## UNESCO CHAIR/UNITWIN NETWORK PROGRESS REPORT FORM

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| **Title of the Chair/Network:** | Open Educational Movement for Latin America (Movimiento Educativo Abierto para América Latina) |
| **Host Institution:** | Tecnologico de Monterrey |
| **Date of establishment of Chair/Network:** <br> *(mm, yyyy)* | 05, 2017 |
| **Period of activity under report:** <br> *(mm, yyyy - mm, yyyy)* | 05, 2018 -05, 2019 |
| **Report established by:** <br> *(name, position)* | María-Soledad Ramírez-Montoya <br> Open Educational Movement for Latin America <br> Chair UNESCO <br> https://oerunesco.tec.mx/ |

To be returned by electronic mail to both: unitwin@unesco.org and i.nichanian@unesco.org

Or by mail to UNESCO, Division for Teacher Development and Higher Education,

Section for Higher Education

7, place Fontenoy – 75352 Paris 07 SP, France

Fax: 33 (0)1 45 68 56 26/27/28

### 1. Executive Summary:
*Major outcomes, results and impact of the Chair, including on national policies, in relation to its objectives as stated in Article 2 of the Chair Agreement (between the Institution and UNESCO)*
(Not exceeding 300 words)

With the general objective of promoting the integration of research, training and documentation of the open education movement in Latin America, work was carried out based on the specific objectives, where the following results were achieved:

- **Objective 1.** Sharing and mobilising open knowledge through training processes and implementation mechanisms. ***Results.*** 16 keynote lectures, 13 MOOC, 2 workshops and impacting more than 150,000 people from more than 50 countries.

- **Objective 2.** Promote the integration of Latin American academics, through collaborative networks, to use and produce OER and join efforts to reduce gaps in education. ***Results.*** The OpenergyLab network was integrated with the objective of promoting connection nodes for collaboration between different institutions, social and governmental organisations, with the purpose of promoting education and open innovation for energy sustainability.

- **Objective 3.** Produce and disseminate studies of the open education movement and promote digital publishing practices. ***Results.*** Three studies were carried out with funding from the National Council for Science and Technology, the Mexican Ministry of Energy and the Ministry of Economy and Competitiveness of the Government of Spain. An innovation book was published to train in energy sustainability with massive open courses (MOOC).

- **Objective 4.** Promote cooperation with other Unesco Chairs in the area of open educational resources. ***Results.*** Participation with the UNESCO Chair of Athabasca University, Rory McGreal, in the OpenergyLab network.

- **Objective 5.** Cooperate closely with UNESCO in other relevant programmes and activities. ***Results.*** Actively participated with UNESCO in the intergovernmental meetings for the new UNESCO 2019 recommendations. Also participated in the Open Education Conference 2019 organised by Open Education Global.

**2) Activities:**
*Overview of activities undertaken by the Chair during the reporting period*

## a) Education/Training/Research
*(key education programmes and training delivered and research undertaken by the Chair during the reporting period, target group and geographical coverage)*

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|---|---|
| **i) Education**<br>**(leading to certificate)** | - Training in energy sustainability and open innovation through MOOCs. Aimed at the general public target group, over 17 years of age, with geographical coverage of the Spanish-speaking world. 17,776 certificates were awarded to participants from more than 50 countries and 10,930 labour competency certificates were awarded to employees of the Federal Electricity Commission (Mexico). |
| **ii) Training**<br>**(short term)** | - Course/workshop Innovation with open educational resources (Universidad del Desarrollo-Santiago de Chile and Concepción Chile, September 2018; 60 teachers and postgraduate students).<br>- Course/Workshop Publishing educational innovation practices (Universidad Técnica Particular de Loja-Ecuador, October 2018; 60 participating teachers).<br>- Course/Workshop Research and open publication of educational innovations (University of Salamanca, October 2018; 30 teachers and postgraduate students).<br>- Course/workshop Open research and publication of educational innovations (Tecnologico de Monterrey, January-May 2019; 30 teachers and postgraduate students). |
| **iii) Research** | - BiNational Laboratory for the Intelligent Management of Energy Sustainability and Technological Training Project. Funding entity: Ministry of Energy and the National Council for Science and Technology. Fund: 300,000,000 Mexican pesos. Period: 2016-2019. Project leader: Arturo Molina Gutiérrez (Tecnologico de Monterrey). Website: https://energialab.tec.mx<br>- A Digital Ecosystem Framework for an Interoperable NEtwork-based Society (DEFINES). Funding entity: Ministry of Economy and Competitiveness of the Government of Spain. Funding: 82,900 euros. Period: 2016-2019. Project leader: Francisco José García-Peñalvo (University of Salamanca). Website: https://ecosistemas.usal.es |

