



Enabling Science through European Electron Microscopy

## Annual Report on TA Access

Deliverable D12.1 – version 1

Estimated delivery date: **31/12/2020**

Actual delivery date: **04.02.2021**

Lead beneficiary: Euronovia

Person responsible: Antoine Kieffer

Deliverable type:

R  DEM  DEC  OTHER  ETHICS  ORDP

Dissemination level:

PU  CO  EU-RES  EU-CON  EU-SEC



THIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT NO **823717**



---

Grant Agreement No:	823717
Funding Instrument:	Research and Innovation Actions (RIA)
Funded under:	H2020-INFRAIA-2018-1: Integrating Activities for Advanced Communities
Starting date:	01.01.2019
Duration:	54 months

---

## Table of contents

Revision history log .....	3
Introduction .....	4
General overview .....	4
Distribution of approved projects .....	6
Country of origin .....	6
Type of institution .....	7
Frequentation of access of hosting laboratories .....	8
Units of access in total .....	8
Units of access per laboratory .....	9
Gender equality .....	11
Conclusion .....	12

## Revision history log

Version number	Date of release	Author	Summary of changes
V1	19.01.2021	Antoine Kieffer	First draft of the deliverable
V2	27.01.2021	Peter A. van Aken	Revisions of draft
V3	03.02.2021	Antoine Kieffer	Final version

## 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. Therefore, this deliverable D12.1 therefore gives evidence about the mainly statistics relating related to the provided Transnational Access for the second year of the project. The collected data refer to the period of 1<sup>st</sup> January 2019 to 31<sup>st</sup> October 2020.

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 2020**.

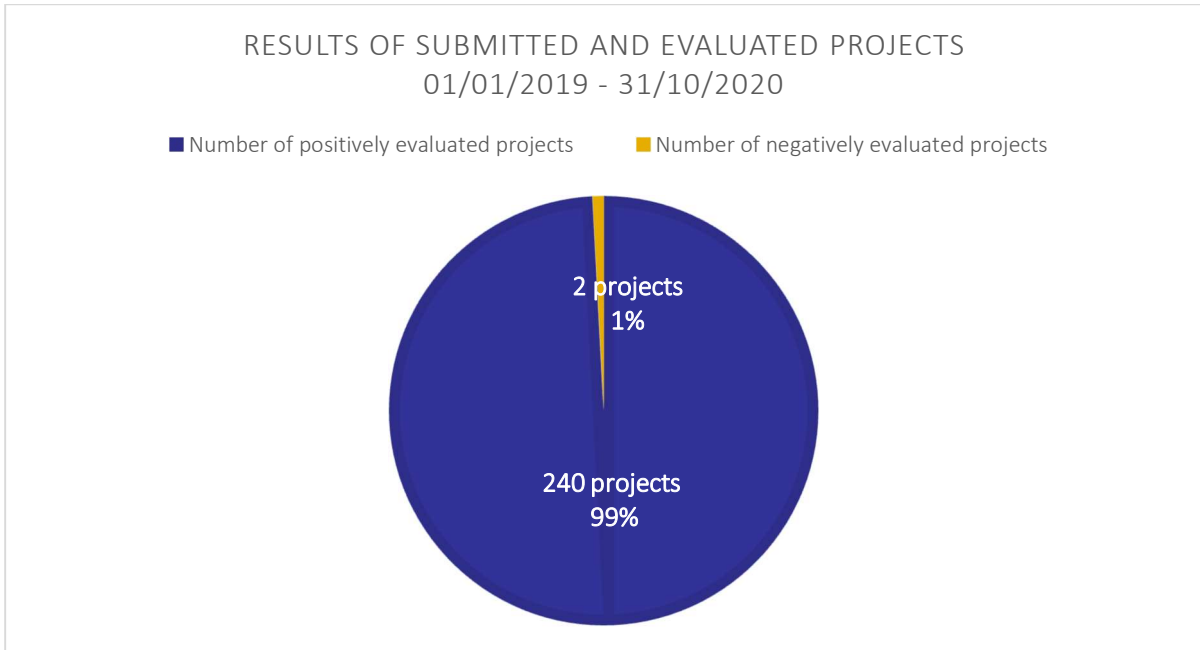
In total, **242 proposals have been submitted**, and **242 projects have been evaluated**.

