

NEPHEWS project

XI AUSE conference and VI ALBA Users Meeting
02. September. 2024, Oviedo (Spain)

Bárbara Calisto (ALBA Synchrotron)

coordinated by SOLARIS



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Neutrons and Photons
Elevating Worldwide Science

Neutrons and Photons Elevating Worldwide Science

NEPHEWS brings together multiple European Synchrotrons, FELs and Neutron sources with the European User Organisations in a combined access program

23

partners

17

represented countries

900+

users to support



MAIN GOAL:

Community Building by **lowering the geographic and financial barriers** for access for users from:

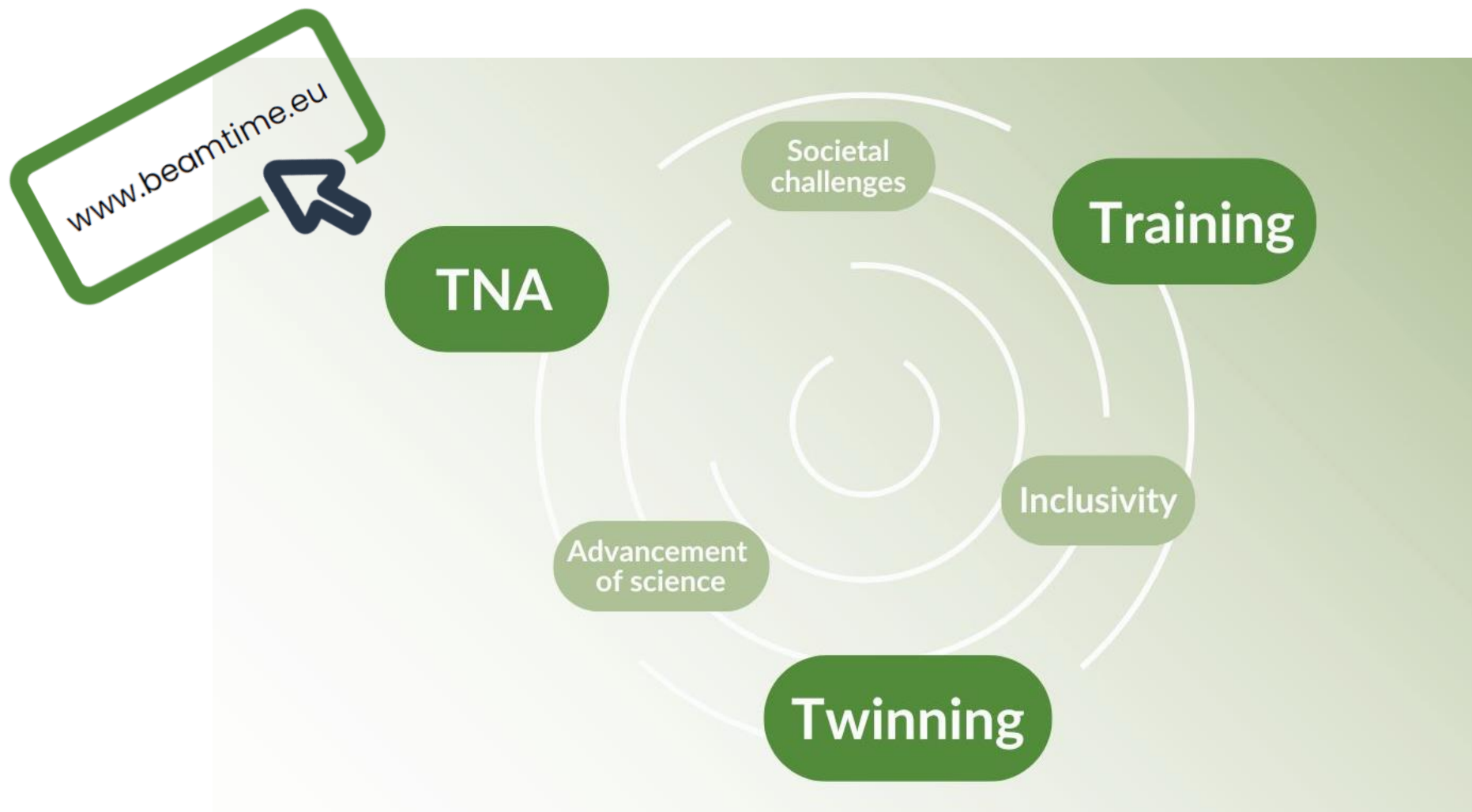
- Widening countries,
- Countries without RI,
- Includes initiatives for **Africa**



