



ARIES WP2 Task 2.3

Survey on Accelerator training: Results

Work Package 2 Parallel meeting-2020

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Information regarding survey

- Survey was launched in Nov 2019 using survey monkey tool
- Typical time to fill the survey was 15 minutes.
- Repeated follow up was done with the National contacts. Most of the national contacts have done a very good follow up with their colleagues.
- For some countries, the institutes were directly contacted as the negligible responses were received
- Finally the Survey data by beginning of April 2020 is used for the analysis

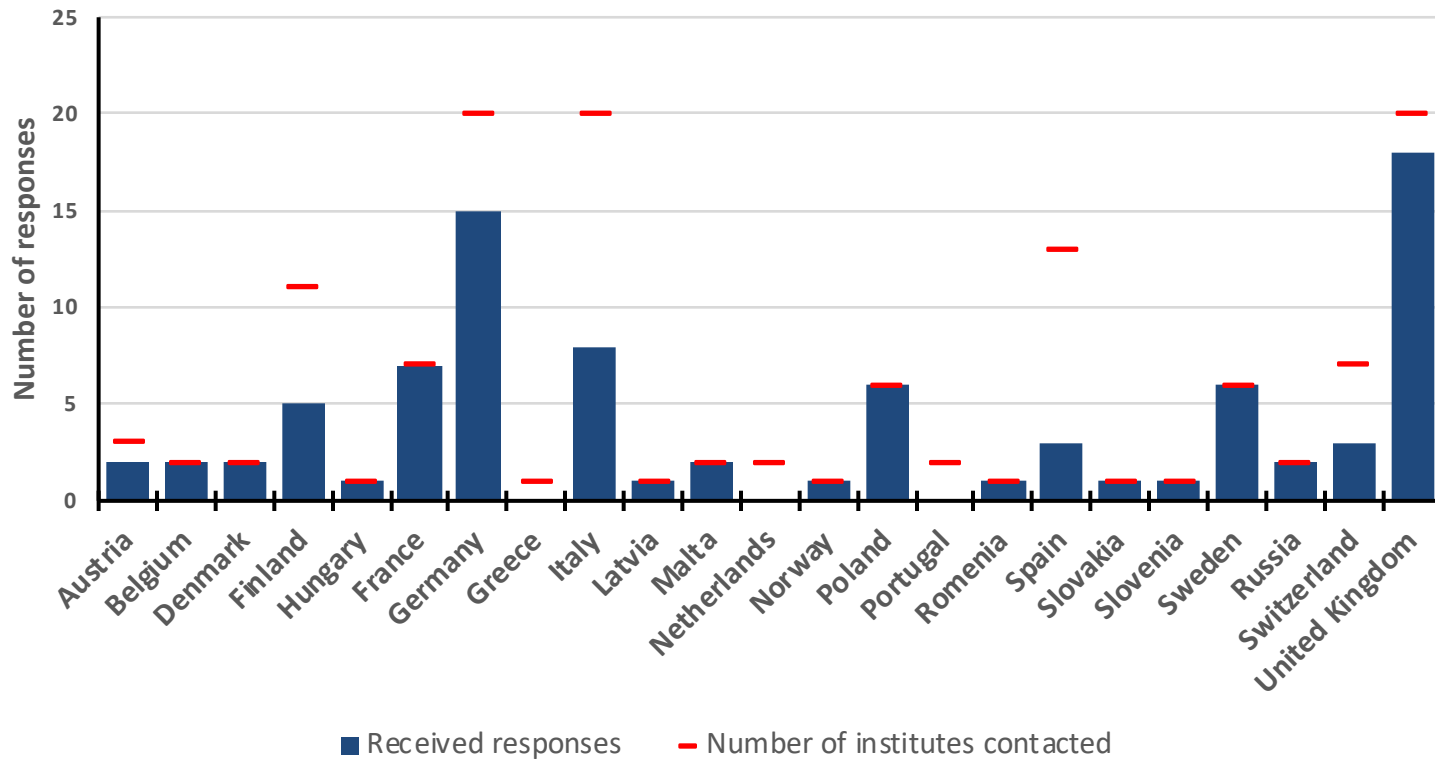
ARIES survey:

- Carried out in 2019
- Institutes
Universities
National / International laboratories
Companies
- Time-line
2012-2017 (average of data during 5 years)
2018
2019

TIARA survey:

- Carried out in 2012
- Institutes
Universities
National / International laboratories
- Time-line
2005-2009 (average of data during 5 years)
2010
2011



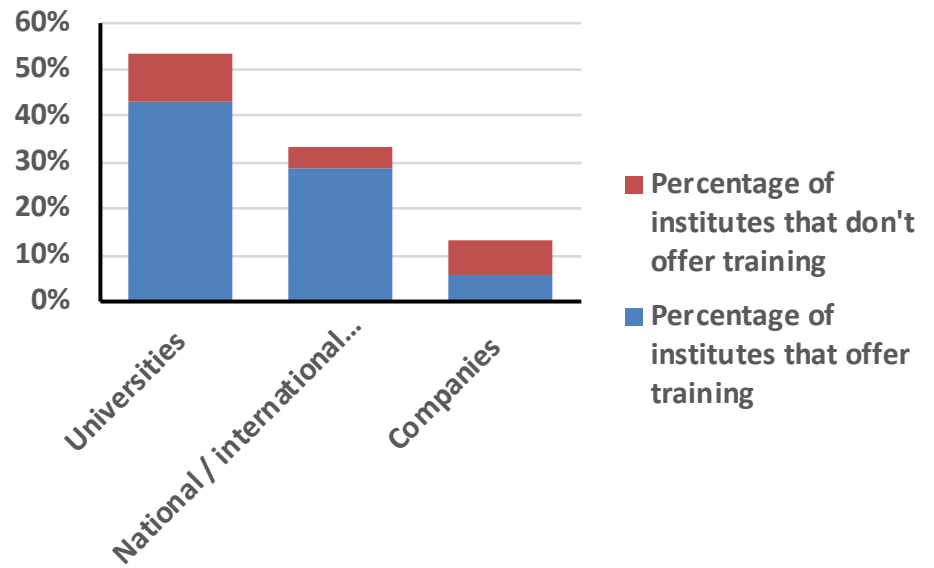
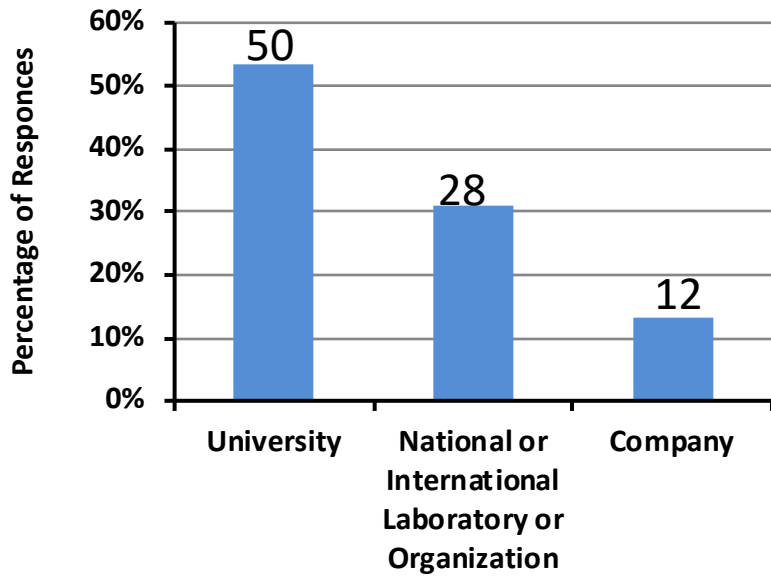