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| | ▪ Project 280318 Increasing the visibility of RITEC by improving the user experience and its interoperability with the National Repository. Funding entity: National Council of Science and Technology. Funding: 950,000 Mexican pesos. Period: 2017-2018. Technical Manager: María Soledad Ramírez Montoya (Tecnologico de Monterrey). Website: http://energialab.tec.mx/redopenergy/ritec/ |

## b) Conferences/Meetings
*(key conferences and meetings organized by the Chair or to which its Chairholder contributed)*

### i) Key conferences and workshops hosted by the Chair

- Fifth International Congress on Educational Innovation (CIIE 2018). Tecnologico de Monterrey. http://ciie.itesm.mx

### ii) Other conferences/organizational activities undertaken by the Chairholder

- 6th International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2018). University of Salamanca (Spain). 2018.teemconference.eu

### iii) A selection of conference presentations by the Chairholder and other colleagues

- Ramírez-Montoya, M.S. (2019). Contenidos digitales educativos en abierto para maestros y profesores. IV Congreso Internacional Alfamed Competencia Digital: del acceso al empoderamiento [Conferencia]. Santo Domingo, República Dominicana, 29 de mayo 2019.
- Ramírez-Montoya, M.S. (2019). Ambientes educativos innovadores e incluyentes: retos y aportaciones para el desarrollo sostenible. Congreso Internacional Educación inclusiva: prácticas innovadoras y aporte de las TIC [Conferencia]. Loja, Ecuador, 9 de mayo 2019.
- Ramírez-Montoya, M.S. (2019). Innovación Educativa en el marco de la visión 2030 de UNESCO: desafíos para la Educación Superior. Ceremonia solemne del 48 aniversario de la Universidad Tecnológica Particular de Loja [Conferencia]. Loja, Ecuador, 2 de mayo 2019.
- Ramírez-Montoya, M.S. (2019). Retos y oportunidades de los profesionales de la pedagogía en el marco de la educación 2030. 2° Foro de Pedagogía "¿Cuáles son los nuevos retos de los profesionales de la pedagogía en México? [Conferencia]. Puebla, Puebla, México, 22 de mayo 2019.
- Ramírez-Montoya, M.S. (2019). Movimiento educativo abierto en el marco de la UNESCO para la educación 2030 [Presentación]. Universidad del Noreste Tampico. Tampico, Tamaulipas, México, 22 de mayo 2019.
- Ramírez-Montoya, M.S. (2019). Docencia universitaria: de la innovación a la investigación [Presentación]. Universidad del Desarrollo, Concepción, Chile, 21 de marzo de 2019. Available: https://repositorio.itesm.mx/handle/11285/632978
- Ramírez-Montoya, M.S. (2019). Docencia universitaria: de la innovación a la investigación [Presentación]. Universidad del Desarrollo, Santiago de Chile, 19 de marzo de 2019. Available: https://repositorio.itesm.mx/handle/11285/632978
- Ramírez-Montoya, M.S. (2019). Tecnologias livres: oportunidades de empreendedorismo educacional e social/Tecnologías Libres: oportunidades educativas y sociales emprendedoras [Presentación]. Panel de educación en Tecno X 4.0. 14 de marzo de 2019. Available: https://repositorio.itesm.mx/handle/11285/632898
- Ramírez-Montoya, M. S. (2019). MOOC and open praxis in Latin America: challenges for a sustainable open education. Panel Open Education in the post-MOOC Era at Mobile Learning Week 2019. Madrid, Spain and Paris, France. 07 de marzo de 2019.
- Ramírez-Montoya, M. S. (2019). Investigación educativa en el marco de la formación e innovación para sustentabilidad energética [Presentación]. Universidad Autónoma de Baja California, Ensenada B. C. 21 de febrero de 2019. Available: http://hdl.handle.net/11285/632846
- Ramírez-Montoya, M. S. (2018). Interdisciplinary, Collaborative and Open Innovation to train in Energy Sustainability through MOOCs in the Latin American context. Proceeding

