ISSN: 2229-7359 Vol. 11 No. 14s, 2025

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Leadership And Governance In Higher Education: Steering Institutions Toward SDG Alignment

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Abstract— The global movement towards the attainment of United Nations Sustainable Development Goals can hardly be achieved without the intervention of higher education institutions (HEIs). Universities can only integrate sustainability into their core missions when leadership and governance support the development of policies, strategies, and culture to this effect. This paper investigates how HEIs can be transformed into engines of sustainable development by effective leadership and robust governance frameworks. It is found that institutions with their operations, teaching and research in line with SDGs are more impactful and engaged with global society. Through this research 6. Educational leadership discourse is proposed with a governance model that ensures institutional sustainability and global responsibility.

Keywords– Higher Education, Leadership, Governance, Sustainable Development Goals, Institutional Alignment, Educational Policy, Strategic Management, University Reform

I. INTRODUCTION

As such, these challenges demand that universities change the way they go about university business; not just in what they offer to teach but also how they govern and lead themselves. The 17 Sustainable Development Goals (SDGs), including those that address these challenges, were outlined by the United Nations (UN) for the year 2030 in 2015. As an important agent of knowledge creation and research, as well as an agent of social development, universities have a unique capacity to work on these global objectives. Yet, the SDGs can only be achieved through more than superficial commitment, it requires systemic change within an institution led by effective leadership and governance [1]. Higher education institutions (HEIs) leadership and governance become paramount to steer the universities on to SDG alignment. Now leaders of organizations are required to step into a much more proactive and strategic role to steer their institution to reach the SDGs. Successfully, they will have to develop policies, promote a culture of sustainability and involve stakeholders within and outside the institution in realizing long term impacts. The following research seeks to understand how leadership and governance frameworks in HEIs are able to support the integration of SDGs into institutional practices. The paper discusses the theoretical underpinnings of educational leadership in the realm of global sustainability goals and examines the evolving role of the university leader in this change. In addition, the study examines governance models that enable the sustainable integration of the SDGs, and by understanding the various forms these models are manifest, suggests how they might be applied differently, depending on the institutional setting [10]. A good governance framework for SDG integration goes beyond policy enactment and rather shapes the setting for innovation, accountability and collaboration. A particular challenge of universities aligning to the SDGs is the gap between the ambitions of policy and of implementation on the ground. However, many institutions, including those within the developing regions continue to face barriers of budgetary challenges, regulatory controls and inadequate awareness of the relevance of SDGs to the local situation. Therefore, this paper aims to fill the gap by analyzing case studies of universities that have adapted to the SDGs and have some common characteristics of their governance structures and leadership styles. Secondly, it creates an opportunity to enhance the social responsibility of universities by supporting the alignment of higher education institutions with the SDGs.

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ISSN: 2229-7359 Vol. 11 No. 14s, 2025

Novelty and Contribution

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HEIs are required to educate students as well as make contributions to societal development, their functions make them the centers of learning and research. Therefore, leadership plays a central role in establishing an inclusive environment to support the SDG initiatives [9]. Focusing on the structural and leadership aspects of sustainability in teaching and research, other studies have considered those aspects less generally. This is what these paper aims to fill in by shedding light on the leadership and governance frameworks that enable successful integration of the SDGs into higher education institutions [14-15].

This paper also makes several important contributions to existing literature on higher education leadership and governance, with respect to SDG alignment. It first offers a comprehensive framework for comprehending leadership and governance in directing higher education institutions towards sustainable development. Unlike previous studies that concentrate either on leadership or governance, this paper integrates leadership and governance to depict how they collaborate as well as their contribution to SDG alignment in practice. Secondly, this research presents a comparative study of institutions, in more than one regional and institutional context, developed and developing countries included. It does so by emphasizing the distinctive dilemmas and possibilities of universities within varying contexts and in this manner presents a more approachable interpretation of how institutions might aptly be allowed to engross local facts. Most notably for policymakers and educational leaders in countries that differ in terms of resources and infrastructure, this is extremely beneficial [11].

