TheSustainImpact®

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2026 ANNUAL VOLUME

International Conferences 2026

BOOK OF ABSTRACTS

April and October 2026

Research across sustainability, innovation and practical impact.

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THE PUBLICATION

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TheSustainImpact®

YEAR

2026

TWO 2026 EDITIONS

APR

14–16 April

Online conference, hosted from Lisbon, Portugal

OCT

15–16 October

Hybrid conference in Carcavelos and research visit at NOVA FCT, Caparica

SCOPE OF THIS VOLUME

Eleven approved abstracts from two distinct conference editions are presented in this combined volume. A further thirty-five papers associated with the April event appeared in a separate journal special issue and are documented bibliographically, without reproducing the full articles.

Official proceedings: publications.thesustainimpact.com/index.php/proceedings

A NOTE ON THE 2026 EDITIONS

Foreword

Sustainability challenges demand more than commitments. They call for research that can inform decisions, innovation responsive to practical needs, and opportunities for people working in different fields to exchange knowledge.

Throughout 2026, TheSustainImpact® brought together two editions of its international conference series. The April and October programmes differed in format and emphasis, but both explored how sustainability ideas can develop through dialogue between academic research and professional practice.

This volume collects eleven approved abstracts covering sustainable education, digital governance, entrepreneurship, engineering, renewable energy, territorial well-being, and the built environment. Each abstract remains associated with its originating conference edition.

The April conference also provided a separate journal publication route for thirty-five papers, recorded in a dedicated bibliographic section. These papers are not reproduced as proceedings abstracts.

TheSustainImpact aims to bring research and practical challenges into closer conversation. We thank the authors, speakers, chairpersons, collaborators, and participants who contributed to the 2026 programmes.

TheSustainImpact®

02	CONFERENCE EDITIONS	11	RESEARCH ABSTRACTS	35	SEPARATE JOURNAL PAPERS

NAVIGATE THE VOLUME

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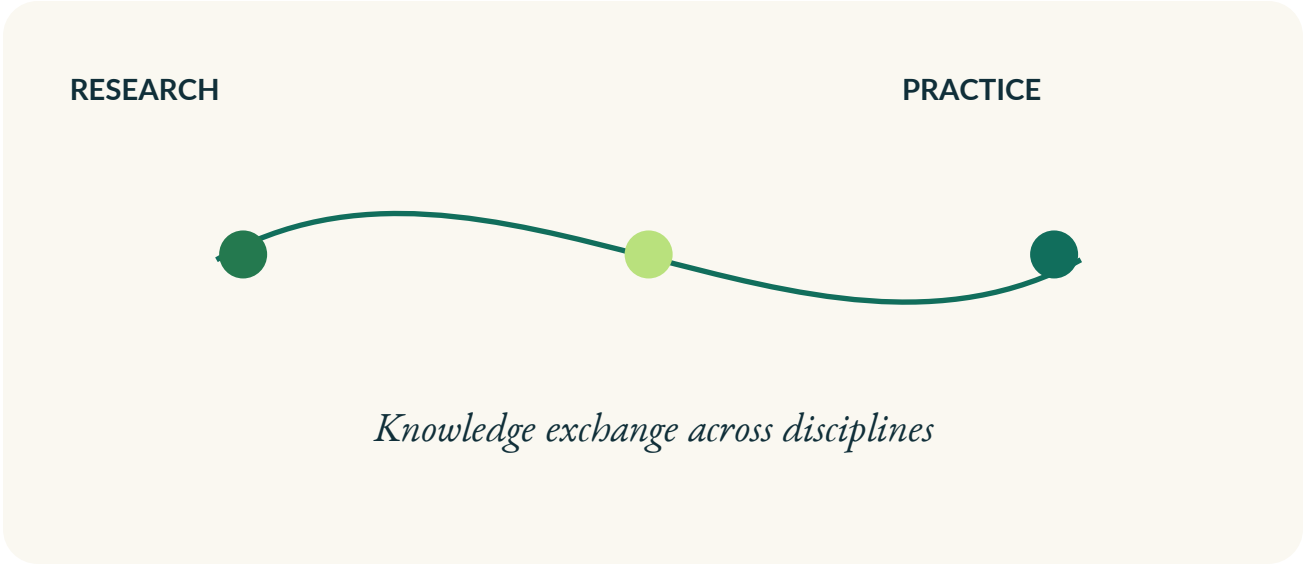
Continuing the Conversation 30

CONNECTING KNOWLEDGE, PRACTICE AND IMPACT

About TheSustainImpact®

TheSustainImpact® is an international platform connecting academic research, professional expertise and practical perspectives around sustainability, innovation and their wider implications for society.

