



Enabling Science through European Electron Microscopy

Annual Report on TA Access

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Guilloteau

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Revision history log

Version number	Date of release	Author	Summary of changes
V1	15/11/2019	Lucie Guilloteau	First draft of the deliverable
V1.1	11/12/2019	Peter van Aken	Amendments to the first draft and approval of the deliverable

Introduction

In order to guarantee the excellence of the Transnational Access of the project ESTEEM3, it is necessary to evaluate the project concerning the specific objectives set in the Grant Agreement between the European Commission, the coordinator and the other beneficiaries. This deliverable D12.1 therefore gives evidence about the mainly statistics relating to the Transnational Access for the first year of the project. The collected data refers to the period of the 1st of January 2019 to the 31st of October 2019.

This will include:

- A general overview of the projects which have been submitted
- Statistics of approved projects regarding their country of origin
- Statistics of approved projects regarding their type of institution
- Statistics of approved projects regarding hosting laboratories, including the units of access of the different items
- Statistics of approved projects regarding gender balance
- A conclusion about the latest progress of the Transnational Access

General overview

The general overview gives evidence about the number of projects which have been submitted and evaluated during the first period until the end of October. In total, **130 proposals have been submitted**, whereas 120 projects have been evaluated and 10 projects are in progress to be evaluated. The figure 1 shows the total number of evaluated projects.

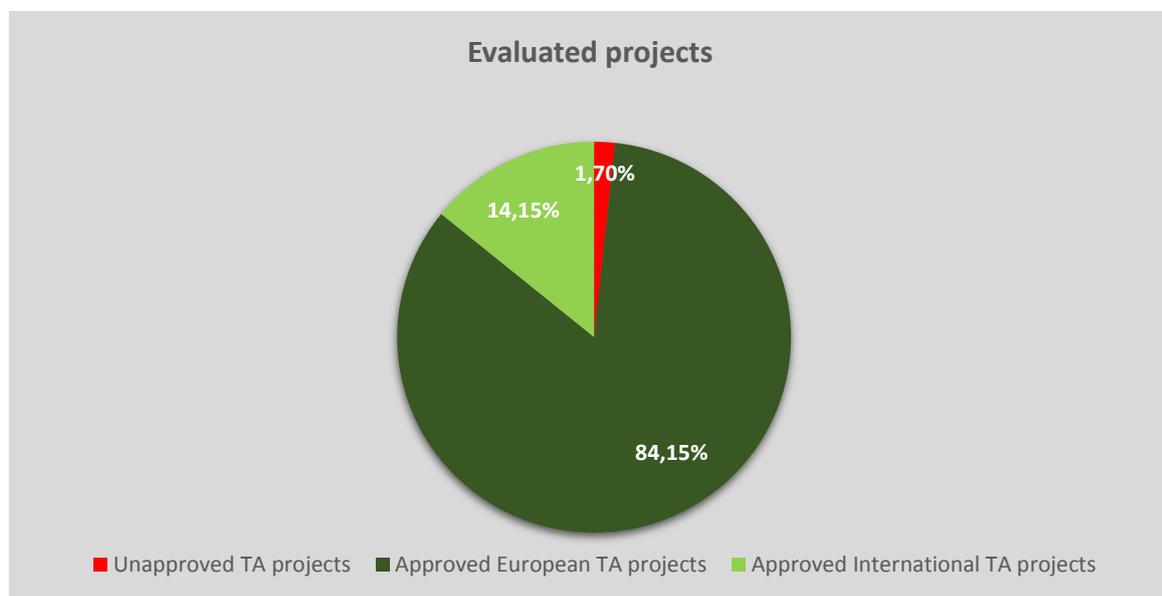


Figure 1: Evaluated Projects

Out of 120 evaluated projects, 118 were approved and 2 were declined, both of them being international proposals. This means that **the success rate is 98,3 %**.

- Among the 120 evaluated projects, 84,15 % of them were European TA projects and 14,15 % of them where international TA projects.

Out of 118 approved projects, 101 were handed in by European candidates and 17 by international ones.

- Among the 118 approved projects, 85,6 % of them were thus European TA projects and 14,4 % of them where international TA projects.

Distribution of approved projects

Regarding the examination of approved projects, the categories “country of origin”, “type of institution”, “frequentation of access of hosting laboratories” and “gender balance” are taken into account.