OELS 18. Paris Descartes University and expert MESRI (Ministery of higher education, research and innovation). París, France. 4 de diciembre de 2018.

- Ramírez-Montoya, M.S. (2018). Tecnología educativa para MOOC, Innovación educativa con tecnologías para la formación en sustentabilidad energética - subproducto red4. Laboratorio Binacional para la Gestión Inteligente de la Sustentabilidad Energética y Formación Tecnológica. Monterrey, México, 21 de noviembre de 2018.
- Ramírez-Montoya, M.S. (2018). Innovación abierta, interdisciplinaria y colaborativa para formar en sustentabilidad energética a través de MOOCs. Laboratorio Binacional para la Gestión Inteligente de la Sustentabilidad Energética y Formación Tecnológica. Monterrey, México, 21 de noviembre de 2018.
- Ramírez-Montoya, M. S. (2018). Recursos educativos abiertos en Educación Superior: casos de América Latina. Encuentro Virtual Educa Andina, Lima Perú, 9 de noviembre de 2018.
- Ramírez-Montoya, M. S. (2018). Contenidos abiertos para un mundo digital e interactivo. III Congreso Internacional de Competencias Mediáticas: Comunicación-Educación para el Bien Vivir. Congreso organizado por La Red Interuniversitaria Euroamericana de Investigación sobre Competencias Mediáticas para la Ciudadanía, Alfamed, y la Universidad Católica Luis Amigó. 11 de octubre 2018. Universidad Católica Luis Amigó de Medellín - Colombia. Available: http://hdl.handle.net/11285/630237
- Ramírez-Montoya, M. S. (2018). Blockchain potentials in education and open science. Forum Internacional de Educación y Tecnología. Congreso organizado por la Universidad de Barcelona, España. 26 de junio de 2018. Available: http://hdl.handle.net/11285/630221

## c) Interuniversity Exchanges/Partnerships
*(principal exchanges/partnerships between the Chair and other institution,s including UNESCO Chairs/UNITWIN Networks)*

Athabasca University/Rory McGreal/ICDE/UNESCO Chair
Universidad de la Rioja/Daniel Burgos/ICDE/UNESCO Chair on E-Learning
Open University of Netherlands/Christian M. Stracke/ICDE Chair
National Open University of Nigeria/Jane-Frances Obiageli Agbu/ICDE Chair
U. Carlos III de Madrid, Spain/Carlos Delgado Kloos/Chair on Scalable Digital Education for All
Jozef Stefan Institute Slovenia/Mitja Jermol/Chair in Open Technologies for OER and Open Learning
U of Brasilia, Brazil/Tel Amiel/Chair in Distance Education
Universidad de la Republica Uruguay/Virginia Rodes/Chair in Open Education
Universidad de Salamanca/ Francisco García-Peñalvo/Director of doctoral programme
Universidad de Huelva/Ignacio Aguaded/ Director of Doctoral Programme
Norwest University/Jairo Lugo/Director of Communication
Instituto Tecnológico de Sonora/ Imelda García/ Director of Doctoral Programme
Universidad Nacional Autónoma de México/Guillermo Rodríguez/ Director of Technologies
Universidad Autónoma de Yucatán/Pedro Canto/ Director of doctoral programme
Universidad Complutense de Madrid/Paloma Antón/ Professor of inclusive education
University of Barcelona/Antonio Bartolomé/Professor of innovation
Universidad Rey Juan Carlos/Luis Miguel Romero/ Professor of Communication
University of Barcelona/Antonio Bartolomé/ Professor of innovation
University of Barcelona/Sandra Martínez/ Professor of inclusive education
University of Granada/ José María Romero Rodríguez/ Professor of innovation
Universidad Estatal a Distancia/Diana Hernández/Director of innovation
Open Education Global/Marcela Morales/Coordinator OELATAM

