



CHAPTER 9

SDG 17: NATIONAL ALLIANCE OF NODESS TIJUANA IN NORTH, CENTRAL AND SOUTH MEXICO WITH 2030 AGENDA¹

Rodolfo Martinez Gutierrez
Tijuana Institute of Technology

Gaudencio Lucas Bravo
National Technological Institute of Mexico

Sonia Mora Carbajal
Tijuana Institute of Technology

Miguel Santana Rodriguez
Tijuana Institute of Technology

Maria Magdalena Serrano Ortega
Tijuana Institute of Technology

Beatriz Chávez Ceja
Tijuana Institute of Technology

Susana Montes Olalde
Tijuana Institute of Technology

Artemio Lara Chávez
Tijuana Institute of Technology

Eduardo Ahumada Tello
Universidad Autónoma de Baja California

Guadalupe Acuña Álvarez
Secretary of Public Education

ABSTRACT: NODESS Tijuana is the first Node for the Promotion of the Social and Solidarity Economy (NODESS) on the northern border of Mexico, created in 2022 under the leadership of the Tecnológico Nacional de México, Campus Tijuana. Its initial strategic axis focuses on food sovereignty, culture, and social innovation through the Sustainable Development Goals (SDGs) of the 2030 Agenda. Promotion of the

¹ **Como citar:** Martinez Gutierrez, R., Lucas Bravo, G., Mora Carbajal, S., Santana Rodriguez, M., Chávez Ceja, B., Montes Olalde, S., Lara Chávez, A., Ahumada Tello, E., & Acuña Álvarez, G. (2026). SDG 17: National alliance of nodes Tijuana in North, Central and South Mexico with 2030 Agenda. En *Systemic development for sustainability: Case studies of QHS methodology and 2030 agenda in voluntary local reports (VLRs)* (pp. 184–198). Atena. <https://doi.org/10.22533/at.ed.727261102>

Social and Solidarity Economy (SSE) to promote alternative models of economic development based on cooperation, solidarity and sustainability. And regional linkage through articulating efforts with other NODESS in the northern, central and southern regions of Mexico and with national strategic programs (PRONACES) of SECIHTI. NODESS TIJUANA has become a Research Network in Social and Solidarity Economy (RIESS Network) in the National Category.

1. INTRODUCTION

On September 22, 2022, the National Tour and Territorial Roundtables of Nodes for the Promotion of the Social and Solidarity Economy (NODESS) was held, for the Northern Border Region, based at the TecNM Campus Instituto Tecnológico de Cd. Jiménez, in Chihuahua. At first, a technical meeting was held with the liaisons and those responsible for the participating NODESS and NODESS PRE from the Northern Border Region of Mexico, which had the purpose that the representatives of the Higher Education Institutions share the results of the projects developed and the areas of opportunity for strengthening, of multiplying mechanisms of articulation methodologies, taking advantage of the experience generated for the benefit of new NODESS PRE in the Municipalities and the development of Cooperation Networks of NODESS PRE and regional NODESS [1].

In the intervention of the representation of the Technological Institute of Tijuana (ITT), Mtra. Maribel Guerrero Luis, Deputy Director of Planning and Liaison, announced the strategic role that the Technological Institute of Tijuana has played in more than 54 years in the region; in the training and development of specialized talent contributing to the strengthening of the different sectors of society, through leadership in Technological Higher Education, distinguishing this house of studies for the academic level, research and sectoral linkage, highlighting the statistics of Researchers with SNI Recognition of CONACYT, development and impact of research projects [2].

Likewise, Dr. Rodolfo Martínez Gutiérrez, head of NODESS TIJUANA, announced, and contextualized the actions derived from the Strategic Plan of the ITT Directorate since 2019 to develop the PRE NODESS TIJUANA project, presented the strategic allies of the project, the demonstrative effect of the initial phase of the PRE NODES TIJUANA was announced, which was oriented to the thematic line of Food Sovereignty, with specific objectives to map the needs of the supply chain and areas of opportunity in social innovation, in accordance with the National Strategic Programs (PRONACES) of CONACYT.