Country of origin

As explained in the general overview, **101 approved projects were handed in by European candidates and 17 by international ones**. In total, projects from 35 different countries were submitted. Table 1 shows the 26 countries of origin of European proposals and the total number of approved projects. Table 2 shows the 8 countries of origin of international proposals and the number of approved projects.

Country	Total number of approved European projects
Germany	18
France	9
Spain	9
United Kingdom	9
Italy	9
Netherlands	7
Sweden	5
Austria	4
Turkey	4
Denmark	4
Belgium	3
Ukraine	3
Portugal	2
Romania	2
Serbia	2
Switzerland	2
Slovenia	2
Israel	2
Ireland	2
Czech Republic	1
Poland	1
Croatia	1
Norway	1
Slovakia	1
Lithuania	1
Hungary	1

Table 1: European countries of origin

Country	Total number of approved international projects
China	5
Colombia	2
Australia	2
Korea	2
USA	1

Japan	1
Canada	1
Brazil	1

Table 2: International countries of origin

Out of all 26 European countries, German institutions handed in the most projects, obtaining a total number of 18. France, Spain, the United Kingdom and Italy each executed 9 projects and the Netherlands could make 7 projects into practice. China implemented with 5 projects the most on the international scale.

Type of institution

The projects were conducted by researchers from different types of institutions, which are represented in Figure 2:

- **Out of 118 approved projects, 80 were led by Universities or Institutes of Higher Education, which means 67 %**
- 33 projects were realized by Research Institutes, which represents 27 %
- 3 enterprises obtained a project, representing 3 % of all approved projects

