CURRICULUM VITAE - MANUEL HERRADOR MUÑOZ, PHD ENG.

AI, Digital & Sustainability Strategist · R&D&I Advisor & PMO · **NeurIPS** Top Reviewer · **PLOS ONE** Editor

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SUMMARY

- ***R&D Strategist: advising industry on AI*** *(GitHub, 180+ stars)****, digital, circular economy & smart city transformation.***
- ***Multidisciplinary Researcher:*** *40+ first-author works (ORCID), wide network, 2 patents &* ***PLOS ONE Editor*** *role (interview).*
- ***Fundraiser & PMO:*** *led consortia to* ***€200M+*** *in R&D funding (e.g., Horizon Europe, EIC, EDF) across the* ***EU, ASEAN & Japan****.*

EXPERIENCE

2021 - **Present**	**Senior R&D&I Consultant & PMO (AI, Digital, Automotive, Policy, Green, Energy, Data Center, Defense). EPSA. May 2021 - present** ➔ Lead Multidisciplinary consortia strategy and proposal development, from concept to execution across the EU, ASEAN and Japan. ➔ Advise industrial and research consortia on international R&D programs (e.g., Horizon Europe, CEF, DEP, EDF, EIC, IPCEI, NEDO). ➔ Examples of awarded projects (**€200M+ raised**): *IPCEI-CIS*, *2DNeuralvision*, *Healing Bat*, *Bertha*, *Eugenia*, *Neuraltrust*, *JPNP20005*.
2012 - 2021	**Director** of the **"Smart City Jaen"** project. University and Municipality of Jaen (Spain). **February 2012 - April 2021** ➔ Executed multi-country innovation initiatives on AI, digitalization, circular economy and ESG - from strategy to patented prototypes.
2019	• **Post-doc Researcher. Research on the Circular Economy of Korea.** Seoul National University (SNU) / Korea Foundation. Leading to a book, article 1 & article 2 in the **Journal of Cleaner Production & STOTEN**, interview. Seoul (South Korea)
2018 - 2019	• **Post-doc Researcher. Project titled "well-being in Smart Cities".** Open Universiteit. Project development related to IoT, Apps, and GEMA (GEMAnIoT). Horizon 2020 proposal development & consortium management. Heerlen (the Netherlands)
2017 - 2018	• **Erasmus Mundus Post-doc Researcher.** IMPAKT Asia project, National Economics University (NEU). Conducted Field Research on the Circular Economy of Vietnam to build a public/private Network. EU Commission. Hanoi (Vietnam)
2016 - 2017	• **Erasmus Mundus Post-doc Researcher** & **Visiting Prof. (proof).** Eureka SD project. UNMdP. Head of the "Smart City Mar del Plata" project. Teaching Circular Economy, and launch of a Smart City project. EU Commission. Mar del Plata (Argentina)
2016	• **MINERVA Fellow. Visiting Researcher.** EU-Japan Centre for Industrial Cooperation. Research and Policy Analysis on Microalgae and Circular Economy, building a Network, and leading to a book. EU Commission – METI. Tokyo (Japan)
2010 - 2011	**Analyst.** Teaching University candidates, project development, and general digital and ESG consultancy. Prodatisa S.L. Jaen (Spain)
2009	**Internship as a Consultant.** Leonardo da Vinci Internship programme. EU Commission. Link Consulting. Lisbon (Portugal)
2009 - 2011	**Internet Assessor.** Google links evaluator using the Google's online EWOQ platform. Lionbridge Inc. (online)

EDUCATION

2025	**AI Product Manager - Prof. Certificate** (verify) — **GenAI Leader - Prof. Certificate** (verify)
2020	**PRINCE2 AGILE®** by AXELOS (verify) — **ITIL® version 4** by AXELOS (verify)
2012-2015	**PhD Eng. in ICT.** International Mention Award and "A" grade (Thesis). UJA (Spain) & INESC TEC Porto. (Portugal)
2011	**Executive MBA (EMBA).** Camilo Jose Cela University / Bureau Veritas Business School. (Spain)
2009 - 2010	**Official Master in Technology of Photovoltaic Systems.** International University of Andalusia (UNIA). (Spain)
2002-2008	**Computer Science (BSc. Engineering + MSc. Engineering).** Thesis titled: "Internet Services Oriented to Business". UJA. (Spain)

