Open Ed
Educación Abierta e Inclusiva
Open and Inclusive Education

Open and Inclusive Education: WUN and UNESCO Training and Research Networks

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Tecnologico de Monterrey

Monterrey, Nuevo León, Mexico; 29 de september 2021

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In times of crisis, opportunities arise in a strange way...problematic situations bring with them moments to reflect, rethink and rearrange meanings...and in this sea of uncertainty and complexity, encounters happen...and today we are here .... welcome to OpenEd :o)

WUN WORLDWIDE UNIVERSITIES NETWORK

unesco University Chair

Open and inclusive education

Athabasca University

UCD DUBLIN

UNIVERSITY OF ALBERTA

University of Cape Town

THE UNIVERSITY OF WESTERN AUSTRALIA

NWU

Tecnológico de Monterrey

Agenda

Welcome and context of OpenEd
Open and inclusive education
Recommendations UNESCO with opportunities
Research and training networks
Open invitations

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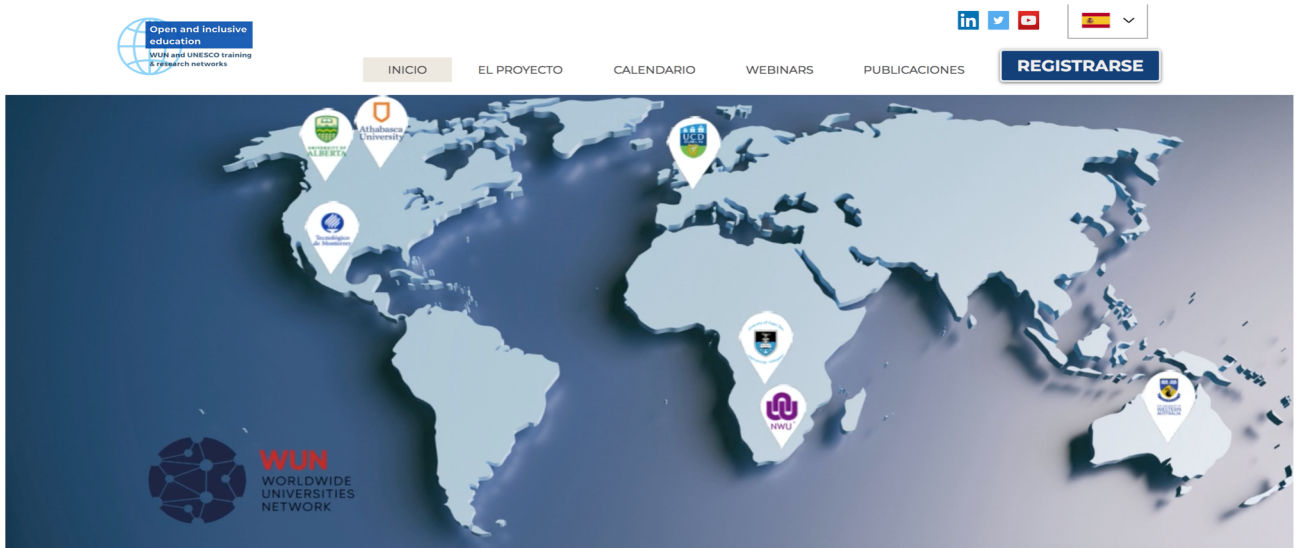
Open and Inclusive Education (OpenEd) Project: WUN and UNESCO Training and Research Networks

OpenEd's objective: to co-construct with the global community interested in educational innovation practices within the framework of the Open Education movement, which incorporates the production, use, dissemination and diffusion of open resources, the democratisation of knowledge, as well as cross-sectoral and interdisciplinary knowledge collaboration.

OpenEd website:
https://www.wununesco.world/



The OpenEd project brings together members of the WUN network and UNESCO/ICDE coordinators, united by the initiative to expand the potential of open education. Expanding collaborative networks with formal, non-formal and informal education actors in a global interaction for the development of the regions.