The platform creates opportunities for researchers, businesses, practitioners and institutions to exchange ideas and explore how sustainability objectives can be examined and applied in real settings.



01

CONNECT

Academic knowledge and professional experience.

02

EXCHANGE

Ideas across disciplines and institutional settings.

03

APPLY

Attention to practical relevance and meaningful outcomes.

RESEARCH · PRACTICE · MEASURABLE IMPACT

THE 2026 PROGRAMME

Two Editions, Shared Priorities

The two programmes were distinct in format and content. This volume preserves that distinction while bringing their approved abstracts together as one annual publication record.

APRIL

14–16

APRIL 2026 | ONLINE

Beyond Promises. Toward Proven Sustainability.

Education, innovation and business strategy in the pursuit of measurable sustainability impact.

OCTOBER

15–16

OCTOBER 2026 | HYBRID

Sustainability. Innovation. Measurable Impact.

15 October: Riviera Hotel Carcavelos and online.
16 October: research and innovation visit to UNIDEMI at NOVA FCT, Caparica.

PART I / APRIL 2026

April Conference

Beyond Promises. Toward Proven Sustainability.

14–16 APRIL 2026

ONLINE · HOSTED FROM LISBON, PORTUGAL

Education, innovation and business strategy in the context of sustainable transformation.

APRIL 2026

Themes & Programme

The online programme included invited contributions, academic presentations, panel discussion and publication-related activities. Its stated thematic areas were:

01
Women in Sustainability

02
Sustainable Innovation & Policy

03
Digital Transformation

04
Circular Economy & Emerging Trends

05
Sustainable Business Practices

06
Society 5.0 & Real-World Impact

07
Sustainable Education

08
Hospitality & Tourism

THREE APPROVED ABSTRACTS

Sustainability education / digital public-sector governance / sustainable entrepreneurship

APRIL 2026

Invited Speakers & Contributors

Programme speakers, invited perspectives and conference organisation.



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Conference Organiser, TheSustainImpact®



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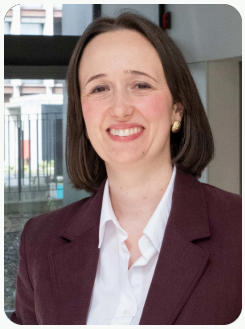
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IPAM Porto, Portugal



Dr. Farima Noravesh

RMIT University, Australia

APRIL 2026

Panel Discussions & Contributors

Discussion contributors and moderators from the April programme.



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Adjunct Professor, ISAG, European Business School, Portugal



Professor Svitlana Sousa Ostapenko

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Co-founder and Growth Strategist



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Researcher in Psychology and Human Development



Assistant Professor Alexandra França

Assistant Professor, Universidade de Vigo, Spain



Verónica Belchior

Impact Hub Lisbon, Portugal

TheSustainImpact® International Conference 2026 | April edition

Sustainability That Sticks: Turning Education into Real-World Impact

Nichole Hugo

Eastern Illinois University, United States

ABSTRACT

Developing impact literacy, which is the ability to design, evaluate, and communicate outcomes across environmental, economic, and socio-cultural dimensions, can help organizations and educators create more meaningful and measurable results. A couple issues occur with this though. The first is that education and impact can be misaligned. Theory that was discussed in the classroom does not always prepare students to implementing sustainable initiatives in the business world. The next is that sustainability initiatives often focus on environmental and economic outcomes because they are easier to measure. This means that social and cultural impacts such as community well-being, cultural preservation, and workforce empowerment are frequently overlooked, even though they can be incredibly important to business success and stakeholder investment.