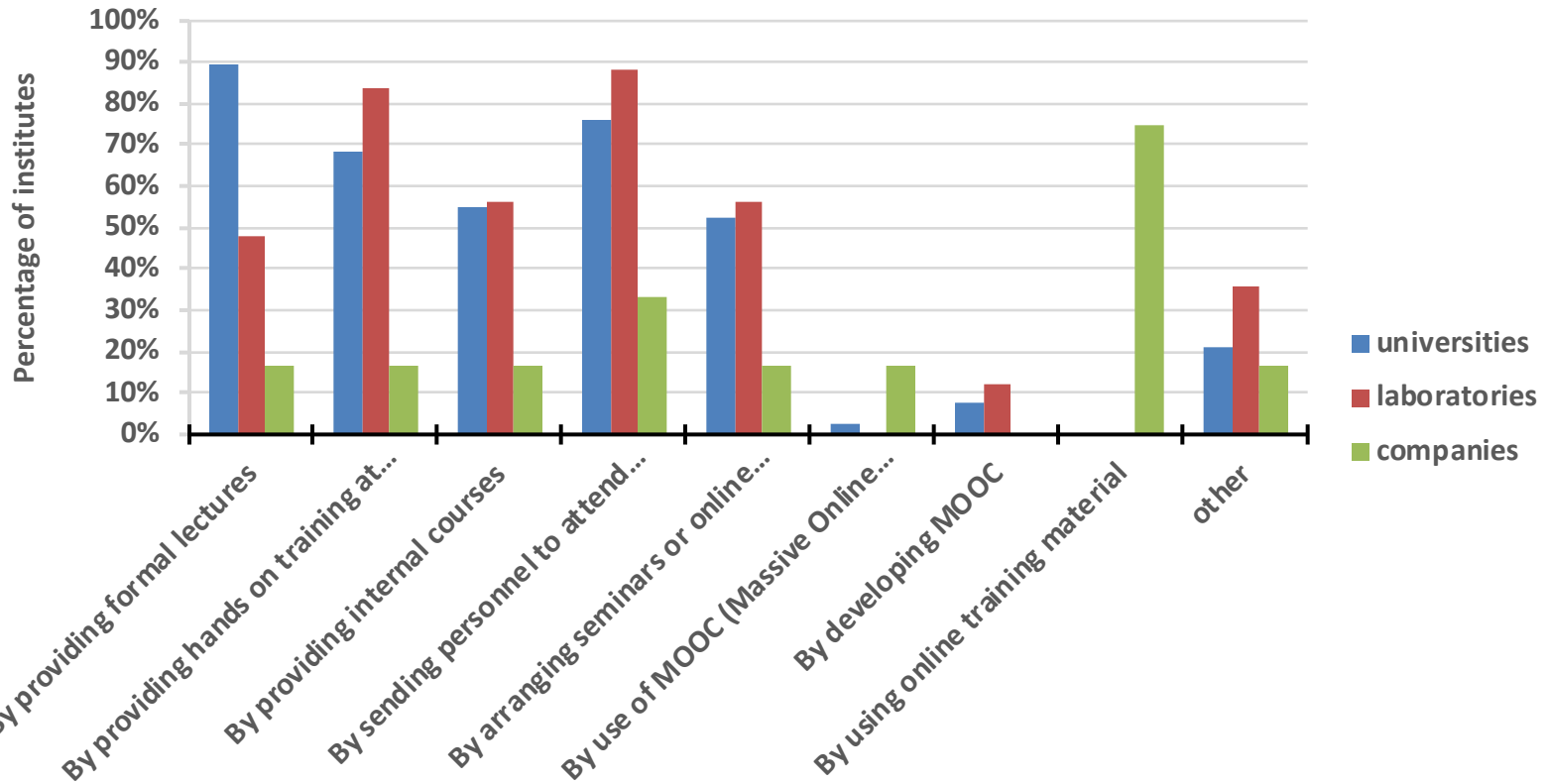
Survey was sent to:
more than 140 institutes in 23 Countries

Received complete responses from
90 institutes from 21 countries

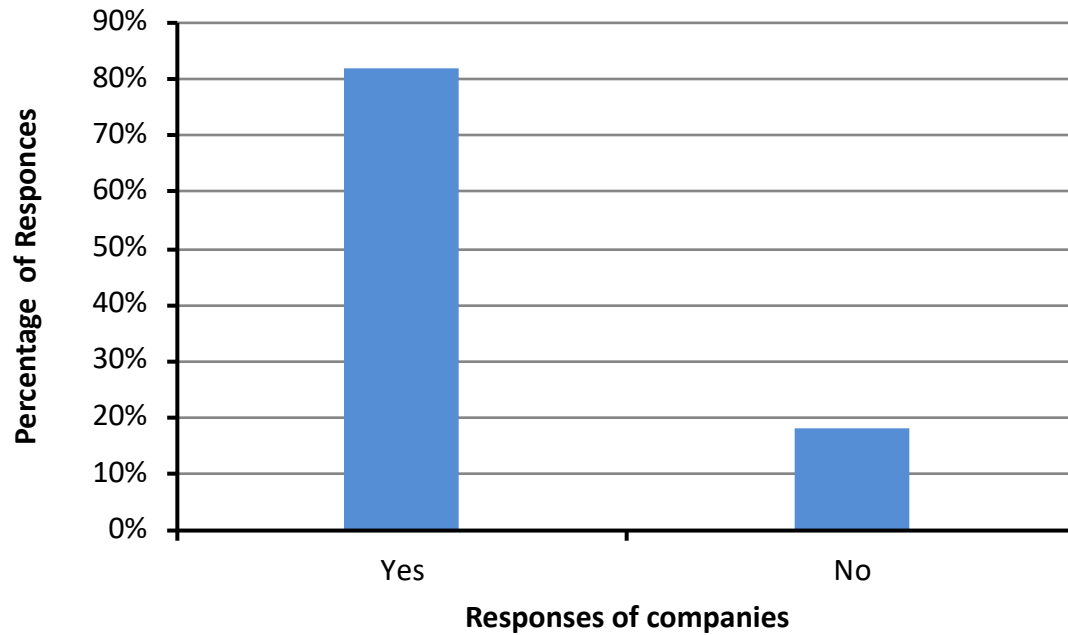
TIARA survey: Input from 88 institutes from 13 countries