*Figure 1: Status of projects*



Out of **242 evaluated projects**, **240 were approved** and **2 were declined**, both of them being international proposals. This means that **the success rate is 99 %**.

Figure 2: Results of projects



Among the 242 evaluated projects, 210 projects were European TA projects, which represent 87 % and 32 projects were international TA projects, which represent 13 %.

Out of 240 approved projects, 210 projects were handed in by European candidates, which represent 87 %, and 30 projects by international ones, which represent 13 %.

Figure 3: Origin of 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, **210 approved projects were handed in by European candidates and 30 by international ones.**

In total, projects from **41** different countries were submitted.

Table 1 shows the **28** countries of origin of European proposals and the total number of approved projects.

Table 2 shows the **13** countries of origin of international proposals and the number of approved projects.

Table 1: European countries of origin

Country	Total number of approved European projects
Germany	33
Spain	26
United Kingdom	20
France	17
Italy	17
Netherlands	14
Austria	10
Denmark	9
Slovenia	7
Sweden	6
Norway	6
Ireland	5
Turkey	4
Ukraine	4
Belgium	4
Portugal	4
Poland	4
Romania	3
Switzerland	3
Israel	3
Serbia	2
Greece	2
Czech Republic	2
Lithuania	2
Croatia	1
Slovakia	1
Hungary	1
Estonia	1

Table 2: International countries of origin

Country	Total number of submitted projects	Total number of approved projects
Japan	3	3
China	7	7
South Korea	2	2
Australia	2	2
USA	5	4
Canada	2	2
Argentina	3	2
Colombia	2	2
Brazil	1	1
Singapore	2	2
Egypt	1	1
Taiwan	1	1
South Africa	1	1

Out of all **28 European countries**, **German** institutions handed in the most projects, obtaining a total number of **33**. **Spain**, the **United Kingdom**, **France**, and **Italy** each executed **26**, **20** and **17 projects**, respectively, and **the Netherlands** could make **14 projects** into practice.

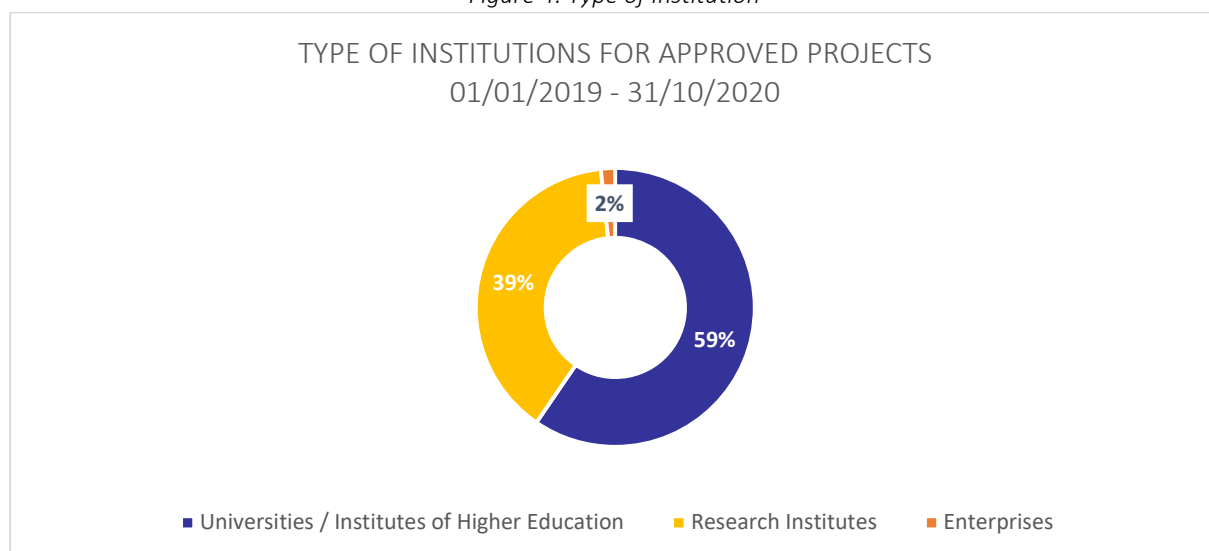
At the **international scale**, **China** implemented the most with **7 projects submitted**, followed just behind with the **United States of America** with **5 projects submitted**.

