



esteem3

General presentation of the project



- Coordinated by the **Max Planck Institute for Solid State Research (Prof. Dr. Peter van Aken)**
- January **2019** to *December 2022 > June 2023*
M18 of the project
- Follow-on-project of ESTEEM and ESTEEM2 with a focus on TA



ESTEEM3 has received funding from the European Union's **Horizon 2020** research and innovation programme under grant agreement No 823717.





- The Coordination Team:

Peter van Aken
Coordinator

Miran Čeh
Deputy coordinator

Angus Kirkland
Deputy coordinator

Antoine Kieffer
Project manager

MAX PLANCK INSTITUTE FOR
SOLID STATE RESEARCH



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ESTEEM3 is an integrated infrastructure network of **European Electron Microscopy Facilities** providing **Transnational Access (TA)** for the academic and industrial research community in materials, physical, chemical and life sciences to the most powerful electron microscopy instrumentation and techniques available at the nanoscale.



The general aims of the consortium are to:

- **Establish a strategic leadership in electron microscopy** to guide future developments and promote advanced electron microscopy to the wider research community
- **Provide transnational access** for the academic and industrial research community in the physical sciences to some of the most powerful characterisation techniques available at the nanoscale
- **Provide training in innovative methods in electron microscopy** and a forum for discussing emerging cutting-edge electron microscopy techniques



ESTEEM3 member laboratories and SMEs also develop
Joint Research Activities:

- Development of advanced electron microscopy methods required for the solution of key problems
- Study of materials for ICT, energy, health and transport
- Automation and big data



In terms of **Networking Activities**: ESTEEM3 implements a wide variety of activities aiming at improving the dissemination of outputs, such as:

- **Open Access publications** in high ranked journals
- Lectures at **selected conferences**
- Setting up of an **educational hub**
- Organisation of a **series of schools, workshops and webinars** offering training by specialists in advanced techniques



The **consortium** includes a total of
20 project beneficiaries:

Beneficiary	City and country
1. Max Planck Institute MPG (Coordinator)	Stuttgart, Germany
2. Research Institute Jülich JUELICH	Jülich, Germany
3. French National Centre for Scientific Research CNRS	Paris, France
4. University of Antwerp UANTWERP	Antwerp, Belgium
5. University of Oxford UOXF	Oxford, United Kingdom
6. University of Cambridge UCAM	Cambridge, United Kingdom
7. Jozef Stefan Institute JSI	Ljubljana, Slovenia
8. Graz University of Technology TUGraz	Graz, Austria
9. University of Zaragoza UNIZAR	Zaragoza, Spain
10. University of Cadiz UCA	Cadiz, Spain