WUN
WORLDWIDE UNIVERSITIES NETWORK

About Members Research Events WUN Hub

Open and inclusive education: WUN and UNESCO training & research networks

ACADEMIC LEADS

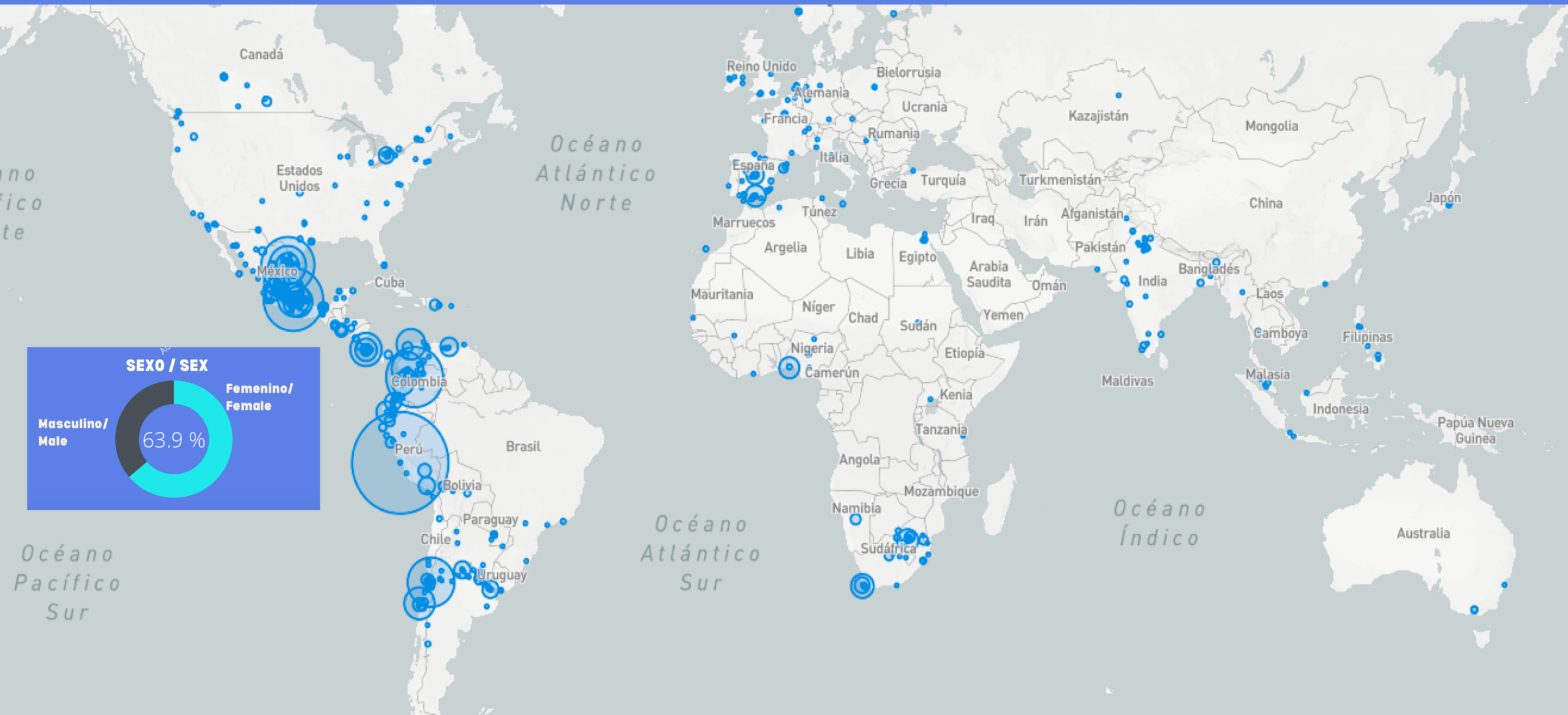
María Soledad Ramírez Montoya
Tecnológico de Monterrey
Contact

PARTICIPATING UNIVERSITIES

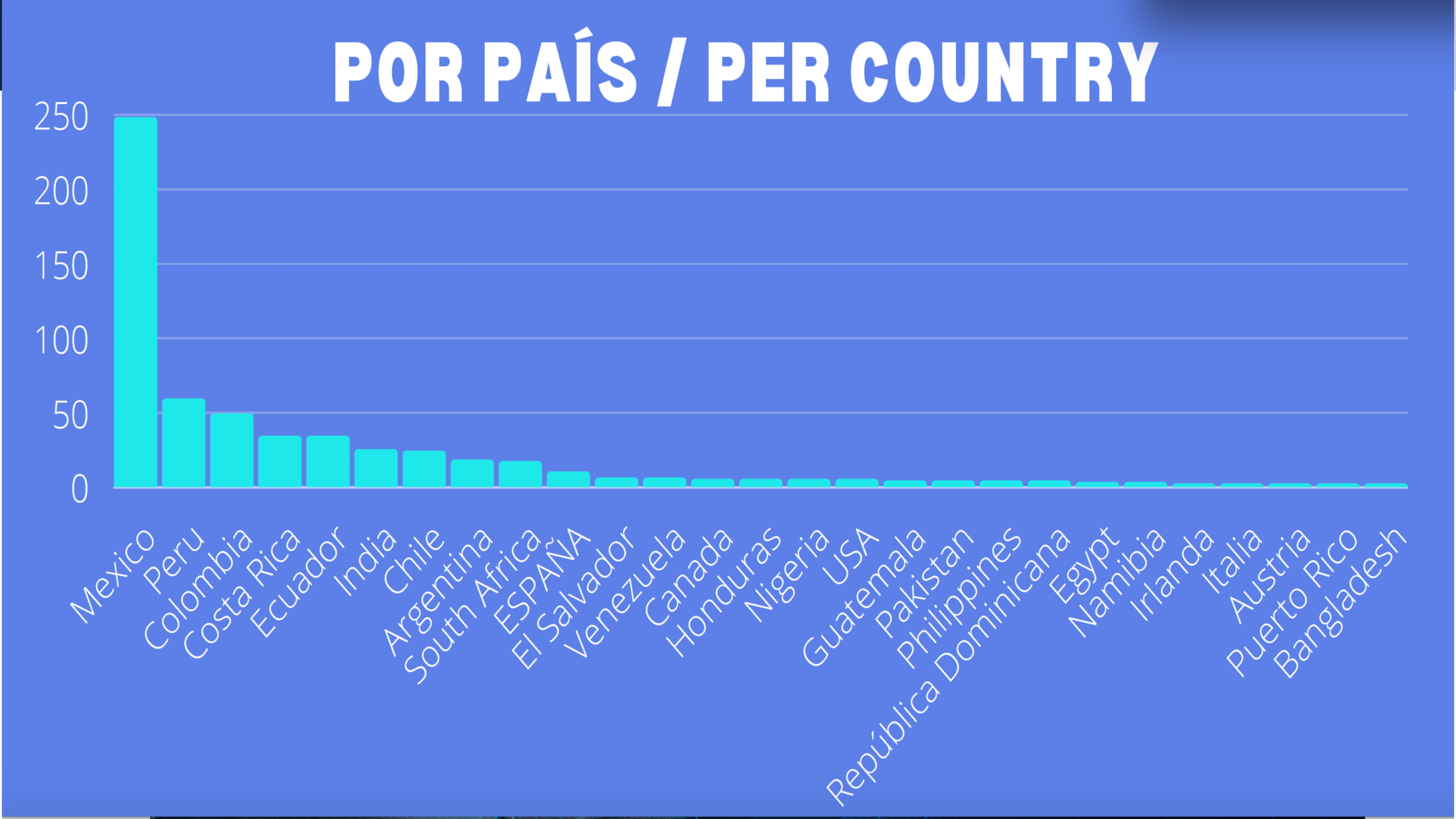
- Tecnológico de Monterrey
- University College Dublin
- University of Alberta
- University of Cape Town