This research will explore how integrating social and cultural considerations into sustainability initiatives can strengthen outcomes across environmental, economic, and socio-cultural dimensions. By examining approaches in business and community programs around the world, it highlights strategies for creating meaningful and measurable impact. Initiatives that combine capacity building, skills development, and community engagement demonstrate that sustainability efforts can generate social benefits while supporting economic and environmental objectives. Programs in tourism and local enterprises illustrate how training, education, and culturally informed practices help communities preserve heritage, increase local opportunities, and enhance well-being. The research emphasizes that embedding social and cultural outcomes into organizational operations and development programs can lead to more inclusive, accountable, and resilient sustainability strategies.

Developing the skills to assess and communicate outcomes in all three sustainability dimensions enables organizations to move beyond superficial claims and create initiatives that are inclusive, accountable, and impactful. By connecting environmental, economic, and socio-cultural results, businesses and communities can achieve programs that truly make a difference, enhancing the well-being of people while supporting long-term resilience and growth.

Keywords: Sustainability education; Impact literacy; Community engagement; Socio-cultural impact

TheSustainImpact® International Conference 2026 | April edition

Digitally Enabled Governance for Sustainable Public Sector Innovation: Integrating Strategic Agility and Policy Transformation

Aysha Youssef; Sabeen Bhatti

Business School, Teesside University, Middlesbrough, United Kingdom

ABSTRACT

Sustainability challenges increasingly demand that public sector organisations move beyond incremental reforms towards governance models capable of supporting long-term adaptation, social value creation, and sustainable innovation. While digital transformation is widely promoted as an enabler of sustainability, many public organisations struggle to integrate digital initiatives into governance and policy systems in ways that deliver enduring societal and environmental outcomes. This study explores how digital transformation can support sustainable public sector innovation by enabling strategic agility within governance and policy frameworks.

Drawing on the Technology–Organisation–Environment (TOE) framework and informed by sustainability transition theory, complexity theory, and public management literature, the research adopts a qualitative methodology based on semi-structured interviews with senior leaders and strategy practitioners in public sector organisations. Thematic analysis identifies key enablers of digitally enabled sustainable governance, including adaptive policy design, digital-first governance practices, leadership commitment to sustainability objectives, cross-sector collaboration, and the alignment of digital capabilities with long-term strategic and societal goals.

The findings contribute to sustainability and public sector innovation literature by proposing an integrated conceptual framework that positions strategic agility as a critical mechanism linking digital transformation and sustainable innovation in the public sector. Rather than treating sustainability as an add-on to digital reform, the framework conceptualises digital transformation as a systemic governance shift that embeds sustainability principles into decision-making, policy execution, and performance management. Practically, the study offers actionable insights for policymakers and public sector leaders seeking to design digitally enabled governance systems that support resilient, inclusive, and sustainable outcomes in complex and rapidly evolving societal contexts.

Keywords: Sustainability; digital transformation; public sector governance; strategic agility

TheSustainImpact® International Conference 2026 | April edition

Fostering Sustainable Entrepreneurial Intention in Gen Z: The Moderating Role of Government Policy and Mediating Role of Business Opportunity Recognition

York Wei Chung

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ABSTRACT

Despite the heightened environmental consciousness attributed to Generation Z, a critical "intention-action gap" remains regarding their engagement in sustainable entrepreneurship, particularly in emerging economies like Malaysia. While national initiatives such as the Green Technology Master Plan 2017–2030 aim to foster a green economy, the psychological and contextual drivers converting youth environmental values into business ventures remain underexplored. This study addresses this gap by extending the Theory of Planned Behaviour (TPB) to investigate the determinants of Sustainable Entrepreneurial Intention (SEI) among Malaysian Gen Z. The proposed conceptual framework integrates pro-environmental values and entrepreneurial self-efficacy as antecedents, while uniquely examining the mediating role of business opportunity recognition and the moderating effect of government sustainability policies. Adopting a quantitative research design, data was collected via a structured survey targeting Gen Z tertiary students and graduates. The study employs Partial Least Squares Structural Equation Modelling (PLS-SEM) to validate the complex relationships between internal cognitive factors and external institutional support. The anticipated findings aim to provide theoretical contributions to intention modelling and practical insights for policymakers to design youth-centric programs that align government incentives with the values of the next generation of entrepreneurs.