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NEPHEWS Programmes & Support



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TNA under NEPHEWS

TNA

- **The offer**
 - TransNational Access to 14 RIs in Europe
 - free of charge access (on-site and remote) to Research Infrastructures
 - travel and accommodation expenses are covered by the project to a maximum of 2 researchers per access



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TNA under NEPHEWS

TNA

- **The process**
 - Apply for beamtime in a call at your RI of interest
 - When beamtime is granted you will be offered by the User Office from the corresponding facility that the experiment is eligible for NEPHEWS TNA
 - Submit a short report after the experiments
 - Reimbursement of the expenses directly from the facility where the experiment was performed
- **The priority criteria for the support for travel and accommodation**
 1. users affiliated in Estonia, Finland, Greece, Poland, Portugal, Romania, Serbia and Ukraine;
 2. users whose affiliation is from other Widening countries or in countries without RI;
 3. groups of qualified users (if the available amount of support allocated in the project is not used).



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Twinning under NEPHEWS

Twinning

GOAL: Transfer of knowledge necessary to function in the environment of a RI

REGISTRATION: [Twinning – Nephews \(beamtime.eu\)](https://beamtime.eu)

- **An experienced user groups volunteer to host “novice users” (NU)** during their experiments, while *similar scientific interests* guarantee that the new users can gain “tailor-made” first-hand experience.
- **Expected benefits:**
 - the less experienced user group will learn about RI techniques and be able to submit and run own proposals, and the more experienced group gains resources to help with the experiment, extra scientific input and possibility to start a long-term collaboration.
 - The NU in the Twinning Programme will spend about a week with the host user group, being directly involved in the experiment conducted on-site. For experienced user group the travel and accommodation costs are covered by NEPHEWS.



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Training under NEPHEWS: the ESRs Programme

Training

GOAL: train 24 young scientists on the usage of RIs through working visits

REGISTRATION (will open soon): [EARLY STAGE RESEARCHERS – Nephews \(beamtime.eu\)](https://beamtime.eu)

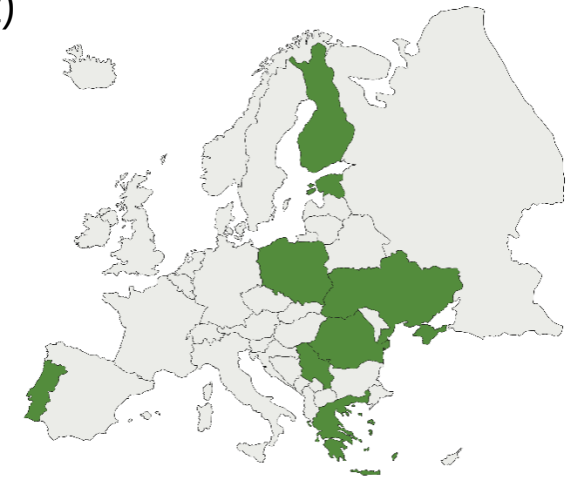
- Participants accepted into the ESR Programme will
 - get a practical short-term (up to 1 week) internship at a Synchrotron (SR), Free Electron Laser (FEL) or Neutron (N) facilities;
 - gather knowledge of different research techniques and on their applicability to different research fields;
 - get first practical experiences and gain a better understanding of access policy, offer and other aspects of the facilities' activities.

Opportunities at ALBA under NEPHEWS

ALBA will offer under the NEPHEWS project from July 2024 to December 2026:

- 325 shifts (all beamlines included)
- 62 trips (travel&accommodation of 2 researchers per experiment)
- 4 twinning users (travel&accommodation)
- 1 ESR (travel&accommodation for a 1 week internship)

Target countries: Estonia, Finland, Greece, Poland,
Portugal, Romania, Serbia, Ukraine



