

DEPARTMENT OF DEFENSE CLIMATE ADAPTATION PLAN

2021

5 LINES OF EFFORT (LOEs) reflect the scope and scale of DOD's adaptation and resilience efforts:



LOE 1: CLIMATE-INFORMED DECISION-MAKING

4 ENABLERS
crosscut all five
Lines of Effort:



Continuous Monitoring
Data Analytics



Aligning Incentives
to Reward Innovation



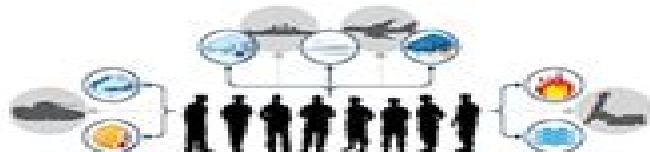
Climate
Literacy



Environmental
Justice



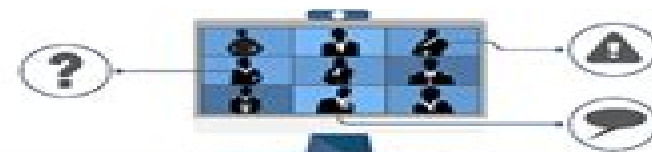
LOE 3: RESILIENT BUILT AND NATURAL INFRASTRUCTURE



LOE 2: TRAIN AND EQUIP A CLIMATE-READY FORCE



LOE 4: SUPPLY CHAIN RESILIENCE AND INNOVATION



LOE 5: ENHANCE ADAPTATION AND RESILIENCE THROUGH COLLABORATION

END STATE: The above five Lines of Effort and four enablers are to ensure that DOD can operate under changing climate conditions, preserving operational capability and enhancing the natural and man-made systems essential to the Department's success.

Innovation Climate Change Adaptation Management

**Mohamed Ben Ahmed, İsmail Rakıp
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Innovation Climate Change Adaptation Management:

Innovation in Climate Change Adaptation Walter Leal, 2016-01-16 This book introduces innovative approaches to pursue climate change adaptation and to support the long term implementation of climate change policies Offering new case studies and data as well as projects and initiatives implemented across the globe the contributors present new tools approaches and methods to pursue and facilitate innovation in climate change adaptation *Smart Green Innovations in Industry 4.0 for Climate Change Risk Management* Elena G. Popkova, 2023-05-16 This book is devoted to strengthening the theoretical and methodological basis systematization of international experience and scientific elaboration of prospects for developing a climate smart economy and business as a vector of the sustainable development of Industry 4 0 in the Decade of Action The first part of the book focuses on climate responsible entrepreneurship in support of the sustainable development of Industry 4 0 The part systematizes best practices for climate smart green innovations across sectors of the digital economy The third part reveals the experience of climate risk management based on smart green innovations in regions and countries Particular attention is paid to the best practices of the European Union EU and the Eurasian Economic Union EAEU The book ends with part four which explores ESG climate risk management and green finance in support of combating climate change The book s novelty is that it rethinks the environmental footprints of Industry 4 0 from the perspective of climate risks and their management The theoretical significance of the book lies in the formation of an innovative concept of climate change risk management in which the economy society nature and technology are presented and interact effectively The book is intended for scientists In this book they will find an innovative and systemic vision of smart green innovations in Industry 4 0 for climate change risk management **Innovation Management** Mark Dodgson, 2017-10-25 Innovation is the means by which organizations survive and thrive in uncertain and turbulent conditions Innovation management has become a well established field of research teaching and practice with a substantial literature As a broad based research field contributions stem from an array of perspectives including science economics engineering and psychology Innovation is crucial for economic and social progress and it needs to be managed in order to be beneficial Innovation Management A Research Overview provides a concise introduction to the best research on innovation management It covers four main themes foundational studies key concepts and frameworks important empirical studies and current and emerging themes The research discussed includes classic studies with core insights in the field key thinking on strategies and processes for innovation well established and novel research methods and issues of greatest contemporary importance This shortform book provides direction through the maze of research on the nature processes and outcomes of innovation management and provides an invaluable introduction to the literature on innovation management for students and professionals **Life-Cycle Civil Engineering: Innovation, Theory and Practice** Airong Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh