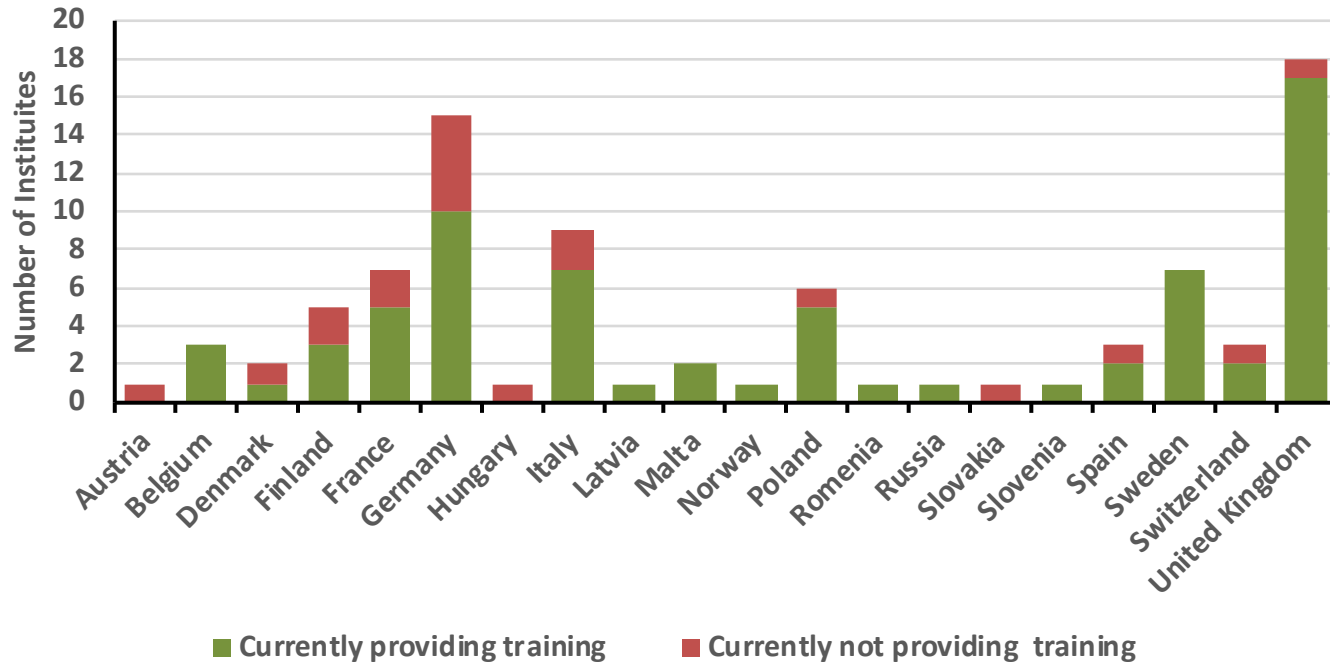




Companies have expressed need of training



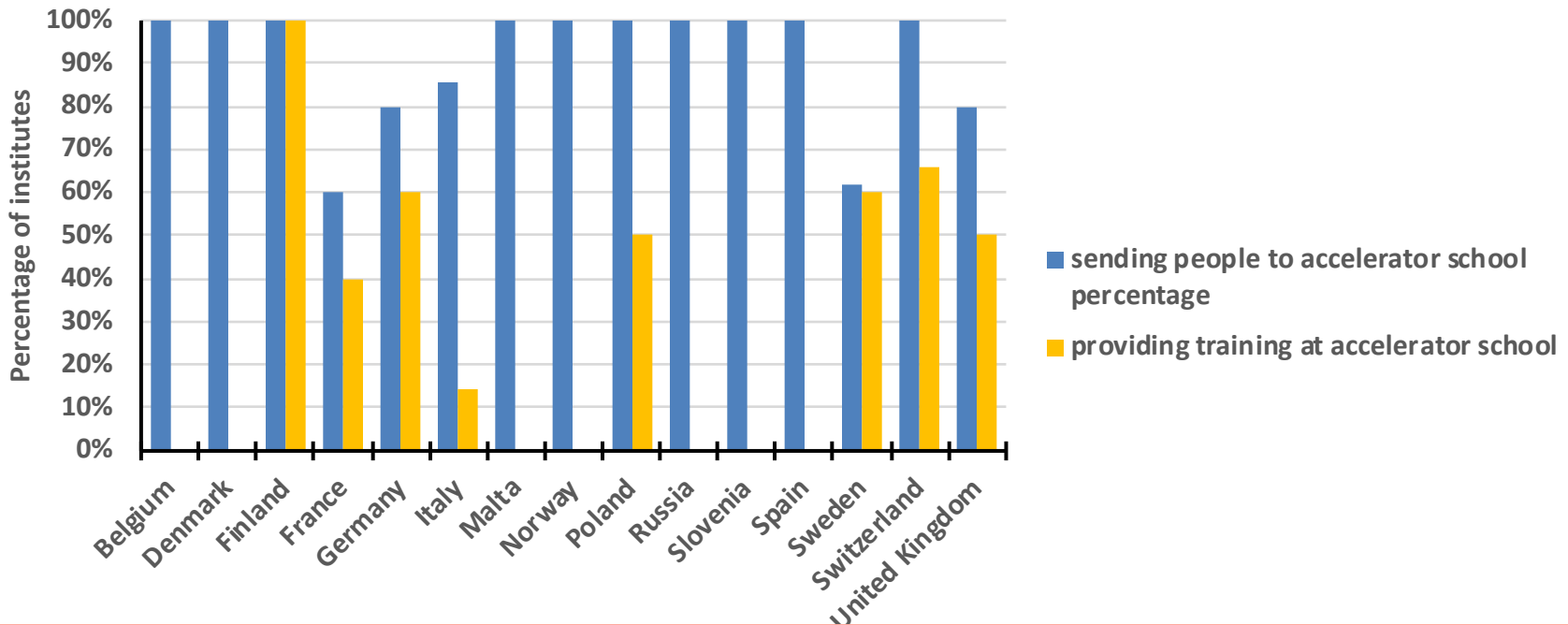
Statistics for year 2019



Total 88% of the institutes provide training on some aspect in accelerator science.

TIARA survey: 85% institutes provide training on some aspect in accelerator science.

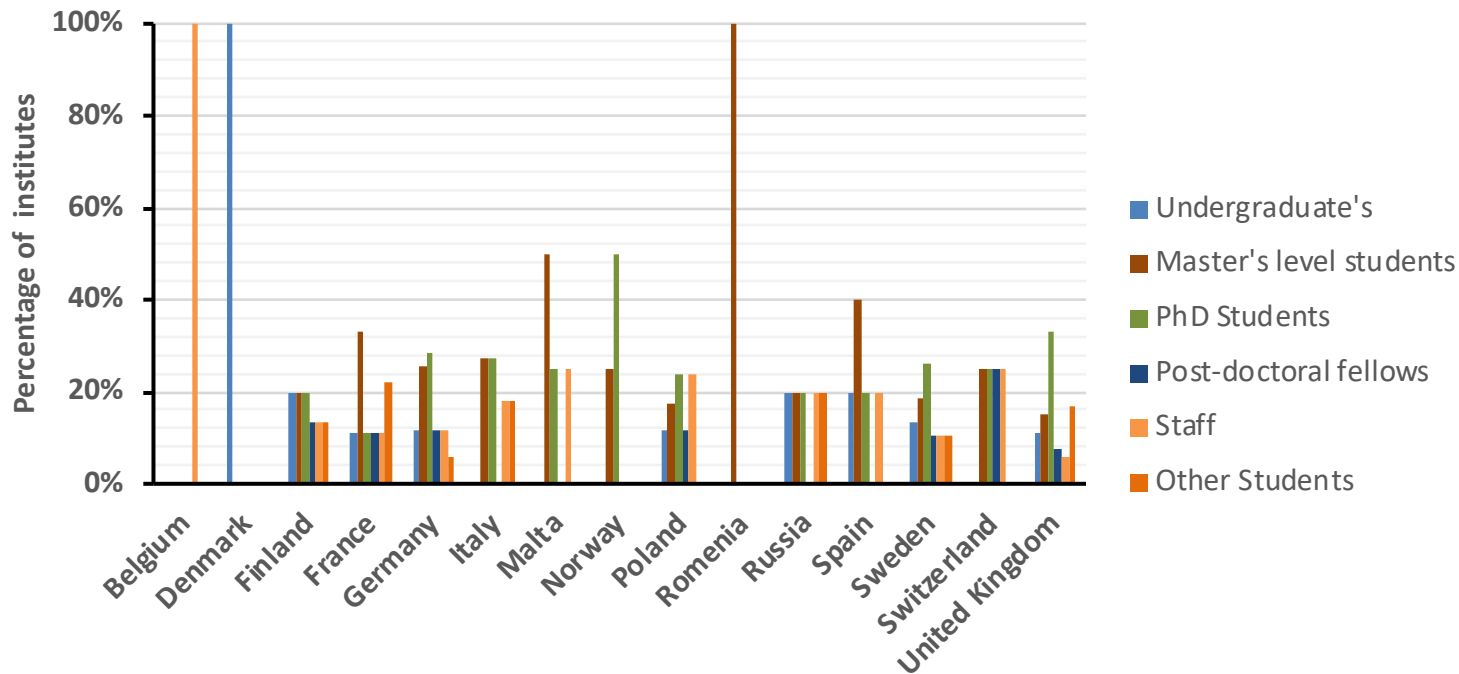




55 institutes ie. about 61 % of the institutes send their people to attend the Accelerator schools, which provide centralized training

