



Co-funded by the
Erasmus+ Programme
of the European Union

IBTIKAR

promoting research and innovaTion environment in the
libyAn higher Education System



Work Package 4

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2/1/2024



Outlines:

WHY IBTIKAR?

Project overview

Preparation Stage WP1

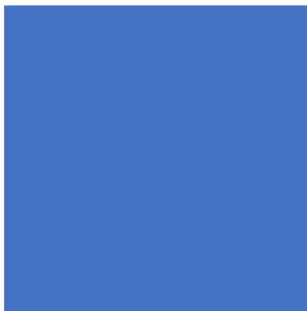


Important Facts:



There are no Libyan universities among QS world university ranking

Nor among the first 4000 universities within other international superior rankings



Few FP7 and H2020 research projects that have been carried out in Libya since the opening up of the programmes to the MENA countries



WHY?

- ❑ Research quality and quantity of the Libyan universities are weak compared to international universities in Europe, but also compared to other North African countries.
- ❑ Huge need to train university staff members to expand their capacity to be more involved in scientific research projects



The level of research output in Libya is relatively low, mainly because of:

- 1) Limited funding to research activities
- 2) Lack of research infrastructures and technical inadequacies of administrative staff
- 3) Limited amount of time and limited skills of academic staff to perform and supervise research activities
- 4) Brain drain effect.



Needs of Libyan Higher Education system:

- ❑ Evident lack of suitable equipment's and resources for scientific research and training.
- ❑ Limited research capacities of Libyan HE system in terms of methodologies, research management, skills, etc.



Linkages between higher education institutions and other actors, such as private firms and research centers may help to:

- ❑ Develop innovation sustainable systems in Libya
- ❑ Attracting foreign researchers/companies
- ❑ Enhance research cooperation between institutions



Priority for Libyan universities in the area of research:

Establishing research priorities

Promoting specialization strategies within universities

Supporting existing research centers and research units



Difficulties faced in writing up projects and accessing information on funding opportunities, due to

- ❑ Lack of expertise and qualified human **resources** (academic and administrative staff) dedicated to these tasks.
- ❑ HEIs struggle to put forward their ideas concerning researches independently.
- ❑ Need for training university members about **research management** (e.g. financial management, organization of activities, etc).



IBTIKAR project

Definition of an institutional Action Plan
research technology and innovation (RTI) processes in the Libyan Universities

Capacity building actions

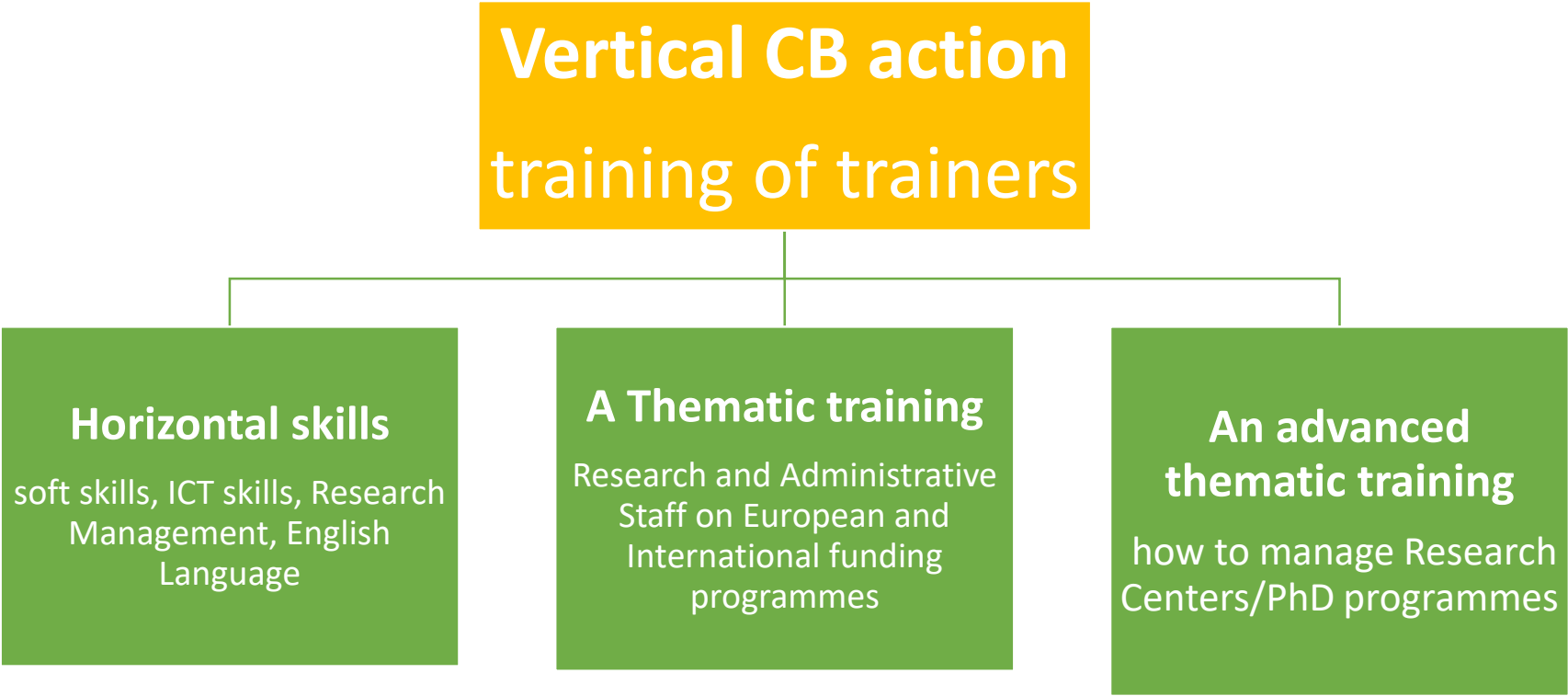
Vertical and Horizontal CB actions

Definition of a White Paper

bringing the attention of decision-makers on the definition of a National Research Agenda