Third, this paper presents a novel way of looking at university governance as something other than traditional bureaucratic governance, incorporating instead collaborative governance and incorporating the voices of the participants in governance. The use of a governance model such as this is perfectly congruent with the SDGs' principles of sustainability, promoting long-term thinking and collective responsibility. The paper's findings complement existing research related to institutional change in higher education in relation to sustainability. It points out the leadership competences and governance practices are most efficient in incorporating environmental sustainability into core HEI mission and suggests useful contribution to HEI leadership development and training programs. The study in addition offers practical recommendations to the universities on how they can develop more aligned SDGs, which include leadership development, policy reform and cross sector partnerships. This research provides theoretical as well as practical contributions by bringing new insights on how leadership and governance could lead to the alignment of higher education institutions with the SDGs. The findings of this study are presented to help universities as they attempt to transform themselves, become more responsible, impactful, and responsive to the 2030 Agenda [12].

II. RELATED WORKS

Considering the role of the higher learning institutions in society, there has been an increased recognition that the provision of education, conducting research, and undertakings of specific operational activities must integrate global sustainability agendas. This has led to extensive investigation as to a possible role for leadership and governance in supporting the transition to sustainability in HEIs.In 2022 D. R. Adhikari et.al. and P. Shrestha et.al., [2] introduced the HEIs have had hierarchical models of leadership but they have evolved into more inclusive and participatory frameworks of leadership. More and more institutions are accepting that for them to reach the long-term goals of sustainability, all stakeholders including students, faculty, administrative staff and external partners have to be made part of the goal. Therefore, leadership structures must be capable of broad perspectives and perhaps ideas, but not to the point that the leadership lacks strategic coherence. Here it is possible to have more than a pure decisionmaking activity, it can also be about establishing a culture of sustainability at all levels of institutional activity. Good leadership requires an institution to navigate through the intricacies of adopting sustainability measures such as changing curricula; engaging the community; and more. A variety of stakeholders give universities an edge when meeting the complex challenges involved in sustainability, be it with respect to environment related sustainability, social equity or economic resilience. Innovative decentralized governance models can improve the institution's ability to react to changing circumstances, enhance accountability and ensure the accountability among its people at all levels.

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Secondly, the integration of universities with the SDGs calls for more than a promise to sustainably operate, it needs a systemic change of institutional policies, and operations. Sustainability related policies have been established by a lot of universities but putting them in place is not always carried out successfully because of a lack of consistency in different departments, inadequate resources, and lack of clear accountability. However, a good number of the policies to promote sustainability are just developed and do not come with clear guidelines on how to implement them, as well as the required support structures to achieve this. Consequently, having effective governance frameworks is key to this cause that sustainability policies are not only adopted but can be implemented as well in a meaningful and sustainable way in the long term. In 2022 F. Biermann et al., [8] developed the governance plays a key role in the role of universities to achieve broader societal sustainability. Thus, HEIs are expected more and more to prove their performance in imparting the SDGs not only through their academic and research activities, but also by their involvement with local communities and in working with external stakeholders in different ways. By accessing these external collaborations, they increase a university's ability to adjust practices to the SDGs, whilst extending its coverage and impact in the global sustainability discourse. Particularly, these partnerships are relied upon by universities in developing regions to deal with resource constraints as well as to improve their visibility in the global domain. Although certain institutions have gone a long way to realign their respective operations to the SDGs, the speed with which the whole sector has moved has been uneven. In a few cases, traditional power structures, entrenched practice in universities, and resistance to change coupled with a lack of understanding about the relevance of the SDGs to the core mission of the university formed obstacles to make progress. Universities that have not yet adopted a holistic approach to embedding sustainability into their curricula, research and institutional operations are characterized as having a particularly gaping chasm between rhetoric and action in respect to sustainability. Additionally, the economic and political environment in which a university operates can be of great importance to its capacity to initiate sustainability efforts. Over the past few years, many universities have created frameworks that bring together sustainability into governance and leadership. Such institutions typically strive to maintain a holistic perspective, at once an internal policy and external partner approach. As such, these institutions embarked on embedding sustainability into the fabric of university life and created models that can be adapted by those in similar moral and institutional contexts but with different institutional and regional contexts. With these models, the importance of long-term planning, participatory decision making, accountability etc. for the achievement of sustainability objectives is accentuated. In a world still trying to come to terms with the many complex sustainability challenges, universities must be in the van of providing and putting forth innovative solutions. Leadership and governance of universities matters for the universities' alignment to the SDGs. Good leadership not only gives and should give visions but also should create an inclusive environment in which everyone on the institution feels motivated to be engaged in sustainability efforts. In 2020 V. Chisingui et.al. and N. Costa et.al., [13] suggested the SDGs call on universities to find a way to align themselves, but in doing so they must remain an institution with room for new ideas and refinement. Therefore, such an economy needs leaders and governance structures that are forward looking, collaborative and dedicated to long term sustainability. Such examples from universities that have already established and successfully operated in a new mode can help others to follow the path of aligning their own operations with the global agenda of sustainability. These lessons can be learned from which higher education institutions can meaningfully contribute to the achievement of the SDGs by drawing on the lessons and refining governance and leadership practice continuously.

