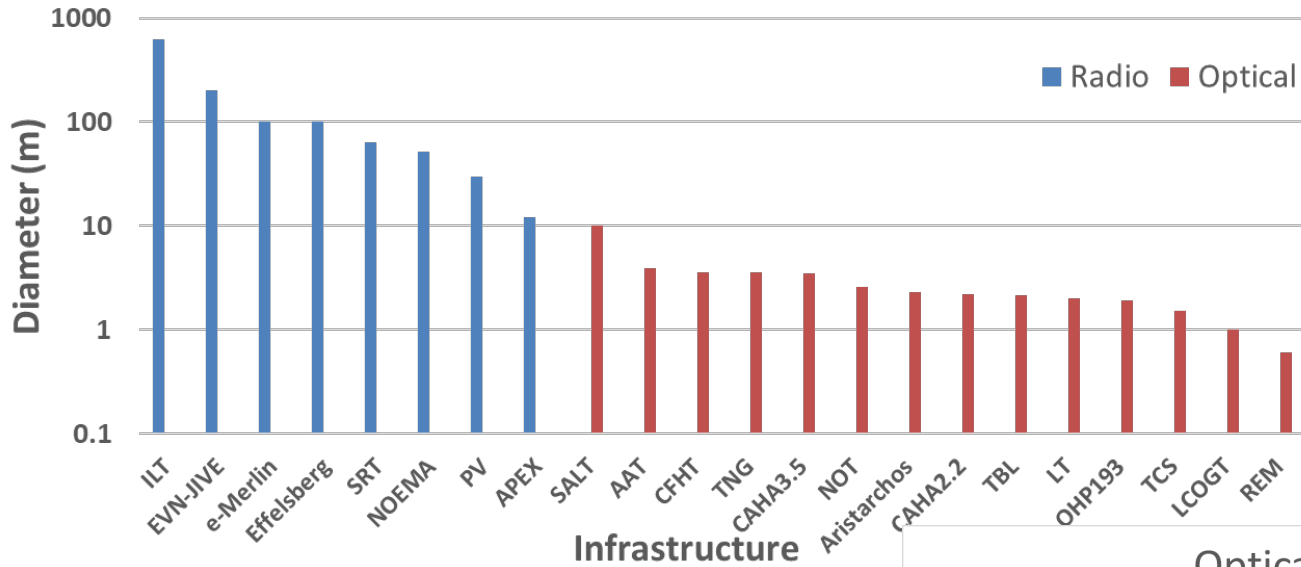


<https://www.orp-h2020.eu/>



Made with VISME

Telescope diameter (m) (in reference to collecting area)



Trans-National Access to optical telescopes

- Common Time Allocation Committee (CTAC). See last [CTAC report](#)
- Time is allocated based on scientific merit, independently of the telescope
- Cutoff line when the available budget for the semester is exhausted
- 2022A call: 22 proposals got time out of 52 submitted (42%)
- Oversubscription ~ 2.5 both in terms of number of proposals or budget

Telescope	N_{prop}	Requested time	Available time	Oversubscription
NOT	13	22.6n	10n	2.3
SALT	2	15hr	100hr	
TBL	0	0n	7n	
OHP	1	10n	10n	
CFHT	6	3.7n	4n	
AAT	8	26.1n	20n	1.7
TCS	1	1.3n	14n	
TNG	9	12n	9n	1.2
LT	3	38h	50h	
LCO	12	313h	400h	
REM	3	120h	300h	
CAHA35	3	5.5n	10n	
CAHA22	3	9.5n	10n	
Aristarchos	0	0n	20n	

Topic	N_{prop}	N_{success}	Success rate
Solar System	3	1	33%
Exoplanets	12	5	42%
Stars and stellar population	14	3	21%
CSM and star formation	2	1	50%
Low-z Universe	2	1	50%
High-z Universe	4	3	75%
Time Domain Astronomy	15	8	53%