Finally, the project undertaken in 2019 as PRE NODESS TIJUANA, crystallized. Achieving the ITT, the national registration as the FIRST NODESS in the Northern Border Region of Mexico, occupying the leadership in the Border Municipalities of Baja California, Sonora, Chihuahua, Coahuila, Nuevo León and Tamaulipas.

The main objective of the NODESS TIJUANA Model presented at the national level by the TecNM Tijuana campus is the multiplying development of NODESS projects with a systemic approach (Fifth Systemic Helix) for institutional linkage with the different sectors of society, and with the aim of empowering the learning curve generated in the principles of the Social and Solidarity Economy.

The ITT contributes with academic linkage and strategic research actions to the collaborative work with the Municipal Institute of Citizen Participation of the City of Tijuana as Titular Member of the Sectoral Subcommittees for the monitoring of the progress of objectives and goals of the Municipal Development Plan 2022-2024 and the Strategic Plan for Municipal Development 2022-2036, all under the approach of alignment of competencies of the undergraduate and graduate educational programs to the National Strategic Programs of CONACYT, so that all together we can contribute to the challenges of the Plan de Nación in each region of Mexico.

2. METHODS AND MATERIALS

On March 6, 2024, the Tecnológico Nacional de México awarded the LETTER of ACCEPTANCE of the Social Economy Research Network (RIESS Network) in the NATIONAL Category, issued by the Directorate of Postgraduate, Research and Innovation in Mexico City. The RIESS Network has Researchers from North, Central and South Mexico, organized through a Board of Directors that integrates Regional Leaders; M.C. Blanca Esthela Zazueta Villavicencio from the Technological Institute of Agua Prieta (North Region 2), M.C.E. Adolfo Rivera Castillo from the Technological Institute of Hermosillo North Region 3), Dr. Armando Alberto León López from the Interdisciplinary Center for Research and Teaching in Technical Education - TecNM-CIIDET (Central Region), Dr. Jamín Balderrabano Briones from the Technological Institute of Úrsulo Galván (Southern Region), and as National Leader, Dr. Rodolfo Martínez Gutiérrez of the Technological Institute of Tijuana (Northern Region 1); Network Accepted with a validity for the period from January 2024 to December 2027. The agreements of the meeting of the RIESS Network was the formation of a Strategic Plan of the Network for the 3 years of validity, products will be established by Working Commissions for the rest of the members under a series of meeting activities to configure lines of action for Human Resources Training, Professional Residencies, Social Service, Local, regional, national and international liaison [3].

Likewise, the Development of Research Projects, Undergraduate and Postgraduate Theses. Consolidation of the work developed in the National Network of NODESS (Social and Solidarity Economy Development Nodes), the mechanisms of analysis and promotion of the lines of research of Academic Bodies, through the training and updating of Teachers and Researchers with links to the different Sectors of Society,

considering methodological tools of intervention such as the Fifth Systemic Helix (QHS); which includes representatives of the Government, Academia, Companies, Associations and Consultants.

3. RESULTS

From an approach to the analysis of the Sectoral Ecosystems in the different Regions of the National Territory (see Figure 1). The National Strategic Plans (PRONACES) and the Sustainable Development Goals (SDGs) of the UN's 2030 Agenda are a core point of the work axes for the development of Proposals for the improvement of a National Plan with an impact on the development and well-being of Society and the most vulnerable groups, towards a long-term sustainable approach.



Figure 1: Map of the RIESS Network

The RIESS Network is organized into a Board of Directors with regional leaders; below, the activities developed for strategic linkage at the national level in various cities of North, Central and South of Mexico are presented, promoting activities of Social Economy, Solidarity (SSE) and the 2030 Agenda, promoting the collaborative work of Academic Bodies, Research Groups, as well as administrative people and students to promote the empowerment of good practices of innovation and research according to local needs. regional and national.

