

OPTICON RadioNet Pilot

Project Overview & Status

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On behalf of the ORP consortium



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ORP is 20 years of success leading to the fusion of RadioNet and OPTICON

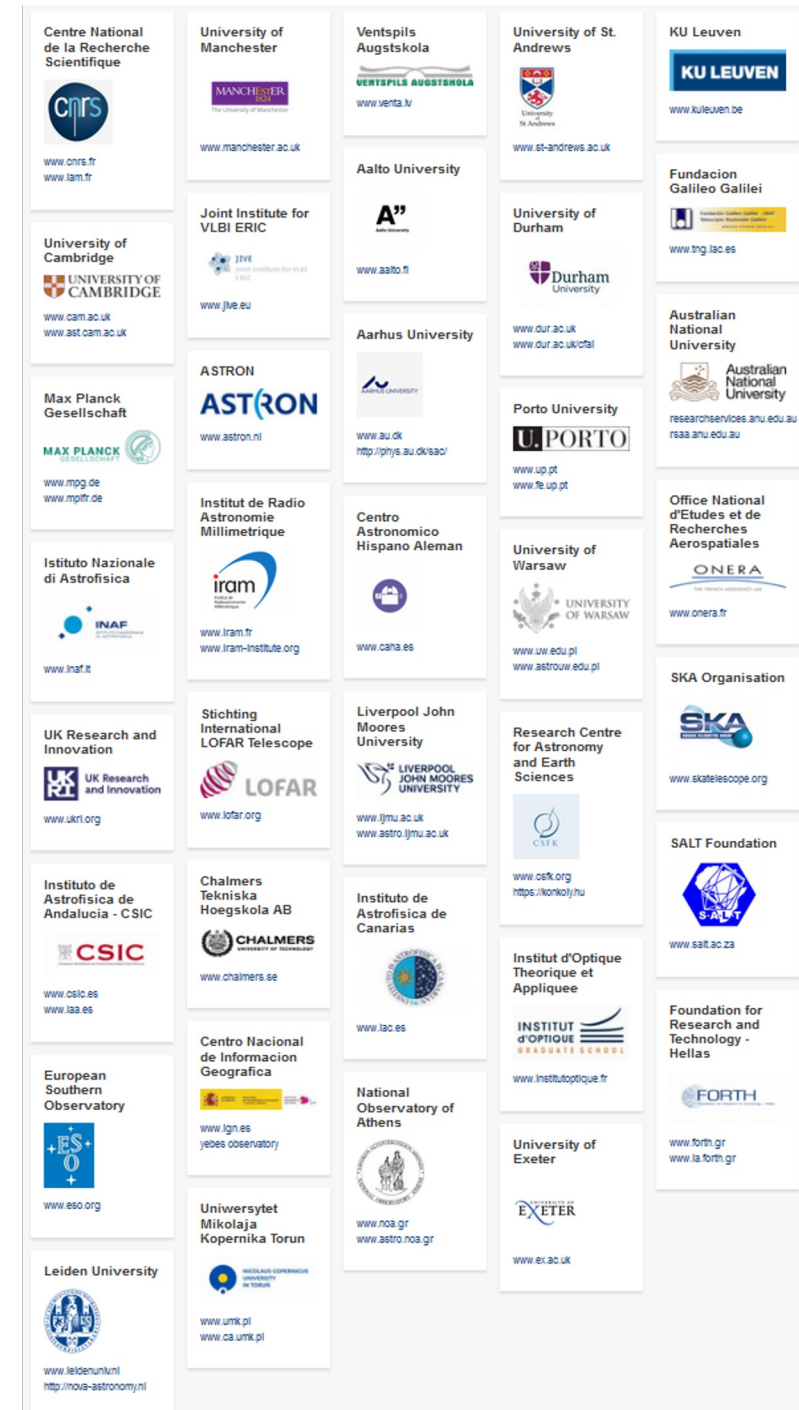
ORP is partnership of 37 leading organisations

Coordination CNRS (UCAM, MPG)