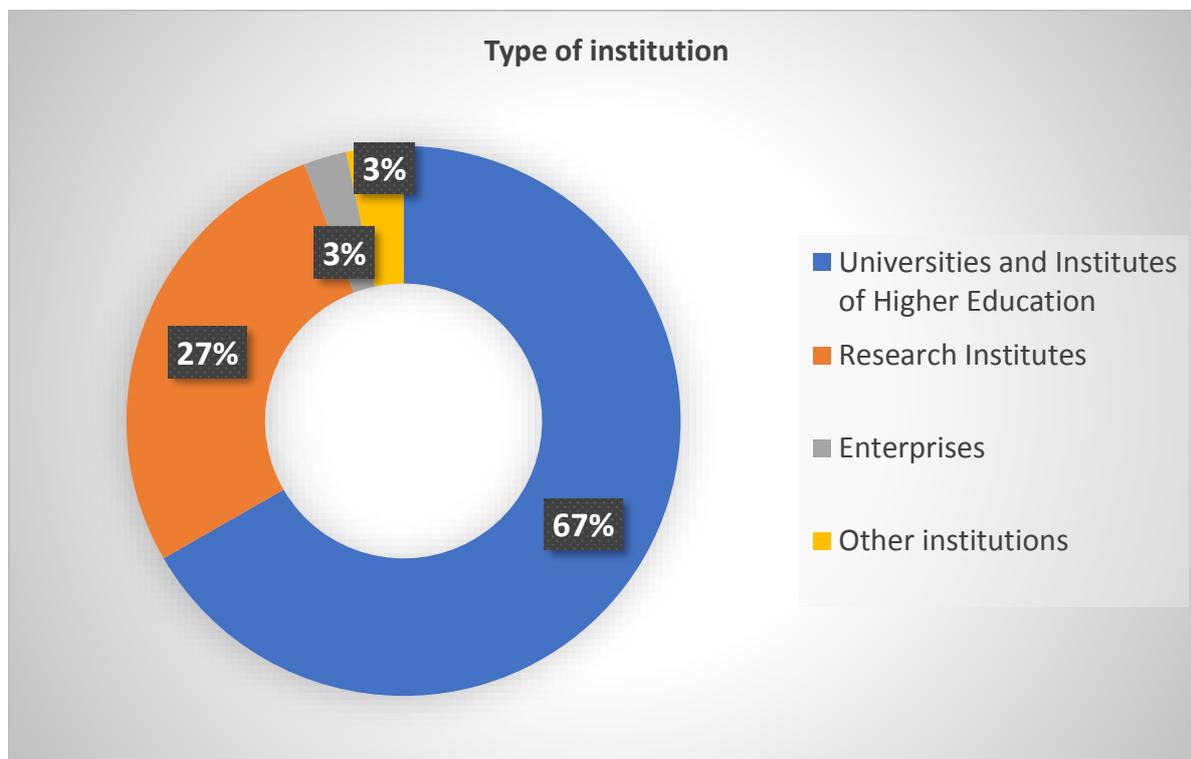


Figure 2: Type of institution

Frequentionation of access of hosting laboratories

This chapter analyses the frequentionation of access of hosting laboratories, including the units of access of the different items. First, the laboratories are compared concerning the number of conducted projects. Secondly, the requested items of units of access are illustrated. Thirdly, the requested units of access per laboratory are compared to the minimum number of access as stated in the Grant Agreement.

Table 3 shows the number of approved projects in the different laboratories. Out of all 15 laboratories, the most projects were executed at EMAT Antwerp, LMA Zaragoza and StEM Stuttgart, each of them counting the total number of 14 projects. LPS Orsay and FELMI-ZFE Graz are also ranked among the most visited laboratories, counting 13 and 11 projects.

Laboratory	Number of approved projects
EMAT Antwerp	14
LMA Zaragoza	14
StEM Stuttgart	14
LPS Orsay	13
FELMI-ZFE Graz	11
ER-C Juelich	9
IC-EM Krakow	9
Beyondnano Catania	9
CEMES Toulouse	7
Gemini Trondheim	7
A-DME Cadiz	4
CMAL Gothenburg	3
WEMS Cambridge	2
JSI Ljubljana	2
OXTEM Oxford	2

Table 3: Frequentation of access of hosting laboratories

Units of access in total

In total, **1 627 units of access have been requested by all institutions**, taking into account all approved projects until the end of October 2019. This means that out of 20 units of access available, about 14 units are on average requested per project.

Figure 3 shows all the 1 627 requested units of access:

- 751 units were needed as TEM
- 513 units were needed as data analysis
- 363 were used as sample preparation

Out of all requested units of access, the most units of access were thus used as TEM, representing 46 % of all units of access. Units of data analysis are with 32 % in second place. Sample preparation with 22 % is ranked in third place.

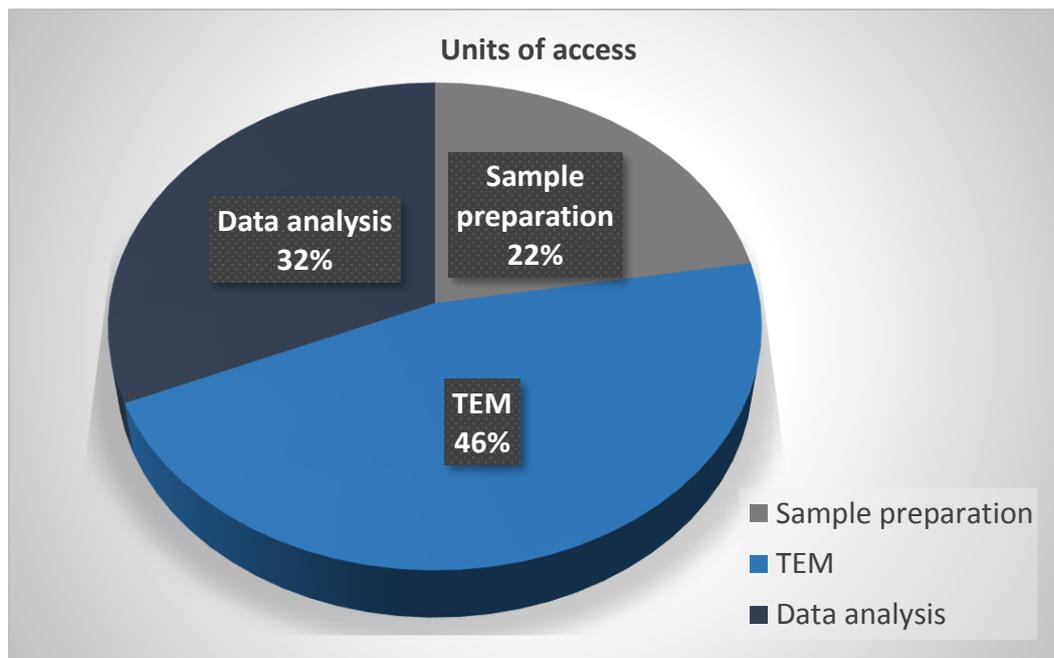


Figure 3: Units of access

Units of access per laboratory

To evaluate the executed units of access per laboratory, the different categories of the units are compared to the minimum number of access as stated in the Grant Agreement. Figure 4 shows the current status of the 15 laboratories regarding their advancement of the project, including the current status of each category of access per laboratory.