WUN website:
https://wun.ac.uk/wun/research/view/open-and-inclusive-education-wun-and-unesco-training-research-networks/

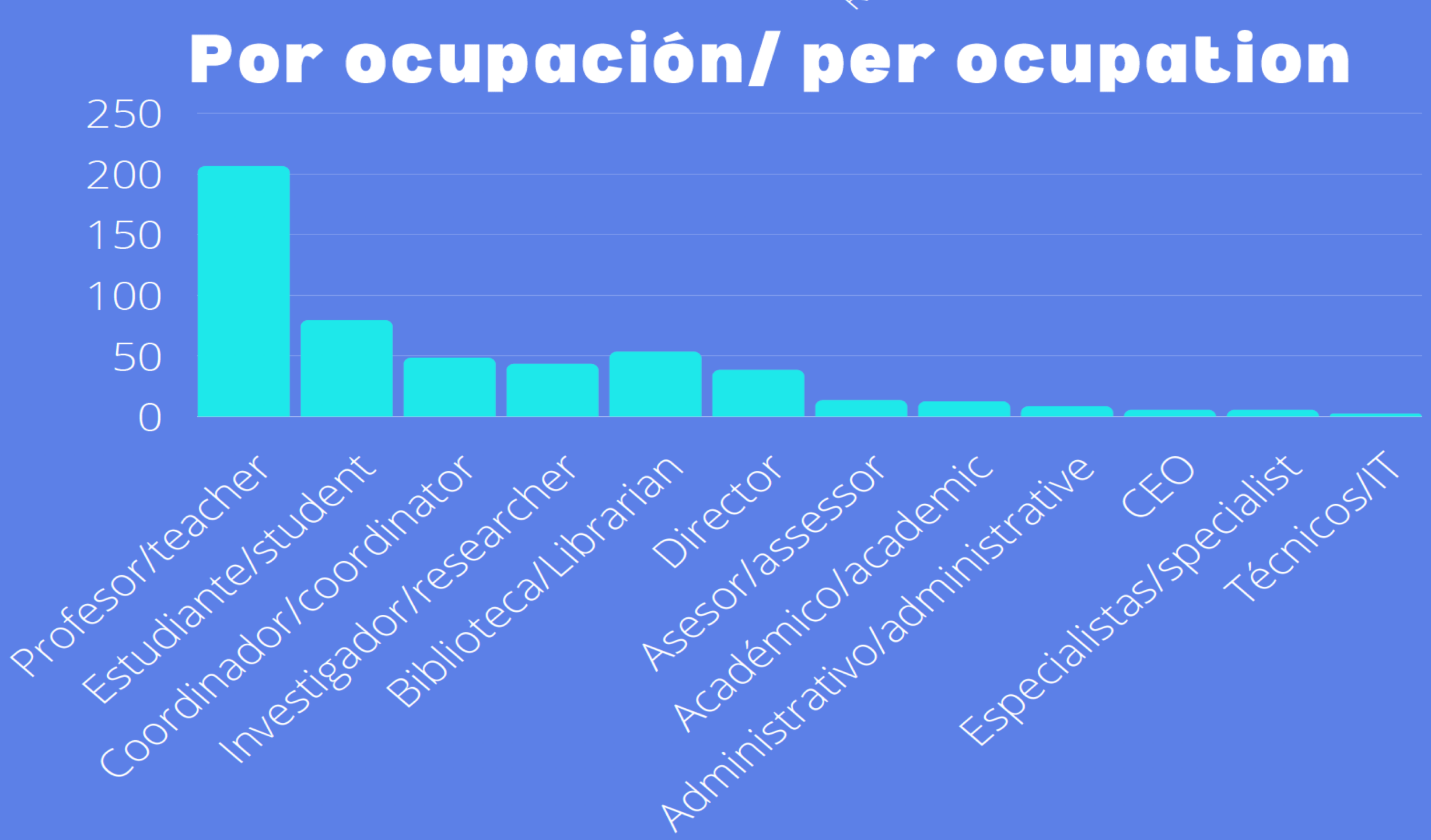
Participation report



POR PAÍS / PER COUNTRY

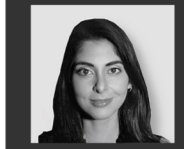


Por ocupación/ per ocupation



OpenEd WUN&UNESCO Team

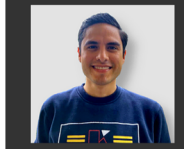
PROJECT TEAM



Barbara Castillo Abdul

Strategic communication

Rey Juan Carlos University



Abel Garcia Gonzalez

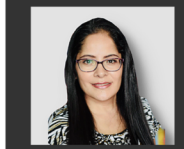
Researcher

Tecnológico de Monterrey

Isolda Castillo Martinez

Researcher

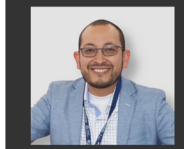
Tecnológico de Monterrey



Sara Rodriguez Palacios

Scientific disemination

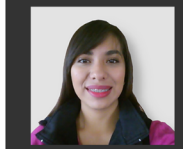
Tecnológico de Monterrey



Joel torres

CEO

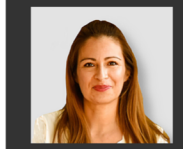
eScire



Nydia Lopez

Strategic communication

eScire



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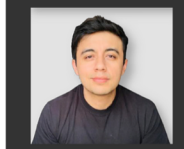

Sergio Ortiz

Technical support

Tecnológico de Monterrey

Fernanda lara

Strategic communication

eScire

Agenda

Welcome and context of OpenEd
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Let's talk about open education

Open education is about designing, implementing and evaluating learning opportunities with visionary, operational and legal openness to improve the quality of the learning process.

Reference:

Stracke, C. M. (2019). **Quality frameworks and learning design for open education.** *The International Review of Research in Open and Distributed Learning*, *20*(2).