## d) Publications/Multimedia Materials
*(major publications and teaching/learning materials)*

| Please tick relevant fields of output and indicate volume of output: | | [tick] | [no.] |
|---|---|---|---|
| | **Books** | ☐ | |
| | **Books (edited)** | ☑ | 1 |
| | **Books (chapters)** | ☑ | 06 |
| | **Monographs** | ☐ | |
| | **Research Reports** | ☑ | 04 |
| | **Journal Articles (refereed)** | ☑ | 09 |
| | **Conference Proceedings** | ☑ | 06 |
| | **Occasional Papers** | ☐ | |
| | **Teaching/Learning Materials** | ☑ | 10 |
| | **Multimedia Materials (CD-Rom)** | ☐ | |
| | **Multimedia Materials (Video)** | ☐ | |
| | **Multimedia Materials (Other)** | ☐ | |

*Give details of major publications and materials including full citations.*

**i) Theses**

Beltrán Hernández, M. de J. (2018). *Innovación en el diseño instruccional de cursos masivos abiertos (MOOCs) que integra competencias de emprendimiento para formar en sustentabilidad energética* (Master's thesis). Instituto Tecnológico y de Estudios Superiores de Monterrey. Retrieved from: https://repositorio.itesm.mx/handle/11285/630778

Cachay, L. (2018). *Percepción de desarrollo profesional y adquisición de competencias en MOOC de sustentabilidad energética* (Master's thesis). Instituto Tecnológico y de Estudios Superiores de Monterrey.

Carrera, J.M. (2018). *Motivación y aprendizaje en MOOC con innovación educativa para formar en sustentabilidad energética* (Master's thesis). Instituto Tecnológico y de Estudios Superiores de Monterrey. Retrieved from: http://hdl.handle.net/11285/632778

Rincón-Flores, E.G. (2018). *Gamificación en ambientes masivos de innovacion abierta en el área de sustentabilidad energética* (Doctoral thesis). Universidad de Salamanca, España. Retrieved from: https://repositorio.tec.mx/handle/11285/632436

Valenzuela-Arvizu, S. Y. (2018). *Innovación en cursos masivos abiertos con estrategias de gamificación, aprendizaje invertido y por retos, para formar en sustentabilidad energética* (Master's thesis). Instituto Tecnológico y de Estudios Superiores de Monterrey. Retrieved from: http://hdl.handle.net/11285/632418

Elizondo Garcia, J. M. (2019). *Evaluación formativa en cursos en línea masivos y abiertos: Estudio sobre retroalimentación entre pares en cursos de sustentabilidad y ahorro energético* (Doctoral thesis). Instituto Tecnológico y de Estudios Superiores de Monterrey. Retrieved from: http://hdl.handle.net/11285/633014

**ii) Publications**

***Book***

- Ramírez-Montoya, M. S. y Mendoza-Domínguez, A. (Eds) (2018). Innovación y sustentabilidad energética implementación en cursos masivos e investigación educativa. Madrid: Narcea. ISBN: 9788427725447. Available http://hdl.handle.net/11285/632773