LANGUAGES

ENGLISH	**Fluent.** C2/proficient level. Official Diploma by the Oxford House College (during a stay in England). "Superior level" at the UIMP (Spain)
JAPANESE	日本語能力試験 (Official **JLPT N5**. studying toward N3) Japanese Language Proficiency Test. Ebisu Language School. Tokyo (Japan)
PORTUGUESE	Official **B1** level. Centro de Línguas Intergarve (Lisbon) plus 8 months between Lisbon and Porto (Portugal)
GERMAN	Official **A1** level. Escuela Oficial de Idiomas (EOI). Jaen (Spain)
SPANISH	**Native** (**C2**)

Patent P201331555 / prototype (70% owned)	Patent P201730541 / prototype (51% owned)
Comms-less station for EVs based on QR codes↓	**Static/in-motion CO_2 reduction for vehicles↓**
Project video (here) and **Exhibition** at the "Bioptima 2014", Jaen (Spain) (here) **Article:** Herrador, M.; Carvalho, A.; Feito, F. "An Incentive-Based Solution of Sustainable Mobility for Economic Growth and CO2 Emissions Reduction", **Sustainability**, MDPI, 2015, 7, 6119-6148 (here) **Exhibition** at the University of Tokyo (Japan) and the NEDO Headquarters (here)	**"CO_2CX"** project (here), video (here), and summary (here) **Exhibition** at the "Green Cities 2019", Malaga (Spain) (here) **Exhibition** at the "Smart City Summit 18", Taipei (here, page 3) **Poster:** "Algaeurope 2018", Amsterdam (here) **Poster:** "WCCE10 2017", Barcelona (here)

GRANTS & AWARDS

2024 - Present	**Academic Editor. PLOS ONE Editorial Board.** A Multidisciplinary Q1 journal with an **h-index of 500** (verify) – [interview]
Present	**AI Open-Source recognition with 190+ stars on GitHub** notably the "**Quansloth**" repository
2020 / 2022	**x2 Awards for a paper in Science of the Total Environment & a paper in Journal of Cleaner Production.** Korea Foundation
2019	**Grant for the 'Field Research Fellowship' post-doc (Seoul, South Korea). 6 months.** Korea Foundation / Seoul National Univ.
2018 - 2019	**Grant for 'Well-being in Smart Cities' post-doc (Heerlen, Netherlands). 6 months.** Open Universiteit
2018	**Award for the CDTI Technological Mission in Taiwan.** Taipei Smart City Summit and Expo, by the CDTI, DoIT & MoEA (Ministry of Economic Affairs) in Taipei, 26th/30th March 2018. CDTI
2017 - 2018	**Grant for Impakt ASIA post-doc (Hanoi, Vietnam), 8 months.** EU Commission ("Erasmus Mundus" postdoc)
2017	**Award for the First Club of Rome Summer Academy 2017 (Florence, Italy), 1 week.** The Club of Rome Think Tank
2016 - 2017	**Grant for Eureka SD post-doc (Mar del Plata, Argentina), 6 months.** EU Commission ("Erasmus Mundus" postdoc)
2014 / 2017	**x2 Grants to develop patents and photobioreactor and electro-mobility prototypes.** UJA
2016	**MINERVA Fellowship (Tokyo, Japan), 6 months.** EU-Japan Centre for Industrial Cooperation, EU Commission - METI
2015	**Award for the CDTI Technological Mission in Japan.** 5th CDTI-NEDO Joint Workshop JSIP programme for the automotive industry at the University of Tokyo, and NEDO in Kawasaki, the 22nd/23rd of October. CDTI - NEDO
2009 - 2010	**Grant for Official Master in Photovoltaics.** MEC (Spanish Ministry of Education and Culture). UNIA
2009	**Grant for Internship abroad at Link, 5 months.** Leonardo da Vinci progr. in Lisbon (Portugal). EU Commission - IMEFE
2008	**Grant of English immersion course in Santander at the UIMP University (Spain), 1 week.** Superior level. UIMP
2008	**Grant for improving English. Oxford House College in Oxford (England), 1 month.** MEC
2006 - 2007	**Grant for Erasmus programme at UM University (Maribor, Slovenia), 6 months.** EU Commission - MEC - UJA
2002 - 2008	**x6 Grants for BsC. and MsC. in Computer Science Engineering. UJA (Spain).** MEC

SERVICE & CERTS.