Open education and educational innovation (2015-2020)

Top 50 keyphrases by relevance, based on 110 publications | Learn about keyphrase calculations ↗

A A A relevance of keyphrase | declining A A A growing (2015-2019)

Reference:

Ramírez-Montoya, M. S. (2020). **Challenges for Open Education with Educational Innovation: a Systematic Literature Review**. *Sustainability, 12*, 7053; doi:10.3390/su12177053. Retrieved from: https://hdl.handle.net/11285/636785

What are Open Educational Resources (OER)?

Learning, teaching and research materials, in any format and medium, residing in the public domain or protected by copyright that have been published under an open licence, which allows access, reuse, adaptation and redistribution free of charge by others (UNESCO, 2019).

Reference:

UNESCO (2019). **Recomendación sobre los recursos educativos de libre acceso**. Disponible en: https://es.unesco.org/news/nueva-recomendacion-unesco-promovera-acceso-recursos-educativos-todos

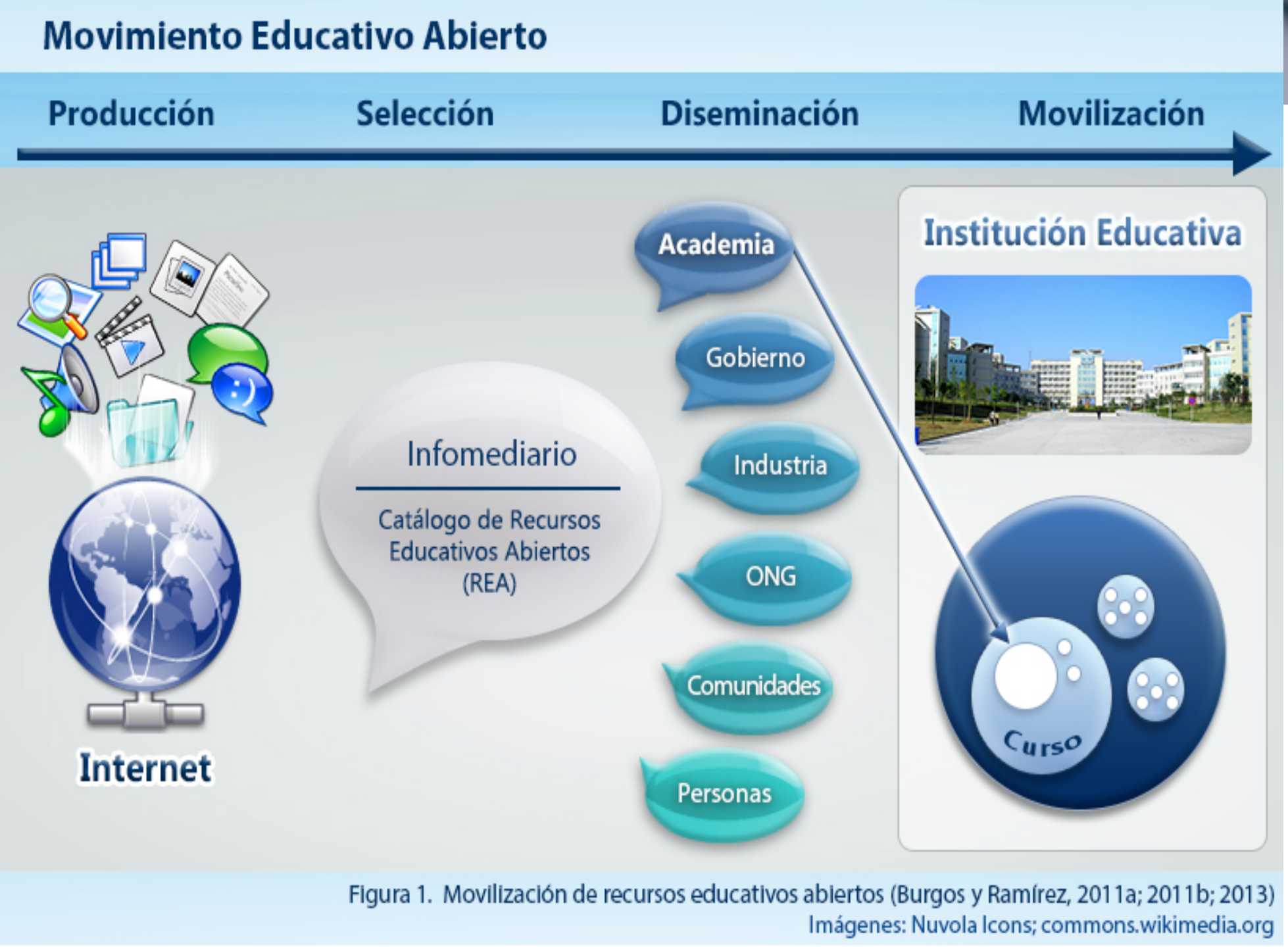


Figura 1. Movilización de recursos educativos abiertos (Burgos y Ramírez, 2011a; 2011b; 2013)
Imágenes: Nuvola Icons; commons.wikimedia.org

Reference:
Ramírez-Montoya, M.S. (2014). ***Movimiento educativo abierto*** [vídeo]. Disponible en: https://www.youtube.com/watch?v=iu-D3PusuSU

Reflection question

What open education practices do you think you could contribute in the framework of the WUN-UNESCO network?

Let's talk about inclusive education

UNESCO defines inclusive education as the process of identifying and responding to the diversity of needs of all learners through widening participation in learning, cultures and communities, and reducing exclusion in education.