15 M€/ 4 years

Started on 1st March 2021

3 Pillars: T(N)A/VA, Performance, Policy

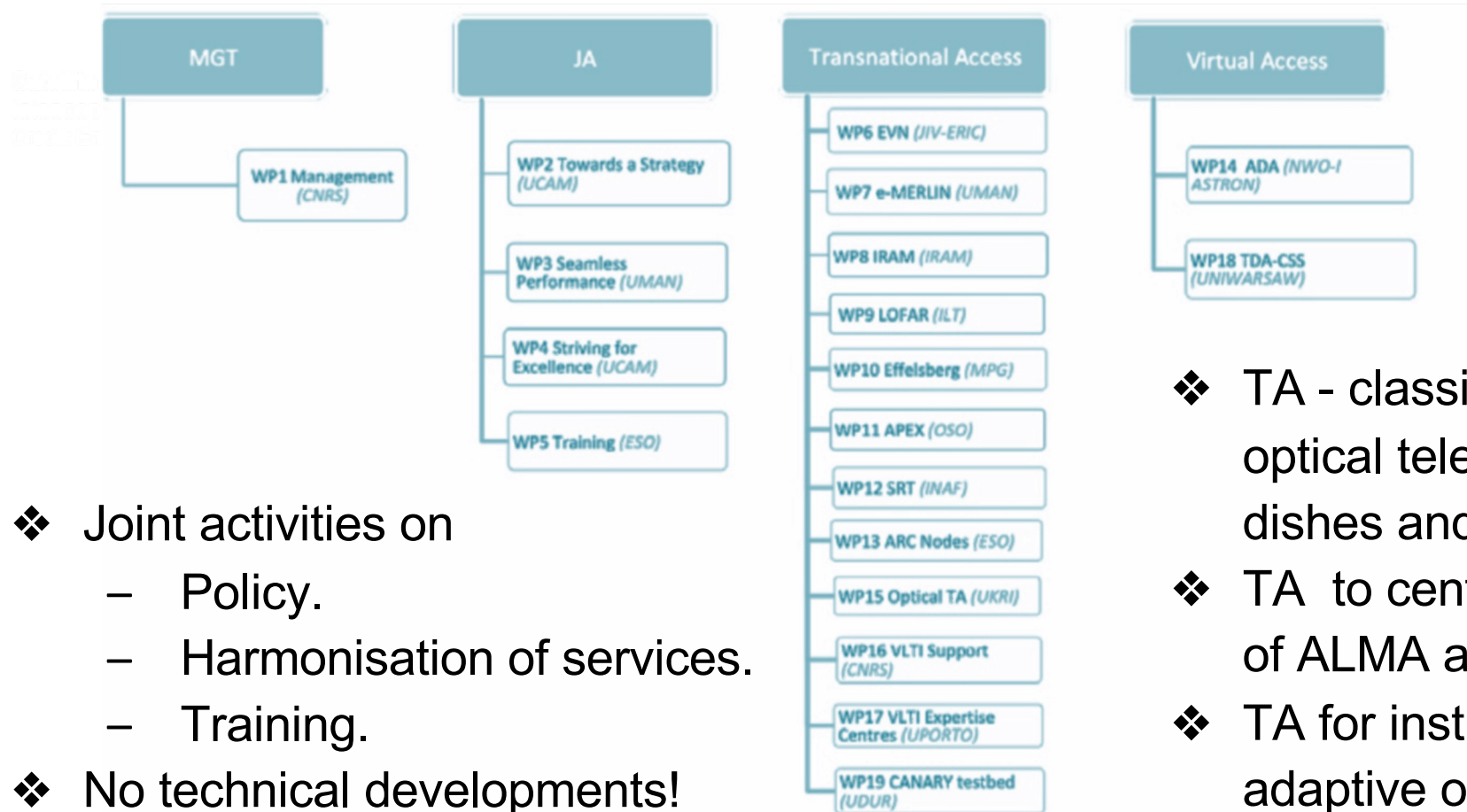


The ORP main commitments

A Pilot at the service of its community to facilitate astrophysical discoveries by:

- ❖ **Providing access** to an integrated set of research infrastructures;
- ❖ **Harmonising** procedures to allow scientists to access all of these facilities via common tools for observation request and specification with a single access point, single sign-on entry;
- ❖ **Developing on-line services** to improve proposal preparation, submission and review, feedback on submitted proposals, time allocation and scheduling, detailed observation specification and execution, etc.;
- ❖ **Improving user support** for optical and radio interferometers and bringing together a number of targeted developments for optical telescopes and interferometers;
- ❖ **Mapping and analysing access modalities** in order to develop models for long-term engagement of funders.

All the Work-Packages



- ❖ TA - classical access to optical telescopes, radio dishes and arrays.
- ❖ TA to centres of expertise of ALMA and VLT1.
- ❖ TA for instrumentation of adaptive optics and VLT1.
- ❖ VA to radio archives.
- ❖ VA to TDA optical/IR.

Strategic planning



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- ❖ Strategic vision of the relation between Astronomical Research Infrastructures & EC.
- ❖ Models for the post-Pilot futures of our communities.
- ❖ Sustainable transnational access (beyond EU funding).
- ❖ Common policy for a dark and quite sky.
- ❖ Equality, Diversity and Inclusion (EDI) for users.



Seamless & Excellence Performance

❖ Common Access Tools

- Proposal submission tool.
- Harmonised procedure.
- Multi-facilities coordinated calls.
- Multi-wavelength astronomy (e.g. Time Domain).

❖ Training

- Sharing analysis expertise & broaden astrophysical skills.
- Flagship events (NEON and ERIS).
- Proposal writing, archival, instrumentation and multi-wavelength/messenger schools.
- Gender/geographical/career distribution.