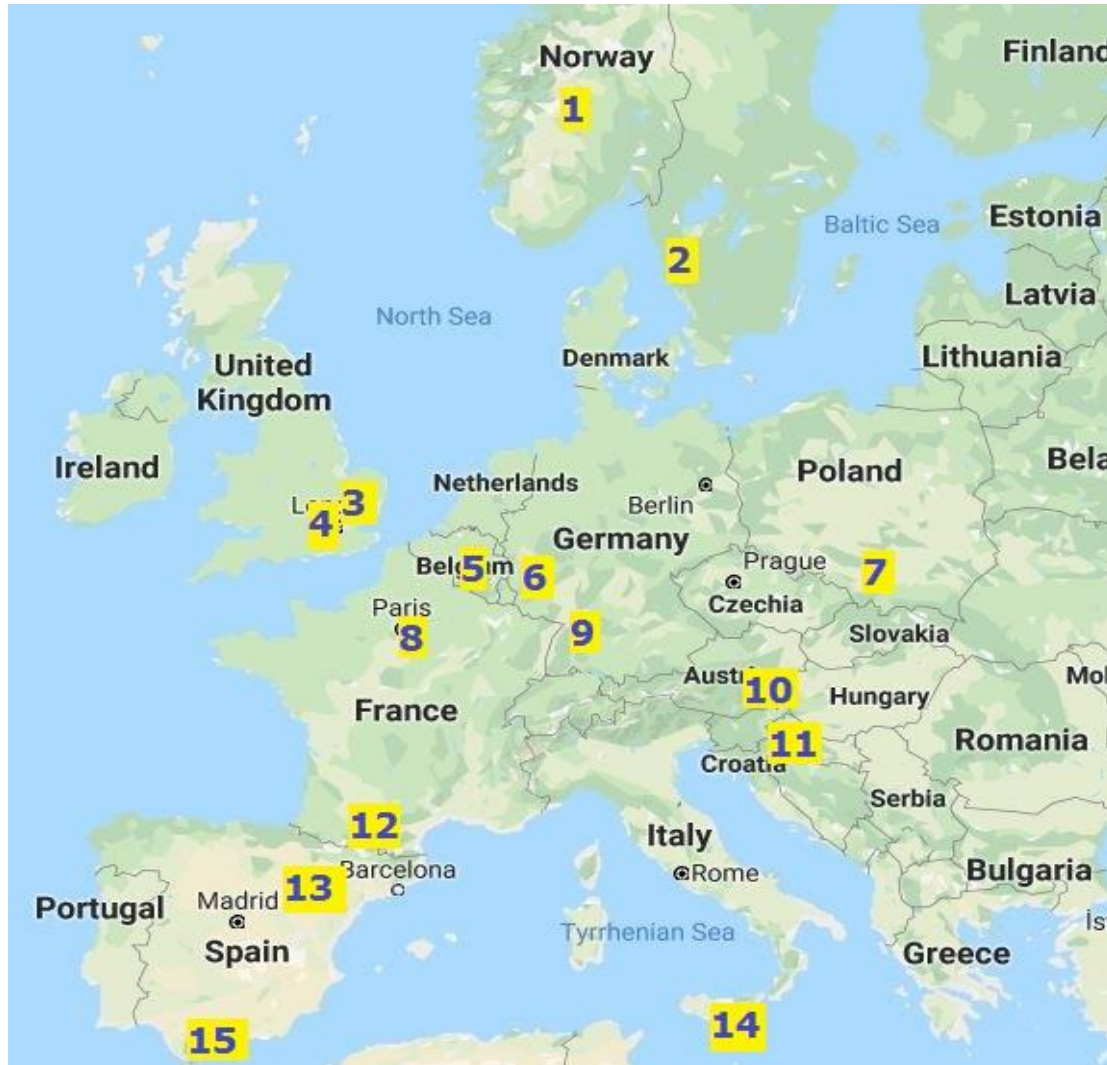


The **consortium** includes a total of
20 project beneficiaries:

Beneficiary	City and country
11. University of Krakow AGH-UST	Krakow, Poland
12. Chalmers University of Technology CHALMERS	Gothenburg, Sweden
13. Norwegian University of Science and Technology NTNU	Trondheim, Norway
14. National Research Centre CAT	Rome, Italy
15. Attolight SA ATTO	Lausanne, Switzerland
16. Corrected Electron Optical Systems CEOS	Heidelberg, Germany
17. DENSsolutions BV DENS	Delft, Netherlands
18. NanoMEGAS SPRL NM	Brussels, Belgium
19. Quantum Detectors Limited QD	Harwell, United Kingdom
20. Euronovia	Paris, France