Present	**130+ peer reviews** for 35 scientific journals, e.g., 42 for the Journal of Cleaner Production **(verify ORCID - last section)**
2022 - Present	**EU Expert Evaluator on Circular Economy, Digitalization, and Asia-linked Cooperation.** EU Commission **(EX2022D634221)**
Present	**Google Scholar: My publications have garnered 500+ citations and an h-index of 13 (verify)**
2026	**"Top Reviewer" Award at "NeurIPS 2026", and reviewer for "ICML 2026" - both leading venues in AI and ML (verify)**
2025	**External Reviewer of R&D funding proposals.** Asia-Pacific Network for Global Change Research (APN) Japan **(verify)**
2026	**MDM SaaS Foundation (verify)** and **Cloud Data Governance & Catalog (CDGC) Foundation.** Informatica **(verify)**
2025	**Generative AI for Project Managers - Specialization Course for Project Management.** IBM **(verify)**
2025	**University Teaching - Specialization Course for Innovative Teaching.** The University of Hong Kong **(verify)**
2024	**Administering and Using Responsible Design and Production for the Circular Economy**. SAP Learning **(verify)**
2023	**Prompt Engineering & AI Engineering Safety Expert.** Institute of Management, Technology and Finance (MTF) **(verify)**
2021	**GRI (Global Reporting Initiative) Professional Certification Program "GRI 306: Waste 2020".** The Netherlands **(verify)**
2020	**Sustainable Packaging in a Circular Economy Certificate.** Delft University of Technology (TU Delft) **(verify)**
2020	**Private Financing for Infrastructure and Sustainable Growth Certificate** Keio University (Japan) and the ADB **(verify)**
2020	**Monitoring and Evaluation (M&E).** Certificate Program. Johns Hopkins Bloomberg (USA) and USAID **(verify)**
2017	**Circular Economy: An Introduction Certificate.** Delft University of Technology (TU Delft) & Ellen MacArthur Found. **(verify)**
2015	**SCRUM Fundamentals Certificate.** SCRUMstudy **(verify)**
2012	**Solid Edge Specialist Certificate.** Junta of Andalusia, 150 hours **(verify)**
2007	**Certificate of Pedagogical Aptitude (CAP) to become an Official University Lecturer.** UJA **(verify)**
2006	**Cybersecurity Certificate**. Junta of Andalusia, 300 hours **(verify)**

Consulted on: policy drafting, project management, scientific writing, grant fundraising, digital strategy, and advanced ICT (AI, IoT, Cloud, GIS & Linux)

Additional Info: driving license (B); professional experience in 8 countries; swimmer; amateur chef; futsal goalkeeper; non-smoker; **2-week notice period**

→ **PERSONAL NETWORK: Partner** of Circle Design Co. Ltd. Japan, **Member** of the International Society for the Circular Economy (IS4CE), **Observer** of CHAdeMO Japan, **Member** of European Federation of Biotechnology (EFB), **Member** of European Biotechnology Network (EBN), **Member** of the Association of Spanish Scientists in Japan (ACE Japón), **Member** of the International Association of Hydrological Sciences (IAHS), **Bronze Member** of the International Water Resources Association (IWRA) (others: in).