III. PROPOSED METHODOLOGY

This study takes a mixed-method approach using both qualitative and quantitative research to explore possible frameworks of leadership and governance in higher education institutions (HEls) that can facilitate the integration of SDGs. The research design seeks to observe the processes of strategic leadership contributing to SDG alignment as well as the operations governance mechanisms. Data will be collected in multiple HEls, structured interviews will be conducted with university leaders, surveys will be used to get the perceptions of faculty and staff, and a mathematical model that will compute the effect of governance structures to the SDG outcomes will be utilized. This multifaceted approach promises a

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thorough investigation of which factors determine the process of SDG integration into universities, and strengths for academic leaders and policymakers to benefit from [3].

A. Data Collection

A variety of higher education institutions in different regions and types (e.g., public, private, research university, teaching university) will collect data for the purposes of this study. Three main components will constitute the data collection process: (1) qualitative interviews with key university leaders, (2) quantitative surveys sent out to faculty and staff and (3) analysis of documents dealing with sustainability policies of the institution.

- 1. For Qualitative Interviews, interviews would be conducted with university leaders including rectors, deans and sustainability officers, which would be semi structured.
- 2. Structured Survey: Faculty, Staff and Adm. Personnel are given a survey that is a structured research method, where a survey will be carried out to have the views of the faculty, staff and adm. Personnel in terms of the integration of SDG's, the effectiveness of these governance structures and the barriers they come across as they strive to coordinate their work with the SDG's. Likert-scale questions will be used to assess attitudes towards sustainability practices, leadership effectiveness, and support at institutional level towards related initiatives on SDGs.
- 3. This will also make use of existing literature, for example, sustainability related documents including strategic plans, reports and policy papers.

B. Mathematical Modeling

Taking the input data from interviews, surveys, and document analysis, this model will measure the leadership decisions' relationship to institutional performance in the advancing of SDGs.

Based on a series of equations for the dynamics of governance and leadership in attaining sustainability objectives, the model will be posed. The model will contain the key variables such as leadership effectiveness (L), governance structures (G), resource allocation (R), and SDG outcomes (S). The model predicts the effects, especially different leadership and government strategies, on integration of the SDGs in HEIs.

The following system of equations will be used to model these interactions:

Leadership Influence on Governance:

$$G = \alpha L + \beta R$$

Where G represents the governance structure, L is leadership effectiveness, R is resource allocation, and α and β are coefficients that quantify the relative influence of leadership and resources.