Vertical CB action training of trainers



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graph TD; A[Vertical CB action training of trainers] --> B[Horizontal skills<br/>soft skills, ICT skills, Research Management, English Language]; A --> C[A Thematic training<br/>Research and Administrative Staff on European and International funding programmes]; A --> D[An advanced thematic training<br/>how to manage Research Centers/PhD programmes];
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Horizontal skills

soft skills, ICT skills, Research Management, English Language

A Thematic training

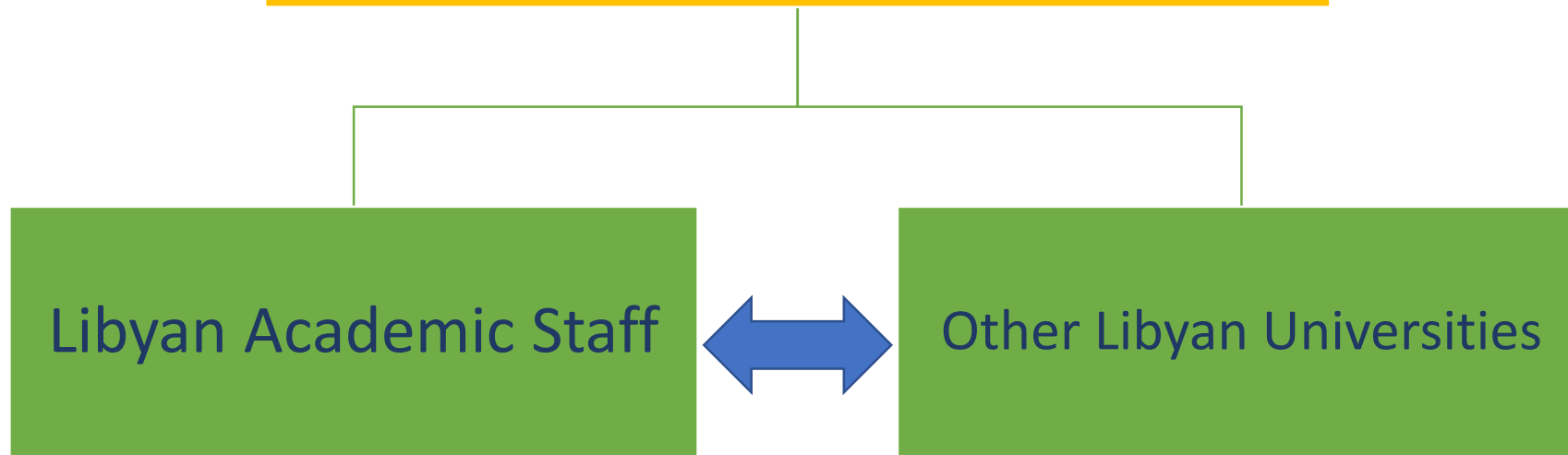
Research and Administrative Staff on European and International funding programmes

An advanced thematic training

how to manage Research Centers/PhD programmes



Horizontal CB action training of trainers



generate a cascade-effects



Assumptions and risks:

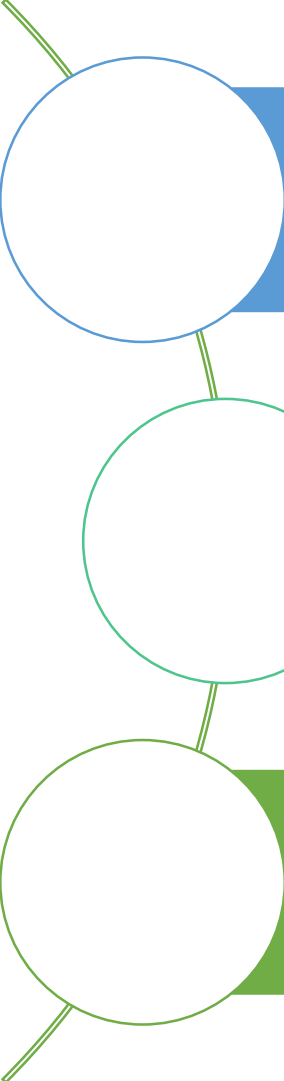
WP 1 led by UoT

Security issues

Difficulties in data collection



Objectives of WP 1



Perform preparatory activities in order to build the basis for Work Package 2 Action Plan

Propose a proper methodology for the analysis of the state of the art of research centres in Libya

Update of need analysis



Main Tasks of WP1

T1.1 - Update of Need Analysis

- Visit to Research centers and Faculties
- Analyze of documentation
- Equipment requests

Outcomes Report
Due Date
1/8/2021

T1.2- Inspiring Practices and lessons

- Research management,
- Research methodology,
- Research implementation
- Environmental studies

Outcomes Report
Due Date
31/8/2021





IBTIKAR WP1 state of the art questionnaire

IBTIKAR

promoting research and innovation environment in the Libyan higher Education System

Work package number: 1

Work package type : Preparation

Title : Update of Need Analysis: Questionnaire for the state of the art analysis

IBTIKAR is the first capacity-building initiative in Libyan universities devoted solely to science and innovation, with 11 Libyan higher education institutions involved. The aim of this questionnaire is to collect correct and credible information about the current state of research centers in Libyan higher education institutions.

The questionnaire's findings will be closely analyzed in order to determine needs, and they will have a significant impact on the nature and structure of the project's activities in the future.