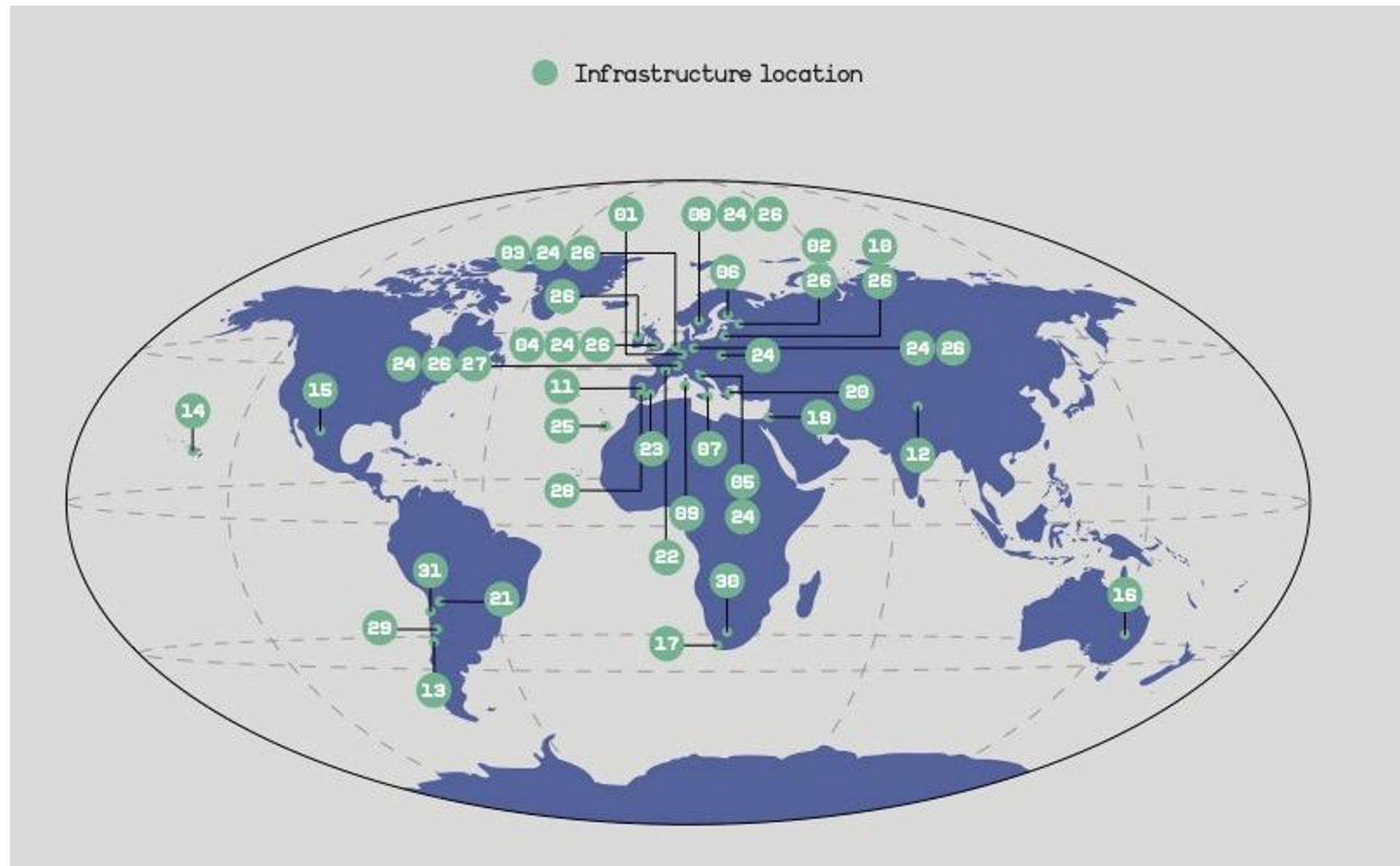
Transnational and Virtual Access

❖ Transnational Access to 24 infrastructures:

- 0.4m-10m optical telescopes (CFHT, OHP, TBL, TNG, REM, CAHA, NOT, LT, Aristachos, LCOGT, TCS, SALT).
- The biggest radio dishes (100m Effelsberg, SRT, PV, APEX).
- World class radio arrays (EVN, LOFAR, NOEMA, eMERLIN).
- Instrumental support (Adaptive Optics CANARY).
- User support (VLTi & ALMA Centres).

❖ Virtual Access to

- Long term data archives (LOFAR & WSRT).
- Time-domain (63 ==> 100 small/medium-sized optical and IR telescopes).



- ❖ All wavelengths from radio to visible/infrared covered.
- ❖ Facilities on the whole Earth.

ORP Transnational Access

❖ Classical TA:

- Two different methods for time allocation:
 - One Common Time Allocation Committee (CTAC) for optical facilities.
 - Individual TAC for each radio facility.
- Access upon a competitive, scientific-excellence-based process
- Oversubscription (topics on MMA and TDA).

❖ Expertise TA:

- ALMA/VLTI centres across Europe (==> Gerry's talk).

❖ Instrumental TA:

- Adaptive Optics/VLTI.

⇒ The TA calls and services are published on the ORP website.

ORP Virtual Access

❖ Virtual Access:

- No selection, direct access to archive places: independent from ORP.
- Open access to radio archives WSRT & LOFAR:
 - No registration needed.
 - Statistic based on IP address.
- Open access to TDA:
 - Registration for users requesting observations or download

What about MMA and TDA in ORP?

- ❖ ORP is already a collaborative optical-radio approach towards:
 - Common-access to Research infrastructures: a common observing Proposal Submission Tool (PST) for deployment at any ORP facility.
 - Time-Domain, Multi-Facility & Multi-Frequency access to Research infrastructures: a centralised system to conduct multi-facility, multi-wavelength time domain astronomy (based on tools developed by the Las Cumbres Observatory).
 - VA: Time-Domain Astronomy Central Coordination System (TDA- CCS): a common photometric pipeline (BHTOM).
- ❖ ORP already provides services for MMA/TDA observations.



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THANK YOU !

The Opticon RadioNet Pilot brings together the well-established ground-based astronomy community to offer, support and develop access to radio and optical facilities in an efficient, co-ordinated and future-looking programme.

www.orp-h2020.eu