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University of Las Palmas de Gran Canaria,
Spain (Coordinator)
Scientific and Technological Park
Foundation of ULPGC, Spain

University of Szczecin, **Poland** 

University of Porto, **Portugal** 

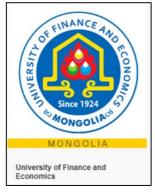






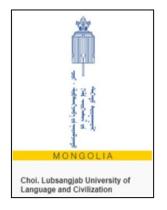


University of the Humanities









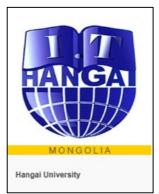


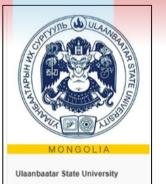












Mongolian Universities 11 +1:
7 public and
5 private





Specific objectives

Strengthening of the scientific results visibility



General objective

Contribute to the promotion and strengthening of the scientific production and results visibility in Mongolian Universities

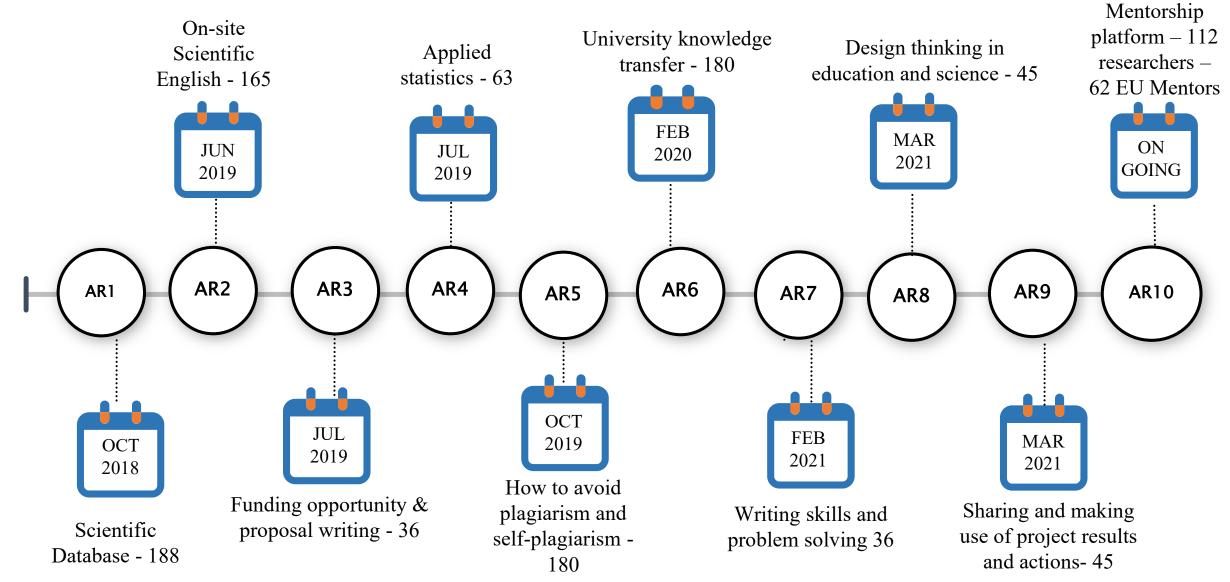
Increase the quantity and Improve the quality of Mongolian scientific publications



Reinforcement of 21<sup>ST</sup>
Century soft skills
(Problem Solving Capacity,
Design thinking mentality,
Team work, etc.)









03 Dominant position



3 universities with experienced training and research

02 Intermediate stage



5 universities with a training and some research experience

O1 Incipient stage



3 universities that are in the developing stage, considering research and innovation skills

As shown in the ARROW Situation Report [WP1], the 11 Mongolian Partner Universities were divided into three groups depending on the scientific production

Mongolian universities showed a heterogeneity as a result of the disparity in the size of the institutions, as well as in the fields of knowledge.

Also, 6 different areas of knowledge were identified as the most relevant in Mongolia





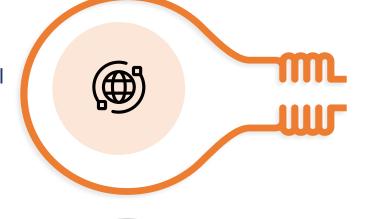


# Knowing your weaknesses is as important as knowing your strengths

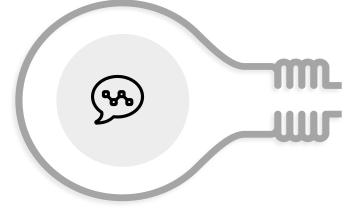
The motivation and willingness of human resources to collaborate

The great motivation for improvement of the skills.