### Type of institution

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

- Out of 240 approved projects, 143 were led by Universities or Institutes of Higher Education, which means 59 %,
- 93 projects were realized by Research Institutes, which represents 39 %,
- 4 enterprises obtained a project, representing 2 % of all approved projects.

Figure 4: 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** and **LPS Orsay**, each of them counting the total number of **28 projects**. **ER-C Juelich** and **StEM Stuttgart** are also ranked among the most visited laboratories, counting 24 and 22 projects.

Table 3: Frequentionation of access of hosting laboratories

Laboratory	Number of approved projects
StEM Stuttgart	22
ER-C Juelich	24
LPS Orsay	28
CEMES Toulouse	17
EMAT Antwerp	28
OXTEM Oxford	8
WEMS Cambridge	15
JSI Ljubljana	6
FELMI-ZFE Graz	18
LMA Zaragoza	20
A-DME Cadiz	9
IC-EM Krakow	15
CMAL Gothenburg	6
Gemini Trondheim	13
Beyondnano Catania	13

### Units of access in total

In total, **3 495 units of access have been requested by all institutions**, taking into account all approved and rejected projects until the end of October 2020. This means that out of 20 units of access available, about 14 units are on average requested per project.

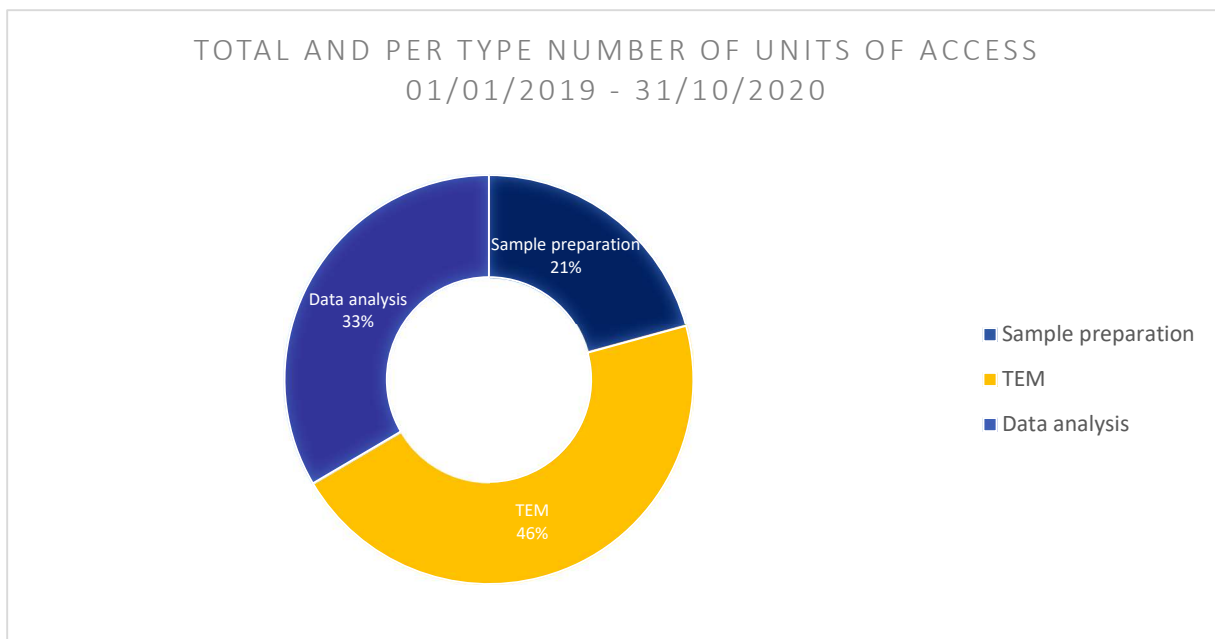
Figure 3 shows all the **3 495 requested** units of access:

- **726** were used as **sample preparation**,
- **1599** units were needed as **TEM**,
- **1170** units were needed as **data analysis**.

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 **33 %** in **second place**. **Sample preparation** with **21 %** is ranked in **third place**.

Figure 5: 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 6 shows the status of the 15 laboratories regarding their advancement of the project, including the status of each category of access per laboratory.