Keywords: Sustainable Entrepreneurship; Generation Z; Theory of Planned Behaviour; Government Policy

APRIL 2026 / AJRESS SPECIAL ISSUE

Additional Journal Publications

PUBLISHED SEPARATELY

35 PAPERS

Asian Journal of Research in Education and Social Sciences (AJRESS), Volume 8, No. 3 (2026), Special Issue. E-ISSN 2682-8502. Publisher: Asian Scholars Network.

The titles below follow the journal's published issue record. These articles are distinct from the eleven abstracts reproduced in this volume.

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APRIL 2026 / AJRESS SPECIAL ISSUE

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PART II / OCTOBER 2026

October Conference

Sustainability. Innovation. Measurable Impact.

15 OCTOBER 2026

RIVIERA HOTEL CARCAVELOS + ONLINE

16 OCTOBER 2026

UNIDEMI, NOVA FCT / CAPARICA

OCTOBER 2026

Programme & Research Visit

The October conference addressed sustainability through technological, institutional, cultural and human dimensions. The programme brought together invited speakers, research contributions, panel discussion and opportunities for exchange.

THURSDAY 15 OCTOBER

Main Conference Day

Riviera Hotel Carcavelos, Lisbon region, Portugal. Hybrid programme with invited perspectives, academic contributions, panel discussion and networking.

FRIDAY 16 OCTOBER

Research and Innovation Visit

UNIDEMI, Research and Development Unit for Mechanical and Industrial Engineering, at NOVA School of Science and Technology, Caparica.

TOPIC AREAS REPRESENTED

Circular manufacturing · responsible finance · energy and engineering · cultural sustainability · education · behaviour change

OCTOBER 2026

Speakers & Conference Team

Conference organisation, chair and invited contributions.



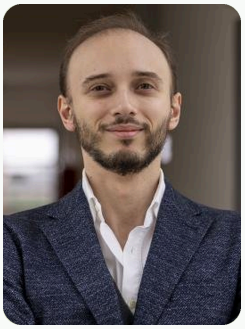
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Dr. Sharareh Shahidi

Conference Chair · Senior Lecturer, Taylor's University, Malaysia



Dr. Radu Godina

Assistant Professor, NOVA University Lisbon, Portugal



Professor Maria Huhmarniemi

Professor and Vice Dean, University of Lapland, Finland



Dr. Marco Bagheri

Adjunct Professor, IPAM Porto; Founder, Values Beyond Time



Diana Chacón

Founder & Managing Partner, Diana Chacón Consulting



Dr. Saeid Lotfian

Senior Lecturer, University of Strathclyde, United Kingdom

OCTOBER 2026

Speakers, Panel & Advisers

Additional presentations, panel contributors and strategic support.



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Engagement Manager, Europe, Science Based Targets initiative (SBTi)



Dr. Angela Tritto

Assistant Professor, Universiti Brunei Darussalam



Dr. Jacqueline Kerr

Behaviour Change and Implementation Science Specialist, Real Change Partner



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Professor & Associate Dean (Research), UNITAR International University, Malaysia



Eloi Guterres

Executive Advisor, Savigen



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Adjunct Professor, ISCAP, Polytechnic of Porto & ISAG, European Business School



Behrooz Lotfian

Strategic Advisor, TheSustainImpact®

TheSustainImpact® International Conference 2026 | October edition

How Teachers' Digital Competencies Support Sustainable Integration of Digital Technologies in the Classroom

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ABSTRACT

As digital technologies have become increasingly pervasive in education, teachers are expected not only to integrate them effectively into classroom practice but also to use them in environmentally sustainable and resource-responsible ways. Understanding the factors that shape teachers' acceptance of sustainability-oriented educational technologies is therefore important for advancing Sustainable Development Goal (SDG) 4 on quality education and SDG 12 on responsible consumption and production. Although the Unified Theory of Acceptance and Use of Technology (UTAUT) has been widely used to explain technology adoption, its explanatory capacity in teacher-centred sustainable education contexts remains underexplored. Therefore, this study proposes to extend UTAUT model by adding sustainability awareness and environmental concern to measure teachers' BI in terms of sustainable educational technologies adoption. Thus, the Hypothesized model proposes that that perceived technology usefulness influences behavioral intention both directly and indirectly through teachers attitude toward sustainability, performance expectancy, effort expectancy, social influence and facilitating conditions. It is also hypothesized that sustainability awareness and environmental concern bring about stronger indirect than direct influences on Behavioral intention via perceptual and attitudinal mechanisms. In the study, it was proposed to use a quantitative research design and structural equation modelling (SEM) for hypothesis testing of survey data sourced from teachers in higher education institutions. Theoretically, the current study expands UTAUT as technology acceptance literature by explicitly integrating sustainability-driven motivations and establishing a context-sensitive explanatory framework that relates teachers technology adoption with achievement of SDG 4 and SDG 12. Practically, the findings are expected to inform professional development strategies and institutional policies aimed at integrating sustainability principles into teaching & learning practices.