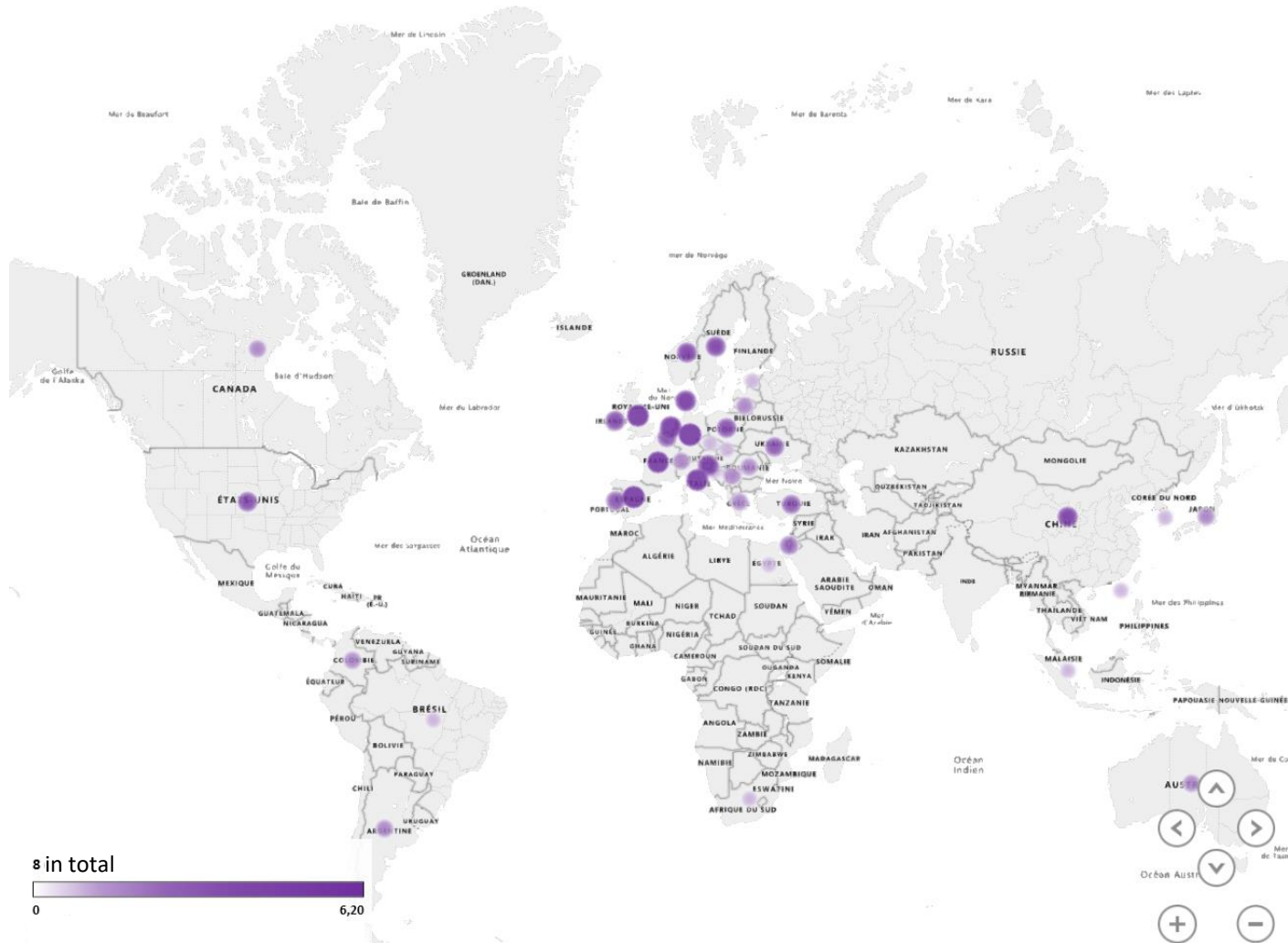
The 15 laboratories in Europe



1. Gemini Trondheim
2. CMAL Gothenburg
3. WEMS Cambridge
4. OXTEM Oxford
5. EMAT Antwerp
6. ER-C Juelich
7. IC-EM Krakow
8. LPS Orsay
9. StEM Stuttgart
10. FELMI-ZFE Graz
11. JSI Ljubljana
12. CEMES Toulouse
13. LMA Zaragoza
14. Beyondnano Catania
15. A-DME Cadiz



A wide range of countries for TA users





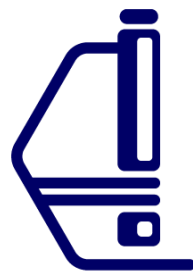
Contacts:

- Project manager: Antoine Kieffer a.Kieffer@euronovia-conseil.eu
- TA manager: Camélia Benhida c.benhida@euronovia-conseil.eu



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Transnational Access



Conditions of access



Institutions which are eligible

Universities and Institutes of Higher Education, Research Institutes, Enterprises or other official institutions.

Rule on the countries

The user group leader and the majority of the group members must work in **another country than the laboratory**, to which you need access. It is possible to apply **from all over the world**.

Obligation on dissemination

You are obliged to **disseminate the results** you have generated under the action from the access, **unless you are working for a SME**.



Submission procedure



1st Step: Register to get a login

ESTEEM3

CONTACT

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p.bersans@euronovia-conseil.eu

SUBMISSION PLATFORM

- **APPLICANT REGISTRATION**
- APPLICANT LOGIN
- ACCESS PROVIDER LOGIN
- EVALUATOR LOGIN

CALL DOCUMENTS

- Template: Lab proposal
- Template: Open proposal

APPLICANT REGISTRATION

Please register with your name, e-mail address and choose a login name.

First name

Last name

Email

Login name

Password

Repeat password

Passwords must contain an uppercase character, a lowercase character, a base digit (0 through 9) and a nonalphanumeric character ([!@#%&*?<>()!+*/]).