International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry

Innovations in Smart Cities Applications Volume 4 Mohamed Ben Ahmed, İsmail Rakıp Karas, Domingos Santos, Olga Sergeyeva, Anouar Abdelhakim Boudhir, 2021-02-12 This proceedings book is the fourth edition of a series of works which features emergent research trends and recent innovations related to smart city presented at the 5th International Conference on Smart City Applications SCA20 held in Safranbolu Turkey This book is composed of peer reviewed chapters written by leading international scholars in the field of smart cities from around the world This book covers all the smart city topics including Smart Citizenship Smart Education Smart Mobility Smart Healthcare Smart Mobility Smart Security Smart Earth Environment Agriculture Smart Economy Smart Factory and Smart Recognition Systems This book contains a special section intended for Covid 19 pandemic researches This book edition is an invaluable resource for courses in computer science electrical engineering and urban sciences for sustainable development

Climate Change Adaptation Framework and Youth Entrepreneurship in West Africa Andrew Simmons, 2021-10-22 This book's purpose is to highlight the development challenges and successes of implementing the Youth Climate Change Adaptation Development Framework in Sierra Leone West Africa Over the past decade Sierra Leone has experienced a series of development challenges including internal conflict and Ebola outbreaks in most recent times The dire unemployment situation in Sierra Leone is compounded by the emergence of climate change that negatively impacts all aspects of daily life and wellbeing and the education and training provided do not prepare young people adequately for the job market Therefore building youth resilience to adapt to the impact of climate change and other development problems is a significant development challenge faced by policymakers in Sierra Leone The government through funding from the African Development Bank AfDB has provided support for the implementation of a Youth Employment and Entrepreneurship Project YEPP to reinforce the employability of Sierra Leone Youth as well as enhance their entrepreneurship and employment skills through the development of a framework that integrates education and vocational institutions with job market demand and supply This approach has resulted in strengthening the occupational levels in the youth population segments of the country This book discusses the objectives and outcomes of this project including curricula for Sustainable Construction training of counselors and administrators providing youths with supervisory skills and developing tools to assess youth development institutions weaknesses and enhance institutional capacity to deliver

climate change adaption for sustainable development programmes The book can be used by policymakers from Small Island Developing States SIDS and LDCs in Africa and Asia It can be used by researchers working on Climate Change Education Sustainable Development emphasising Climate Change Education for Sustainable Development in both developing and developed countries It can also be used by practitioners involved in implementing innovations in youth development employment entrepreneurship sustainable livelihoods initiatives climate change adaptation and mitigation These practitioners and researchers would find this book an invaluable resource to support their work in the field

Sustainable Innovations in Life Sciences: Integrating Ecology, Nanotechnology, and Toxicology Brahman Pasumarthi, Sridhar Dumpala, Mariya Dasu Perli, Vivek Chintada, 2024-12-19 In a world constantly faced with emerging environmental challenges and health threats the need for sustainable innovations in life sciences has never been more pressing This book delves into the dynamic intersection of ecology nanotechnology and toxicology offering a comprehensive exploration of how these disciplines can be integrated to pave the way for a healthier more sustainable future Through a combination of cutting edge research insightful analysis and practical applications this book showcases the potential for transformative change in the fields of life sciences By harnessing the power of ecology to understand complex ecosystems leveraging the capabilities of nanotechnology to engineer novel solutions and employing the principles of toxicology to assess and mitigate risks we can unlock new possibilities for innovation and sustainable development From addressing environmental degradation to advancing personalized medicine the potential for sustainable innovations in life sciences is limitless This book serves as a roadmap for researchers practitioners policymakers and students alike guiding them towards a more resilient equitable and environmentally conscious future Join us on this transformative journey as we explore the multifaceted landscape of sustainable innovations in life sciences and strive to create a world where ecology nanotechnology and toxicology converge to shape a brighter tomorrow

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation Christopher B. Field, Vicente Barros, Thomas F. Stocker, Qin Dahe, 2012-05-28 This Intergovernmental Panel on Climate Change Special Report IPCC SREX explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation Extreme weather and climate events interacting with exposed and vulnerable human and natural systems can lead to disasters Changes in the frequency and severity of the physical events affect disaster risk but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability Some types of extreme weather and climate events have increased in frequency or magnitude but populations and assets at risk have also increased with consequences for disaster risk Opportunities for managing risks of weather and climate related disasters exist or can be developed at any scale local to international Prepared following strict IPCC procedures SREX is an invaluable assessment for anyone interested in climate extremes environmental disasters and adaptation to climate change including policymakers the private sector and academic researchers

