
Observatory of Social and Solidarity Economy, NODESS, SDGs, and Research Networks

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ABSTRACT

The project that is being carried out by the Mexico 2030 Agenda Initiative's Municipal Observatory of Competencies for the SDGs, is a research initiative through the RIESS Network, a nationwide category of the TecNM, which conducts research on the economy and social solidarity, which contemplates the development of the diagnosis and training of Students and Professors of Education at the high school level about the Sustainable Development Goals (SDGs), as a strategy to encourage the development of research project initiatives and methodological skills; as well as to propose the bases of a model for the development of the Voluntary SDG Reports at the city level, and the variables of a Municipal Observatory of SDG Competencies of the Mexico 2030 Agenda. With the application of QHS methodology, management is promoted to achieve the skills, management and productivity of the desirable profile of Professors and Researchers, the consolidation of the Academic Bodies, through collaborative work in Network, achieving the impact and benefit on Higher Education Students, training of new cadres for generational replacement of Teachers, new Researchers, consolidating the capacities of Research, Teaching, Technological Development, and Innovation with Social Responsibility.

Keywords: Agenda 2030, SDG, RIESS network, ESS observatory, QHS methodology

INTRODUCTION

Since the 2030 Agenda was put into action in 2015 by the United Nations, sustainable development in all its facets—social, economic, and environmental—has been actively promoted. According to SDG 4 of the 2030 Agenda (Martinez et al., 2024), all parties must take certain steps in this direction to guarantee that everyone has access to high-quality education and to encourage opportunities for continuous learning throughout life. To accomplish this objective, several participants were involved and are required to ensure that all individuals have equitable access to superior technological, vocational, and higher education, including formal education at universities. Consequently, gender gaps in education must be eradicated, and equitable

access to all educational and vocational training levels for marginalized individuals, including persons with disabilities, indigenous populations, and children in precarious circumstances, must be guaranteed. On March 6, 2024, the national category authorization record of the Social Economy Research Network was granted by the National Technological Institute of Mexico.

This award was issued by the Directorate of Postgraduate, Research, and Innovation in Mexico City. The RIESS Network (TecNM Cd. Juárez, 2024) has Researchers from North, Central and South Mexico, (see Figure 1, national structure of the RIESS Network) 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 from the TecNM Tijuana Campus (Northern Region 1), includes NODESS Tijuana (TecNM Tijuana, 2022).



Figure 1: RIESS research network in Mexico.

RESEARCH MATERIAL AND METHODS

There are components of the Mexico 2030 Agenda, as well as the Social and Solidarity Economy Projects Observatory of NODESS and the RIESS Network of TecNM (see to Table 1 for more information). A web page (RIESS Network, 2024) will document the traceability of actions undertaken, identify areas for improvement, and highlight gaps to encourage collaboration among all societal representatives in strengthening

the ecosystems that foster local development and prosperity, while seeking contributions from academia and support from local government. The RIESS Network (TecNM Huatabampo, 2024) meetings resulted in the establishment of a Strategic Plan for the Network's three-year validity (Martinez et al., 2021, 2022). Working commissions will establish products for the remaining members through a series of meeting activities to establish lines of action for Human Resources Training, Professional Residencies, Social Service, Local, regional, national, and international liaison. In the same vein, the development of research projects, undergraduate and postgraduate theses.

Integrating the activities of the National Network of Social and Solidarity Economy Development Nodess (SINCA, 2022), the mechanisms for analysing and promoting the research lines of academic bodies, and the training and updating of educators and researchers with ties to different parts of society, this group considers interventional methodological tools like the Fifth Systemic Helix (QHS) and includes government officials, academics, business owners, organization leaders, and consultants (Martinez, 2024).

Table 1. QHS methodology strategies for environmental culture and SDGs.

Sectoral Approach	Description of Activities
Formation of the expert groups	Assessment and instruction in essential competencies for higher education students and teachers in relation to the social and solidarity economy and the initiatives via means of community service initiatives, towards achieving the SDGs outlined in the 2030 Agenda for Sustainable Development.
Qualitative and quantitative analysis	Conducting in-depth interviews with the group of experts and utilizing the instruments used to generate statistical data mining to validate the approaches to proposed variables.
Treatment of research results	Discourse analysis up to the correlation of variables, generating the construction of a database that will contribute to the state of the art, of statistical trends in the subject under research. To develop the Analysis, to provide voluntary reports at the local level of the advancements that have been achieved in the direction of the Sustainable Development Goals (SDGs), a methodology proposal is now being assessed and developed.
Methodological proposal for intervention of the RIESS Network	A Subnational Report at the City Level will be generated by the Roadmap, which will contribute to the design of the Utility Model for the management of Hard Data from the various sources of official information, the results of Municipal Development Plans, and the linkage of the different sectors of society, including Government, Academia, Companies, Associations - Chambers, and Research Consultants, all with the common goal of local development, as well as the development of the region and the nation.