*Journal Articles*

- Beltrán, M. y Ramírez-Montoya, M.S. (2019). Innovación en el diseño instruccional de cursos masivos abiertos (MOOC´s) para desarrollar competencias de emprendimiento en sustentabilidad energética. Education in the Knowledge Society (EKS), 20(15), 5-15. Doi: https://doi.org/10.14201/eks2019_20_a5 Available: http://revistas.usal.es/index.php/eks/article/view/eks20192005.
- García-González, A., & Ramírez-Montoya, M.S. (2019). Systematic Mapping of Scientific Production on Open Innovation (2015–2018): Opportunities for Sustainable Training Environments. Sustainability, 11. Doi:10.3390/su11061781 Retrieved from: https://www.mdpi.com/2071-1050/11/6/1781/pdf
- Romero, L.M., Ramírez-Montoya, M.S., & González, J.R. (2019). Gamification in MOOCs: Engagement Application Test in Energy Sustainability Courses. IEEE Access, 7, 1-9. Doi: 10.1109/ACCESS.2019.2903230 Retrieved from: http://hdl.handle.net/11285/632872
- Ramírez-Montoya, M. S. (2018). Innovación abierta, interdisciplinaria y colaborativa para formar en sustentabilidad energética a través de MOOCs e investigación educativa. Education in the Knowledge Society (EKS), 19(4), 11-30. doi 10.14201/eks20181941130. Available: http://hdl.handle.net/11285/632776.
- Figueroa, M., Glasserman, L. D. y Ramírez-Montoya, M. S. (2018). M-learning y desarrollo de habilidades digitales en educación superior a distancia. Ensayos pedagógicos, 13(2), 97-118. DOI: 10.15359/rep.13-2.5 Available: http://hdl.handle.net/11285/632428.
- González-Pérez, L. I., Ramírez-Montoya, M. S., & García-Peñalvo, F. J. (2018). User experience in Institutional Repositories: A Systematic Literature Review. International Journal of Human Capital and Information Technology Professionals (IJHCITP), 9, 70-86. DOI:10.4018/IJHCITP.2018010105 Available: http://hdl.handle.net/11285/627982
- Mercado-Varela, M. A., Fernández Morales, K., Lavignec, G. y Ramírez-Montoya, M. S. (2018). Enseñanza y difusión sobre el uso de recursos educativos abiertos con MOOC: un estudio de caso. CPU-e Revista de Investigación Educativa, 26(2). Available: http://hdl.handle.net/11285/628007
- Ramírez-Montoya, M.S. & García-Peñalvo, F. (2018). Co-creation and open innovation: Systematic literature review. Comunicar, 54. DOI: https://doi.org/10.3916/C54-2018-01 Available: http://hdl.handle.net/11285/627964
- Valdivia Vázquez, J.A., Ramírez-Montoya, M.S., & Valenzuela-González, J. R. (2018). Motivation and knowledge: Pre and post assessment of MOOC participants from an energy and sustainability project. International Review of Research in Open and Distance Learning Available: http://hdl.handle.net/11285/628036

*Book Chapters*

- Ramírez-Montoya, M. S. y Mendoza-Domínguez, A. (Eds) (2018). Innovación y sustentabilidad energética implementación en cursos masivos e investigación educativa. Madrid: Narcea. ISBN: 9788427725447. Available http://hdl.handle.net/11285/632773
- Yañez, J.A., Ramírez-Montoya, M.S. y Ramírez-Hernández, D. (2018). Laboratorio de innovación para la sustentabilidad energética: El caso Openergy Lab. En Ramírez-Montoya, M. S. y Mendoza-Domínguez, A. (Eds), Innovación y sustentabilidad energética. Implementaciones en cursos masivos e investigación educativa (pp.17-54). Narcea. Available: https://hdl.handle.net/11285/636961
- González-Pérez, L.I., Ramírez-Montoya, M.S., García-Peñalvo, F.J., Ceballos, H. y Juárez, E. (2018). RITEC & CRIS: Interoperabilidad para visibilidad y medición del impacto de la producción científica energética. En Ramírez-Montoya, M. S. y Mendoza-Domínguez, A. (Eds), Innovación y sustentabilidad energética. Implementaciones en cursos masivos e investigación educativa (pp.55-74). Narcea. Available: https://hdl.handle.net/11285/636962
- Ramírez-Montoya, M. S., Beltrán Hernández, M. de J., Ramírez-Ramírez, L. N. y Mancilla Méndez, Y. (2018). Competencias de emprendimiento e innovación en el MOOC "Mercados de carbono". En Ramírez-Montoya, M. S. y Mendoza-Domínguez, A. (Eds), Innovación y sustentabilidad energética. Implementaciones en cursos masivos e investigación educativa (pp.17-54). Narcea. Available: https://hdl.handle.net/11285/636963
- Mena, J, Rincón-Flores, E.G. & Ramírez-Montoya, M.S. (2018). The Use of Gamification as a Teaching Methodology in a MOOC About the Strategic Energy Reform in México. En Di