Science and Innovations for Food Systems Transformation Joachim von

Braun, Kaosar Afsana, Louise O. Fresco, Mohamed Hag Ali Hassan, 2023-01-01 This Open Access book compiles the findings of the Scientific Group of the United Nations Food Systems Summit 2021 and its research partners The Scientific Group was an independent group of 28 food systems scientists from all over the world with a mandate from the Deputy Secretary General of the United Nations The chapters provide science and research based state of the art solution oriented knowledge and evidence to inform the transformation of contemporary food systems in order to achieve more sustainable equitable and resilient systems **Advances in Urbanism, Smart Cities, and Sustainability** Uday Chatterjee, Arindam Biswas, Jenia Mukherjee, Sushobhan Majumdar, 2022-04-20 While technology is developing at a fast pace urban planners and cities are still behind in finding effective ways to use technology to address citizen s needs Multiple aspects of sustainable urbanism are brought together in this book along with advanced technologies and their connections to urban planning and management It integrates urban studies smart cities AI IoT remote sensing and GIS Highlights include land use planning spatial planning and ecosystem based information to improve economic opportunities Urban planners and engineers will understand the use of AI in disaster management and the use of GIS in finding suitable landfill sites for sustainable waste management Features Explains the process of urban heritage conservation including the process of urban renewal and its regeneration and the role of citizens in urban renewal planning and management Includes several case studies highlighting urban environmental problems and challenges in developed and developing countries and the ways for converting urban areas into smart cities Focuses on urban resources the supply of energy in smart cities and their proper management practices Introduces the role of remote sensing GIS and IoT in making a smart city and meeting sustainable goals Analyzes unique case studies their challenges and obstacles and proposes a set of factors to understanding smart city initiatives and projects *Handbook on Climate Change and Technology* Frauke Urban, Johan Nordensvärd, 2023-12-11 This timely Handbook presents the latest knowledge on technological innovation for climate change mitigation and adaptation Looking beyond technical fixes it further draws on economics politics and sociology to explore how modern technology can contribute to effective and socially just sustainability transitions Water Resources Management Robert C. Brears, 2024-04-01 Water resource management consists of planning developing distributing and managing the available water resources With increasing population growth urbanization and climate change water management becomes more demanding This book presents innovative solutions for present as well as future challenges we are facing in water conservation and water quality protection The 2nd Ed entails new figures percentages latest information trends and all case studies updated with new ones Provides a green perspective on how water is and can be used The update will entail new figures percentages latest information trends and all case studies updated with new ones Local Knowledge, Intellectual Property and Agricultural Innovation Michael Blakeney, Kadambot H. M. Siddique, 2020-06-22 This book examines the role of local knowledge in promoting agricultural innovation and legislative support for agricultural innovation through intellectual property laws and the protection of farmers rights In

assessing the role of intellectual property in promoting agricultural innovation the book examines plant variety rights protection the patenting of plant varieties and plant breeding methods gene patents and climate change open source biotechnology and agricultural innovation and geographical indications and the marketing of agricultural products As a test bed for the application of the themes of the book it applies a case study approach to look at the role of local knowledge and intellectual property rights in the cultivation of traditional rice varieties in Kerala South West India and the extent to which this cultivation is supported by Indian legislation The book concludes with an examination of the success of self help groups such as Farmers Clubs This book appeals to all readers interested in policies to promote sustainable agriculture at a time of increasing food insecurity A special feature of the book is the case study approach To date the role of local knowledge and agricultural innovation has been almost entirely ignored and the role of intellectual property in this space has been largely ignored The book is a result of a research collaboration between the University of Western Australia and Kerala Agricultural University funded in part by the Australian Research Council

Innovation systems Francis, J. (ed), Mytarka, L. (ed), van Huis, A. (ed), Röling, N. (ed), 2016-12-31 The result of an expert consultation this publication examines innovations systems a concept suggested as underpinning industrial development as a strategy for agricultural development Innovation systems approaches conceptualise change as a long term socially embedded process and recognise the important role policy plays in shaping the parameters within which decisions are made Providing a collection of papers and commentaries from the world's top scholars and practitioners this book looks at the strengths but also the weaknesses and challenges