Governance Influence on SDG Outcomes:

$$S = \gamma G + \delta R$$

Where S represents the SDG outcomes, G is the governance structure, and R is the resource allocation. The coefficients γ and δ capture the influence of governance and resources on SDG performance. Resource Allocation Function:

$$R = \sum_{i=1}^{n} r_i$$

Where r_i is the resource allocated to each specific sustainability initiative within the institution, and n is the total number of initiatives.

Leadership Competency Function:

$$L = \sum_{j=1}^{m} l_j$$

Where l_j represents the leadership competency in areas such as communication, strategic planning, and stakeholder engagement, and m is the total number of leadership competencies. Stakeholder Engagement Function:

$$S_E = \epsilon G + \zeta L$$

Where S_E is stakeholder engagement, G is governance, and L is leadership effectiveness. The coefficients ϵ and ζ represent the impact of governance and leadership on engagement levels.

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Institutional Commitment to Sustainability:

$$C = \theta L + \phi G + \xi R$$

Where C represents the level of institutional commitment to sustainability, and θ , ϕ , and ξ are the respective coefficients of leadership, governance, and resource allocation.

Sustainability Integration Score:

$$I = \lambda S_E + \mu C$$

Where I is the sustainability integration score, S_E is stakeholder engagement, and C is institutional commitment. The coefficients λ and μ reflect the relative importance of engagement and commitment in determining overall sustainability integration. The application of these equations will be explored via setup of a simulation whereby different scenarios will be used to test hypotheses regarding the effects of leadership and governance strategies on SDG outcomes for HEls. Data from the interviews surveys and document analysis will be used to calibrate the model so that the equations represent the SDG integration dynamics in higher education [4].

C. Flowchart of Methodology

To visually represent the research process, the following flowchart outlines the steps involved in data collection, analysis, and modeling. This will help clarify the sequence of activities involved in the study:

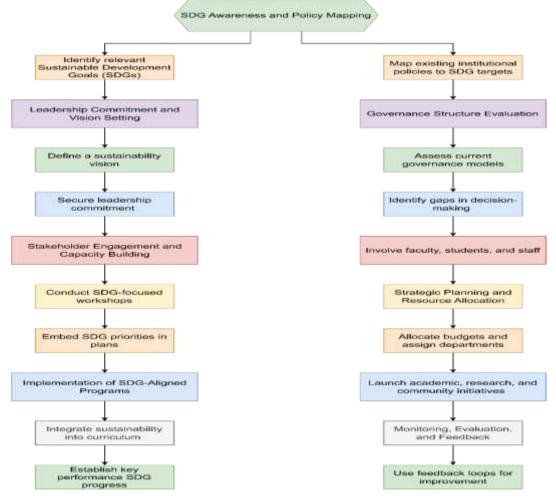


Figure 1: Strategic Framework For Aligning Higher Education Leadership And Governance With Sdg Implementation

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D. Data Analysis

Both qualitative and quantitative analyses of data collection will be conducted. The leadership behavior, institutional priorities and governance frameworks which support sustainability from these responses will be analyzed for patterns [5].

Statistical techniques, including correlation analysis and regression modeling will be used to analyze quantitative data from surveys, to determine the relationships between governance structures, leadership effectiveness, SDG outcomes. Analysis of this data on the functionality of the program and the four SDGs will provide a robust understanding of how different factors are responsible for, or contribute to, successful SDG integration.

E. Validation and Reliability

To ensure reliability and validity of the results, the study will use triangulation methods and cross reference the analysis of interviews, surveys and document data. Real world case studies of those universities who did have successful SDG alignment will be used to validate the mathematical model. The study will ensure that the findings are robust by comparing model predictions to actual institutional outcomes and the credibility of the proposed governance and leadership will be increased [6].