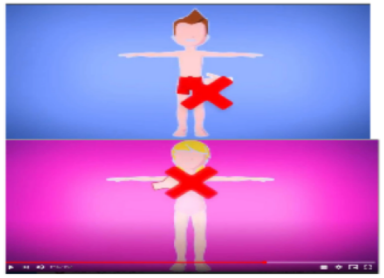
Reference:
UNESCO (s/f). **Inclusión en la Educación.** https://es.unesco.org/themes/inclusion-educacion

Open and inclusive education case study

Reference:

Ramirez-Montoya, M. S., Anton-Ares, P., & Monzon-Gonzalez, J. (2021). **Technological Ecosystems That Support People With Disabilities: Multiple Case Studies**. *Frontiers in Psychology, 12*, Article 633175. doi: 10.3389/fpsyg.2021.633175 Retrieved from: https://hdl.handle.net/11285/637091

TABLE 2 | Videos of the INCLUEDUSEX project.

Video topic	Message	Images
Sexual protection	Safe sex is important. Teach your child about sexual protection, before it is too late	
Hygiene (girls) Hygiene (boys)	Taking care of your body is very important	
Preparing for the doctor's visit (girls) Preparing for the doctor's visit (boys)	Going to the gynecologist is very important Going to the urologist is very important	
Public masturbation	Knowing the right place to masturbate is very important	
Contact rules for girls Contact rules for boys	No one can touch your genital área, and no one can make you touch	

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Capacity building

Developing supportive policies

Effective, inclusive and equitable access

Sustainability models

International cooperation

Evaluation and monitoring

Areas of action of the new UNESCO recommendations 2019

Link: http://bit.ly/Unesco2019

Reflection question

From your point of view, what do you see as the biggest challenge facing open education according to UNESCO's recommendations?

(i) Capacity building of stakeholders on creation, access, re-use, adaptation and redistribution

- raising awareness of how OER can expand access
- provide systematic and continuous training of OER
- raise awareness of copyright for education and research
- leverage open tools/platforms and standards
- make available easily accessible OER resources
- promote digital literacy skills

(ii) Developing supportive policies

- develop and implement policies that support open licensing of OER
- encouraging and supporting institutions to develop policy frameworks
- develop mechanisms to build communities of practice, networks of expertise and recognition
- address the inclusion of OER in education and equity transformation
- encouraging and supporting OER research through research programmes
- develop and implement policies that implement identity and data protection standards

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(iii) Promoting effective, inclusive and equitable access

- ensuring access for learners' needs and programmes
- support gender, cultural, linguistic, linguistic and language-sensitive production
- ensure the principles of gender equality, non-discrimination and inclusion
- ensure investment in ICT infrastructure and broadband
- encourage open education development and research
- develop standards, benchmarks and criteria for OER quality assurance

(iv) Promoting the creation of sustainability models

- review provisions, procurement policies and regulations to expand and simplify
- catalysing traditional and non-traditional sustainability models (donations, incentives)
- promote other value-added models, with collective value generation, partnerships and innovation
- enacting regulatory frameworks that support the development of OER and services
- promote the faithful linguistic translation of open licences, to ensure their proper implementation
- providing mechanisms for the implementation, enforcement and improvement of OER
- optimising education and research funds and budgets through collaboration

(v) Promoting and strengthening international cooperation

- promote and stimulate cross-border collaboration and partnerships on projects establish regional and international funding mechanisms for OER
- supporting the creation and maintenance of effective peer networks sharing OER
- incorporating OER clauses in international education agreements
- developing a framework for copyright for educational and research purposes
- supporting the contribution of cross-cultural communication, group management

Capacity building

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Reflection question

Why did you choose this challenge? Briefly explain your answer

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LaTEMx Network
https://redlate.net/

Networking requires operational coordination, with the contribution of knowledge to projects and lines of work.

Openergy Network
http://energialab.tec.mx/redopenergy/

Coherence between shared values in a network helps to sustain the vocation to work on a common project.

Researchers in Action Network

Networking methodology is an effective way of sharing information, learning from each other's experience, working together, exchanging experiences, facilitating actions and initiatives of members for a multiplier effect.

OELATAM Open education in Latin America https://www.oelatam.org

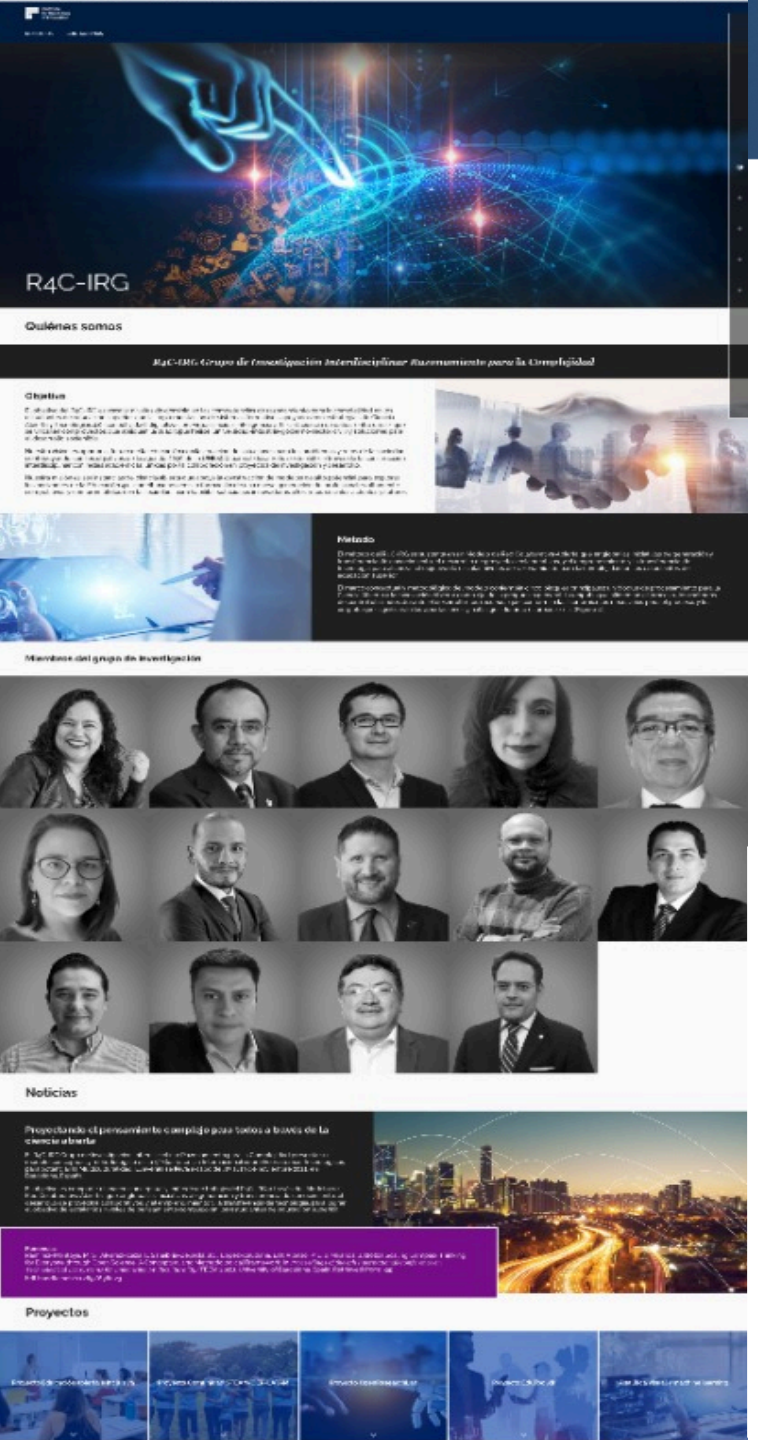
Key issues in academic networks:

- Commitment
- Clear objectives
- Collaborative working
- Effective coordination
- Communication

UNESCO and ICDE Chairs:
Open educational movement for Latin America
https://oerunesco.tec.mx

Strategic in academic networks:

- Continuous interaction
- Continuous look
- Continuity
- Production
- Dissemination
- Research



R4C-IRG Interdisciplinary Research Group Reasoning for Complexity

https://tec.mx/es/r4c-irg

Vision: to contribute to the future of education by creating solutions to the problems and challenges of society, contributing to the objectives of UNESCO's 2030 agenda for sustainable development, through the interdisciplinary construction of academic networks, united by collaboration in research and development projects..

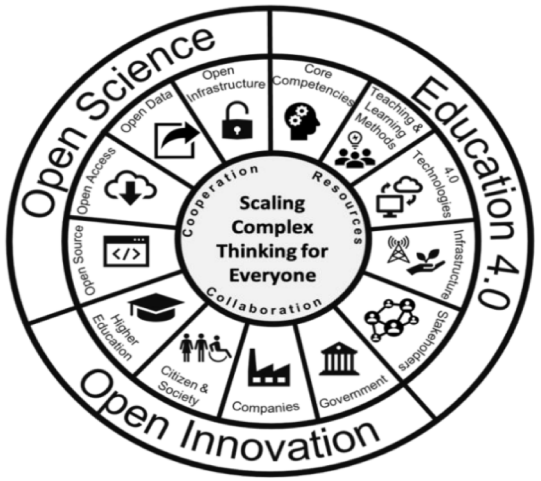
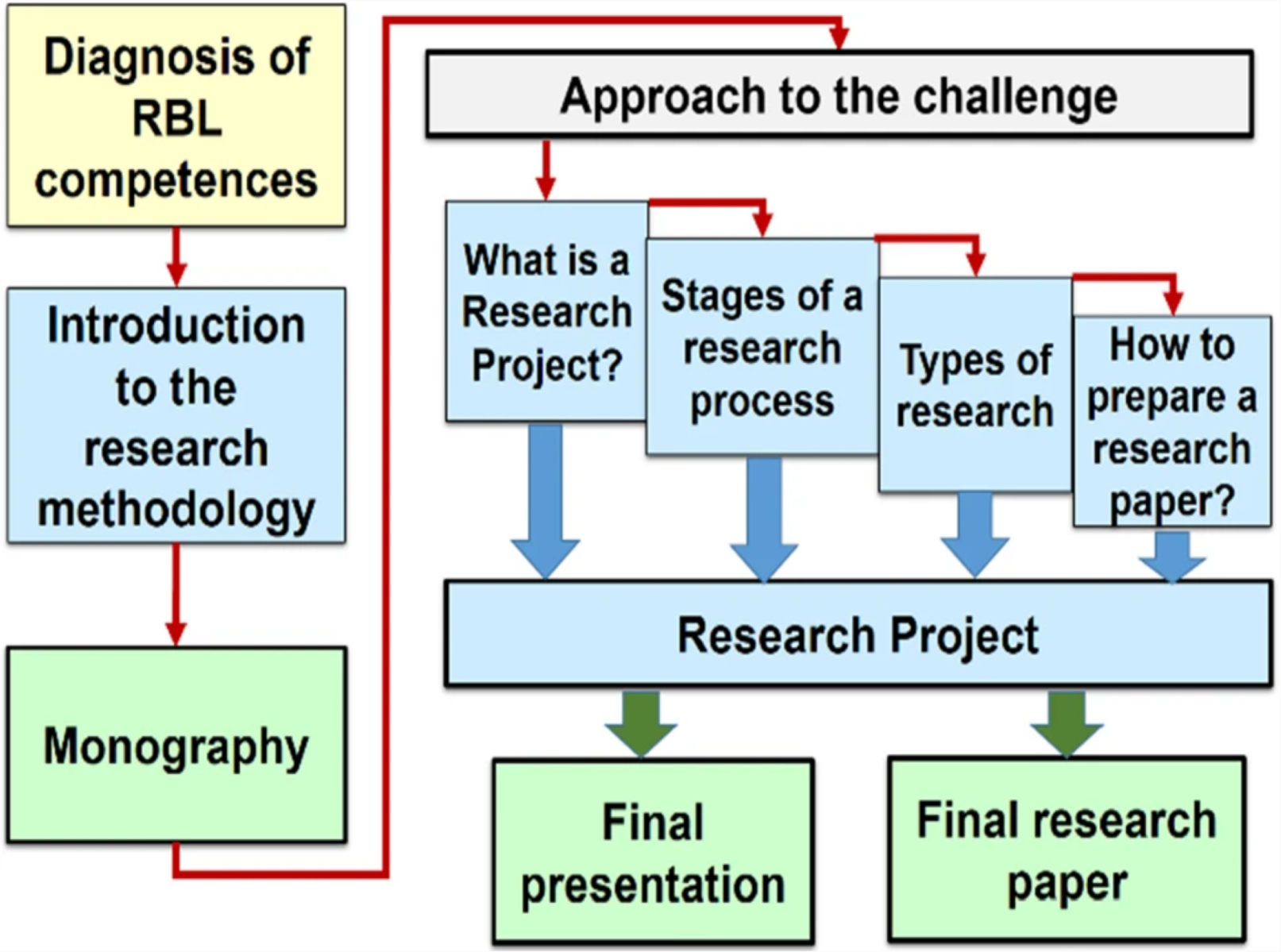