Masco, T., Vittorini, P., Gennari, R., De la Prieta, F., Rodríguez, S., Temperini, M., Azambuja-Silveira, R., Popescu, E., & Lancia, L. (Eds), Methodologies and Intelligent Systems for Technology Enhanced Learning, 8th International Conference, 29-36. Toledo, Spain. Springer Link.

- Ramírez-Montoya, M. S. & Farías, S. C. (2018). De los ambientes a distancia a los cursos masivos abiertos: El caso de los MOOC del Tecnologico de Monterrey. En Mercado, R. (Ed), Los MOOC: el caso México, 1-23. Cordoba, Argentina. Editorial Brujas. Available: http://hdl.handle.net/11285/628943
- González-Pérez, L.I., Ramírez-Montoya, M.S. y García-Peñalvo, F.J. (2018). Identidad digital 2.0: Posibilidades de la gestión y visibilidad científica a través de Repositorios Institucionales de Acceso Abierto. En Merlo-Vega. J.A. (Ed), Ecosistemas de Acceso Abierto, 197-206. Salamanca, España. Ediciones Universidad de Salamanca. Available: http://hdl.handle.net/11285/630691

*Conference Proceedings*

- Celaya-Echarri, I., Ramírez-Montoya, M. S., Naval, C. & Arbúes, E. (2019). The educational potential of the podcast: an emerging communications medium educating outside the classroom. In Proceedings of the 7th International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2019). University of Leon. Spain. Retrieved from: http://hdl.handle.net/11285/633092
- Pérez-González, M.E., & Ramírez-Montoya, M. S. (2019). Techno-andragogic Ecosystem Model for Active Learning: digital age learners. In Proceedings of the 7th International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2019). University of Leon. Spain. Retrieved from: http://hdl.handle.net/11285/633093
- Rincón-Flores, E.G., Ramírez-Montoya, M. S., & Mena, J.J. (2019). Engaging MOOC through gamification: Systematic mapping review. In Proceedings of the 7th International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2019). University of Leon. Spain. Retrieved from: http://hdl.handle.net/11285/633089
- García-González, A., & Ramírez-Montoya, M. S. (2019). Higher education for social entrepreneurship in the quadruple helix framework: co-construction in open innovation. In Proceedings of the 7th International Conference on Technological Ecosystems for Enhancing Multiculturality (TEEM 2019). University of Leon. Spain. Retrieved from: http://hdl.handle.net/11285/633024
- Mena, J., Rincón-Flores, E.G., Ramírez, R., & Ramírez-Montoya, M. S. (2018). The use of gamification as a teaching methodology in a MOOC about the strategic energy reform in México. MIS4TEL 2018 Conference (Toledo, Spain, 2018). Retrieved from: http://hdl.handle.net/11285/632424
- González_Pérez, L. I., Ramírez-Montoya, M. S., Garcia-Peñalvo, J. F., Valenzuela Gonzalez, J. R., Pinto-Llorente, A. (2018). Validity and reliability of a survey to know the technological acceptance of an institutional repository: The case of resources on energy and sustainability. In Proceedings of the sixth International Conference on Technological Ecosystems for Enhancing Multiculturality, TEEM 2018. Salamanca, Spain. Retrieved from: http://hdl.handle.net/11285/630236

## e) Cooperation with UNESCO Headquarters, Field Offices

Participation in Open Educational Resources expert sessions and activities to strengthen UNESCO's programmes (such as Open weeks and workshops). Also, participation in international congresses promoted by the headquarters and the chairs' colleagues.