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

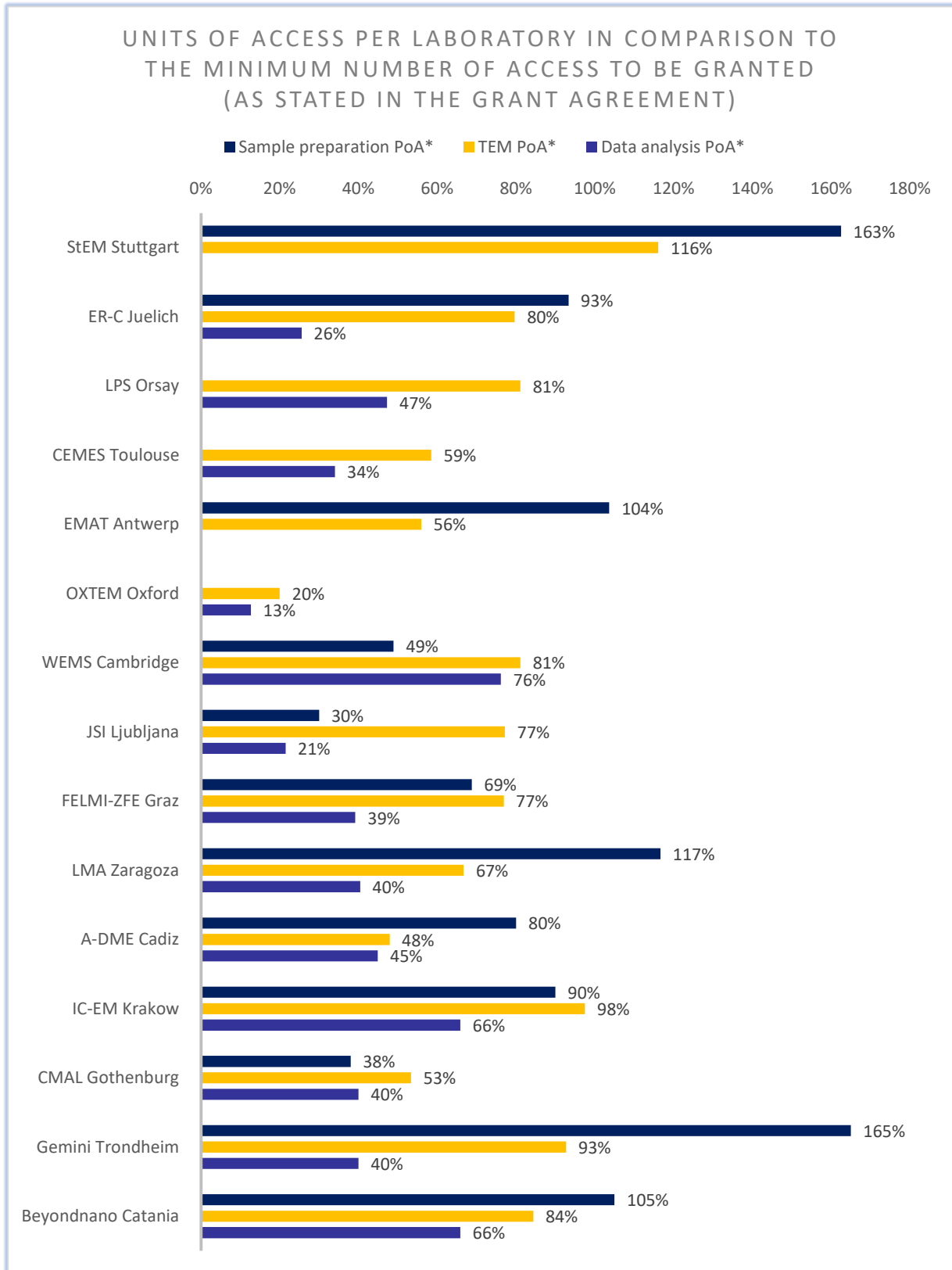
As shown in table 4, in month 20 of the ESTEEM3 project, **14 of 15 laboratories have reached on average more than 25 %** of the number of access stated in the Grand Agreement.

These laboratories are for **example**:

- **StEM Stuttgart** has already achieved **130 %** of the agreed number.
- **Beyondnano Catania** with the average of **78 %** of advancement
- **IC-EM Krakow** has already executed **84 %** of all agreed units of access.