Figure 1: The three proposed key constructs for scaling complex thinking for everyone: Open Science, Open Innovation, and 4.0 Education.

Reference:

Ramírez-Montoya, M. S., Álvarez-Icaza, I., Sanabria-Zepeda, J.C., López-Caudana, E.O. Alonso, P. E. & Miranda, J. (2021). Scaling Complex Thinking for Everyone through Open Science: A Conceptual and Methodological Framework. In *Proceedings of the 9th International Conference on Technological Ecosystems for Enhancing Multiculturality* (TEEM 2021). University of Barcelona.

Spain. https://repositorio.tec.mx/handle/11285/638023



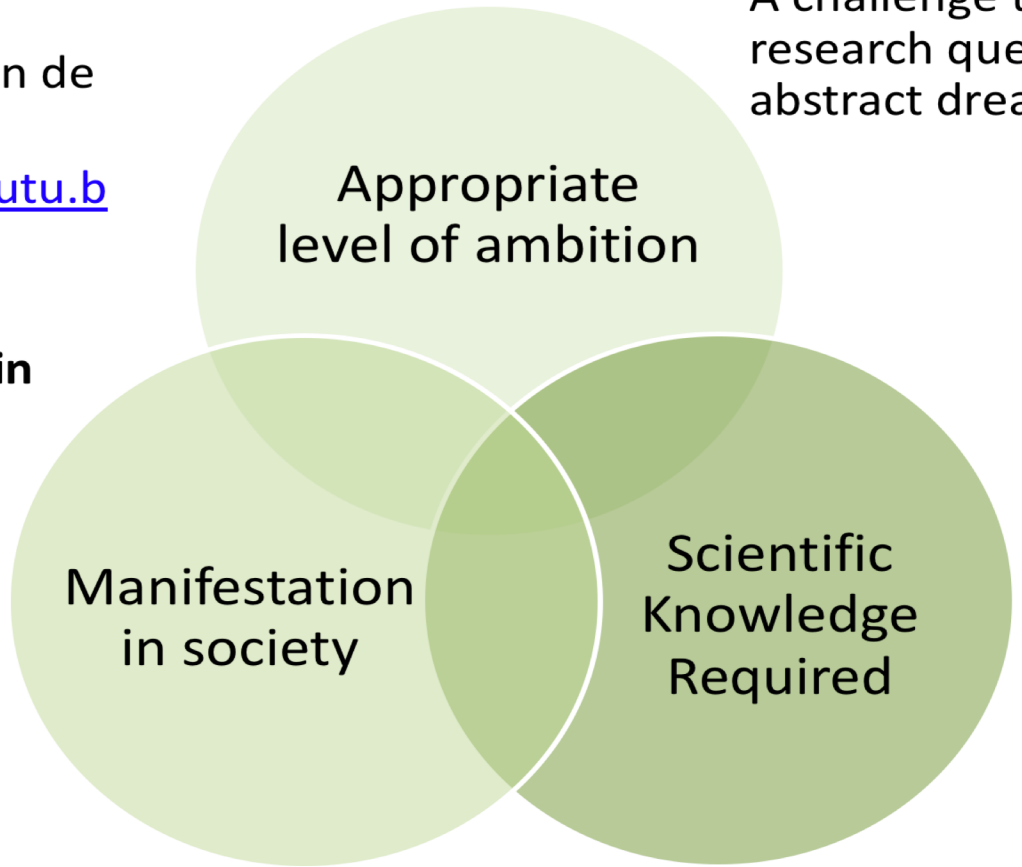
Reference:
Noguez J. & Neri L. (2019) **Research-Based Learning: A case study for engineering students**. *International Journal on Interactive Design and Manufacturing*. Springer. https://doi.org/10.1007/s12008-019-00570-x

What is a suitable Challenge?

Reference:
Molina, A. (2021). Challenge based Research. Canal de YouTube de Divulgación de la Ciencia del Tec de Monterrey: https://youtu.be/L48ywSde2gc.

An appropriate level of ambition

A challenge transcends a single research question but is not an abstract dream



A clear manifestation in society that is really explained and understood

Diverse stakeholders have a common understanding of and engagement with the challenge