Evaluation of the FAO Regional Office for Latin America and the Caribbean 2017-2020 Food and Agriculture Organization of the United Nations, 2021-12-09 This evaluation had the purpose of assessing the performance and added value of the FAO Regional Office for Latin America and the Caribbean RLC taking into account the role of the regional initiatives as mechanisms to facilitate such work It was found that the support provided especially for the escalation of results has been substantive and useful however there is no institutional strategy that promotes the identification of factors that promote upscaling of programmes based on organizational learning Recommendations were drawn up to improve the relevance of the work around the regional initiatives as well as to promote the scaling up of programmes the implementation of policies for the inclusion of gender perspectives and of indigenous Afrodescendant and tribal peoples the generation and use of evidence as a basis for decision making and to address the new context derived from COVID 19

OECD Food and Agricultural Reviews Innovation, Productivity and Sustainability in Food and Agriculture Main Findings from Country Reviews and Policy Lessons OECD, 2019-10-03 Markets that function well within a stable regulatory and policy environment are key to improving the productivity and sustainability of the food and agriculture sector This report contains the main findings and policy lessons gained from a series of wide ranging country reviews on how government policies can improve sectoral productivity and sustainability through their impact on innovation structural change natural resource use and climate change Improving the

policy environment would require rolling back those policies that distort markets the most and retain farmers in uncompetitive and low income activities harm the environment stifle innovation slow structural and generational change and weaken resilience

Toward Gender-responsive and Technology-oriented Disaster Management in Eastern Africa Kerubo Nyasimi, Mary, Omoyo Nyandiko, Nicodemus, Partey, Samuel, Ramasamy, Jayakumar, UNESCO Office Nairobi and Regional Bureau for Science in Africa, Yasukawa, Soichiro, 2022-03-19

Managing and Adapting to Global Change in Tourism Places Alan A. Lew, 2017-10-02 Today more than ever communities need to develop resilience strategies to adapt to the varied and often unpredictable forces of global change The focus of this collection of articles from *Tourism Geographies* is on global change in tourism places Global change incorporates social and economic globalization which is arguably the most important process to have shaped the development of modern tourism since the nineteenth century and climate change which is likely to be the most significant factor influencing human behavior and livelihood in the coming decades The organization of these articles reflects a traditional geography approach which starts with an emphasis the physical geography foundations of the human condition especially through the issue of climate change This is then broadened by a series of insightful comparative studies of how tourism communities react adapt and relate to their changing natural and social conditions This collection of papers addresses major issues and adaptive paths for tourism destinations as they face the challenges of our contemporary world This book was published as a special issue of *Tourism Geographies*

Creating Capacity and Capability: Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice Monty Sutrisna, Mostafa Babaeian Jelodar, Niluka Domingo, An Le, Ravindu Kahandawa, 2025-07-19 This three volume book is the proceeding of the 46th Australasian Universities Building Education Association AUBEA 2023 Conference which brings together papers on construction and built environment education and practice This particular conference theme Creating Capacity and Capability Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice is closely related to a flagship national research programme funded by the Government of New Zealand known as the CanConstructNZ research programme aiming to balance the capacity and capability in the construction industry and the national pipeline of construction projects The capacity and capability of our construction industry in fulfilling the construction needs of the whole nation are reflected in the national pipeline of construction projects and have long been recognised as one of the main challenges facing the construction sector The practices and education of building and construction play an important role in determining the capacity and capability of the construction industry Within the context of achieving sustainable future and embracing advanced technologies to create capacity and capability in the construction sector various concepts research and innovative development have emerged and taken place This particular conference theme has facilitated more in depth discourses and discussions on the latest ideas and innovation within the building and construction education and practice not only from the Australasian region but also from the wider international