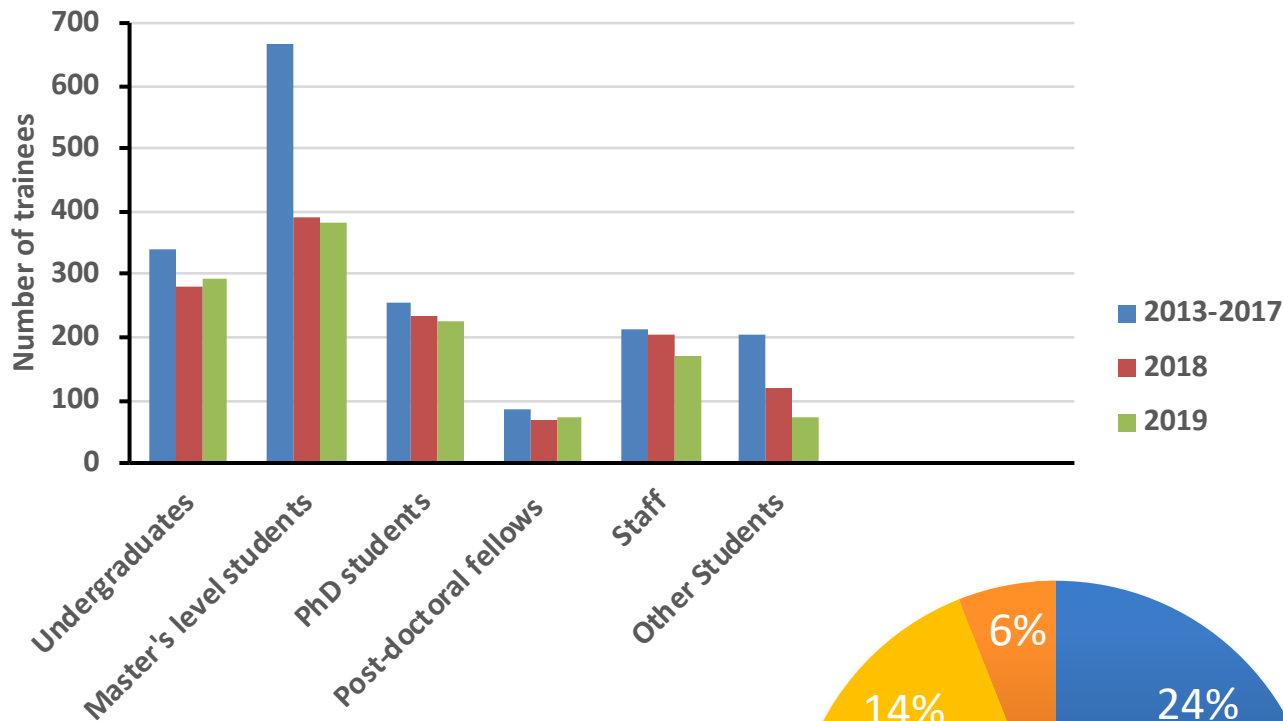
Faculties from about 29% of institutes teach in the accelerating schools, which is a

TIARA survey: 94% of institutes institutes send their people to attend the Accelerator schools. Staff members from 34% institutes provide training at schools



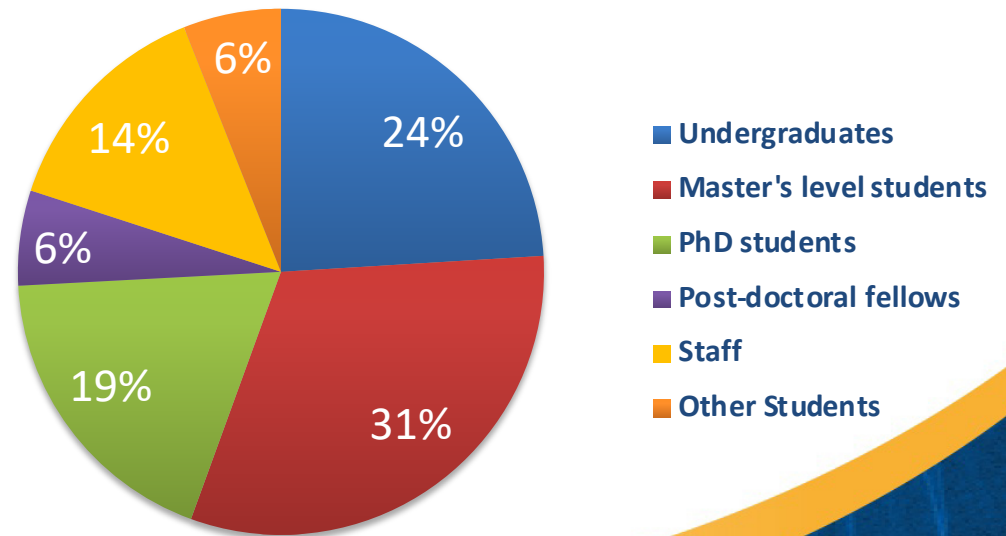
The percentage of the responding institutes in each country that currently offer training to each trainee category. Country specific training. % of students is less as compared to TIARA survey.

TIARA survey: 49% institutes train undergraduates, 64% to master's students, 70% to PhD students, 44% to post-doctoral fellows and 24% to staff



1760 received training
 1300 received training
 1215 received training

Decrease in the number of trainees is observed per year



In 2019:

1215 people received training

292 undergraduates (24%)

383 Master's students (32%)

226 PhD students (19%)

71 post-doctoral fellows (5.8%)

170 staff (14%)

73 others (6%)

In 2011:

1371 people received training

466 undergraduates (34%)

356 Master's students (26%)

198 PhD students (14%)

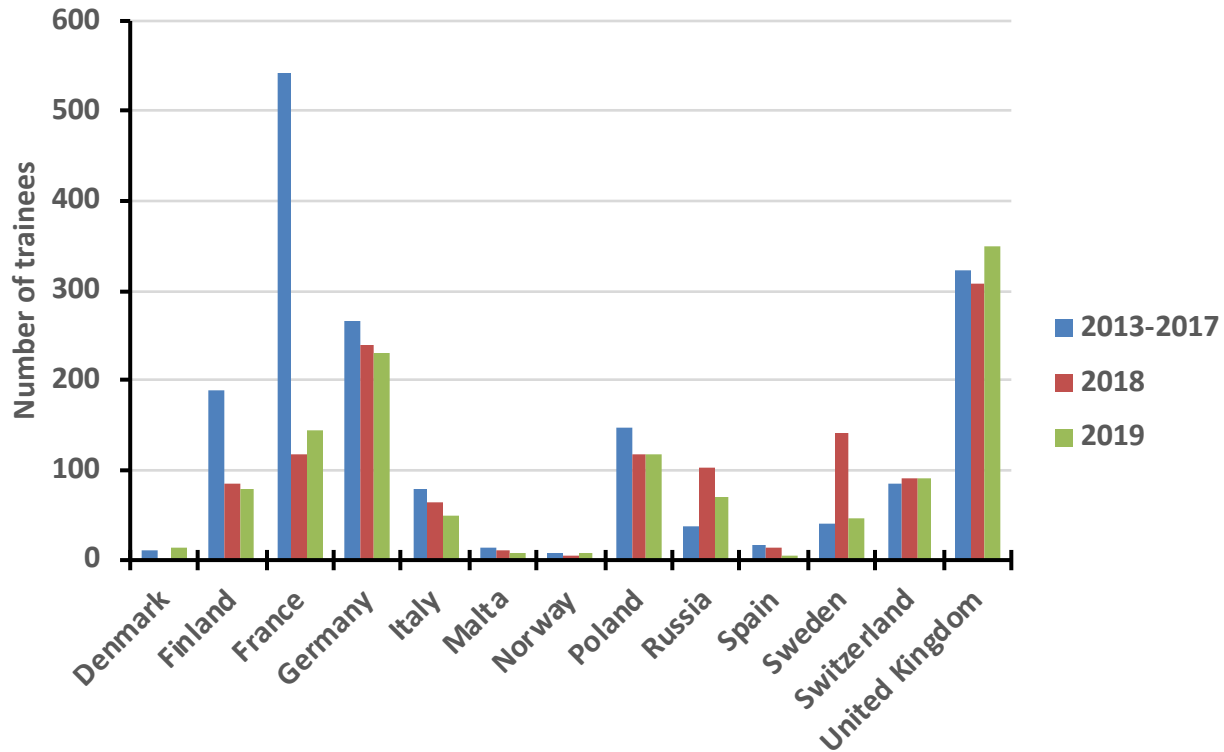
95 post-doctoral fellows (7%)