More information regarding some questions can be sent to the following email: rcc@uot.edu.ly

The questionnaire is Prepared by:

Dr. Ali A. Ganoun



Universities Code

	University	Code
1	Sebha University	SEBU
2	Sirte University	SU
3	<u>Bani Waleed</u> University	BWU
4	<u>Alasmarya</u> Islamic University	ASM
5	University of <u>Zawia</u>	ZU
6	Libyan International Medical University	LIMU
7	University of Tripoli	UOT
8	The University of Ajdabiya	AJDU
9	University of Benghazi	UOB
10	<u>Elmergib</u> University	EMU
11	Misurata University	MISU



An overview of IBTIKAR project's partner universities

Institution	President Name	Email	Website	Year established	Number of Academic Undergraduate Programs	Number of graduate Programs	Number of MSc students	Number of PhD students	Number of academic staff	Number of Research Centers
SEBU	Masoud Alragig	President@sebhau.edu.ly	http://sebhau.edu.ly/	1983	92	22	1365	0	1290	1
SU	Sulaiman Alshahar	salamgader@su.edu.ly	www.su.edu.ly	1989	61	14	326	0	560	1
BWU	Salah Aldeen Mohamed	ico@su.edu.ly	https://www.bwu.edu.ly	2015	71	0	0	0	815	1
ASM	Mohamed Abdulhafed	info@asmarya.edu.ly	http://asmarya.edu.ly	1995	106	15	354	0	1061	1
ZU	Meftah Mohamed Elmrabet	elmrabet@zu.edu.ly	www.zu.edu.ly	1988	155	31	1428	230	2446	1
LIMU	Mohamed Saad Ambarek	president@limu.edu.ly	https://limu.edu.ly/	2007	11	0	0	0	247	1
UOT	Nabil Ezzat	president@uot.edu.ly	www.uot.edu.ly	1957	149	128	3567	344	3327	1
AJDU	Mohamed Abu Hlaga	bohliga1572003@gmail.com	www.uoa.edu.ly	2000	44	0	0	0	0	0
UOB	Ezzedin Akdeir	info@uob.edu.ly	https://uob.edu.ly	1955	126	78	3750	236	3100	9
EMU	Shukri Aldabbas	ico@elmergib.edu.ly	https://www.elmergib.edu.ly/index.php/ar/	1991	70	14	515	20	1504	1
MISU	Elmehdi Muflih Elcifti	s.altaweel@eps.misuratau.edu.ly	https://www.misuratau.edu.ly/res/	2005	135	20	1028	500	1176	6



An overview of research centers of the IBTIKAR project's partner universities



	Name of the Research Centre in the Institute	Director	Email	Website	Year established	No of PhD & MSc Staff	No of adm. & services staff
SEBU	Research and Scientific Consultations Center	Jamal Abdallah Abubaker	Jam.Abubaker@sebhau.edu.ly	https://sebhau.edu.ly/scientific-research-consultation-center/	2001	6	22
SU	Research & Consultation Centre	Othman Musa Amrid	r.c.centre@su.edu.ly	www.su.edu.ly	2014	1 PhD 1 MSc	4
BWU	Research and Consulting Center	Abolgasem Mohammed Alzaidh	elgadie2@gmail.com	https://www.bwu.edu.ly	2016	8 PhD 5 MSc	14
ASM	Research and Scientific Studies Center	Dr. Mostafa Albehbah	malbehbah@gmail.com	asmarya.edu.ly/ rsc	2012	15 PhD 6 MSc	11
ZU	Scientific Research and Consulting Centre	Prof. Emad Mohamed Abouzeid	rcc@zu.edu.ly	rcc.zu.edu.ly	1996	12 PhD 2 MSc	15
LIMU	Centre for research and consultation	Dr Essam Aldenna	Essamdenna@yahoo.com	https://limu.edu.ly/	2009	1	1
UOT	Research, Consultant and Training Center	Dr Ali Ganoun	rcc@uot.edu.ly	www.uot.edu.ly/rcc	2009	4 PhD 5 MSc	9
AJDU	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UOB	Research and Consulting Center	Ahmed AlRashied	ahmed.alrasheed@uob.edu.ly	https://uob.edu.ly/ar/centers/research-and-consultation-center/	1977	32 PhD 9 MSc	27
EMU	Research and consultation center	Dr. Al-faitori Madi	rcc@elmergib.edu.ly	https://www.elmergib.edu.ly/index.php/ar/2020-09-17-21-09-12	2008	1 PhD 1 MSc	7
MISU	Research and consulting center	Elmahdi Muftah Elsriti	director@rd.misuratau.edu.ly	https://www.misuratau.edu.ly/res/index	2005	-	15

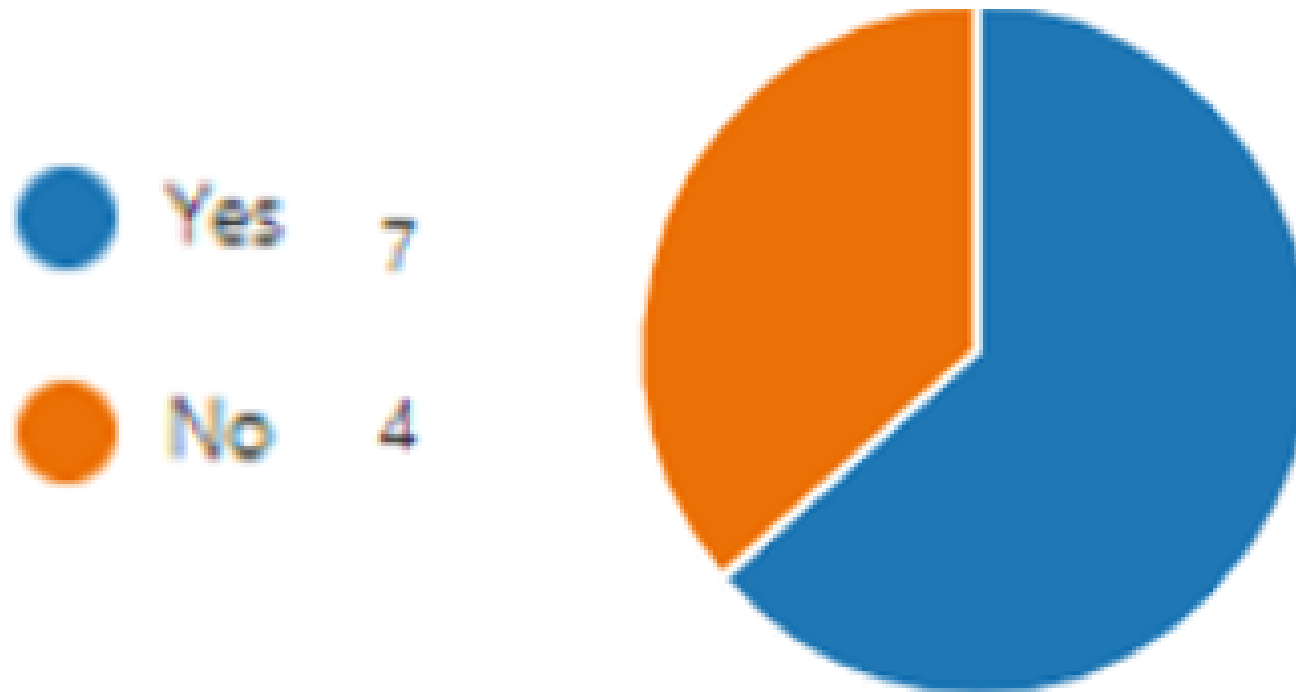
Research centers Infrastructure indicators: facilities and equipment