community including the USA the UK Brazil South Africa Nigeria China and Sri Lanka The contents of this book will be of interest to academic researchers industry professionals and policy makers alike Current Trends on Innovability and Sustainable Innovation Anna Ujwary-Gil, Anna Florek-Paszowska, 2025-06-01 Introduction to the Innovability Index More than the fusion of innovation and sustainability The integration of innovation and sustainability conceptualized as innovability represents a strategic construct for addressing global challenges such as climate change resource constraints and social inequality The conceptual understanding of innovability has advanced but its empirical measurement and operationalization remain underdeveloped This conceptual paper introduces the Innovability Index designed to evaluate the extent to which countries regions or organizations embed sustainability principles The index encompasses four dimensions technological innovation for sustainability environmental sustainability social inclusiveness and sustainable business practices Each dimension is assessed through a set of indicators normalized weighted and aggregated to generate a composite performance score The Innovability Index provides a structured approach for benchmarking sustainable innovation capabilities It is a practical tool for policymakers firms and researchers to align innovation ecosystems with sustainability imperatives and the Sustainable Development Goals SDGs This conceptual paper opens the thematic issue of innovability and sustainable innovation as well as addresses a gap in the literature by introducing the initial attempt to measure innovability Keywords Innovability Innovability Index sustainable development ESG sustainability sustainable innovation technological innovation environmental sustainability social inclusiveness sustainable business practices Leadership competencies for innovability Bridging theory and practice for sustainable development PURPOSE This study explores the critical leadership competencies necessary for fostering innovability the integration of innovation and sustainability within organizations particularly in education institutions HEIs and the business sector The research seeks to address the gap in understanding how these competencies are developed in HEIs and whether they effectively prepare graduates with the skills needed for the current business context Additionally the study emphasizes the need to identify robust instruments for measuring these competencies to ensure their practical application in organizational settings METHODOLOGY A systematic literature review SLR was conducted using Scopus and Web of Science databases The study employed a rigorous selection process to identify relevant empirical studies published between 2015 and 2024 A total of 53 articles were analyzed to address three key research questions related to the characteristics of innovability leadership recommendations for developing innovability in organizations and the methodologies or instruments used to identify these competencies The analysis involved thematic synthesis and content analysis to extract insights and identify gaps in the existing literature FINDINGS The study identifies five key categories of leadership competencies essential for innovability including strategic leadership fostering a culture of collaboration commitment to sustainability continuous education and sensitivity to global megatrends Despite the recognition of these competencies the study reveals a significant lack of empirical research on their practical implementation and

measurement The findings also highlight the need for robust tools to assess these competencies effectively Additionally the study provides several recommendations for developing innovability for their integration into the business sector emphasizing the importance of leadership development programs the integration of sustainability into corporate strategy and the promotion of a collaborative organizational culture

IMPLICATIONS Theoretically the study contributes to the conceptual framework of innovability leadership by identifying critical competencies and suggesting a more integrated approach to leadership development in business education Practically the research underscores the importance of developing targeted training programs and assessment tools to cultivate these competencies in future leaders This is particularly relevant for business schools which play a crucial role in preparing students to address complex global challenges

ORIGINALITY AND VALUE This study fills a gap in the literature by providing a detailed examination of the competencies required for innovability leadership and proposing directions for future research and practice It offers a unique contribution by bridging the theoretical and practical aspects of innovability in leadership particularly within the context of higher education

Keywords innovability leadership competencies sustainability business education systematic literature review Sustainable Development Goals SDGs leadership development educational innovation higher education Integrating science technology and experimental knowledge for sustainable innovation A Living Lab approach to urban biodiversity management

PURPOSE This study aims to enhance understanding of STI Science Technology Innovation and DUI Doing Using Interacting integration dynamics in sustainable innovation specifically investigating its role in innovation outcomes stakeholder engagement and the institutionalization of sustainable practices in urban lawn management

METHODOLOGY Using a single case study design the study captures real time dynamic interactions between STI and DUI practices observing ongoing processes Data were collected through five focus group interviews with 32 stakeholders individual interviews project documentation and a project diary Stakeholders included public sector officials NGOs private garden owners and business representatives each offering insights into policy environmental practices and market driven solutions The Living Lab methodology emphasizing co creation and iterative feedback guided both data collection and analysis with NVivo software and manual coding used to identify key themes and challenges in integrating STI and DUI for sustainable innovation

FINDINGS The investigation revealed that integrating STI and DUI modes fosters a dynamic synergy STI provided scientific rigor while DUI leveraged stakeholder input and local contexts to co develop adaptive urban biodiversity solutions This approach addressed location specific challenges balancing ecological goals with practical feasibility For instance stakeholder engagement refined scientific recommendations ensuring broader applicability and adoption Despite tensions between rigor and practicality the participatory Living Lab methodology facilitated co creation aligning scientific insights with real world needs to enhance sustainable lawn care practices