Trans-National Access to radio telescopes

- Time and support allocated by the TAC of each infrastructure
- Through the fraction of 'open-sky' time available at each infrastructure, ranging from 10 to 100%
- Pre-allocation of time / users / projects for each infrastructure

Infrastructure	Access Unit	Access	Users	Projects
EVN-JIVE	hours	1073	200	70
e-MERLIN	hours	614	100	70
NOEMA	hours	179	80	20
PV	hours	655	120	30
LOFAR	hours	1261	200	20
Effelsberg	hours	600	40	16
APEX	hours	125	40	8
SRT	hours	200	200	35

Other Trans-national access

- VLT center(s)
 - VLT Expertise Centers (Grenoble, Lisbon, Exeter, Leiden, Leuven, Konkoly)
 - Enhanced data access for *GRAVITY*
 - Support access and observations with the *Hi-5/VIKING* instrument

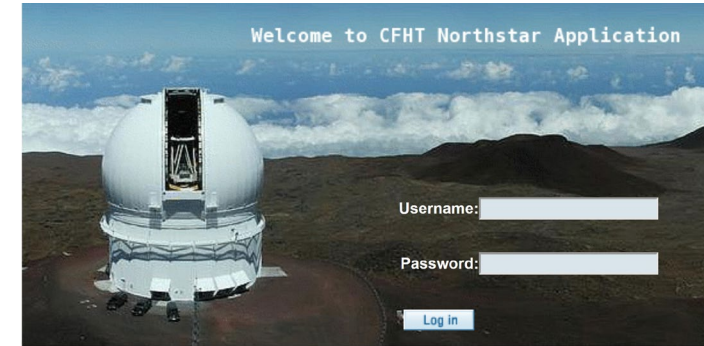
- CANARY
 - Adaptive Optics Testbed (WHT)

Eii European
Interferometry
Initiative



Joint Activities

- Strategy (long-term sustainability of the access programme)
- Harmonized services and tools
 - Common Access to Research Infrastructures (proposal tool)
 - Time-Domain, Multi-Facility & Multi-Frequency access to Infrastructures and data
 - Synergies between interferometric communities
 - Preserving the sky for future generations
- Targeted technical developments (continuation of previous Joint Research Activities)
 - Volume Phase Holographic Gratings (VPHGs)
 - Enhancing the Capabilities of VLTI & Interferometric image reconstruction algorithms
 - Adaptive Optics
- Training
 - > 1000 trainees since Y2000



[Register as new user](#) [Password forgotten?](#) [Send Questions/Problems](#) [Help](#)



Colibr

11

Virtual Access

- Time-Domain Astronomy Central Coordination System (TDA-CCS)
- Lofar Long Term Archive (LTA)
- WSRT-APERTIF Long Term Archive (ALTA)