Keywords: Sustainable Education; Sustainability Awareness; Behavioral Intention; Technology Adoption

TheSustainImpact® International Conference 2026 | October edition

Incorporating Education for Sustainability into the Construction Law Curriculum

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ABSTRACT

The built environment is responsible for around 40% of the world's total greenhouse gas emissions. Therefore, in terms of sustainable education, built environment and construction law programmes have significant potential for impact both on students and the wider built environment and construction industries. This presentation identifies key areas for the incorporation of sustainability into the construction law curriculum - contract drafting for sustainability, the incorporation of environmental objectives into procurement processes, aspects of environmental law applicable to construction projects and how sustainability issues may feed into or result in construction disputes. It considers the benefits of incorporating this material for both students and the wider built environment and construction industries. The presentation goes on to argue that incorporating sustainability into the construction law curriculum does not require the creation of an entirely new subject or standalone module. The legal issues raised by sustainability relate to areas such as contracts, procurement and dispute resolution, which are already embedded in the core subject matter of construction law. Instead, a reorientation of existing content can be achieved to emphasise the environmental imperatives. The presentation draws on the speaker's experience of developing the module "Global ESG Law and Construction Projects" for the University of Melbourne and incorporating education for sustainability into the MSc Construction Law and Dispute Resolution programme at King's College London, as well as his research in this area.

Keywords: Sustainable Education; Built Environment; Carbon Emissions; Impact

TheSustainImpact® International Conference 2026 | October edition

Artificial Intelligence-Driven Life Cycle and Energy Optimization for Sustainable Manufacturing and Smart City Infrastructure

Muhammad Shafiq

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ABSTRACT

The pursuit of sustainability across industrial and urban systems requires intelligent frameworks capable of jointly addressing energy efficiency, environmental impact, and climate resilience. This study presents an integrated artificial intelligence–driven approach that combines life cycle assessment (LCA) for sustainable manufacturing and remanufacturing with data-driven thermal and energy optimization for smart city infrastructure. The proposed framework leverages machine learning and optimization techniques to support informed decision-making across production and urban energy systems, enabling a holistic evaluation of environmental and operational trade-offs. In the manufacturing domain, AI-assisted life cycle modelling is employed to assess material usage, energy consumption, and emissions across hybrid manufacturing and remanufacturing processes. Intelligent optimization mechanisms are used to identify environmentally favourable process configurations while maintaining production efficiency. Complementarily, for urban infrastructure, machine learning-based thermal modelling is utilized to analyse heat transfer behaviour and energy flows within smart city environments, supporting adaptive energy management strategies that reduce thermal losses and improve overall system efficiency. By unifying life cycle intelligence with climate-aware energy optimization, the proposed approach demonstrates how artificial intelligence can function as a cross-sector enabler for sustainable digital transformation. The framework emphasizes scalability, interpretability, and applicability across diverse industrial and urban contexts, aligning technological innovation with sustainability goals. The findings highlight the potential of AI-driven decision support systems to assist policymakers, engineers, and urban planners in designing resilient, energy-efficient, and environmentally responsible infrastructures. This work contributes to ongoing efforts toward achieving sustainable development objectives through intelligent, data-centric solutions.