230 staff (17%)

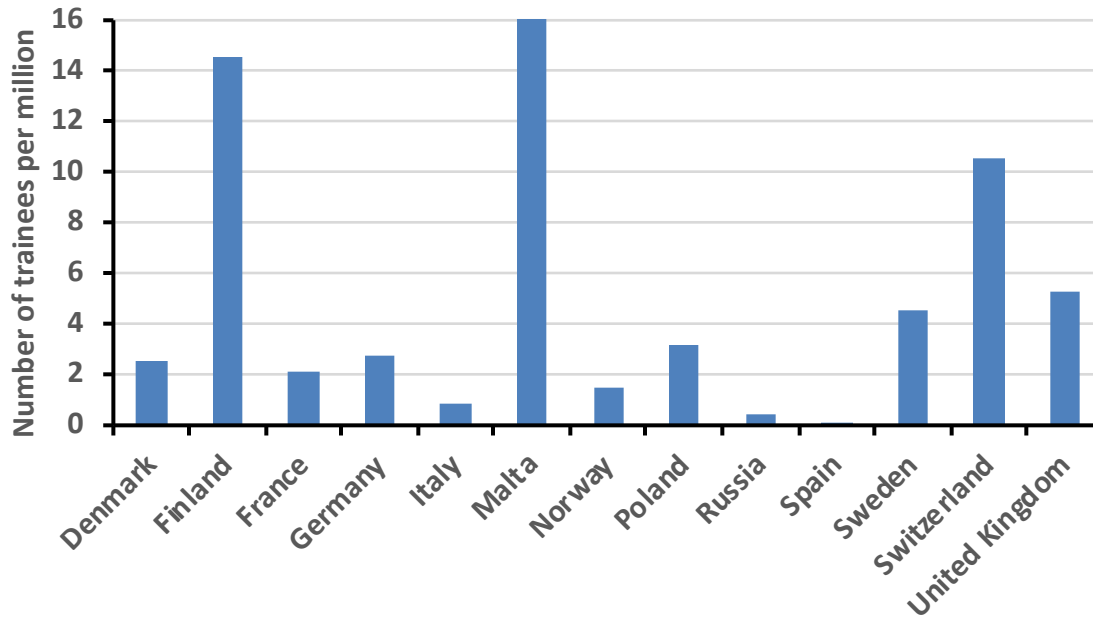
26 others (2%)

As compared to 2011, the responding institutes have reported 11% less students in 2019.

Country wise distribution of trainees



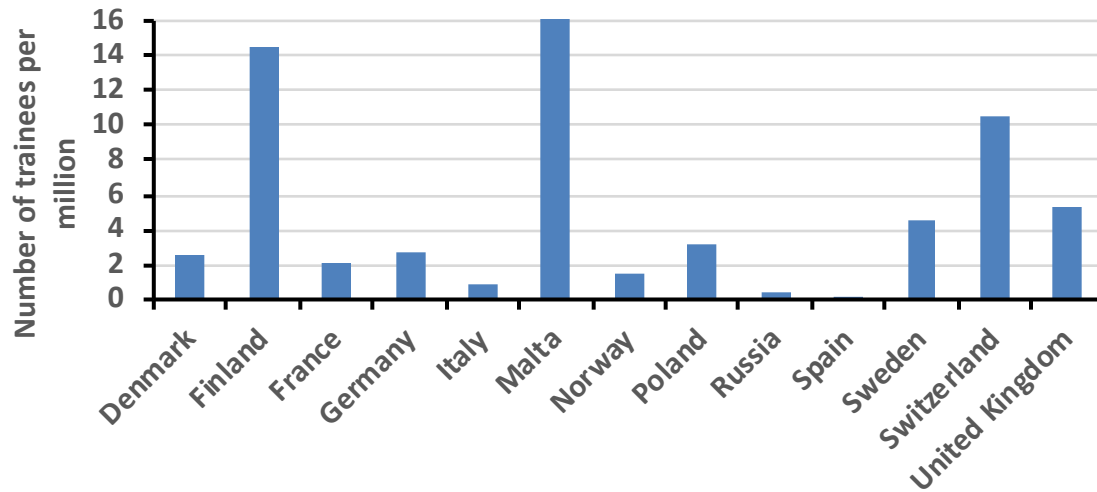
trainees normalized to population in the country



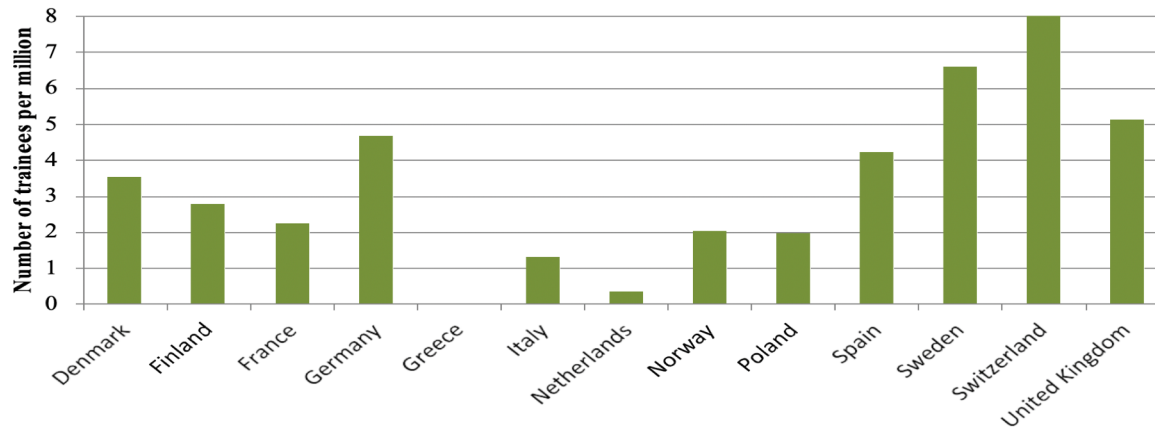
For most of countries - three people per million receive training in accelerating science

For three countries: 10-15 people per million receive training in accelerating science