If all laboratories and categories are considered, the status of achievement of the project is **56 %**.

Figure 6: Units of access per laboratory



\*Percentage of advancement

Table 4: Percentage of advancement per laboratory

Laboratory	Number of provided access by the 30st of October 2020			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	130	209	∅	80	180	∅	130%
ER-C Juelich	56	215	69	60	270	270	57%
LPS Orsay	∅	146	241	∅	180	510	56%
CEMES Toulouse	∅	117	102	∅	200	300	48%
EMAT Antwerp	114	179	∅	110	320	∅	68%
OXTEM Oxford	∅	40	61	∅	200	480	15%
WEMS Cambridge	44	73	99	90	90	130	70%
JSI Ljubljana	15	54	29	50	70	135	38%
FELMI-ZFE Graz	86	123	94	125	160	240	58%
LMA Zaragoza	70	100	97	60	150	240	59%
A-DME Cadiz	12	46	88	15	96	196	47%
IC-EM Krakow	72	117	79	80	120	120	84%
CMAL Gothenburg	19	48	52	50	90	130	44%
Gemini Trondheim	33	51	36	20	55	90	72%
Beyondnano Catania	42	81	79	40	96	120	78%

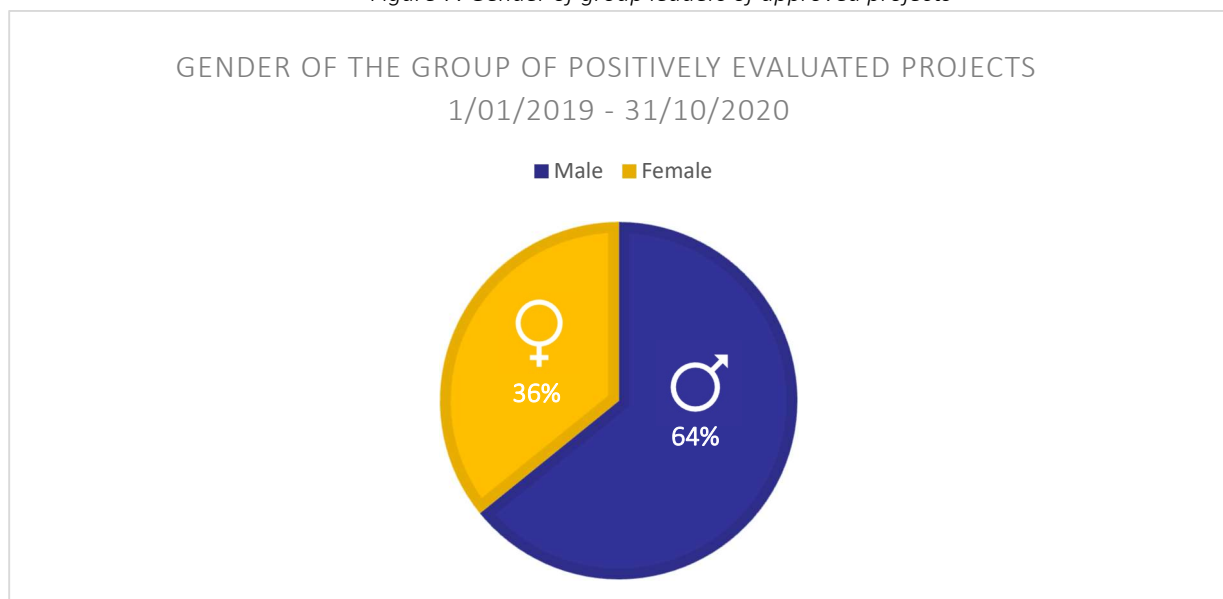
## Gender equality

Figure 5 shows the gender balance of the group leaders of all approved projects. Out of 239 approved projects, 152 projects were led by male group leaders and 86 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 7: Gender of group leaders of approved projects



## Conclusion

In conclusion, after 20 months of the ESTEEM3 project, the **status of achievement of the project is 56 %**. So, 44 % 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 Transnational Access.

Among the **240 approved projects, 87 % of them were European TA projects and 13 % of them were international TA projects**. As the access for user groups not working in the EU or an 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.

Compared to **2019**, the results are quite **similar** and show a **consistency** in the participation and management of the Transnational Access.