Apertif Long Term Archive



Black Hole TOM - users & numbers



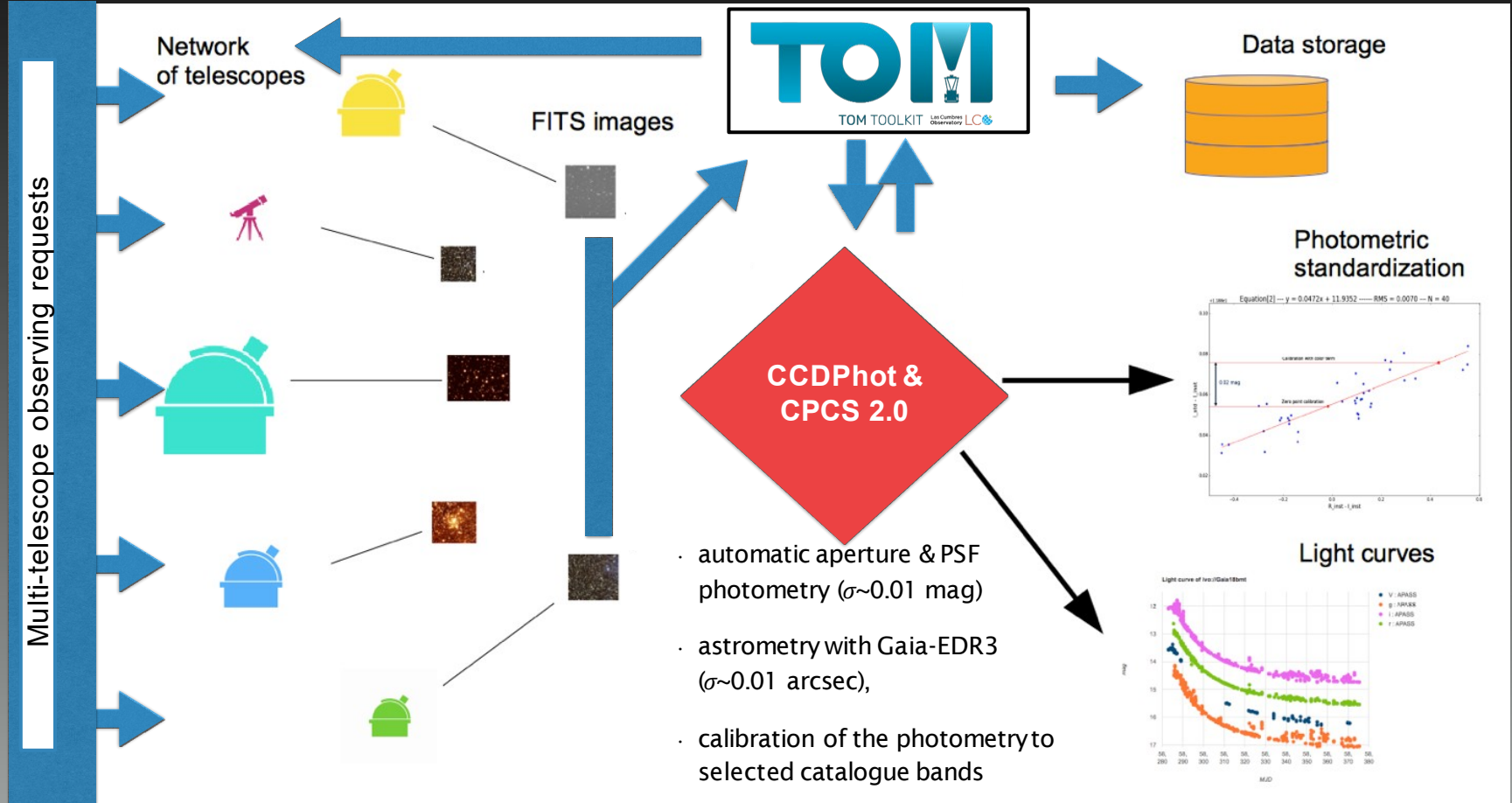
- **ORP TDA network of small- and mid-sized telescopes (< 2 m)**
- **61 users (professional and amateur observers) registered**
- **40 telescopes/instruments registered**
-
-

ACTIVE TELESCOPES:

Bialkow60, Ostrowik60,
Suhora60, Jena90-STK,
VATT183, LCO 1m
(SidingSpring, CTIO, SAAO,
McDonald), LCO 2m
(SidingSpring, Haleakala)
Moletai35-Maksutov,
Moletai165, Wien80,
Loiano152, OACatania91,
IAC80-Camelot, OHP120,
REM60, SMARTS130,
ROAD40, Konkoly90,
Solaris1, PST70,
Terskol200, Lowell110,
TJO80, IAC80, HortenAO68,
Astrolab-IRIS, Flarestar40,
Warrumbungle51,
TRT-GAO70,
Aristarchos230, PROMPT6



Black Hole TOM - Central Coordination System



Conclusion

- Access to a network of 20+ optical and radio telescopes (including radio interferometers)
- Access to expertise centers and archives
- Development of common and harmonized tools for access to telescopes and data: multi-wavelength, multi-infrastructures and time-domain.