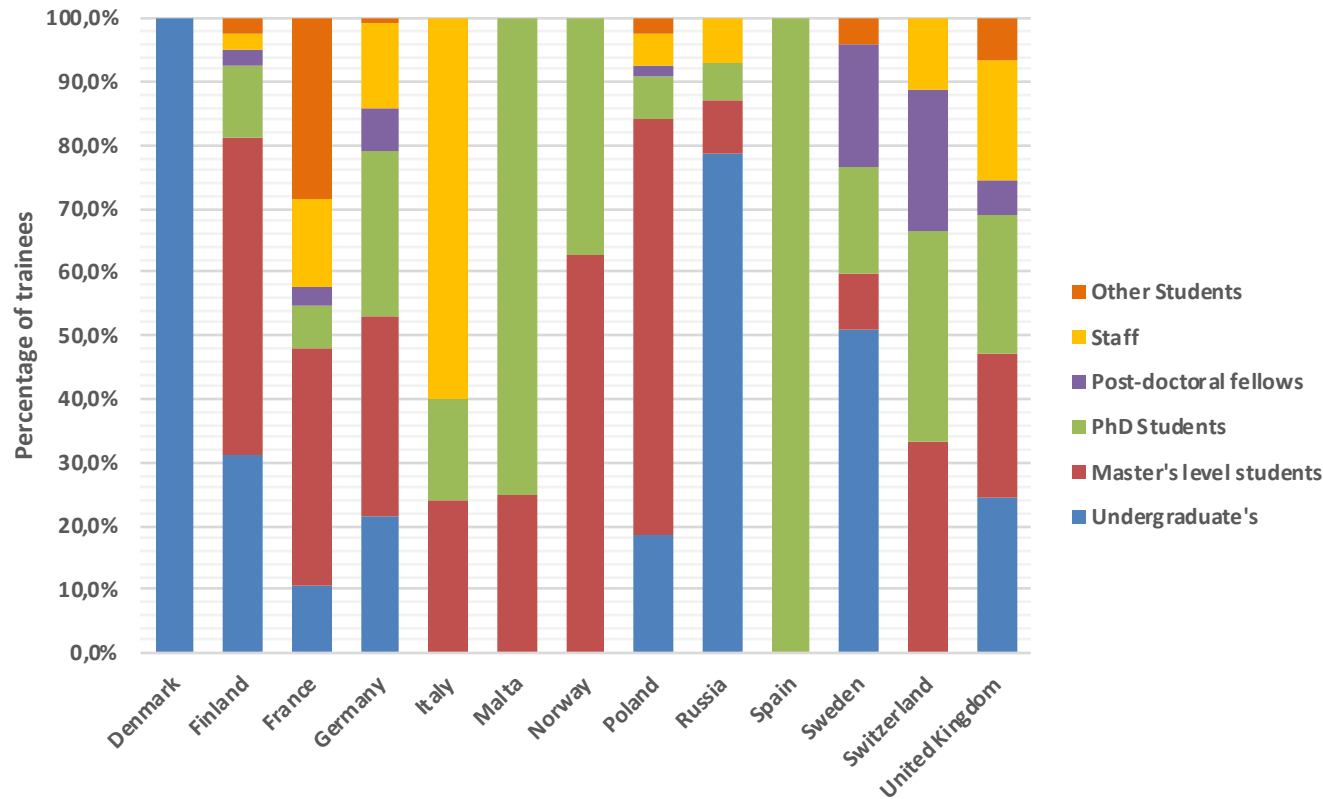
ARIES survey



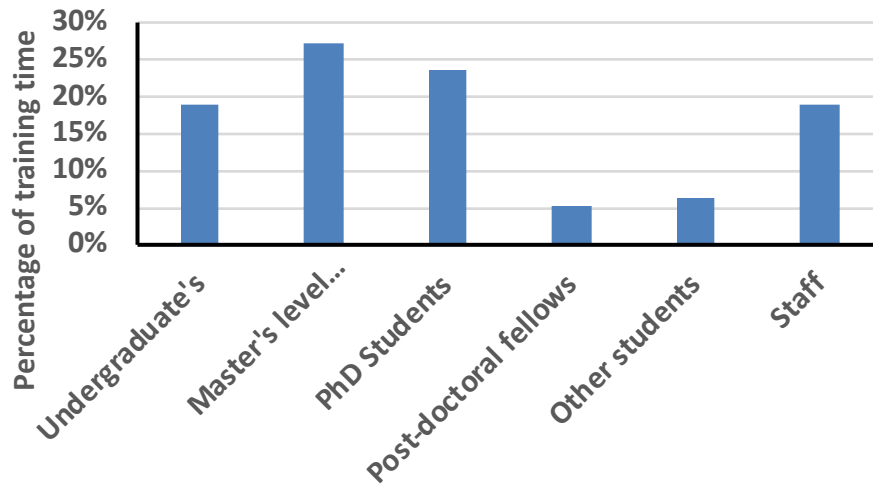
TIARA Survey



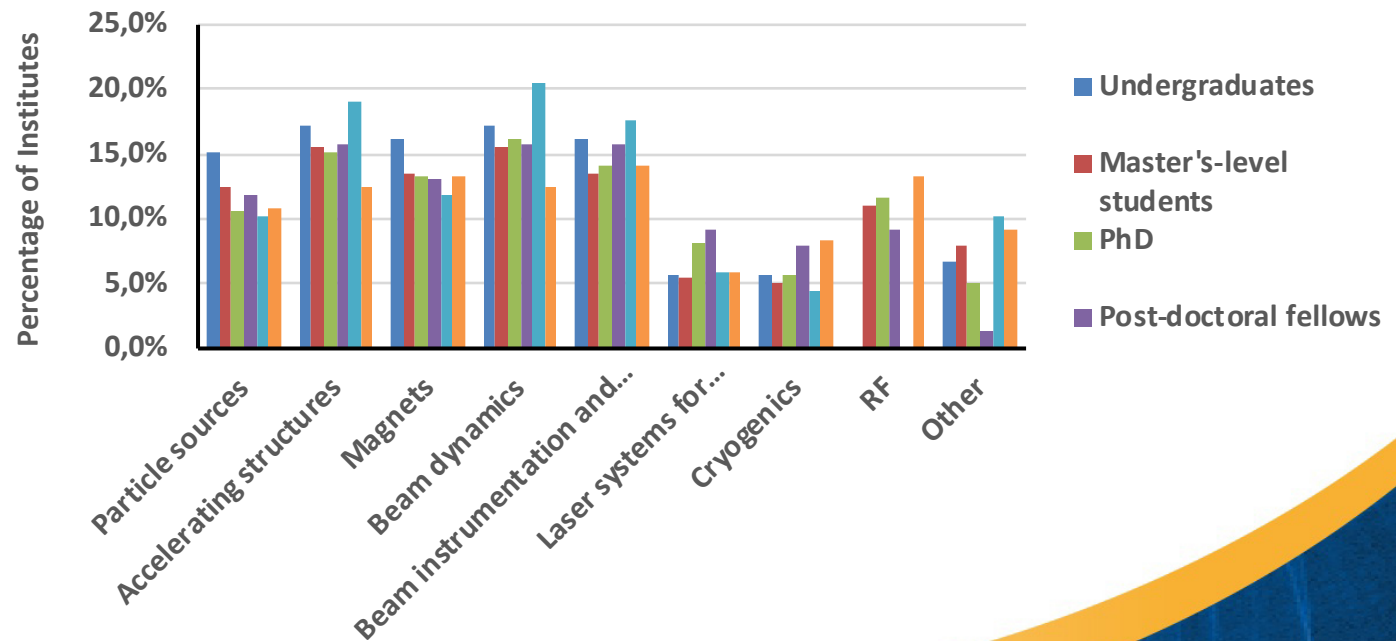
Comparison between countries based on trainee types.



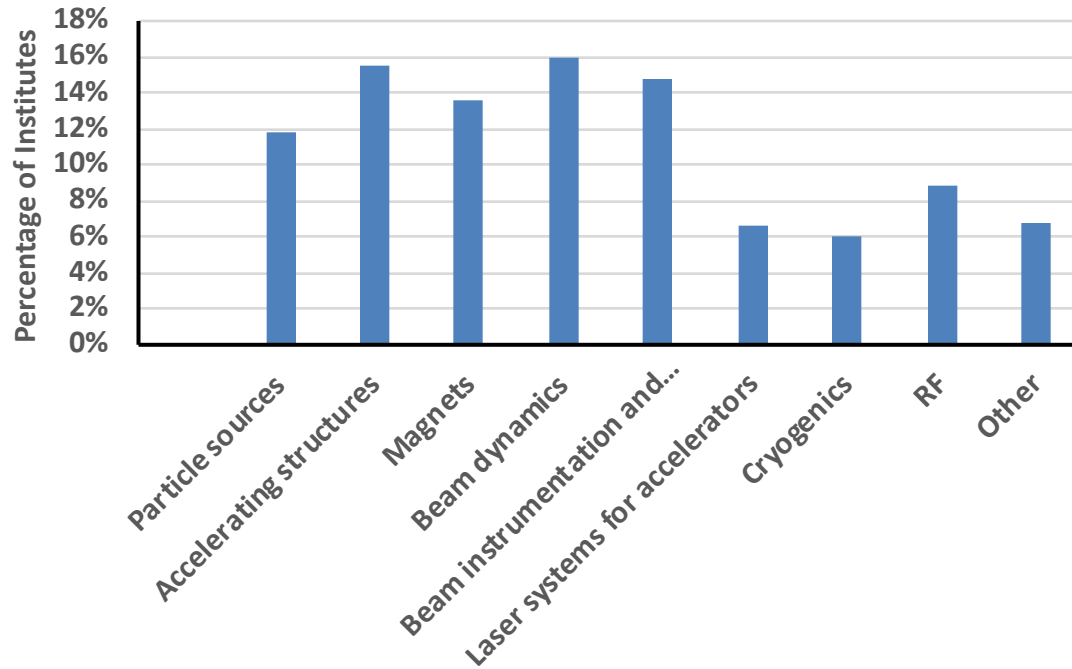
Situation is different in different countries. A country specific discussion is needed