Targeted countries of nepheWS



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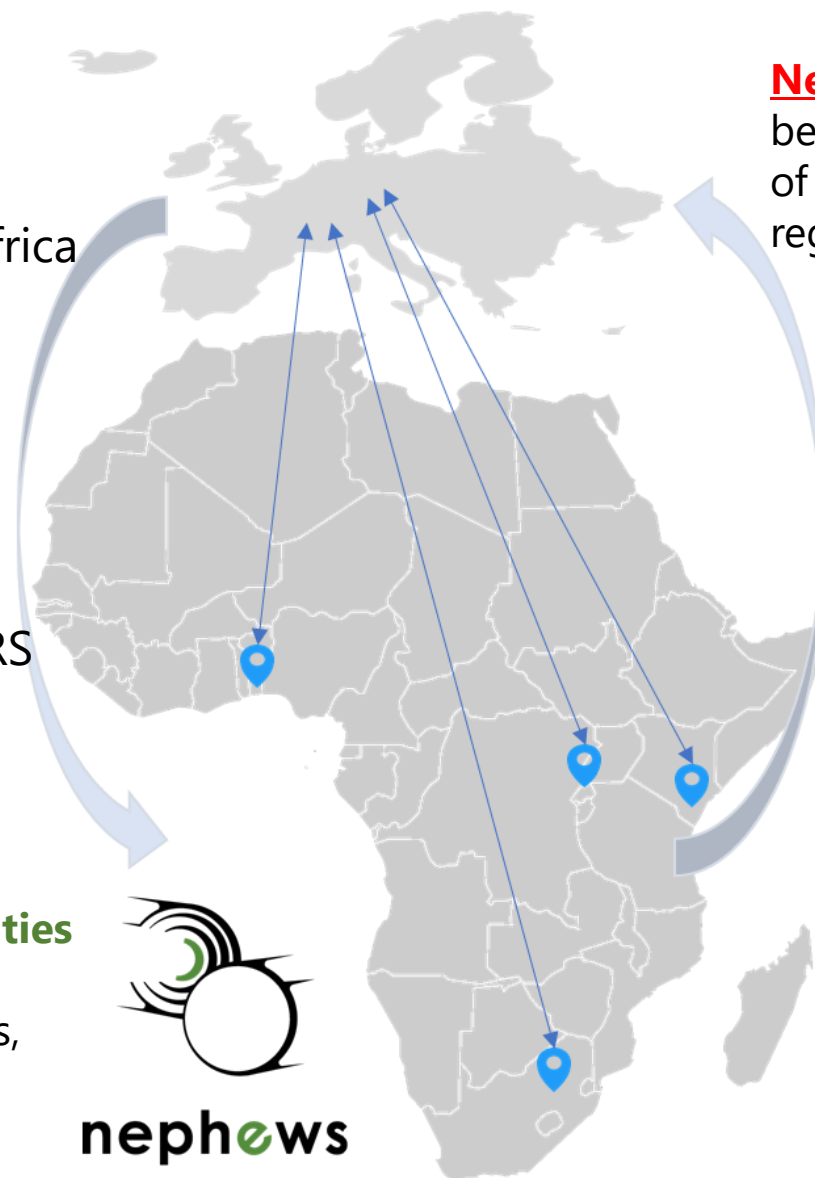
Opportunities for Africa under NEPHEWS

Actions

- Visits to 4 regions in Africa
- Promotion and dissemination of the information on TNA to local/regional scientific communities e.g. at 2024 African MRS meeting, Rwanda.

Virtual Training Opportunities

Online training in techniques, methods; and in developing proposals for access



Twinning Opportunities

Next year 8 experienced researchers can be selected, acting as future ambassadors of SR/FEL- and N-based science in their regions

Training Opportunities

Next Year selected PhD students from 4 African regions will participate in the HERCULES school
Hercules-school.eu

HERCULES
European School



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Community building actins in Europe

www.beamtime.eu



- **Actions in Europe:** The selection process of 8 targeted countries within Europe was conducted (widening and non-facility countries).
User communities from 13 countries submitted the „Expression of interest”
- The selected eight countries are: Estonia, Finland, Greece, Poland, Portugal, Romania, Serbia, Ukraine
- **In addition to the common TNA, Twinning , ESR and training opportunities, NEPHEWS will seek to bolster government support, knowledge and awareness of the PaN user communities in these selected nations.**
- Further, the objective is to actively grow their national user communities by expanding the base of users and advertise the opportunities of the NEPHEWS RI, tracking impact.
- **NEPHEWS seeks to develop a policy for further action in other nations by other national users communities.**