Next step →



Submission procedure



2nd step: fill out the applicant data for the group leader and the group members

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SUBMISSION PLATFORM

- WELCOME
- TA PROJECTS MANAGEMENT
- MY ACCOUNT
- APPLICANT DATA**
- GROUP MEMBERS
- PROJECT
- ACCESS REQUESTED
- SCIENTIFIC PROPOSAL
- FACTSHEET
- VALIDATION
- SUBMISSION

CALL DOCUMENTS

- Template: Lab proposal
- Template: Open proposal

APPLICANT DATA - GROUP LEADER

Save * is required for submission

Contact data

Title *
Please choose

Email address
b.pereira@euronovia-conseil.eu

First name *

Family name *

Type of organisation *
Please choose

Name of organisation/institution/company *

Name of laboratory (if applicable)

Country *
Please choose the country you live in.

Street, no. *

P.O. box (if applicable)

Zip/postal code *

Town/city *



Submission procedure



3rd step: fill out the information about your project:

Start end end date

Choose between lab and open proposals

Lab proposals: you can request access to a specific laboratory of one of the 15 laboratories in Europe.

By submitting **Open proposals**, you do not need to choose the laboratory in which you want to execute your TA project. In this case, the **Project Coordinator** will choose the most suitable TA provider for your project. The **Transnational Access Project Evaluation Committee (TAPEC)** will grant the units of access.



Submission procedure



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SUBMISSION PLATFORM

- WELCOME
- TA PROJECTS MANAGEMENT
- MY ACCOUNT
- APPLICANT DATA
- GROUP MEMBERS
- PROJECT**
- > Related to
- > Techniques to be used
- ACCESS REQUESTED
- SCIENTIFIC PROPOSAL
- FACTSHEET
- VALIDATION
- SUBMISSION

PROJECT DATA

* is required for submission

✓ Save

Project title * Max. 255 characters

Project acronym * Max. 50 characters

Preferred start date * / Preferred end date * /

Type of experiment *

Please choose

- **Lab proposal:** I know exactly what I need and I have already contacted an ESTEEM3 center to carry out my experiment.
- **Open proposal:** I have a great idea, but I do not know if my experiment is feasible and where is the best place to do it.

TA provider *

Please choose

✓ Save



Submission procedure



4th Step: Indicate the main sector

The next step is to relate your proposal to one of the main sectors addressed by ESTEEM3: either to **Materials for ICT, Energy, Health or Transport**. Select the **TEM techniques** that you plan to use, if you already know that.

5th Step: The scientific proposal template

Download the **scientific proposal template**, fill it in and upload your completed proposal document. Concerning the **scientific part** of your application, draw attention to the following aspects:

- The applicants need to describe the **scientific objectives** of the project.
- The **state-of-the art** in the study of these materials must be explained.
- The **potential for academic or industrial innovation** needs to be pointed out.



Submission procedure



Types of Units you can access:

- Sample preparation (number of samples)
- TEM analysis (days)
- Data processing (days)

In total, you can request for **maximum 20 units** spread amongst these 3 categories



TA procedure: steps and evaluation



Evaluation criteria

- **Scientific quality of the proposal** (rank: weak: 0 – outstanding: 10)
- **Demonstration of the need for the use of the advanced infrastructure** (rank: weak: 0 – outstanding: 5)
- **Potential impact for academic or industrial innovation** (rank: weak: 0 – outstanding: 5)

Proposals with a total ranking less than 10 are rejected.



TA procedure: fairness and reviewers



Rules to ensure fairness

- Priority is given to user groups who have not previously used the installations.
- Priority is given to user groups who are working in countries where no equivalent research infrastructure exists.

Reviewers (TAPEC)

The proposal is evaluated by the TAPEC (Transnational Access Proposal Evaluation Committee), which is composed of renowned scientists in microscopy and materials science.

During the selection procedure, the following rules must be observed:

- The evaluating scientists are **not associated with the project** to ensure transparency.
- To avoid potential conflicts of interest and to ensure **impartiality**, the TAPEC members reviewing proposals will **neither** come from the **country of the applicant nor of the TA provider**.



TA guidelines and information



On our website (<https://www.esteem3.eu/>), there is a presentation of the TA access procedure:

- **TA charter: guide for TA users**
- **Presentation of all laboratories**
- **Link to submit a proposal**



Enabling **S**cience and **T**echnology through **E**uropean
Electron **M**icroscopy

Thank you for your attention!