Scientific knowledge is key to resolving the challenge

New knowledge is produced and/or knowledge is transferred to societal partners

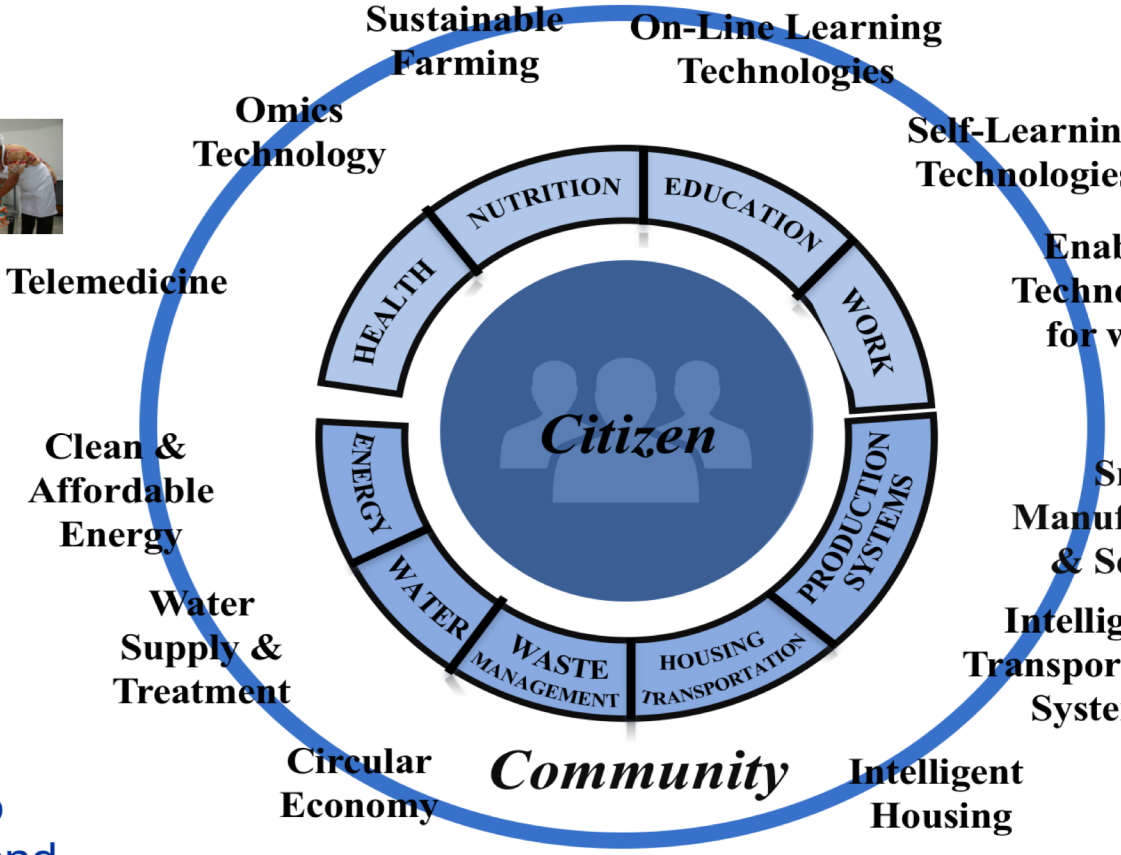
From: Challenge-Based Research in ECIU University, Deliverable 2.5 - Concept

Challenge Based Research and Innovation for Social Development

Tecnológico de Monterrey

Biotech to improve food production

Telemedicine to reduce maternal and neonatal mortality in Indigenous communities



Mobile Learning to improve Math & Reading Skills

Potable Rain Water and Sustainable Housing

Reference:

Molina, A. (2021). Challenge based Research. Canal de YouTube de Divulgación de la Ciencia del Tec de Monterrey: https://youtu.be/L48ywSde2gc.

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We invite you to leave your mark on open education through publication :o)

RIED (WoS). Free journal that accepts in Spanish, English and Portuguese.
Deadline: 30 November 2021
Special Issue "Digital transformation and education 4.0 according to UNESCO recommendations: opportunities for blended and distance environments".
Link English: https://blogderied.blogspot.com/2021/04/digital-transformation-and-education-40.html
Link Spanish: https://blogderied.blogspot.com/2021/04/call-for-papers-monografico-ried.html

We invite you to share your innovations at the

International Congress on Educational Innovation

http://ciie.itesm.mx/

Monterrey, México,

Tecnológico de Monterrey | CIIE Congreso Internacional de Innovación Educativa | Instituto para el Futuro de la Educación

CONFERENCE | REGISTRATION | CALL FOR PAPERS | PROCEEDINGS & CERTIFICATES | PRESS | CONTACT | ES | EN

We are looking for talent to form networks of educational researchers and entrepreneurs

100% PhD scholarships

Information:
Leonardo Glasserman:
glasserman@tec.mx

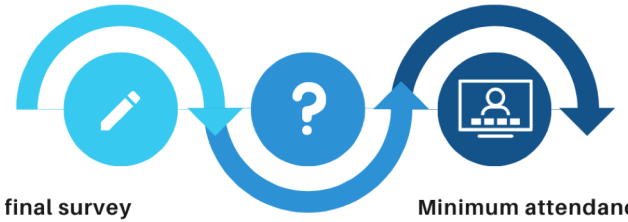
Information:
Katherina Gallardo:
katherina.gallardo@tec.mx

OPEN ED

Requirements for obtaining the certificate of participation

3 questions per Webinar

During each Webinar, 3 questions will be shared and must be answered.



Initial and final survey

Both forms should be answered, the initial survey will be sent in the first Webinar and the final survey will be shared in the last one.

Minimum attendance to 8 Webinars

You must register your participation in at least 8 Webinars.

Questions for this webinar

Question 1: What open education practices do you think you could contribute in the framework of the WUN-UNESCO network?

Question 2: In your view, what do you consider to be the biggest challenge facing open education according to UNESCO's recommendations?

Question 3: Why did you choose this challenge? Please briefly explain your answer

And as we said yesterday...

In times of crisis, opportunities arise in a strange way...problematic situations bring with them moments to reflect, rethink and rearrange meanings...and in this sea of uncertainty and complexity, encounters happen...and today we are here, with new challenges and invitations to build networks in pursuit of open and inclusive education .... enjoy OpenEd :o)

This webinar was developed in the framework of the project "Open and inclusive education: WUN and UNESCO training & research networks" funded by the WUN network.

Este webinar se desarrolló en el marco del proyecto "Educación abierta e inclusiva: WUN and UNESCO training & research networks" financiado por la red WUN.

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