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Questions

1. Name of Proponent(s)*:

Selma Clara de Lima

2. Country(ies)*:

Brazil

3. Title of Proposal*:

Testing a Practical Matching Tool for Industrial Symbiosis: A Pilot Project for Knowledge Transfer within ISIE

4. * WHAT IS THE CENTRAL IDEA OF THE PROPOSAL?

his proposal aims to test and systematize a practical matching tool for industrial symbiosis, based on the characterization of industrial residues and the identification of potential receiving sectors. The project will be implemented as a pilot in the metallurgy sector, using primary data collected in the industrial districts of Civit I and II, located in the state of Espírito Santo, southeastern Brazil, combined with technical compatibility criteria.

The initiative focuses on developing a structured and replicable methodology to support the practical application of industrial ecology, which is still not widely implemented using real data from industrial districts and clusters. The tool will enable the identification of potential synergies between waste-generating and waste-consuming sectors, contributing to resource efficiency and circular economy strategies.

The project includes the application of the method, analysis of results, and refinement of matching criteria. Outputs will include a short technical report, a practical methodological guide, and an online dissemination activity for ISIE members.

The central idea is to bridge the gap between theory and practice by providing a low-cost, accessible, and transferable tool for researchers, practitioners, and policymakers.

5. * WHAT IS THE BENEFIT TO THE SOCIETY AND MEMBERS?

This proposal provides direct benefits to ISIE members by offering a practical and replicable tool to support the implementation of industrial symbiosis, particularly in developing countries. It contributes to strengthening applied industrial ecology by translating theoretical concepts into usable methodologies.

Members will gain access to a structured matching framework that can be adapted to different sectors and regions, supporting research, professional practice, and policy development. The project also promotes knowledge dissemination through a practical guide and an online event, fostering engagement within the ISIE community.

Additionally, the initiative supports ISIE's mission by encouraging collaboration, capacity building, and the advancement of circular economy practices at a global scale.

This project contributes to strengthening industrial ecology applications in emerging economies, expanding ISIE's global impact

6. * WHO WOULD GOVERN OR OPERATE THE PROPOSAL?

The proposal will be led and implemented by the proponent, Selma [Last Name], an ISIE member with a Master's degree and professional experience in industrial waste management and industrial symbiosis.

The project will be managed independently, with possible support from external collaborators for specific technical tasks or dissemination activities.

Governance will follow a simple structure, with the proponent responsible for coordination, methodological development, implementation, and delivery of outputs, ensuring alignment with ISIE objectives.

7. * WHAT RESOURCES ARE AVAILABLE TO SUPPORT THE PROPOSAL (e.g. Administrative, Financial, personnel)

The proposal is primarily based on the proponent's technical expertise and accumulated knowledge in industrial ecology and waste management. The project will rely on primary data collection, including technical visits and structured interviews.

Available resources include analytical tools, existing methodological frameworks, and professional experience in developing applied solutions for resource management.

The requested funding will support the proponent's working time, technical assistance for data collection, travel and technical visits, and dissemination activities involving selected industries.

The project's simple structure enables efficient implementation at low cost.

8. * IS THIS PROPOSAL DEFINED WITHIN A SINGLE ISIE SECTION OR ACROSS SECTIONS?

This proposal is relevant across multiple ISIE sections, particularly those related to industrial symbiosis, circular economy, and applied industrial ecology.

Although the pilot focuses on the metallurgy sector, the methodology is designed to be transferable and adaptable to different sectors and application contexts.

Therefore, the initiative is inherently cross-sectional, supporting knowledge exchange and collaboration among ISIE members with diverse expertise.

9. EVIDENCE OF SUPPORT FOR THE PROPOSAL (FROM WITHIN OR ACROSS SECTIONS OR REGIONS)

This proposal aligns with ongoing discussions within the industrial ecology community regarding the need for practical tools to support the implementation of industrial symbiosis. There is increasing recognition of the gap between academic research and real-world application.

The proposed approach directly addresses this need by offering a structured and accessible methodology. Similar approaches have been discussed in ISIE conferences and working groups, indicating relevance and interest among members.

Furthermore, the focus on low-cost and replicable solutions is particularly relevant for emerging and developing contexts, expanding the global applicability of ISIE initiatives.

Although submitted independently, the proposal is conceptually aligned with the collective interest of the local industrial community in Civit I and II in strengthening applied industrial ecology practices

10. IF ISIE MEMBER FOR <2 YEARS, PROVIDE NAME OF SUPPORTING ISIE BOARD MEMBER OR SECTION LEADER

Koichi S. Kanaoka

11. APPROXIMATE BUDGET IF APPLICABLE (Financial estimates and explanations)

The total requested budget is €1,250.

The budget will be used efficiently and strategically, prioritizing activities directly related to the development, application, and dissemination of the matching tool for industrial symbiosis.

Most resources will support the proponent's technical work, including methodological development, pilot implementation, and result systematization.

Part of the budget will support technical visits for data validation, analysis of material flows, and identification of industrial symbiosis opportunities.

Additional resources may support technical assistance for data collection, computational support for data processing, and the preparation of final materials to ensure professional and replicable outputs

12. OTHER

This proposal emphasizes the importance of bridging the gap between theory and practice in industrial ecology. By focusing on a practical and replicable tool, the project aims to contribute to the broader adoption of industrial symbiosis strategies.

The initiative also highlights the importance of developing accessible solutions for different contexts, including regions with limited resources.

The results may serve as a foundation for future collaborations, expanded applications, or larger-scale initiatives within ISIE, reinforcing the Society's role in promoting practical and impactful approaches in industrial ecology