Keywords: AI for Sustainability; Life Cycle Assessment (LCA); Energy-Efficient Systems; Smart City Infrastructure

TheSustainImpact® International Conference 2026 | October edition

A Conceptual Framework for Integrating Corporate Sustainability and Business Process Management in Specialist Engineering Projects: Evidence from UK Project Professionals

Zohaib Khan; Bahareh Kaveh; Zakwan Arab

School of Architecture, Design and the Built Environment, Nottingham Trent University, Nottingham, United Kingdom

ABSTRACT

As organisations face increasing pressure to embed sustainability within project delivery, a persistent challenge remains in translating corporate sustainability objectives into operational practice. Whilst Corporate Sustainability (CS) provides strategic direction, Business Process Management (BPM) offers the mechanisms through which sustainability objectives can be implemented, monitored, and continuously improved. However, integration of these complementary disciplines remains fragmented and underexplored within specialist civil engineering sectors.

This study addresses this gap through development of an Input–Process–Output–Outcome–Impact (IPOOI)-based conceptual framework for integrating CS and BPM within geotechnical project delivery. The conceptual framework was developed through a mixed-methods approach, integrating insights from relevant literature, questionnaire responses from 97 UK geotechnical professionals, and subsequent focus-group refinement. Findings indicate a clear need for greater integration of CS and BPM, with 96% of questionnaire participants agreeing that further efforts are required to support corporate sustainability within the sector. The resulting conceptual framework provides an adaptable mechanism for aligning organisational sustainability objectives with project-level decision-making and operational delivery processes. The framework is intended to provide practitioners with a practical means of incorporating sustainability considerations into project planning, decision-making, and delivery activities, supporting more resource-efficient project delivery and enhanced integration of sustainability principles within engineering practice. By bridging the gap between corporate sustainability aspirations and project execution, this research contributes a novel and transferable framework for specialist engineering firms that facilitates sustainable infrastructure delivery and advances progress towards relevant Sustainable Development Goals.

Keywords: Corporate Sustainability; Business Process Management; Conceptual Framework; Project Delivery

TheSustainImpact® International Conference 2026 | October edition

Validating the Effective Application of a Corporate Sustainability and Business Process Management Conceptual Framework for Specialist Engineering Projects: Insights from UK Industry Practice

Zohaib Khan; Bahareh Kaveh; Zakwan Arab

School of Architecture, Design and the Built Environment, Nottingham Trent University, Nottingham, United Kingdom

ABSTRACT

Whilst conceptual frameworks can support the integration of sustainability within project delivery, evidence of their practical applicability and effectiveness within specialist engineering projects remains limited. Following the development of an Input–Process–Output–Outcome–Impact (IPOOI)-based conceptual framework for integrating Corporate Sustainability (CS) and Business Process Management (BPM), this study evaluates its validity and practical application within specialist engineering project delivery.

Validation was undertaken through semi-structured interviews with experienced UK industry professionals, including directors and recognised sector leaders. The framework was subsequently applied to four UK case studies involving retaining wall and bearing pile projects across both design and operational delivery phases to assess its effectiveness in supporting sustainable project decision-making and delivery processes. Findings demonstrate strong professional support for the conceptual framework as a practical mechanism for aligning organisational sustainability objectives with project-level activities and decision-making. Application within design-focused case studies showed how the framework guides consideration of sustainability objectives and alternative solutions, providing greater confidence that opportunities for improved project outcomes have been explored. Application within operational case studies identified opportunities to improve planning and delivery efficiency, contributing to reduced plant utilisation, fuel consumption, programme duration, and project costs. Collectively, the findings demonstrate the validity and practical effectiveness of the conceptual framework and provide a transferable mechanism for supporting sustainable project delivery through improved alignment between corporate sustainability objectives and project-level decision-making and execution.

Keywords: Corporate Sustainability; Business Process Management; Framework Validation; Sustainable Project Delivery

TheSustainImpact® International Conference 2026 | October edition

What Makes a Place Worth Living In? Mapping Rural Well-Being through Territorial Intelligence with BOLDER

Vanda Veréb[1,2]; Anderson R. Galvão[2]; Livia Madureira[2]; Carla S. Marques[2]; Alex Rodrigues[2]; Octávio Sacramento[2]; Rui Silva[2]

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ABSTRACT

Understanding what makes a place worth living in is fundamental to sustainable territorial development. Yet well-being is commonly assessed through economic indicators aggregated at national or regional levels, potentially concealing important differences between individual rural communities. This limits the identification of local priorities and effective allocation of territorial development resources. BOLDER (Barometer for Low-Density Territories), a framework and digital platform designed to measure and map rural well-being and support place-based decision-making, addresses this gap.