Table 4 includes the number of provided access until the 30th of October and the number of expected access per category and per laboratory. Table 4 also shows the average progress per laboratory in total.

As shown in table 4, in month 10 of the ESTEEM3 project, **7 of 15 laboratories have on average reached more than 25 %** of the number of access stated in the Grand Agreement.

These laboratories are for example:

- StEM Stuttgart has already achieved 76,5 % of the agreed number.
- Beyondnano Catania with the average of 57,8 % of advancement
- IC-EM Krakow, where 53,8 % of all agreed units of access have already been executed.

If all laboratories and all categories are considered, the current status of achievement of the project is 26,9 %.

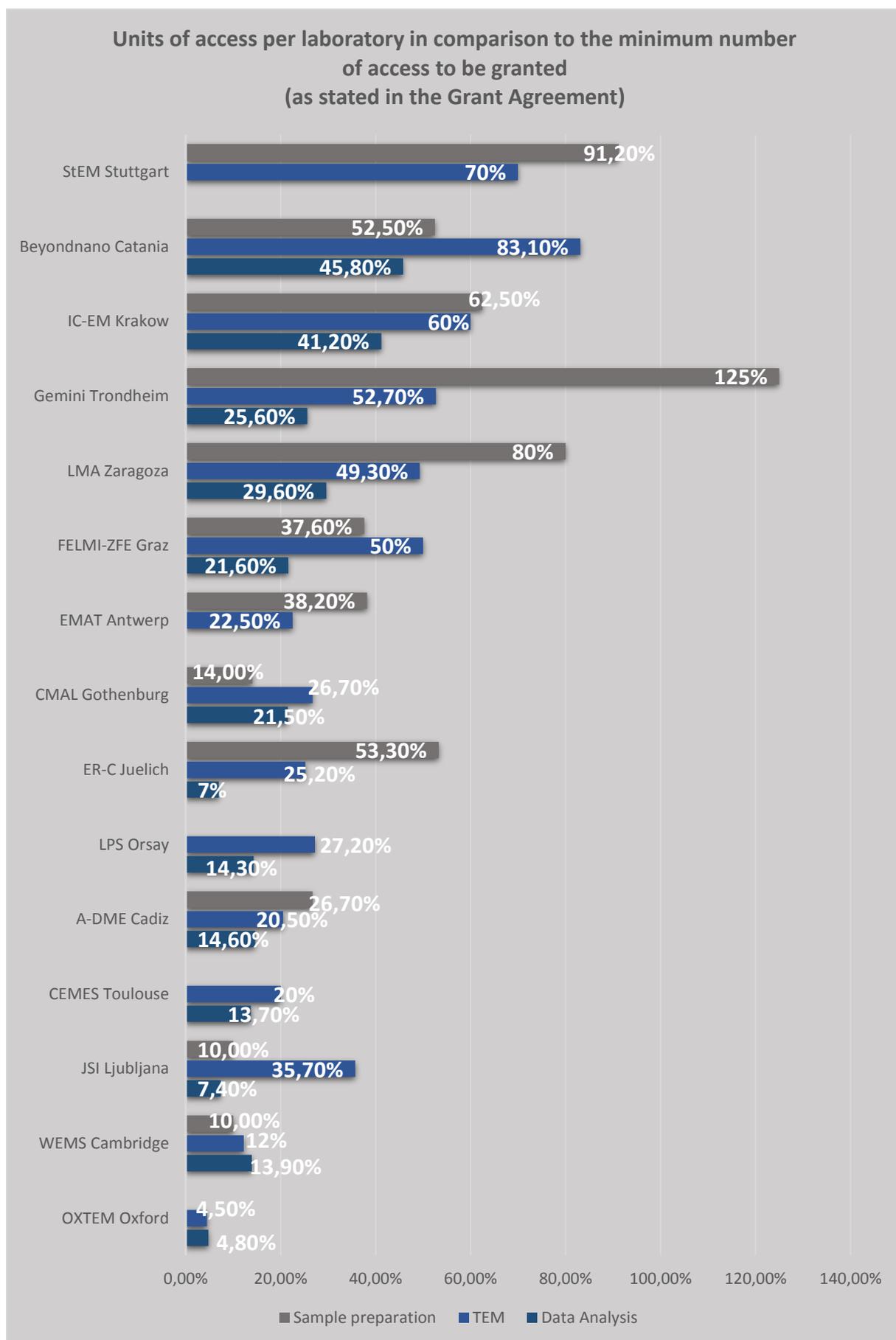


Figure 4: Units of access per laboratory

Laboratory	Number of provided access by the 30 th of October 2019			Number of expected access by the end of the project			Percentage of advancement
	Sample preparation	TEM	Data analysis	Sample preparation	TEM	Data analysis	
StEM Stuttgart	73	126		80	180		76,5 %
Beyondnano Catania	21	54	55	40	65	120	57,8 %
IC-EM Krakow	50	72	50	80	120	120	53,8 %
Gemini Trondheim	25	29	23	20	55	90	46,7 %
LMA Zaragoza	48	74	71	60	150	240	42,9 %
FELMI-ZFE Graz	47	80	51	125	160	240	33,9 %
EMAT Antwerp	42	72		110	320		26,5 %
CMAL Gothenburg	7	24	28	50	90	130	21,9 %
ER-C Juelich	32	68	19	60	270	270	19,8 %
LPS Orsay		49	73		180	510	17,7 %