**f) Other**
*(any other activities to report)*

Improvement of the web portal to facilitate global communication between all participants of the UNESCO/ICDE Chair Open Educational Movement for Latin America with Tecnologico de Monterrey domain:
https://oerunesco.tec.mx/

Collaboration with institutions in Mexico and Latin America for the development and strengthening of their institutional repositories.

Follow-up of the projects of the UNESCO Chair Fellows to support them in management activities and academic/scientific accompaniment.

## 3. Future Plans and Development Prospects:
*Outline of action plan for the next biennium and short/medium and long-term development prospects. Please do not hesitate to refer to difficulties that the Chair has experienced*
(Not exceeding 300 words)

Link the global objectives of the UNESCO Draft Medium-Term Strategy 2014-2021 with the objectives of the UNESCO/ICDE Chair to enhance the integration of research, training and documentation of the open education movement in Latin America. The short, medium and long-term plans for the next two years will focus on linking the specific objectives of the Chair with the strategic objectives of UNESCO's plans:

- **Objective 1.** Sharing and mobilising open knowledge, through training processes and implementation mechanisms. ***Short-term plan.*** Involve training processes for young people, linked to the development of competencies such as critical reflection, creativity, understanding of the ethical dimensions of human development, and active and responsible citizenship.
- **Objective 2.** Promote the integration of Latin American academics, through collaborative networks, to use and produce OER and join efforts to reduce gaps in education. ***Medium-term plan.*** Design the "2019 UNESCO/ICDE International Stay "Open Educational Movement for Latin America", so that in December 2019, we work creatively to propose future education programmes and education systems that promote the possibilities of quality lifelong learning.
- **Objective 3.** Produce and disseminate studies of the open education movement and promote digital publishing practices. ***Long-term plans.*** Promote studies linking science, politics and society and ethical and inclusive policies for sustainable development.
- **Objective 4.** Promote cooperation with other Unesco Chairs in the area of open educational resources. ***Short-term plans.*** Promote international cooperation activities in the field of science to foster sustainability and social inclusion.
- **Objective 5.** Cooperate closely with UNESCO in other relevant programmes and activities. ***Long-term plans.*** Link actions together to contribute to inclusive social and economic development, leading to improved coexistence and quality education for all.

## Appendix:

## 1) Human Resources

Vladimir Burgos/Libraries/Tecnologico de Monterrey

Leonardo Glasserman/Research/Tecnologico de Monterrey

Abel García/Research/Tecnologico de Monterrey

Isolda Martínez/Research/Tecnologico de Monterrey

Approximately 50 collaborators from Tecnologico de Monterrey (innovation, research, academic, administrative, communication and legal areas).

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## 2) Financial Resources

| *Please tick sources of financial contribution and specify the amount in U.S. dollars* | | [tick] | Amount ($) |
|---|---|---|---|
| | **Host Institution** | ■ | 50,000 |
| | **Partner Institution** | ■ | 150,000 |
| | **Government Body** | ☐ | _____ |
| | **Other Public Institution/Body** | ■ | 500,000 |
| | **(incl. Research Councils)** | | |
| | **UNESCO** | ■ | 3000 |
| | **Other UN Agency** | ☐ | _____ |
| | **IGO** | ☐ | _____ |
| | **NGO** | ☐ | _____ |
| | **Industry** | ☐ | _____ |
| | **Other Private** | ☐ | _____ |

*Give details of financial contributions, material resources and space.*

- The institution contributed with human resources, physical spaces, technological platforms and accommodation, as well as travel logistics for participation in representations, conferences, workshops and courses.
- The partner institutions contributed with travel logistics for participation in conferences and workshops.
- The National Council for Science and Technology contributed funds for research and training developments (MOOCs and Openergy Network) and technologies.
- UNESCO contributed transport and accommodation for expert sessions invited to work on the new OER recommendations.

**End of the Form**