BOLDER builds on a systematic review that identified 33 dimensions and 9,137 indicators of rural quality of life, complemented by six focus groups involving 126 participants across different types of low-density territories in Northern Portugal. Findings reveal challenges related to demographic decline, limited employment opportunities, difficulties in accessing public services and insufficient place-based development policies. Nevertheless, rural living was strongly associated with well-being through proximity to nature, a healthier and calmer lifestyle, community connectedness, trusted local governance and affordability. Importantly, rural well-being emerged as a trade-off, whereby highly valued social, environmental and lifestyle benefits can outweigh economic and service-related disadvantages.

Building on these findings, large-scale quantitative data collection across Northern Portugal is being prepared. The resulting data will inform BOLDER, a freely accessible digital platform mapping quality-of-life factors at civil parish level, Portugal's smallest administrative unit. By transforming local well-being evidence into actionable territorial intelligence, BOLDER aims to support policymakers in targeting development resources, businesses in investment and location decisions, and residents in evaluating places to live, contributing to more people-centered, place-sensitive and sustainable rural development.

Keywords: rural well-being; sustainable rural development; territorial intelligence; BOLDER

Funding: FCT, projects UID/04011/2025 and BOLDER (2024.17994.PEX).

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Renewable Energy Transition and Carbon Emissions in the European Union: Panel Evidence on Renewable Energy Consumption

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ABSTRACT

This study examines the conditional association between renewable energy consumption and carbon dioxide (CO2) emissions in 27 European Union member states over 2000–2021. The estimation sample contains 592 country-year observations from the World Bank World Development Indicators. The dependent variable is the natural logarithm of CO2 emissions per capita, and the main explanatory variable is the renewable share of total final energy consumption, measured in percentage points. Controls include logged energy use per capita, logged GDP per capita, foreign direct investment, and trade openness. The baseline model includes country and year fixed effects with Driscoll–Kraay standard errors. The reported renewable coefficient of −0.0087 corresponds to approximately 0.87% lower emissions per capita for a one-percentage-point increase in the renewable share, conditional on the controls and fixed effects. Lagged renewable shares and an alternative greenhouse gas outcome provide sensitivity checks. Difference GMM yields a negative coefficient but remains provisional because essential specification and instrument diagnostics are not reported. The contribution is a policy-readable estimate of an association within a common EU panel framework. The observational design does not establish a causal impact of renewable deployment or identify the effectiveness of a specific EU policy.

Keywords: renewable energy; carbon emissions; European Union; panel data

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Indoor Environmental Quality: Current Knowledge, Research in Prefabricated Buildings, and Future Directions

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ABSTRACT

In early sustainable building assessment frameworks, sustainability was predominantly measured through environmental indicators, particularly energy consumption and operational efficiency. However, this narrow focus has gradually shifted as research increasingly recognizes that sustainable buildings must also support occupant comfort, health, well-being, and satisfaction. Consequently, Indoor Environmental Quality (IEQ) has become a key indicator of sustainable building performance, encompassing thermal comfort, indoor air quality, acoustic comfort, and visual comfort. In parallel, the demand for faster, more efficient, and more sustainable housing solutions has increased significantly in the construction sector. Prefabricated and modular construction methods have been widely proposed as viable alternatives to conventional construction due to their potential to improve construction speed, reduce costs, and minimize environmental impacts. However, although numerous studies have investigated individual aspects of IEQ or assessed the environmental performance of prefabricated buildings, there remains a lack of comprehensive reviews that integrate IEQ performance, occupant satisfaction, and assessment approaches specifically within prefabricated modular housing. This paper reviews the literature on Indoor Environmental Quality (IEQ) and critically examines IEQ research in prefabricated buildings to summarize current knowledge and identify research gaps. Relevant peer-reviewed studies were analysed through a structured literature review to evaluate the major IEQ dimensions, assessment approaches, and occupant satisfaction in prefabricated buildings. The findings provide a consolidated overview of current research and propose future research directions to support healthier, more comfortable, and more sustainable prefabricated buildings.

Keywords: Indoor environmental quality; Prefabricated buildings; Occupant satisfaction; Sustainable housing

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