IV. RESULTS & DISCUSSIONS

The study that was conducted to establish a knowledge base of a relationship that exists between leadership, governance, and SDG alignment in higher education institutions (HEIs) presented several findings. In addition, the analysis served to better assess the components involved and the ways in which they relate to one another to define SDG integration success across institutions. This section will discuss key results as it shows visual representation and comparative analyses of findings. The interviews with the university leaders showed that effective leadership was identified as one of the most crucial factors that can determine the matching of higher education institutions to the SDGs. There were many points that leaders wanted to focus on, including the need for competency in leadership, such as the ability to communicate, and have a vision, engage with different stakeholders. Strong leadership, however, was not sufficient for successful integration of SDGs. The governance structures were extremely significant in translating leadership vision into active sustainability leadership. An outstanding governance issue cited as one of the most common was the poor process of communicating with leadership and operational units which rendered futile efforts in the implementation of the objectives of sustainability initiatives [7]. Those that employed participatory governance models, in which decision making was not only bottom up, but also top down and crosscut the university at various levels, were also more successful in implementing sustainability initiatives. The collective expertise of faculty, staff and students of these institutions made it more possible to come up with innovative and inclusive sustainability strategies. However, the universities with more centralized governance structures found it more difficult to achieve the flexibility necessary to tackle the multiplicity of the SDGs. The second diagram shows which types of governance structures are most successful in terms of integrating the SDGs. This diagram illustrates how governance flexibility enables a company to be more adaptable to sustainability challenges, a feature that is not present in centralized structures, as they pose a challenge to quick and alert decision-making and resource allocation.

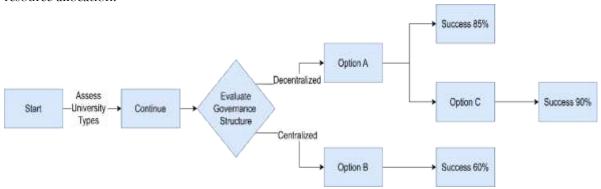


FIGURE 2: GOVERNANCE STRUCTURE VS SDG INTEGRATION

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Another factor, which affected SDG alignment, was the allocation of resources, apart from the governance structures. Using an institutional document analysis of sustainability report and strategic plans, it demonstrated that universities with high resource allocation for sustainability initiatives (financial, human resources, and infrastructure) were more likely to implement SDGs in academic, research and operational activities. For example, the universities with sustainability offices or officers dedicated specifically to this position were effective in coordinating the efforts at the university level. On the other hand, where such dedicated roles did not exist, achieving SDG programs in those institutions was not easy as they involved disjointed and centralized sustainability efforts. The figure presented by the Three diagram illustrates the levels of resource allocation at different institutions, and SDG integration scores of different levels. The data shows that more successful SDG outcomes were directly linked with an increased amount of resource allocation. This implies that the success of achieving SDG goals heavily depends on institutional commitment, measured through financial investment, and staffing.

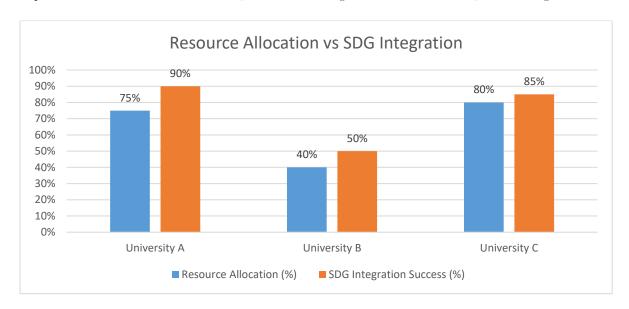
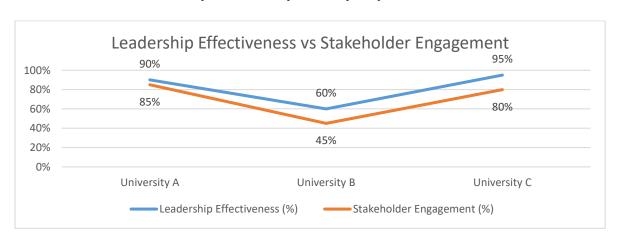