SCIENTIFIC PRODUCTION SELECTION (40+)

Article: Herrador, M., Claassen, C.H. "Competing to set the rules: regulatory orchestration and firm arbitrage in the EU–ASEAN corridor". **Journal of International Business Policy,** Springer Nature, 2026, https://doi.org/10.1057/s42214-026-00258-6

Article: Herrador, M., Imanishi, M. "A Convergence Framework for Circular Economy: Connecting Japan's Circular Economy and Resource Efficiency Principles (CEREP) with WBCSD's Global Circularity Protocol (GCP) Following COP29". **Sustainable Development**, Wiley, 2026, 34(S1), https://doi.org/10.1002/sd.70630

Article: Herrador, M., Rehberger, J. "SpAIware: Uncovering a Novel Artificial Intelligence Attack Vector Through Persistent Memory in LLM Applications and Agents". **Future Generation Computer Systems**, Elsevier, 2026, 174, 107994, https://doi.org/10.1016/j.future.2025.107994

Article: Herrador, M. "The PacifAIst Benchmark: Do AIs Prioritize Human Survival over Their Own Objectives?". **AI**, MDPI, 2025, 6(10), 256, https://doi.org/10.3390/ai6100256 & preliminary **arXiv:** https://doi.org/10.48550/arXiv.2508.09762 - Repository GitHub - **PacifAIst™ Trademark**

Article: Herrador, M., Margono, R. B., Dewancker, B. "AKI2ALL: Integrating AI and Blockchain for Circular Repurposing of Japan's Akiyas—A Framework and Review". **Buildings**, MDPI, 2025, 15, 2629, https://doi.org/10.3390/buildings15152629 - Selected as Editor's Choice Article (**verify**)

Article: Herrador, M., de Jong, W., Nasu, K., Granrath, L. "RE-HAK: A Novel Refurbish-to-Host Solution Using AI-Driven Blockchain to Advance Circular Economy and Revitalize Japan's Akiyas". **Buildings**, MDPI, 2025, 15, 1883, https://doi.org/10.3390/buildings15111883

Article: Herrador, M., Imanishi, M. "Unlocking the Circular Economy Potential in the Textiles and Fashion Industries of Japan: Opportunities for European Businesses". **Journal of Cleaner Production**, Elsevier, 2025, 144491, https://doi.org/10.1016/j.jclepro.2024.144491

Article: Herrador, M. "A Universal Circular Cities Declaration to Achieve Global Sustainability", **Resources, Conservation & Recycling**, Elsevier, 2024, 107757, https://doi.org/10.1016/j.resconrec.2024.107757

Article: Herrador, M., de Jong, W., Nasu, K., Granrath, L. "Designing a circular cities declaration for Japan building on the European Union's case study", **Journal of Environmental Management**, Elsevier, 2024, 120819, https://doi.org/10.1016/j.jenvman.2024.120819

Article: Herrador, M. "Assessment of the first-ever Circular Economy Framework of Cambodia: barriers, international opportunities, and recommendations". **Journal of Cleaner Production,** Elsevier, 2024, 140778, https://doi.org/10.1016/j.jclepro.2024.140778

Article: Herrador, M., Van, M. L. "Circular Economy Strategies in the ASEAN Region: A Comparative Study". **Science of the Total Environment**, Elsevier, 2024, 168280, https://doi.org/10.1016/j.scitotenv.2023.168280 - 110+ citations

Article: Herrador, M., Dat, T. T., Truong, D. D., Hoa, L. T., Łobacz, K. "The Unique Case Study of Circular Economy in Vietnam Remarking Recycling Craft Villages". **Sage Open**, Sage Publications, 13(3), 2023, https://doi.org/10.1177/21582440231199939

Article: Herrador, M., de Jong, W., Nasu, K., Granrath, L. "The Rising Phenomenon of Circular Cities in Japan. Case Studies of Kamikatsu, Osaki and Kitakyushu", **Science of the Total Environment**, Elsevier, 2023, 165052, https://doi.org/10.1016/j.scitotenv.2023.165052

Article: Herrador, M., de Jong, W., Nasu, K., Granrath, L. "Circular Economy and Zero-Carbon strategies between Japan and South Korea: A comparative study", **Science of the Total Environment**, Elsevier, 2022, 153274, https://doi.org/10.1016/j.scitotenv.2022.153274 - 140+ citations

Article: Herrador, M., Cho, Y., Park, P-H. "Latest Circular Economy policy and direction in the Republic of Korea: room for enhancements", **Journal of Cleaner Production,** Elsevier, 2020, 122336, https://doi.org/10.1016/j.jclepro.2020.122336

Article: Herrador, M., Carvalho, A., Feito, F. "An Incentive-Based Solution of Sustainable Mobility for Economic Growth and CO2 Emissions Reduction", **Sustainability**, MDPI, 2015, 7, 6119-6148, https://doi.org/10.3390/su7056119