TIARA survey:
 46% for master's students, 27% to undergraduates, 13% to PhD students, 10% to staff and 3% to postdoctoral fellows



Training areas



% of institutes offering formal examination

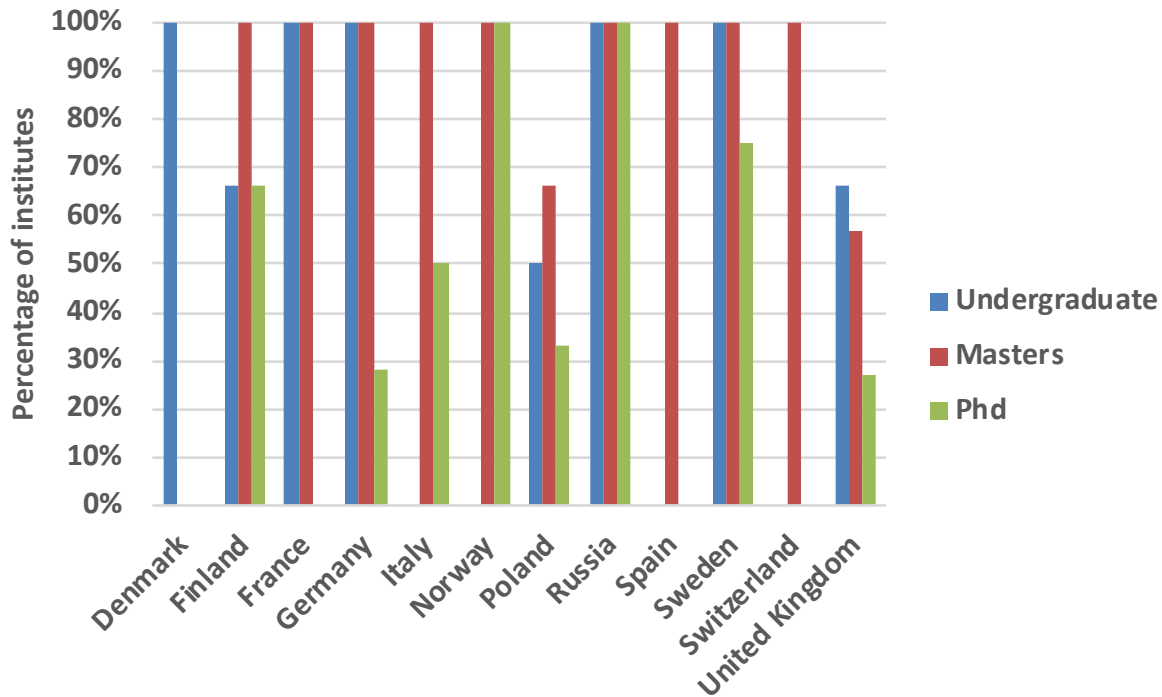
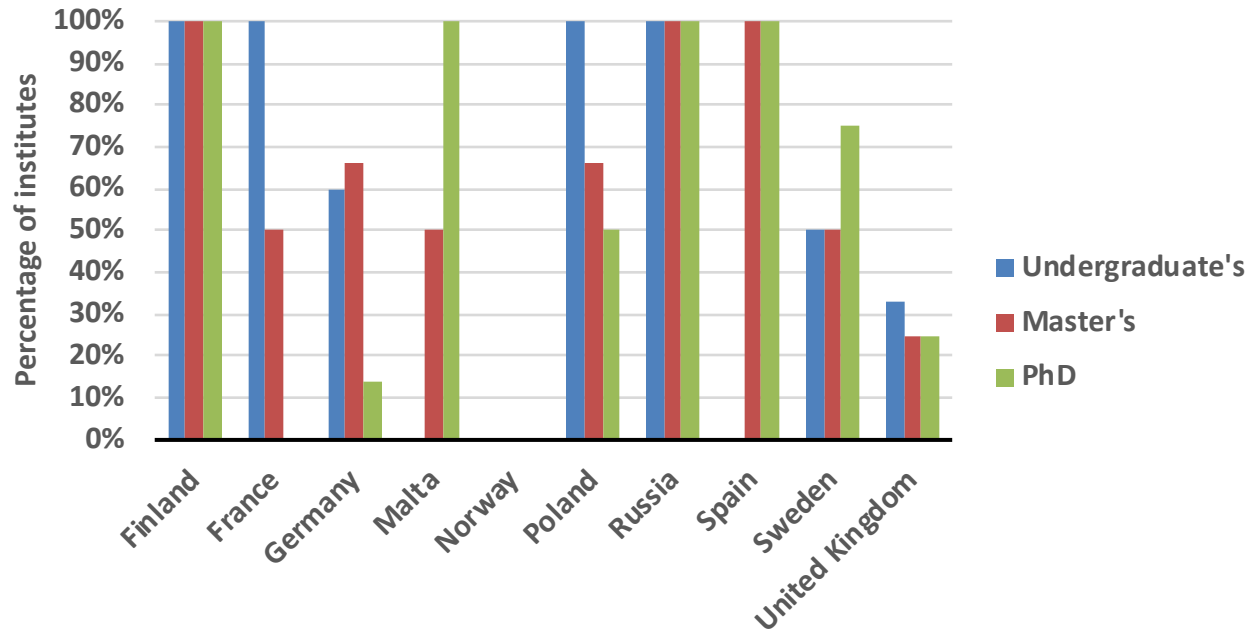
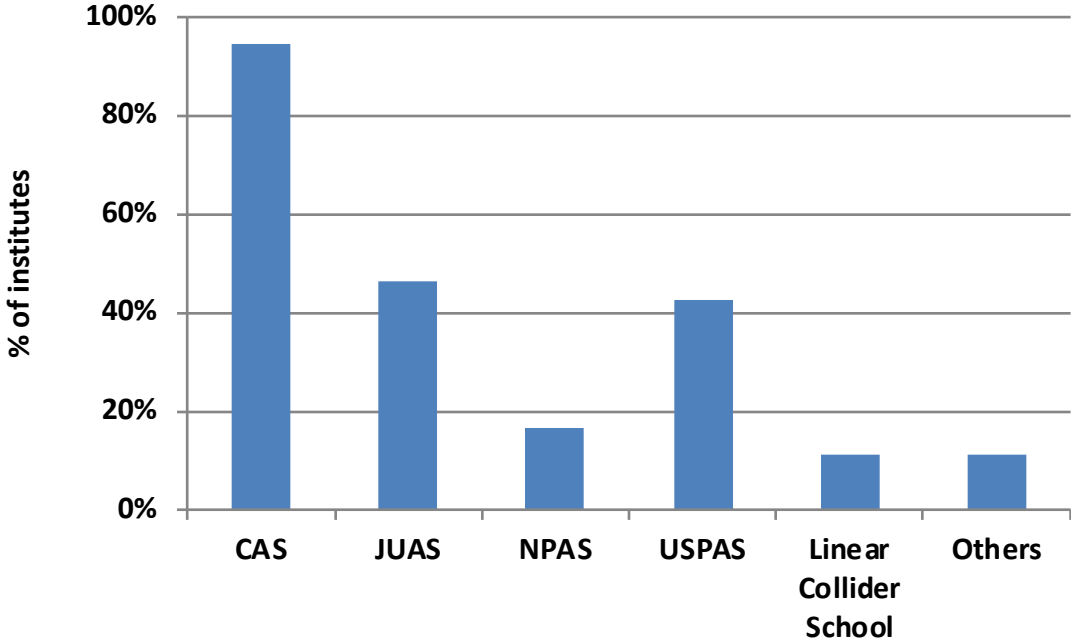