The RIESS National Research Network has a work plan that includes intervention methodologies in various sectors of society, such as the NODESS

(Social and Solidarity Economy Development Nodes) that are integrated in a tripartite manner. This plan includes a representative from the Academy, Local Government, and Social Sector, who are responsible for identifying the needs of the territory (TecNM CIIDET, 2024), the contexts of social development ecosystems, in terms of the examination of sectoral ecosystems in the diverse regions of the national territory. The aim of this research is to ascertain optimal practices for advancing the Sustainable Social Economy in accordance with the national development plan's objectives to mitigate existing social inequality in Tijuana, Baja California. Additionally, it seeks to establish an observatory for the social economy that can delineate objectives for the sustainable development outlined in the 2030 agenda. Consequently, it is imperative to accurately understand the requirements of business operations and the representatives of the social, solidarity, and inclusive economy that can create developmental opportunities. It is essential to examine the intentions to collaborate cohesively among government entities, academic institutions, the social sector, civil society leaders, and the residents of Tijuana, Baja California, following a systematic development framework in alignment with the SDG Agenda. INEGI (2020) reports that Tijuana hosts 57,000 SMEs that need project execution for their support and advancement; also, the city has over 130 notable attributes, some recognized globally and others nationally. This research employs a quantitative methodology with a descriptive scope, utilizing documentary analysis to substantiate the theoretical framework, complemented by in-depth interviews with experts possessing best practices in the social economy sector. Additionally, a questionnaire is administered to a representative sample of SMEs to ascertain the relationship between critical factors influencing the degree of sustainable social economy implementation (TecNM Cd. Constitución, 2024). The results will give crucial information that could be useful for an initiative to set up NODESS, or All-around Mexico, there are nodes that are dedicated to the promotion of the social and solidarity economy. particularly with the help of the researchers from each of the RIESS there are networks throughout the state of Mexico's north, middle, and south (TecNM Agua Prieta, 2024).

CONCLUSION

It is essential to establish a methodical, interdisciplinary team that incorporates all parts of society to pinpoint the challenges that a nation, state, or city has in achieving the SDGs. The leadership and initiative of a National or Subnational Voluntary Report brings together resources, skills, and determination to address the threats and opportunities posed by green growth and decline, which affect sustainable development in both urban and rural areas. In the VNR, the academic community and government officials work together to bring together all parts of society, including businesses, groups, researchers, and civil society, to create an inclusive space where no one is left behind. Since this is a societally relevant issue, the 2030 Agenda provides a platform for thought and action on each SDG. This research project aims to analyze the factors influencing the level of visibility and evolution of the UN 2030 Sustainable Development Goals (SDGs). It will use

a descriptive scope and rely on documentary analysis to support its theoretical framework. In Baja California, small and medium-sized enterprises (SMEs) are working toward and implementing Circular Economy goals while also engaging in social economy and innovation initiatives. The Tijuana Campus of Mexico's National Technological Institute connects the public, through the SSE Observatory (web page), research projects and SDG actions, as a strategy for dissemination and linking academia with society in general, that serves as a database for references and industry input. It aids in detecting and evaluating the temporal changes in the SDGs, facilitating the development of opportunities, programs, and actions; assessing the essential factors that promote social innovation and sectoral integration for the benefit of society and all educational levels; and enhancing the capabilities of future generations (TecNM Mexicali, 2024).

Recommendations

The global education sector has considerable challenges in cultivating global awareness among students, especially in articulating the need of environmental protection as a societal responsibility to future generations. Therefore, SGD 4 of the 2030 objectives is a crucial catalyst for getting students at all levels involved in projects that conserve resources and foster empathy for health, sports, and well-being as cornerstones of community improvement. Academic approaches and research are just as important as conceptual understanding when it comes to managing knowledge about sustainable development.

This research aims to identify the key elements within municipal governments in Mexico that represent significant areas of opportunity. A strategic emphasis on these factors might improve their efficacy in executing constitutional duties, advancing public policies that reflect the reality of their constituents and localities, and integrating actions and pledges from both national and global agendas. This strategy would provide a more proactive engagement in the international arena, sharing beneficial experiences from their institutional endeavors. The involvement of the Municipal Government in research projects fosters essential initiatives that enhance management, local development, and benefit communities and their ecosystems for social advancement.

This method also highlights the critical components inside Mexican local administrations that provide the most substantial areas of potential. The execution of this strategic focus would enhance performance in fulfilling constitutional duties, advancing public policies that reflect the realities of residents and their communities, and integrating actions and commitments stemming from national and global agendas. Furthermore, the study will enhance the successful experiences acquired via its institutional actions, therefore assuming a more proactive position in the international arena.

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