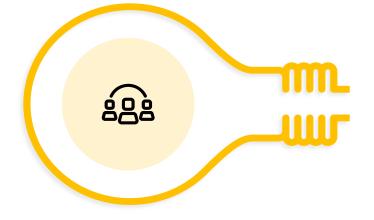
The need to join international research networks and to improve research cooperation in national and international projects



Not enough/adequate international research materials, equipment, licenses and access to scientific database



low level of English proficiency to publish scientific papers











Increased cooperation among ARROW partners

Improved
DATABASE
And
APPLIED
STATISTICS
knowledge

Up-graded
Scientific
English level

Raised
awareness on
Plagiarism
and selfplagiarism

Improved
SOFT SKILLS
i.e. Problem
solving
capacity and
Design
thinking
mentality













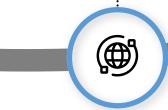
Increased Results
Visibility of Mongolian
researchers

Higher number of patents in Mongolian HEIs

Higher number of Scientific publications and citations in

Mongolian HEIs

ARROW Network: Website and Mentorscientist platform









Number of documents published (Scopus-April 2021)

Institution	2015	2016	2017	2018	2019	2020
Mongolian National University of Education (MNUE)	7	10	8	7	14	19
Mongolian National University Of Medical Sciences (MNUMS)	36	43	43	42	67	70
Mongolian University of Life Sciences (MULS)	13	23	27	21	17	41
National University of Mongolia (NUM)	90	89	106	159	157	170
University of the Humanities (UH)	3	2	4	2	0	0
Ulaanbaatar State University (USU)	0	0	0	6	4	2
University of Finance and Economics (UFE)	0	0	0	0	4	2





Number of citations (including as co-authors) – Scopus-April 2021

Institution	2015	2016	2017	2018	2019	2020	2021
Mongolian National University of Education (MNUE)	38	41	49	62	70	127	72
Mongolian National University of Medical Sciences (MNUMS)	366	526	727	1041	1292	1612	599
Mongolian University of Life Sciences (MULS)	204	238	245	335	395	457	179
National University of Mongolia (NUM)	780	1021	1089	1335	1675	2219	923
University of the Humanities (UH)	3	11	31	48	29	38	24
University of Finance and Economics (UFE)	0	0	0	0	2	17	6







## REGIONAL & INTERNATIONAL IMPACT

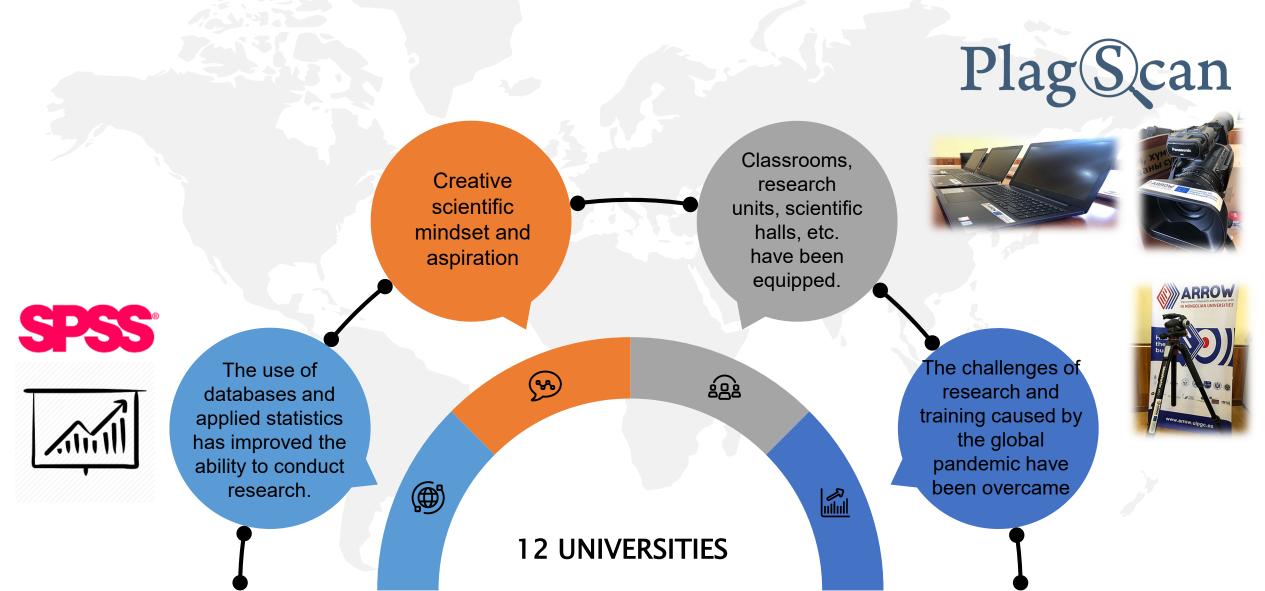
- Stronger and better consideration of Mongolian researchers worldwide
- Internationalization of Mongolian HEIs
- Increased inter and intra-regional cooperation (bilateral, multilateral agreements signed)
- Increased number of scientific publications, citations and patents of Mongolian partners Universities (WoS, Scopus, ResearchGate, etc.);
- Increased number of documents submitted ISI-WoS + Scopus (SCImago)
- Increased interactions between EU and Mongolian academics and researchers
- Enhanced interest of Eu in Mongolia and viceversa



# LOCAL IMPACT







## NATIONAL IMPACT





NATIONAL UNIVERSITY
OF MONGOLIA





Joint discussions & meetings

Very active
Domestic
network
created among
partners



Share knowledge & information



Present & Future collaboration







#### **CONCLUSIONS**



ARROW project was a challenge to improve Mongolian research and innovation skills



At local level, as we stated above each individual partners benefited according to their own needs and demands.



At the national level, the ARROW project was able to mobilize human resources for exchange ideas, knowledge and information.



At the regional level, the ARROW project opened a door to 12 partners HEIs to collaborate internationally and globally.