Fig.6.4

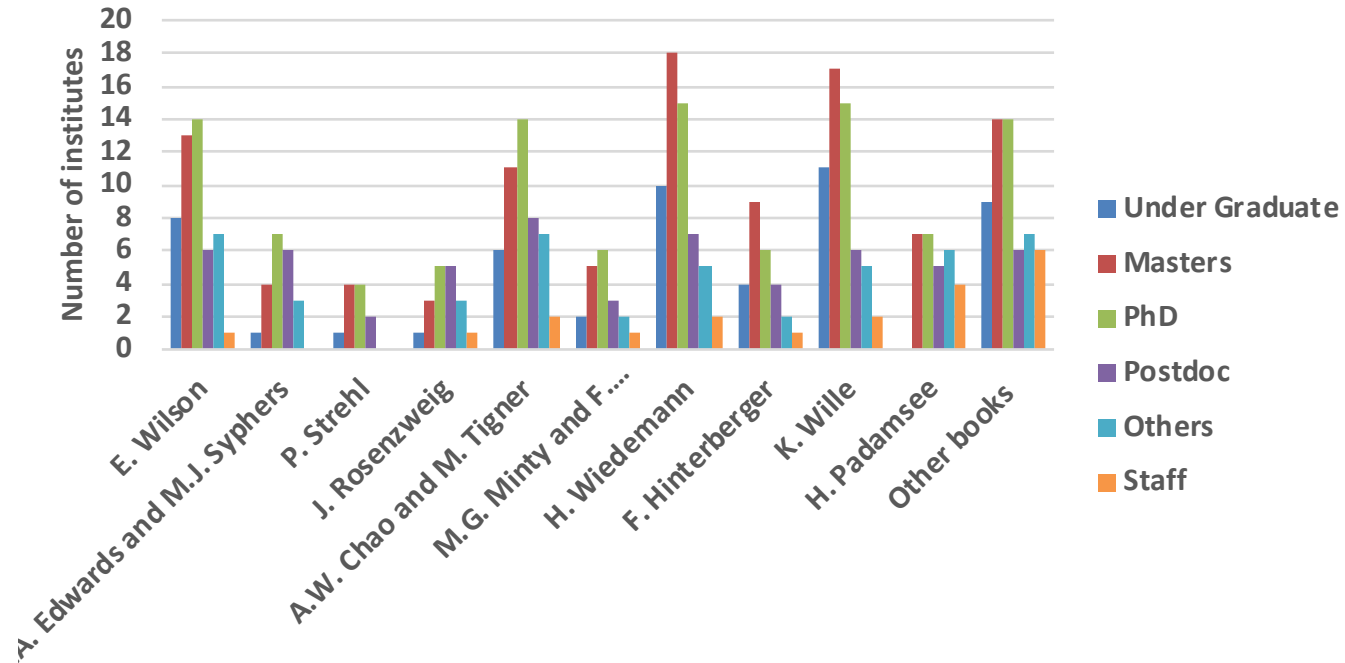
% of institutes that participate in ECT scheme



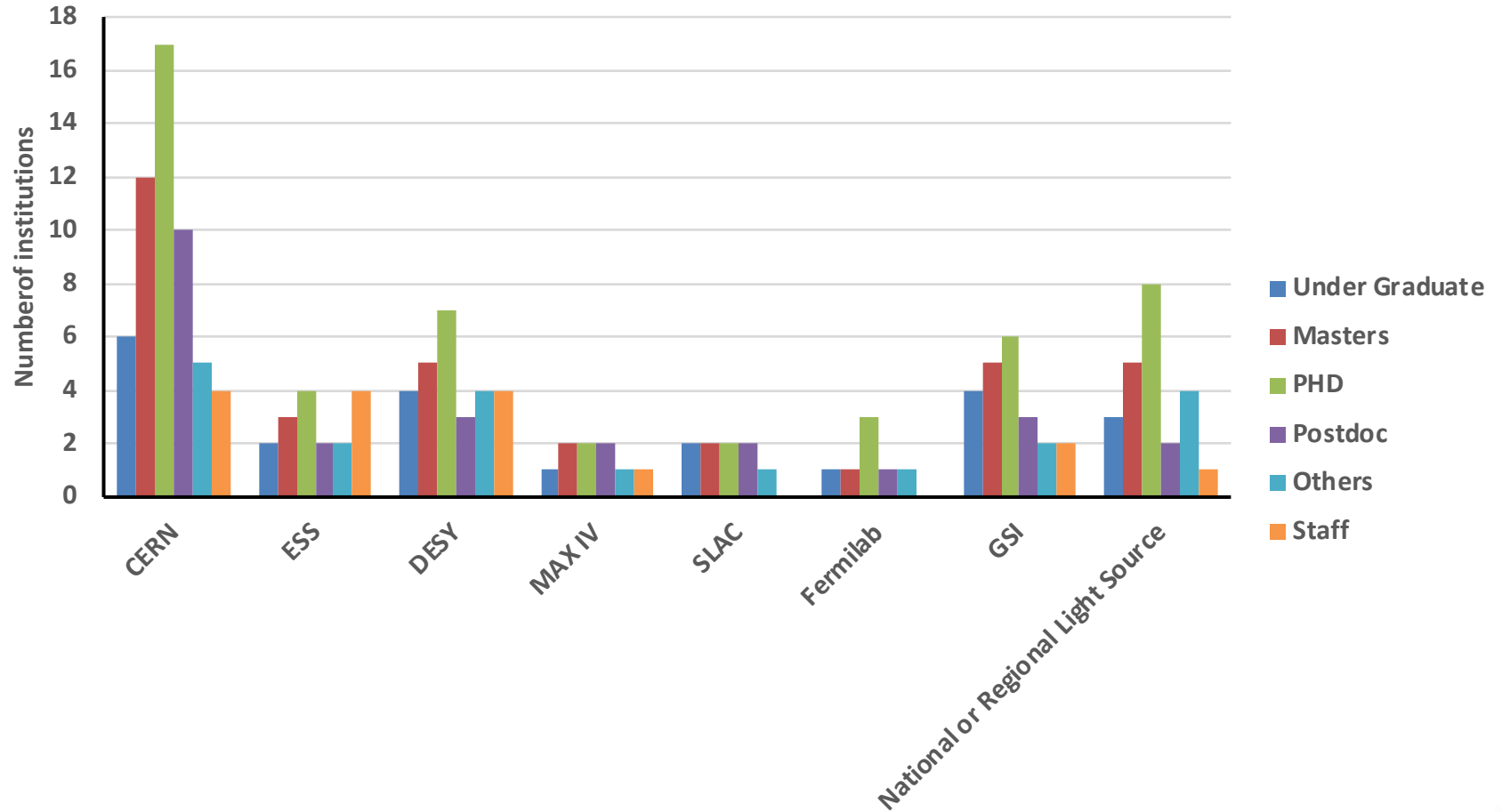
Accelerator school



Text books used



Facilities used



Preliminary Conclusions (More analysis is in progress)

- The responded institutes show decrease in number of trainees per year
- Companies have expressed need for more training.
More than 75% of the responded companies train people by using online material



All the WP-2 colleagues, National coordinators
and all the responded institutes
Thank you very much!