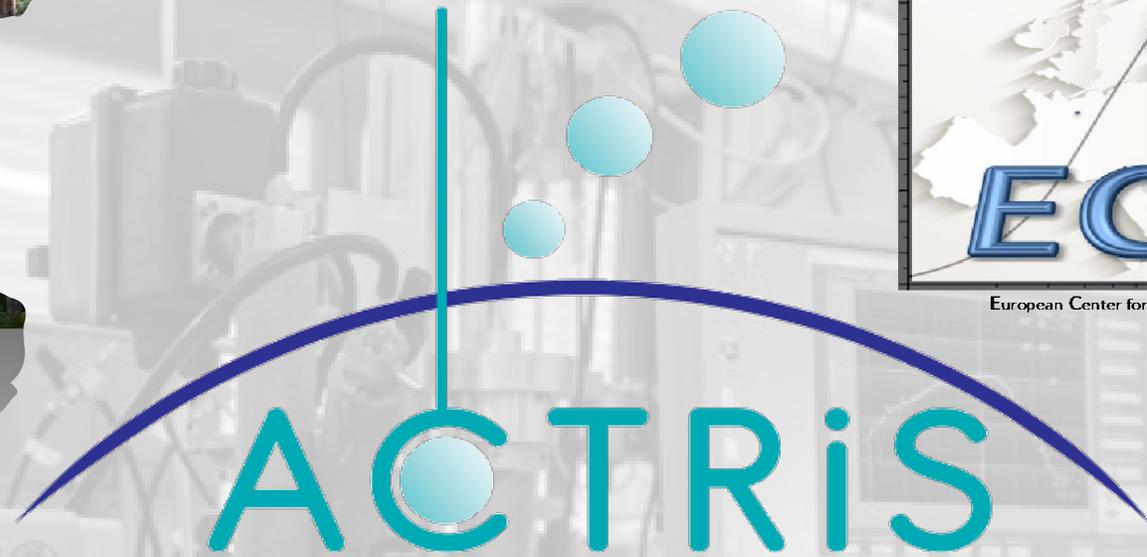




European Center for Aerosol Calibration and Characterization



Centre for Aerosol In Situ Measurements

Information about the upcoming inter-laboratory comparison for elements

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World Calibration Centre for Aerosol Physics



Aerosol Chemical Monitor Calibration Center



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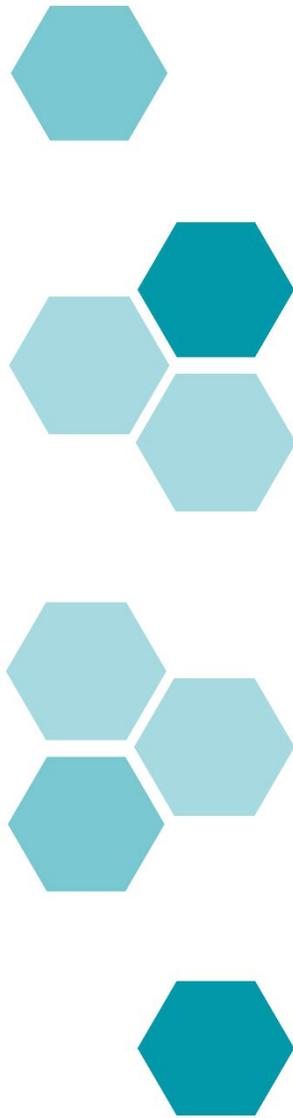
# Inter-laboratory comparison for elements

- ILC for offline analysis of elemental constituents in particulate matter
- Standard and commercial instrumentation for PIXE, XRF and ICP techniques are considered
- Test samples (min. 5, max. 10 per NF) – PM<sub>2.5</sub> or PM<sub>10</sub> collected on ring-supported stretched thin polytetrafluoroethylene (PTFE) filters (Pall Life Science Teflo W/RING 2  $\mu$ m 47 mm, product id R2PJ047) – will be distributed
- Full filters, eventually half-filters if possible (it depends upon the analytical technique); “hub and spoke” approach
- Evaluation of the results by using as reference the results obtained by EMC2



# Time schedule of ILC for elements

- Samples will be distributed to NFs **before summer 2023**
- Results from NFs are expected in **fall 2023**
- Birkenes (Norway) and Barcelona (Spain) NFs, being pilot stations, are kindly asked to participate
- Other NFs already willing to participate: please contact Massimo ([chiari@fi.infn.it](mailto:chiari@fi.infn.it)) or Giulia ([calzolari@fi.infn.it](mailto:calzolari@fi.infn.it)) before end of february 2023; then, they will be invited to the ILC step by step



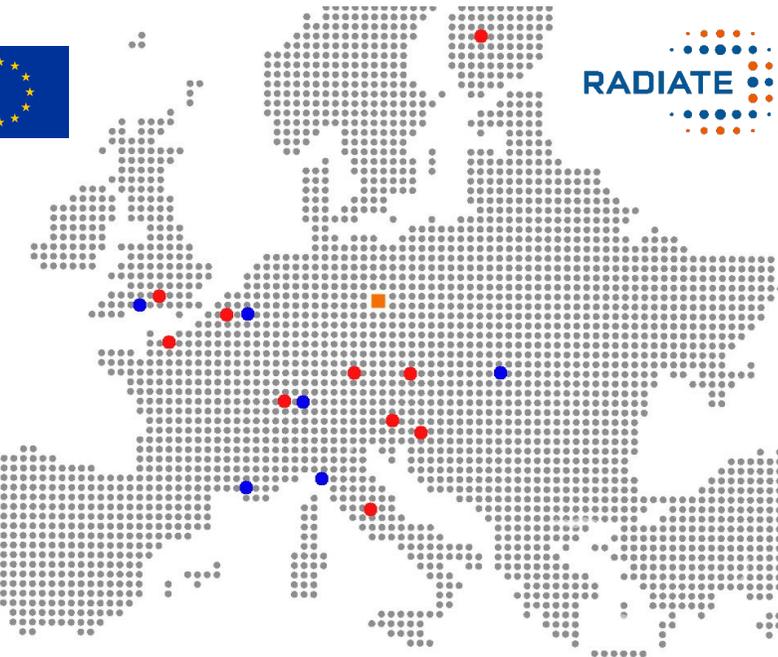
# Accessing EMC2 services through RADIATE TA

- LABEC, the INFN accelerator laboratory  hosting the EMC2 unit, is currently offering transnational access (TA) to the external-beam PIXE-PIGE facility for elemental analysis of aerosol particle samples through the H2020 RADIATE project (<https://www.ionbeamcenters.eu/radiate/>)

- About **100 hours** of TA still available **till 30 June 2023**

- For information visit:

<https://www.actris-ecac.eu/blog/index.php?emc2--opportunity-to-access-emc2-services-through-radiate-transnational-access--ta->



**100 filters -> 20 hours TA**

## Accessing EMC2 services through ITINERIS TA

- Transnational access (TA) to the external-beam PIXE-PIGE facility for high-sensitivity and high-throughput elemental analysis of aerosol particle samples will be offered also through the ITNERIS project (<https://www.itineris.cnr.it/>)
- ITINERIS (Italian Integrated Environmental Research Infrastructures System), part of Italian NRRP (National Recovery and Resilience Plan), is funded by Next Generation EU
- **200 hours of TA till mid 2025**
- For information visit: yet to be announced