	Communication and ICT	Internet	Offices, halls and services
SEBU	1	1	3
SU	1	2	1
BWU	2	3	2
ASM	3	5	3
ZU	2	1	2
LIMU	3	5	5
UOT	2	2	3
AJDU	2	1	3
UOB	2	3	4
EMU	1	1	1
MISU	2	2	3
AVERAGE	1.91	2.36	2.73

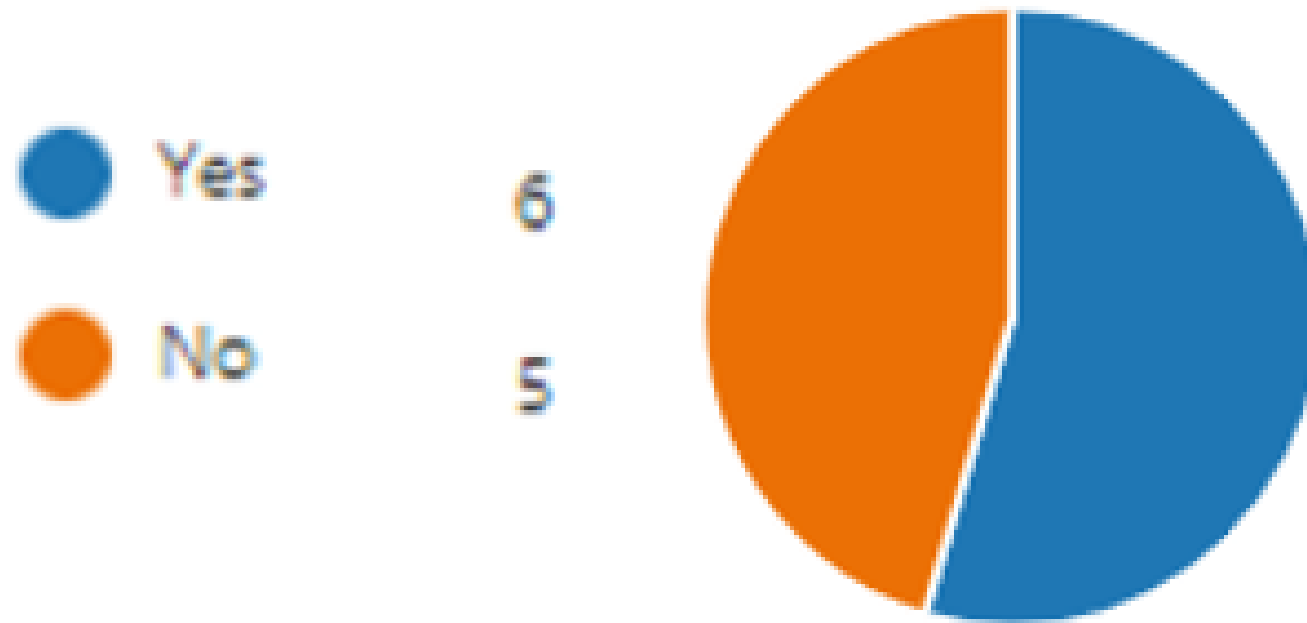
Quality of infrastructures & equipment's (1=very poor, 5= very good)



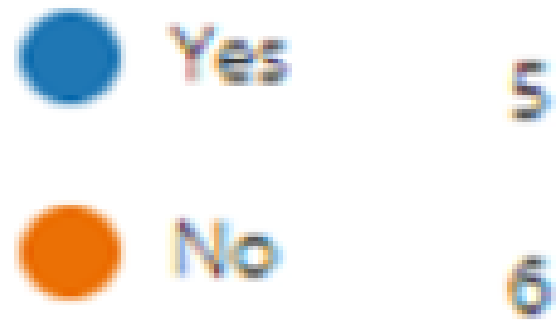
Universities with strategic planning process for research and development