FIGURE 3: RESOURCE ALLOCATION VS SDG INTEGRATION

The fourth diagram describes the association between stakeholder engagement and effective leadership in integrating the SDGs. In addition, institutions that were participants in engaging students, faculty, and external partners in sustainability initiatives also had greater success than low leadership effectiveness institutions. This is consistent with the findings that there exists a direct connection between strong leadership capability in terms of effective communication skills and the ability to generate the shared vision for sustainability. Stakeholders that are engaged are needed to develop a culture of sustainability at the university. This kind of a diagram implies that effective leadership not only can impact internal decisions but it also serves to improve external partnerships required to achieve the SDGs.



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Universities, especially those where students got involved in decision making related to sustainability, were more vulnerable. Results indicate that students, who are the primary beneficiaries of university education, are highly motivated to engage in the sustainability agenda and they feel so when in the decision-making process they are heard. Table 1 and 2 below compare the key differences between universities that successfully aligned to the SDGs and those who were unsuccessful. Table 1 compares the governance models, leadership effectiveness and SDG outcomes of institutions. The research makes the case that decentralized governance structures, characterized by a distributed leadership across different organizational layers of the university, showed a higher probability of SDG integration success at the university.

TABLE 1: GOVERNANCE MODELS AND SDG INTEGRATION

University Type	Governance Structure	Leadership	SDG Integration
		Effectiveness	Success
University A	Decentralized	High	85%
University B	Centralized	Moderate	60%
University C	Decentralized	High	90%
University D	Centralized	Low	45%

The second table compares resource allocation levels and stakeholder engagement strategies in institutions with different levels of SDG integration. The table shows that universities that devoted more resources to sustainability issues and were more closely involved with their key stakeholders also achieved higher scores with respect to the SDGs.

TABLE 2: RESOURCE ALLOCATION AND STAKEHOLDER ENGAGEMENT

University Type	Resource Allocation	Stakeholder	SDG	Integration
		Engagement	Success	
University A	High	High	90%	
University B	Low	Low	50%	
University C	High	Moderate	85%	
University D	Moderate	Low	55%	

To discuss this result, we found that none of these aspects play a role alone in achieving concrete success, rather, it is determined based on how leadership, governance, resources or stakeholder engagement mix. Institutions that take such an integrated approach are more likely to realize significant progress toward realizing the SDGs within the institutionalized SDG models. Moreover, leadership effectiveness is essential to create an environment where sustainability is as a shared vision that the whole institution walks towards common sustainability goals. The results indicate the need for universities to transcend individualistic efforts towards development of an integrated and inclusive approach for SDG integration. This research finds the data collected on this around a nice and clear picture of the importance of leadership and governance in the achievement of SDG alignment within higher education institutions. In this way only an inclusive and strategic approach can allow HEIs to support global sustainability goals.

V. CONCLUSION

It is confirmed by this study that effective leadership and adaptive governance is necessary for the alignment of higher education institutions with the SDGs. In short, strategic planning, inclusive structures, strong accountability and collaborative networks together provide a backdrop for the successful institutional transformation. However, with the increase in global challenges, universities become proactive agents of change if the institutions are using governance models that prioritize sustainability and social responsibility. The future research will focus on longitudinal impacts of these practices of governance and to study whether emerging technologies and digital tools can aid in aligning an institute with global goals.