IMPLICATIONS The study contributes to innovation theory by showing how integrating STI and DUI modes fosters socially responsive adaptable solutions for urban biodiversity management From a

practical standpoint it underscores the importance of stakeholder engagement in developing tools and strategies that balance scientific insights with practical real world application The project offers a replicable model for integrating formal research with user driven innovation in sustainability projects ORIGINALITY AND VALUE This paper provides a unique contribution by showcasing how the integration of formal scientific research STI with practical user centered approaches DUI can foster innovability The use of the Living Lab methodology to co create urban biodiversity solutions bridges the gap between academic research and practical application offering a novel framework for addressing complex environmental challenges through collaborative innovation Keywords sustainable innovation Science Technology Innovation STI Doing Using Interacting DUI urban biodiversity lawn management Living Lab stakeholder engagement participatory innovation co creation climate change adaptation The role of green blue ocean strategy in enhancing frugal innovation through IoT and AI A resource based view perspective PURPOSE This study explores the role of Green Blue Ocean Strategy GBOS in promoting frugal innovation by leveraging IoT and AI from an RBV theoretical perspective targeting creative entrepreneurs in Central Java Indonesia METHODOLOGY A quantitative approach was used with Structural Equation Modelling SEM analyzed via AMOS Data from 262 creative entrepreneurs were collected through an online closed questionnaire using purposive sampling FINDINGS The study reveals that 1 IoT does not significantly impact frugal innovation 2 AI positively influences frugal innovation and 3 GBOS effectively mediates the relationship between IoT AI and frugal innovation suggesting that integrating sustainable strategies with technology can lead to more cost effective and inclusive innovations IMPLICATIONS for theory and practice The study extends the RBV framework by integrating the GBOS concept demonstrating its effectiveness in optimizing digital technology for sustainability driven innovation It contributes to the literature on sustainability strategies and the Resource Based View by introducing a novel theoretical model that links GBOS IoT and AI with frugal innovation Practically GBOS offers a pathway for creative entrepreneurs to overcome resource constraints and achieve competitive advantages through sustainable practices ORIGINALITY AND VALUE This study introduces Green Blue Ocean Strategy GBOS as a novel conceptual framework that extends the traditional Blue Ocean Strategy BOS by integrating sustainability principles GBOS addresses both economic and environmental concerns enabling businesses to achieve cost effective innovation Grounded in the Resource Based View RBV this study systematically develops and empirically tests GBOS by linking it with IoT AI and frugal innovation The framework offers a new lens for sustainable competitive advantage in resource constrained environments Keywords internet of things artificial intelligence green blue ocean strategy frugal innovation resource based view sustainability sustainable strategy digital technology sustainability driven innovation sustainable innovation The impact of eco innovation on circular economy in EU countries How patents affect circular material use rate PURPOSE The main objective of this study is to examine how eco innovation activities measured by the number of patents related to recycling and secondary raw materials affect the level of use of circular materials in economic

processes in European Union countries Simultaneously to take into account the impact of the other drivers of the circular economy the study includes control variables such as GDP per capita share of income from environmental taxes age structure of the population and level of education of the population

METHODOLOGY This study uses a generalized linear model for panel data For all analyzed explanatory variables greater inter group variation than intra group variation was observed so a panel averaged effects estimator was used The study sample includes 28 European Union EU countries The time scope of this study is 2010 2019 Eurostat database was the source of the unbalanced panel data This study seeks answers to the following research question What is the impact of patents related to waste management and recycling on the circularity rate of the EU economies

FINDINGS The results indicate that leaders in the area of circularity are the Netherlands France and Belgium Ireland Romania and Portugal occupy last place in terms of the circularity of the economy There is considerable variation in the number of patent applications related to waste management and recycling in the EU countries Luxembourg Finland Belgium and the Netherlands have the highest propensity for patents In contrast Bulgaria Greece and Croatia show the lowest patent activity Finally the higher the propensity to patent in waste management and recycling technologies the higher the rate of circular use of materials

IMPLICATIONS The results provide a compelling rationale for prioritizing and incentivizing investments in promising technologies to achieve both environmental sustainability and economic prosperity in the long term

ORIGINALITY AND VALUE Our study sheds new light on the link between eco innovation and circular economy in EU countries We address the issue of possible nonlinearities between circularity and its drivers Given the fractional nature of the response variable i e circular material use rate we apply the generalized estimating equations GEE approach to model both the mean structure and association structure of fractional responses

Keywords circular economy CE circularity eco innovation patent circular material use CE driver EU countries generalized estimating equations recycling technologies waste management Unitary Patent System and innovation dynamics in the European Union The role of economic resources and R D investments