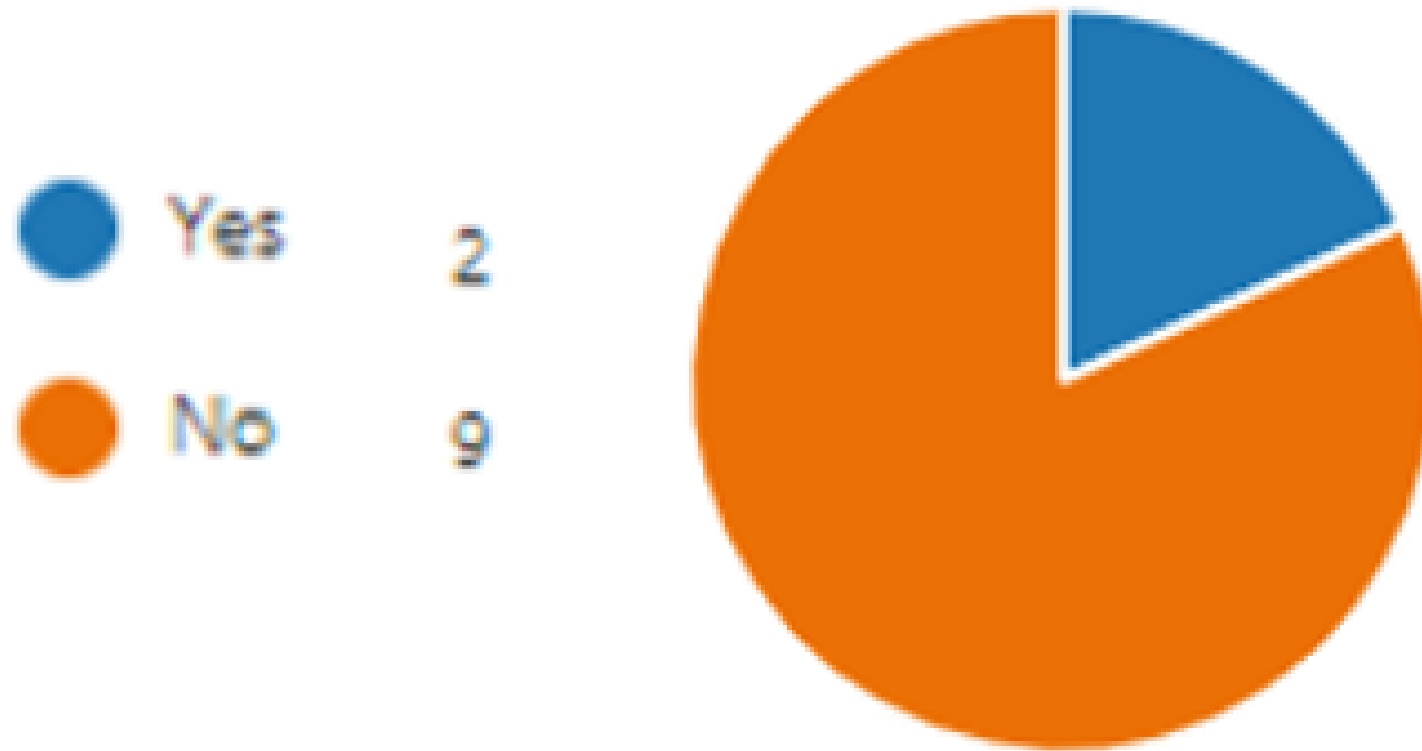
Number of universities have ongoing research



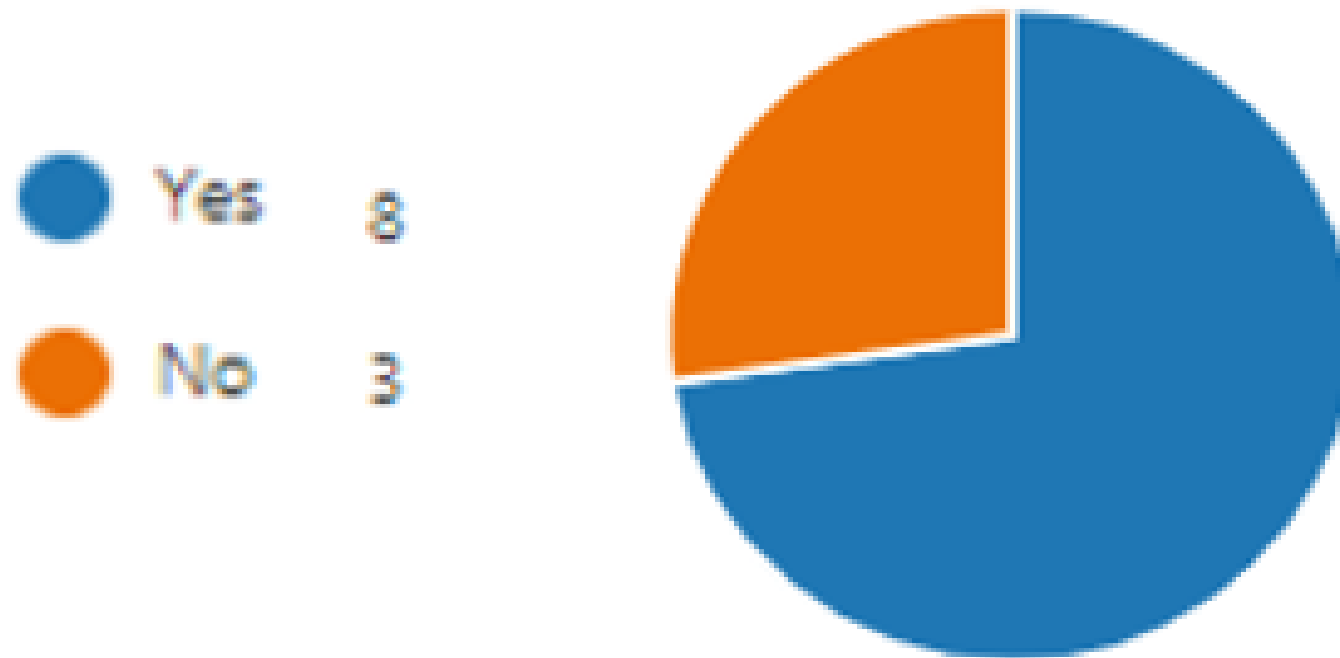
Number of universities have organized research teams