NORTH of México

TIJUANA, B.C. – Installation of a Commission to Promote the Social Economy between Tijuana City Council and TecNM, an alliance of NODESS Tijuana [4].



TIJUANA, B.C. - Collaboration agreement for ISV Tijuana 2024 and 2025, between Tijuana City Council and TecNM Tijuana (Red RIESS and NODESS Tijuana) [5, 6].



ENSENADA, B.C. - TecNM Ensenada welcomes an International Speaker in the Framework of the 2030 Agenda and Agreement with Red RIESS – NODESS Tijuana [7].



NORTH of México

MEXICALI, B.C. – Mexicali is moving towards sustainable development with the preparation of the VLR 2025 (Agreement between the City Council and TecNM) [8, 9].



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NOGALES, SON. - Agreement for Voluntary Subnational Report of the City of Nogales with TecNM Nogales and Red RIESS [11, 12].



NORTH of Mexico

AGUA PRIETA, SON. – Agreement for a Voluntary Subnational Report of the City Council of Agua Prieta with TecNM Agua Prieta and Red RIESS [13,14].



HERMOSILLO, SON. - Agreement for a Voluntary Subnational Report of the City of Hermosillo with TecNM Hermosillo and Red RIESS [15].



CIUDAD JUÁREZ, CHIH. – Agreement for a Subnational Voluntary Report of the City Council of Ciudad Juárez with TecNM Ciudad Juárez and Red RIESS [16, 17].



CENTER of México

TLÁHUAC, CDMX. – Agreement between Academic Bodies and the RIESS Network [18].



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INICIATIVA NACIONAL DE INFORMES SUBNACIONALES VOLUNTARIOS DE AGENDA 2030 CON APOYO DEL TecNM EN AYUNTAMIENTOS DE TODO MÉXICO



19 de marzo de 2025

Se desarrollo una reunión de trabajo sobre la iniciativa nacional para el progreso de los Informes Subnacionales Voluntarios (VLR) en los Ayuntamientos, con el apoyo del Tecnológico Nacional de México (TecNM) en todo el territorio nacional, a través de los Docentes e Investigadores Miembros del SNII del SECIIHTI pertenecientes a Cuerpos Académicos de la Red Investigación de Economía Social y Solidaria (Red RIESS) del TecNM, con el apoyo legislativo de acuerdo a sus alcances, del Diputado Federal C. **Edén Garcés Medina**, con la participación del Dr. **Rodolfo Martínez Gutiérrez**, Líder Nacional de la Red RIESS del TecNM Campus Tijuana, como Asesor metodológico para el desarrollo de los VLR en los Ayuntamientos; la participación de la Dra. **Ana Lilia Bárcenas** Directora del TecNM Campus Tláhuac III, Dr. **Ignacio Nava Díaz**, Subdirector de Planeación y Vinculación de TecNM Tláhuac III.



Se analizo la hoja de ruta mas eficiente y los mecanismos de vinculación y articulación institucional para eficientizar los procesos de participación de mas Ayuntamientos y los distintos sectores de la sociedad, cabe mencionar que este tipo de ejercicios promueven el desarrollo local, las capacidades de articulación sistémica y dar a conocer los esfuerzos de cooperación del Gobierno, Academia, Empresas, Asociaciones y Consultores (Enfoque sistémico "QHS") para el desarrollo y progreso social sectorial, todo en beneficio de la sociedad, vinculando actividades de los NODESS, servicio social, residencias profesionales, tesis, programas de especialización. Todo lo anterior se deriva de los esfuerzos de colaboración entre la Dirección General y Secretaria Académica del Tecnológico Nacional de México con el Secretariado Ejecutivo de la Agenda 2030 de la Secretaría de Economía, y ahora con el respaldo de las gestiones legislativas del Diputado Federal C. Edén Garcés Medina.