Book: Herrador, M. "Circular Economy in Korea-International Cooperation Opportunities with the EU". School of Public Health, Seoul National University (SNU), Univ. of Jaen and the Korea Foundation (KF), Seoul, 2019-2020 / interview, https://doi.org/10.6084/m9.figshare.19087388.v1

Book: Herrador, M. **"**The Microalgae/biomass Industry in Japan. An Assessment of Cooperation and Business Potential with European Companies". EU-Japan Centre for Industrial Cooperation, Tokyo, 2016 (https://doi.org/10.6084/m9.figshare.19087058.v1), and Press note (here)

Chapter of book: Herrador, M. Chapter 5. "Smart Cities and their GIS Applications to Sustainable Mobility", **book** "Aplicaciones en Informática Gráfica y Geomática Vol. 1". ISBN 978-84-606-7812-0 (here)

Presentation in Conference: Łobacz, K., Dąbrowska, N., Jędrzejewska, H., Antos, A., Herrador, M. "Identifying trends and gaps in explaining the role of AI in business models innovations and strategic decision making - A literature review". Intelligent Management and Artificial Intelligence: Trends, Challenges, and Opportunities. **28th EU Conference on Artificial Intelligence ECAI 2025,** Bologna, 25-30/10/2025 https://doi.org/10.18276/978-83-8419-028-9-18

Refereed Conference Proposal: Herrador M. "Unlocking Strategic Value in Japan's Vacant Housing Market: An AI-Enabled Circular Economy Approach to Akiya Property Revitalization". Accepted to the **37th Annual AJBS** Conference 2025. Louisville, 28/06 (here)

Presentation in Conference: Herrador, M., de Jong, W., Nasu, K., Granrath, L. "Towards Circular Cities in Japan". **Sustainable City Summit VOL III Tokyo. SusHi Tech Tokyo 2025,** United Nations University (UNU), Tokyo, Japan, 2025, 09/05 (here)

Presentation in Conference: Herrador M. "Green Alliances and Digital Partnerships between the EU and Japan, South Korea, and Singapore: Unveiling Strategic Business Expansion". **36th Annual AJBS** Conference 2024. Seoul, 2-3/07 (here)

Presentation in Conference: Herrador M. "The Rising Phenomenon of Circular Cities in Japan: A First Approach". **35th Annual AJBS** (Association of Japanese Business Studies) Conference 2023. Warsaw, 5/07 (here)

Presentation in Conference: Herrador M. "New Trends on Smart Cities in Argentina: the use case of Smart City Mar del Plata". **X Simposio Internacional de Ingeniería Industrial: Actualidad y Nuevas Tendencias**, Oberá (Argentina), 27-29 September 2017 (here, page no. 852)

Presentation in Conference: Herrador M., Graciano A., Feito, F.R., Ortega, L. "3D GIS tools for subsoil management". **International Congress on Archaeology, Computer Graphics, Cultural Heritage and Innovation 'Arqueológica 2.0'** in Valencia (Spain), 5 – 7 September 2016 (here)

Presentation in Conference: Herrador, M., Feito, F.R. "Smart City Jaen, actions towards a more sustainable city model and future perspectives"**. II Congreso de Ciudades Inteligentes**. Madrid, 28 June 2016 (here)

Presentation in Conference: Herrador, M., Feito, F.R. "Incentivized electromobility solution based on charging points with QR codes, as a contribution to the Sustainable Development of Jaen". **IV Congreso Internacional Ciudades Creativas**. Madrid, 13-15 January 2016 (here)

Presentation in Conference: Herrador, M., Feito, F.R. "Incentivized electromobility system based on QR codes, as a contribution to sustainable development". **I Congreso de Ciudades Inteligentes**. Madrid, 24-25 May 2015 (here)

Presentation in Conference: Herrador, M., Feito, F.R. "Smart City Jaen, towards a more sustainable city model". **Jornadas Ciudades inteligentes, ciudades sostenibles.** Defensor del Pueblo Andaluz y Cajasol, Sevilla, 29/10/15 (here)