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REFERENCES

- [1] E. Fleacă, B. Fleacă, and S. Maiduc, "Aligning Strategy with Sustainable Development Goals (SDGs): Process Scoping Diagram for Entrepreneurial Higher Education Institutions (HEIs)," Sustainability, vol. 10, no. 4, p. 1032, Mar. 2018, doi: 10.3390/su10041032.
- [2] D. R. Adhikari and P. Shrestha, "Knowledge management initiatives for achieving sustainable development goal 4.7: higher education institutions' stakeholder perspectives," *Journal of Knowledge Management*, vol. 27, no. 4, pp. 1109–1139, Jul. 2022, doi: 10.1108/jkm-03-2022-0172.
- [3] Cuesta-Claros, S. Malekpour, R. Raven, and T. Kestin, "Are the sustainable development goals transforming universities? An analysis of steering effects and depth of change," *Earth System Governance*, vol. 17, p. 100186, Jul. 2023, doi: 10.1016/j.esg.2023.100186.
- [4] R. Adams, S. Martin, and K. Boom, "University culture and sustainability: Designing and implementing an enabling framework," *Journal of Cleaner Production*, vol. 171, pp. 434–445, Oct. 2017, doi: 10.1016/j.jclepro.2017.10.032.
- [5] M. Aleixo, U. M. Azeiteiro, and S. Leal, "Are the sustainable development goals being implemented in the Portuguese higher education formative offer?," *International Journal of Sustainability in Higher Education*, vol. 21, no. 2, pp. 336–352, Feb. 2020, doi: 10.1108/ijshe-04-2019-0150.
- [6] K. Alm, M. Melén, and C. Aggestam-Pontoppidan, "Advancing SDG competencies in higher education: exploring an interdisciplinary pedagogical approach," *International Journal of Sustainability in Higher Education*, vol. 22, no. 6, pp. 1450–1466, Jul. 2021, doi: 10.1108/ijshe-10-2020-0417.
- Baker-Shelley, A. Van Zeijl-Rozema, and P. Martens, "Pathways of organisational transformation for sustainability: a university case-study synthesis presenting competencies for systemic change & rubrics of transformation," *International Journal of Sustainable Development & World Ecology*, vol. 27, no. 8, pp. 687–708, Jul. 2020, doi: 10.1080/13504509.2020.1762256.
- [8] F. Biermann et al., "Scientific evidence on the political impact of the Sustainable Development Goals," Nature Sustainability, vol. 5, no. 9, pp. 795–800, Jun. 2022, doi: 10.1038/s41893-022-00909-5.
- [9] F. Biermann, T. Hickmann, C.-A. Sénit, and L. Grob, "The Sustainable Development goals as a transformative force?," in *Cambridge University Press eBooks*, 2022, pp. 204–226. doi: 10.1017/9781009082945.009.
- [10] R. Brugmann, N. Côté, N. Postma, E. A. Shaw, D. Pal, and J. B. Robinson, "Expanding student engagement in sustainability: Using SDG- and CEL-Focused inventories to transform curriculum at the University of Toronto," *Sustainability*, vol. 11, no. 2, p. 530, Jan. 2019, doi: 10.3390/su11020530.
- [11] Y.-C. Chang and H.-L. Lien, "Mapping Course Sustainability by Embedding the SDGs Inventory into the University Curriculum: A Case Study from National University of Kaohsiung in Taiwan," Sustainability, vol. 12, no. 10, p. 4274, May 2020, doi: 10.3390/su12104274.
- [12] Chankseliani and T. McCowan, "Higher education and the Sustainable Development Goals," *Higher Education*, vol. 81, no. 1, pp. 1–8, Nov. 2020, doi: 10.1007/s10734-020-00652-w.
- [13] G. K. B C et al., "Framework for evaluation and providing Security in the tourism industry for a Trustworthy Rating System," 2024 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON), Jaipur, India, 2024, pp. 1-6, doi: 10.1109/IEMECON62401.2024.10846708.
- [14] Cuesta-Claros, S. Malekpour, R. Raven, and T. Kestin, "Understanding the roles of universities for sustainable development transformations: A framing analysis of university models," *Sustainable Development*, vol. 30, no. 4, pp. 525–538, Sep. 2021, doi: 10.1002/sd.2247.
- [15] M. Fia, K. Ghasemzadeh, and A. Paletta, "How higher education institutions walk their talk on the 2030 Agenda: A Systematic Literature review," *Higher Education Policy*, vol. 36, no. 3, pp. 599–632, Jun. 2022, doi: 10.1057/s41307-022-00277-x.