Number of universities have national on International funding and grants



Number of universities have links with companies and society



Number of universities have mobility programs

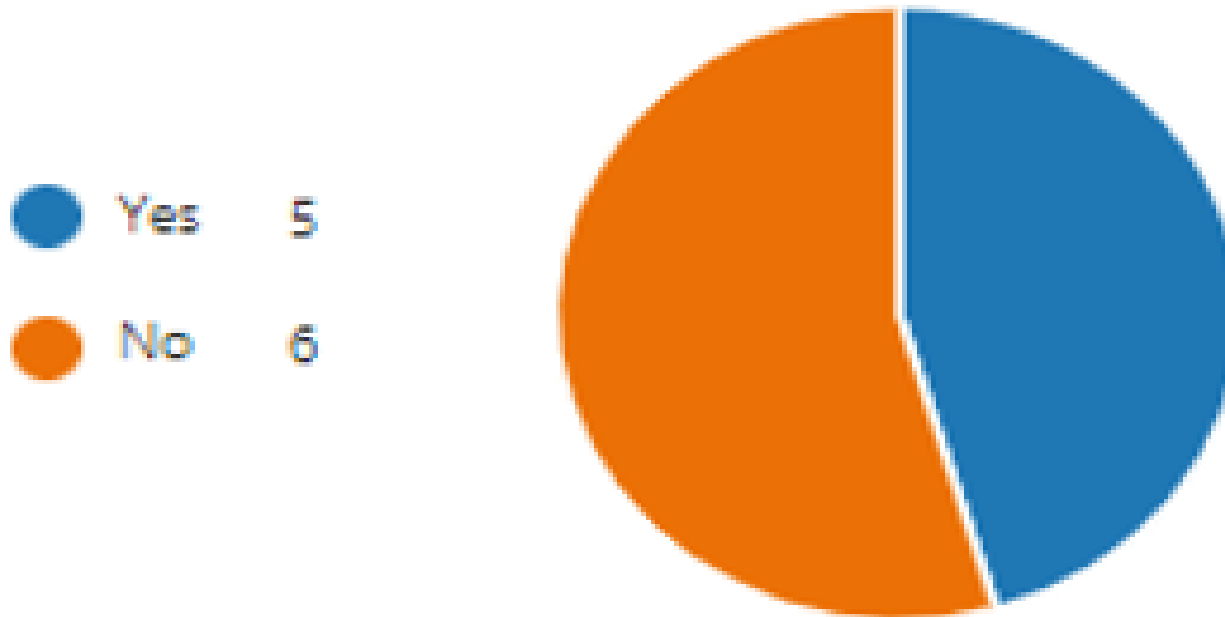


Main activities completed by research centers in the last year

	No. of Conferences	No. of Seminars	No. of Workshops	No. of Lectures	Other Programs
SEBU	N/A	3 - 4 / year	2 – 3 / year	N/A	N/A
SU	2	3	10	3	N/A
BWU	N/A	N/A	N/A	N/A	N/A
ASM	2	10	8	20	N/A
ZU	2	2	3	N/A	2 Training courses
LIMU	N/A	N/A	4	N/A	N/A
UOT	5	2	12	16	10 Training Programs 1 Scientific Salon
AJDU	10	20	20	30	N/A
UOB	2	21	16	9	N/A
EMU	N/A	N/A	N/A	N/A	N/A
MISU	1	3	2	3	2



Number of universities have any formal interaction with industry



Regions where your industrial partners located



Interaction with industry

■ 0 Times ■ 1 - 2 Times ■ 3 - 5 Times ■ 6 - 9 Times ■ ≥ 10

Creation of new physical facilities with industry funding (e.g. new laboratory, other buildings on...

A new joint research agreement (original research work undertaken by both partners)

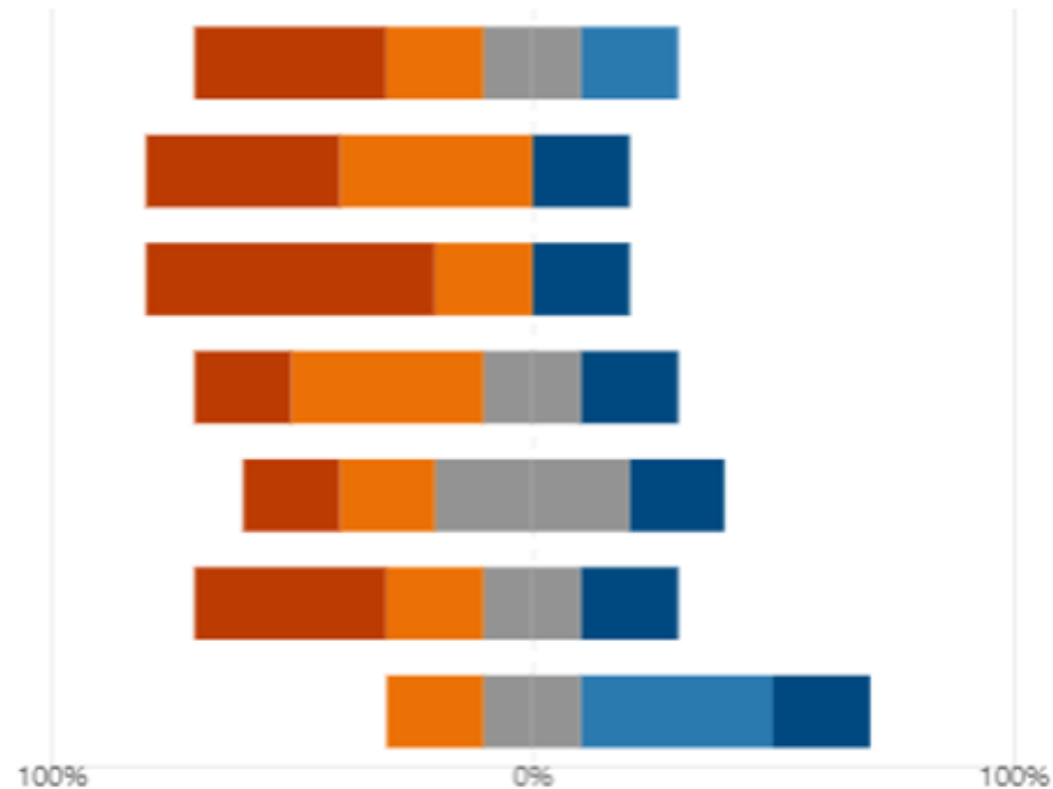
A new contract research agreement (original research work done by University alone)

A new consultancy agreement (no original research undertaken)

Training of company employees (through course enrolment or through temporary personnel...

