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**Línea de investigación:**

Estudios en Ciencia, Tecnología e Innovación.

**Grupo de investigación:**

Grupo de Estudios Contemporáneos en Gestión de Organizaciones – GECGO.

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**Formación académica:**

- PhD in Model Based Public Planning, Policy Design, and Management, Università Degli Studi di Palermo (Italia).
- Doctor en Modelado de Política y Gestión Pública, Universidad Jorge Tadeo Lozano (Colombia).
- Magister en Ingeniería Industrial, Universidad Distrital Francisco José de Caldas (Colombia).
- Especialista en Ciencia de Datos y Analítica, UNAD (Colombia).
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## Publicaciones destacadas:

### Artículos:

- Calderón, J., Bell, G., **Herrera, M. M.**, Sato, C. (2024). Project management and system dynamics modelling: time to connect with innovation and sustainability. *System Research and Behavioural Science*, 41 (4), 497-514. Scopus Q1. <https://doi.org/10.1002/sres.2926>.
- Zapata, S., Uriona Maldonado, M. & **Herrera, M. M.** (2024). Role of renewable energy policy and R&D in renewables diffusion. *Electricity*, 5 (3), 526-545. Scopus Q2. <https://doi.org/10.3390/electricity5030026>.
- Leusin, M. E., Maldonado, M. U., & **Herrera, M. M.** (2024). Exploring the influence of Brazilian project cancellation mechanisms on new wind power generation. *Renewable Energy*, 221, 119755. Scopus Q1. <https://doi.org/10.1016/j.renene.2023.119755>.
- Becerra-Fernandez, M., Romero, O., Trujillo-Diaz, J. & **Herrera, M. M.** (2024). Assignment-simulation model forklifts in distribution centre with aisle constraints. *Simulation Modelling Practice and Theory*, 133, 102902. Scopus Q1. <https://doi.org/10.1016/j.simpat.2024.102902>.
- Zapata, S., Castaneda, M., **Herrera, M. M.**, & Dyer, I. (2023). Investigating the concurrence of transmission grid expansion and the dissemination of renewables. *Energy*, 276, 127571. Scopus Q1. <https://doi.org/10.1016/j.energy.2023.127571>.
- Castañeda, M., **Herrera, M. M.** & Méndez-Morales, A. (2023). A simulation-based approach for assessing the innovation barriers in the manufacturing firms. *Technology in Society*, 75, 102391. Scopus Q1. <https://doi.org/10.1016/j.techsoc.2023.102391>.
- Méndez-Morales, A., Cuellar, S. & **Herrera, M. M.** (2022). A Novel Quality Index for Latin-American Inventions. *World Patent Information*, 71, 102154. Scopus Q1. <https://doi.org/10.1016/j.wpi.2022.102154>.
- **Herrera, M. M.** & Trujillo-Díaz, J. (2022). Towards a strategic innovation framework to support supply chain performance. *International Journal of Productivity and Performance Management*. Scopus Q1. <https://doi.org/10.1108/IJPPM-03-2020-0131>.
- Calderon-Tellez, J. A., & **Herrera, M. M.** (2021). Appraising the impact of air transport on the environment: Lessons from the COVID-19 pandemic. *Transportation research interdisciplinary perspectives*, 10, 100351. Scopus Q1. <https://doi.org/10.1016/j.trip.2021.100351>.



- **Herrera, M. M.**, Dyner, I., & Cosenz, F. (2020). Benefits from energy policy synchronisation of Brazil's North-Northeast interconnection. *Renewable Energy*, 162, 427-437. Scopus Q1. <https://doi.org/10.1016/j.renene.2020.08.056>.
- **Herrera, M. M.**, Dyner, I., & Cosenz, F. (2019). Assessing the effect of transmission constraints on wind power expansion in northeast Brazil. *Utilities Policy*, 59, 100924. Scopus Q1. <https://doi.org/10.1016/j.iup.2019.05.010>.
- **Herrera, M. M.**, Cosenz, F., & Dyner, I. (2019). How to support energy policy coordination? Findings from the Brazilian wind industry. *The Electricity Journal*, 32(8), 106636. Scopus Q1. <https://doi.org/10.1016/j.tej.2019.106636>.

#### Capítulos de libros:

- **Herrera, M. M.** (2023). Dynamic Business Modelling for Sustainability Transitions in the Electricity Industry. In *Business Model Innovation for Energy Transition: A Path Forward Towards Sustainability* (pp. 1-19). Cham: Springer International Publishing. Scopus Q2.
- **Herrera, M. M.**, Cosenz, F. & Dyner, I. (2020). Blending Collaborative Governance and Dynamic Performance Management to Foster Policy Coordination in Renewable Energy Supply Chains. In: *Enabling Collaborative Governance through Systems Modelling Methods*, Springer Nature. [https://doi.org/10.1007/978-3-030-42970-6\\_11](https://doi.org/10.1007/978-3-030-42970-6_11).
- **Herrera, M. M.**, Dyner, I. & Cosenz, F. (2018). Alternative energy policy for mitigating the asynchrony of the wind-power industry's supply chain in Brazil. Understanding complex systems. In: *Innovative solutions for sustainable supply chains*, Springer. [https://doi.org/10.1007/978-3-319-94322-0\\_8](https://doi.org/10.1007/978-3-319-94322-0_8).
- **Herrera, M.M.**, Uriona, M. & Dyner, I. (2020). Modelling the wind supply chain to reduce emissions: How could affect transmission congestion. Lecture Notes in Energy. In: *Dynamics of Energy, Environment and Economy*, Springer. [https://doi.org/10.1007/978-3-030-43578-3\\_9](https://doi.org/10.1007/978-3-030-43578-3_9).

#### Proyectos de investigación:

Código del Proyecto	Título del Proyecto	Inicio	Finalización
IMP ECO 3911	Incidencia de los flujos poblacionales Sur-Sur en la sustentabilidad: La conexión entre la seguridad energética y alimentaria de los migrantes en Latinoamérica.	2024	2026



IMP ECO 3402	Diseño de un indicador para las tecnologías verdes en Latinoamérica.	2021	2023
092-2020	Rediseño y modelado para la red de distribución logística en la Región Central.	2020	2021
IMP ECO 3008	Modelo de gestión de conocimiento para incrementar la competitividad en la cadena de suministro porcina.	2019	2020

**Redes de investigación:**

- System Dynamics Society: <https://systemdynamics.org>