A-DME Cadiz	4	18	28	15	88	192	17,0 %
CEMES Toulouse		40	41		200	300	16,2 %
JSI Ljubljana	5	25	10	50	70	135	15,7 %
WEMS Cambridge	9	11	18	90	90	130	12,3 %
OXTEM Oxford		9	23		200	480	4,7 %

Table 4: Percentage of advancement per laboratory

Gender equality

Figure 5 shows the gender balance of the group leaders of all approved projects. Out of 118 approved projects, 76 projects were led by male group leaders and 42 were led by female group leaders.

This means that:

- 64 % of the group leaders of all approved projects are male.
- 36 % of the group leaders of all approved projects are female.

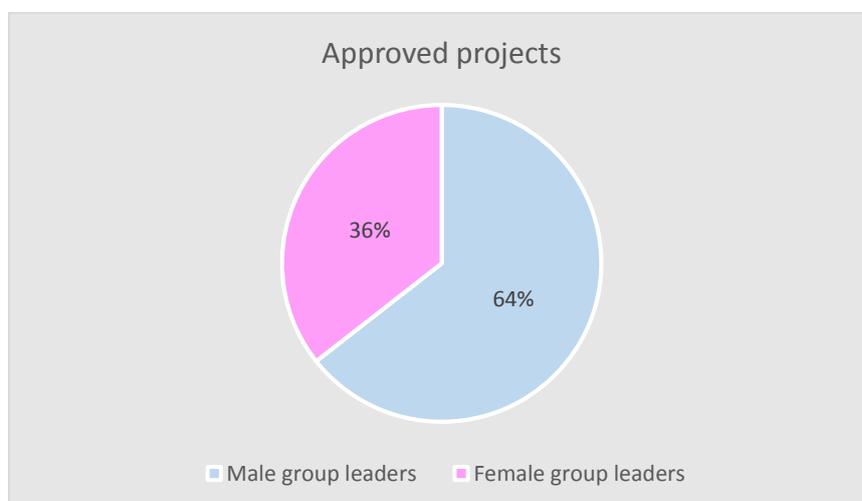


Figure 5: Gender of group leaders of approved projects

Conclusion

In conclusion, after 10 months of the ESTEEM3 project, the current status of achievement of the project is 26,9 %. So, 73,1 % remain to be achieved until the end of the project. Hence, the ESTEEM3 TA is safely above target showing the strong need of European academia and enterprises for TA.

Among the 118 approved projects, 85,6 % of them were European TA projects and 14,4 % of them were international TA projects. As the access for user groups not working in an EU or associated country is limited to 20 % of the total amount of units of access, the coordination team will ensure this rule. Furthermore, the beneficiaries continue to take all measures to promote equal opportunities between men and women in the implementation of the action.