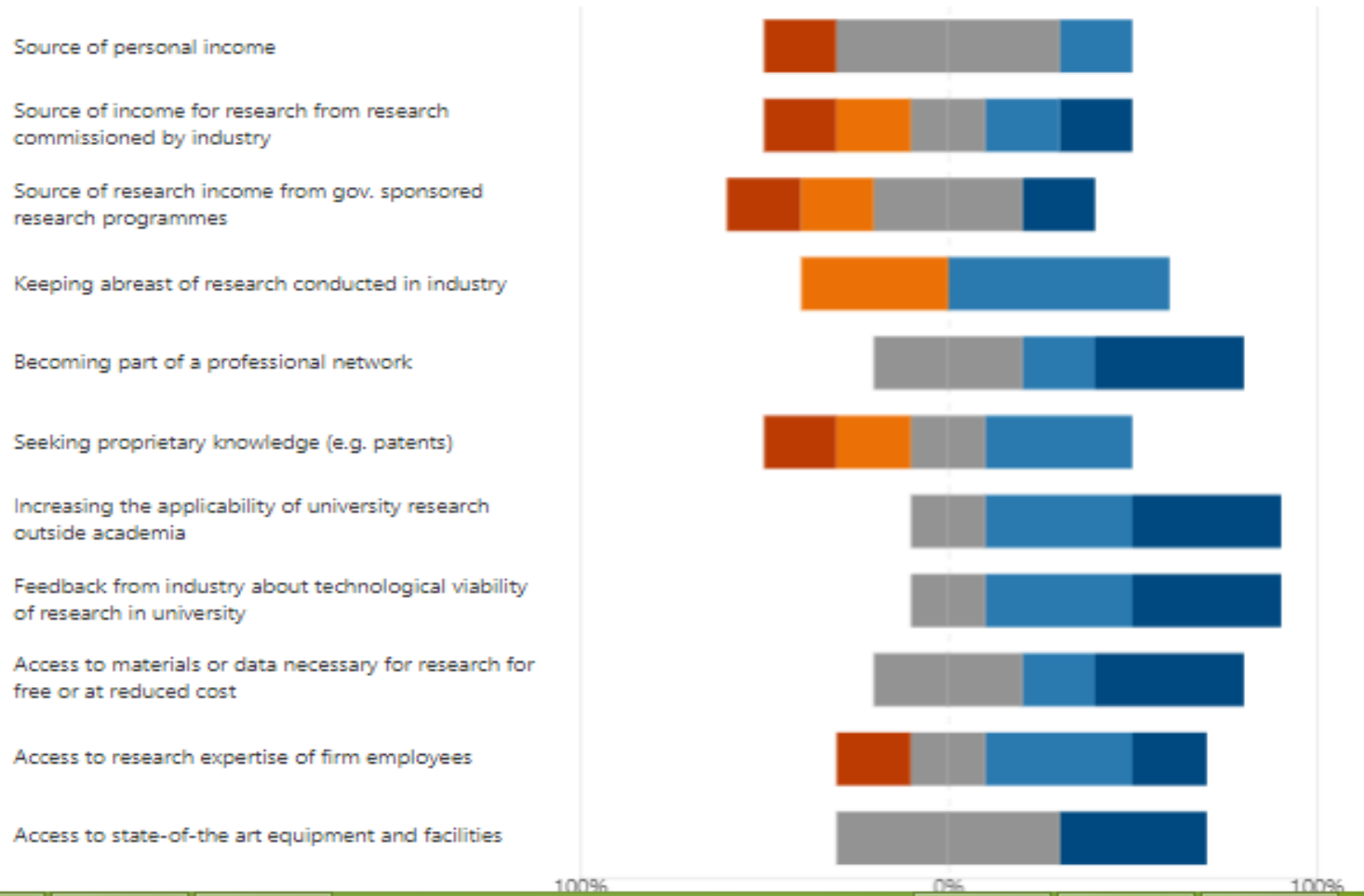
Postgraduate training in the company (e.g. joint supervision of MScs or PhDs)