PURPOSE The EU supports competitiveness and sustainability via innovations by the patent protection of inventions On 1st June 2023 the EU launched the Unitary Patent System UPS with the Unitary Patent as a universal innovation protection tool The data regarding its first 20 months of operations offers indices about innovation and patenting trends

METHODOLOGY The contextual exploration of the UPS was projected into four aims addressing the absolute and relative numbers of Unitary Patents A1 and the relationship between Unitary Patents and GDP per capita A2 and GERD A3 and comparatively juxtaposing them A4 This deeper contextual understanding of Unitary Patenting dynamic entails EU member states and their top four competitors China Japan South Korea USA The data regarding the GDP GDP per capita GERD number of Unitary Patents in total and per millions of inhabitants was collected and visualized via tables and charts and submitted to a critical comparison

FINDINGS The first 20 months of the UPS operations suggests that the Unitary Patent is a viable but not the most popular patenting option and that there is a positive impact on the GDP per capita and GERD for

the majority of the EU member states and that there are differences between EU member states in their efficiency to generate Unitary Patents

IMPLICATIONS The performed study confirms the parallel co existence of various patenting strategies and the importance of investments in patented inventions However the size of GDP per capita followed by GERD is a mere pre requirement that leads to diversified efficiency even among similar jurisdictions with at least an average GDP per capita and GERD Arguably the UPS magnifies the differences and the six original European integration jurisdictions are not the best UPS players There are indices about positive trends for Northern EU member states and negative trends for Southern EU member states

ORIGINALITY AND VALUE This is a pioneering contribution regarding a newly launched system showing that despite the same regime EU member states differ dramatically in their approach to patenting and that the level of GDP per capita and GERD are just the starting points

Keywords Unitary Patent System EU member states GDP gross domestic expenditure on research and development GERD GERD per GDP GERD Index innovation sustainability economic resources patent protection

The Digital Sustainability Ecosystem A conceptual framework for digital transformation and sustainable innovation

PURPOSE This study introduces the Digital Sustainability Ecosystem a conceptual framework to integrate digital transformation and sustainable innovation It examines how emerging digital technologies including artificial intelligence blockchain and the Internet of Things drive sustainability transitions by serving as strategic enablers Addressing a critical gap in the literature this research focuses on the dynamic mechanisms and synergies that connect digital transformation with sustainable innovation within a complex ecosystem

METHODOLOGY The study employs a systematic literature review SLR of 50 studies and a comparative analysis of 13 existing frameworks to identify and analyze key mechanisms that link digital transformation and sustainable innovation culminating in the development of the Digital Sustainability Ecosystem framework

FINDINGS The study identifies five interconnected mechanisms efficiency gains dematerialization circular economy enablement innovation acceleration and digital collaboration These mechanisms illustrate the relationships between technological advancements and sustainability objectives while addressing synergies and tensions such as the trade offs between energy demands and environmental benefits The Digital Sustainability Ecosystem emphasizes multi stakeholder collaboration iterative feedback loops and adaptable processes to address gaps in existing models positioning digital transformation as a transformative force for systemic sustainability improvements

IMPLICATIONS The Digital Sustainability Ecosystem advances theoretical discourse by positioning sustainability as a systemic outcome of digital transformation extending beyond traditional efficiency focused models It emphasizes organizational resilience and stakeholder collaboration as pivotal for achieving sustainability objectives Practitioners can leverage AI IoT and blockchain to enhance resource optimization and foster sustainability driven innovation ecosystems Policymakers and organizations are encouraged to combine digital strategies with sustainability imperatives emphasizing adaptive leadership regulatory alignment and multi stakeholder engagement

ORIGINALITY AND VALUE This study presents a conceptual framework that

bridges theoretical and practical gaps in the literature by integrating foundational theories that associate digital transformation with sustainability imperatives while fostering innovation and competitive advantage The framework sets the stage for future research emphasizing potential applications in industry specific contexts cross sectoral collaborations and the evolving role of emerging technologies in sustainability transitions By incorporating dynamic feedback loops and systemic adaptability this framework establishes a foundation for advancing both academic inquiry and practical implementation It offers guidance for exploring unanswered questions about scalability policy integration and multi stakeholder engagement in the digital age Keywords digital transformation sustainable innovation digital sustainability ecosystem sustainability transitions artificial intelligence blockchain Internet of Things circular economy efficiency gains dematerialization acceleration digital collaboration stakeholders

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Innovation Climate Change Adaptation Management Introduction

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