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TLÁHUAC, CDMX. – Agenda 2030 Reporting Agreement with Red RIESS [19].



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SE IMPARTE EL TALLER PARA SISTEMATIZACIÓN DE PROYECTOS E INNOVACIONES EN ECONOMÍA SOCIAL Y SOLIDARIA Y AGENDA 2030



19 de febrero de 2025

Como parte de las actividades del NODESS Centiliztli y de la Maestría en Economía Social y Solidaria del Instituto Tecnológico de Tláhuac III, se llevó a cabo el Taller para Sistematización de Proyectos e Innovaciones en Economía Social y Solidaria, impartido por el Dr. **Rodolfo Martínez Gutiérrez**, Líder del Cuerpo Académico Competitividad Sectorial, Innovación Social y Desarrollo Sostenible del Instituto Tecnológico de Tijuana.



Este taller es una pieza clave para el desarrollo profesional continuo de nuestro profesorado, beneficiando directamente a las maestrías en Educación, Matemática Educativa, Enseñanza de las Ciencias Básicas y Tecnologías de la Información, con un enfoque especial en la Maestría en Economía Social y Solidaria. Durante la sesión, se fortalecieron conocimientos y habilidades en innovación social y desarrollo sostenible, además de fomentar una mayor colaboración académica y la generación de contribuciones científicas a través de publicaciones, propiedad intelectual y vínculos comunitarios.



CENTER of México

GUADALAJARA, JAL. – Agreement with CIATEJ and the University of Guadalajara for SECIHTI's research project with Red RIESS



ZITÁCUARO, MICH. – Conference on the 2030 Agenda and RIESS Network at the TecNM Research Congress.



SAN LUIS POTOSÍ, SLP. – Agreement for the Voluntary Subnational Report of the San Luis Potosí City Council with TecNM San Luis Potosí and RIESS Network.



CENTER of México

COLIMA, COL. – Agreement for the Voluntary Subnational Report of the City of Colima with TecNM and RIESS Network [20, 21].



QUERÉTARO, QRO. – Agreement for Voluntary Subnational Reports (VSI) with an alliance between CIIDET of TecNM and RIESS Network TecNM Tijuana [22].



QUERÉTARO, QRO. – Agreement for Voluntary Subnational Reports (VSI) with an alliance between CIIDET of TecNM and Red RIESS TecNM Tijuana [22].



SOUTH of México

ÚRSULO GALVÁN, VER. – Agreement for the Voluntary Subnational Report of the Úrsulo Galván City Council with TecNM Úrsulo Galván and Red RIESS [23, 24].



TLAXIACO, OAX. – Acuerdo para Informe Subnacional Voluntario de Ayuntamiento de Tlaxiaco con TecNM Tlaxiaco y Red RIESS [25, 26].



VILLAHERMOSA, TAB. – Reunión regional de la Red RIESS Zona Sur [27].



4. CONCLUSIONS AND REFLECTIONS

The NODESS Tijuana Program has become a Social and Solidarity Economy Research Network (RIESS Network) with systemic linkage at the national level with different actors in society, the RIESS Network has defined strategic objectives for its operation:

1. Strengthen research on social and solidarity economy issues.
2. To consolidate graduate programs within the TecNM linked to this area.

3. Generate projects with a social impact, promoting cooperative, community and sustainable economic models.
4. Linking researchers from different regions of the country (North, Central, and South) to create a collaborative academic ecosystem.
5. Strengthening Lines of Generation and Application of Knowledge (LGAC).

The RIESS Network is characterized by promoting and promoting the following principles:

1. Academic: Promotes collaboration among researchers and strengthens scientific production.
2. Social: Promotes projects that seek to improve the quality of life through solidarity economy models.
3. Institutional: Reinforces the role of TecNM as a leader in research applied to social and economic problems.

REFERENCES

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Instalará TecNM Tijuana primer NODESS en la región Frontera Norte <https://www.tecnm.mx/?vista=noticia&id=2861>

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