Attendance at conferences with industry and university participation



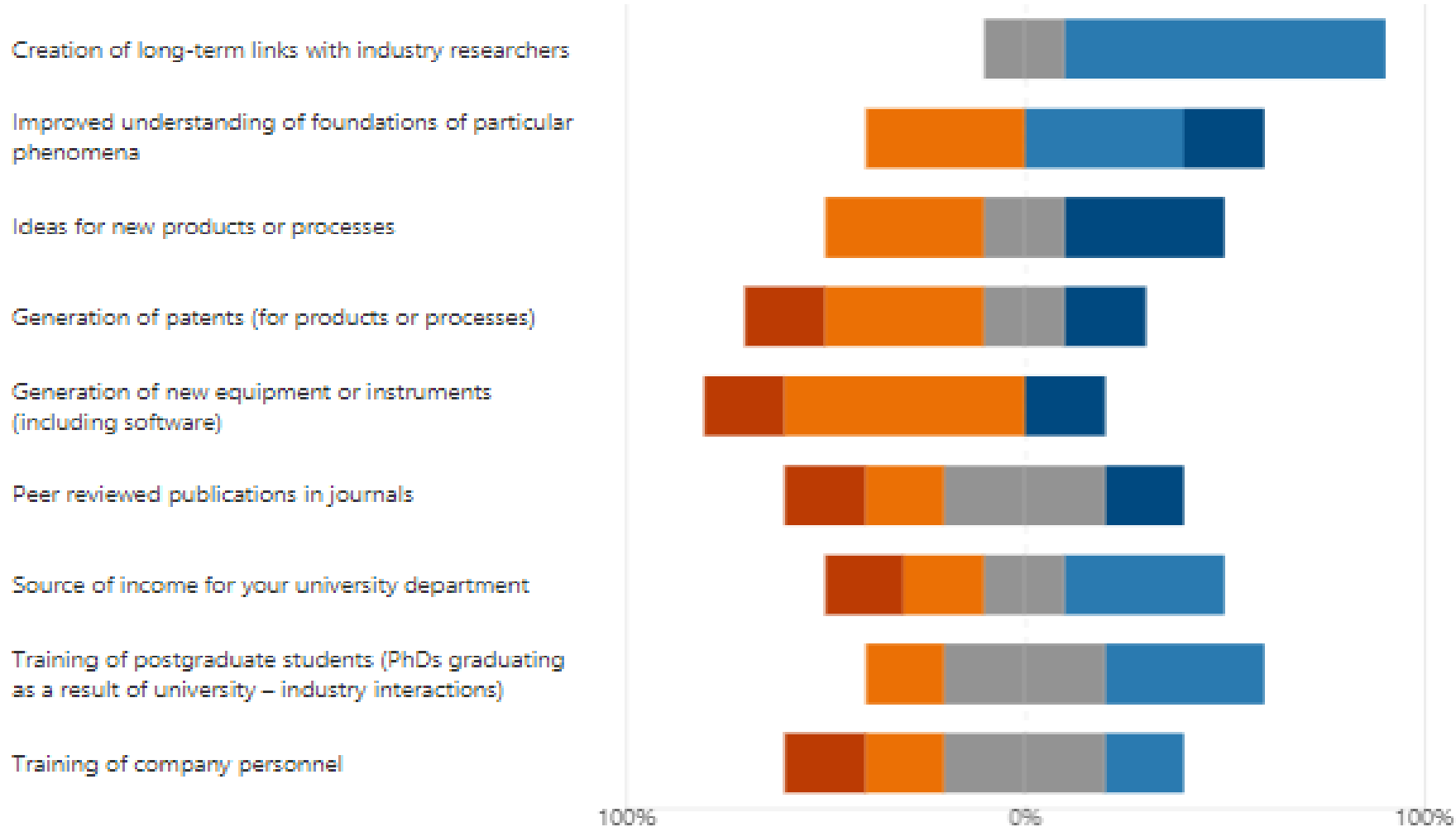
Ranking of reasons for involvement in interactions with industry

■ Not Important 1 ■ 2 ■ 3 ■ 4 ■ Very Important 5



Ranking of Important of benefits resulting from interaction with industry

■ Not Important 1 ■ 2 ■ 3 ■ 4 ■ Extremely Important 5

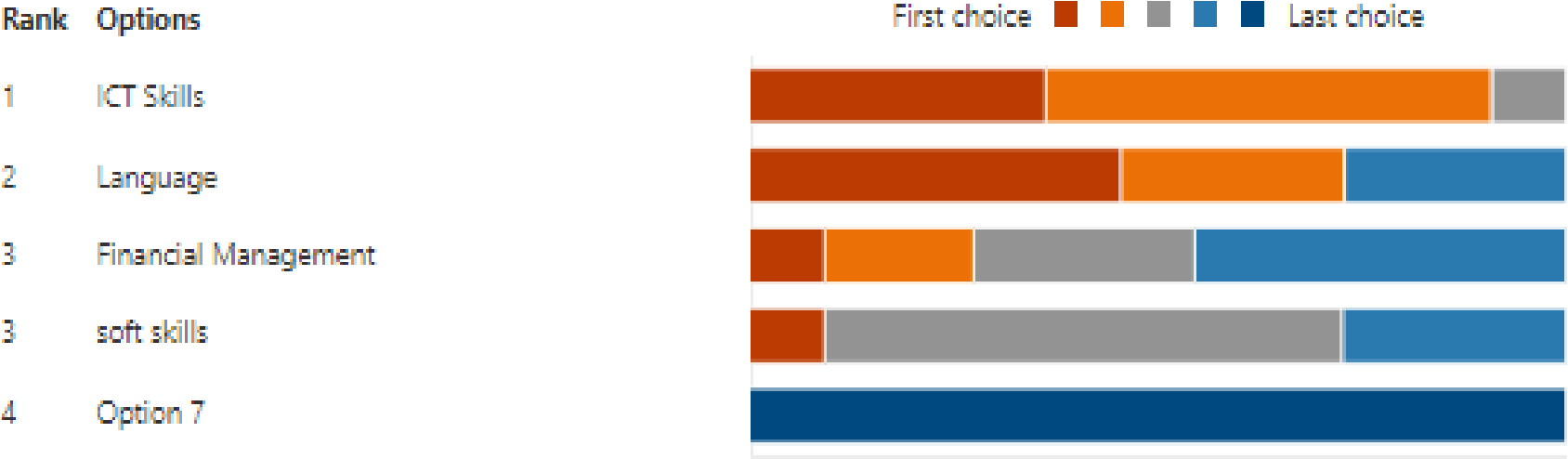


Joint publications with industry

	Have joint publications with industry (2016-2020)	Number of Joint publications
SEBU	No	N/A
SU	Yes	1 – 2
BWU	No	N/A
ASM	No	N/A
ZU	No	N/A
LIMU	No	N/A
UOT	Yes	5 - 7
AJDU	No	N/A
UOB	Yes	>= 20
EMU	No	N/A
MISU	Yes	1 - 2



Priority of training needed for Administrative staff



Conclusions

- ❑ Most partner universities do not have a national or international fund which needs a new strategy to increase the number of grants.
- ❑ Generally, most partner universities have very high links with society.
- ❑ Most partner universities do not have mobility programs.
- ❑ There is a need by most of partner universities to IT labs and communication facilities.
- ❑ Technical writing and research managements are the first training priorities needed for staff.
- ❑ Language and ICT Skills were the first training priorities needed for the administrative staff.
- ❑ The environmental issues are top research topics.
- ❑ The number of joint publication with industry need to be increased.



Thanks For Your Attention

