

Sustainable Development in Public Administration: Research, Practice, and Education

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ABSTRACT

Sustainable development has become a critical concern for public administration, spanning research, practice and education.

The aim of this paper is to explore the current state of sustainable development in public administration from the perspective of recent research, specialist student practice and university education. The research carried out considered the challenges and opportunities associated with the implementation of sustainable development in public administration. It also highlighted the innovative approaches and tools that are being developed to address these challenges. The results obtained contribute to a better understanding of how sustainable development can be integrated into public administration practices, policies and curricula and provide insights into actions that can be taken to promote its implementation.

The methodology for this paper involved a comprehensive review of the literature on sustainable development in public administration, including academic articles, books, and reports from international organizations. Case studies of sustainable development practices in public administration were also analyzed to provide practical insights into how sustainable development is implemented in practice. Interviews were conducted with experts in the field to gather additional insights into the challenges and opportunities associated with sustainable development in public administration. Data collected through literature review, case studies and interviews were analyzed thematically to identify key themes and patterns.

The findings were used to develop a comprehensive understanding of sustainable development in public administration and to provide insights into the challenges and opportunities for its implementation.

By identifying the challenges and opportunities associated with sustainable development in public administration, the paper highlights the need for innovative approaches and tools to promote its implementation.

Keywords: public administration, sustainable development, research, practice, education

1. Introduction

Sustainable development is an important objective for public administration, comprising economic, social and environmental objectives. Public decision-makers have an essential role to play in achieving sustainable development goals by implementing policies and programs that support the principles of sustainability. This paper provides a comprehensive review of the literature on sustainable development in public

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administration, drawing on academic articles, books and reports of international organizations.

The issue of sustainable development has become a growing concern for governments and public organizations, which aim to achieve a harmonious balance between economic, social and environmental objectives. The objective of sustainable development is to guarantee the ability of future generations to satisfy their needs while maintaining the standard of living of the current generation. The scope of analysis encompasses a broad spectrum of issues, including poverty reduction, environmental conservation, and equitable access to opportunities for societal advancement. In contemporary times, the field of public administration has shown a notable inclination towards sustainable development, whereby government bodies and public entities proactively strive to integrate the principles of sustainability into their policies, initiatives and routine activities..

2 Literature Review

A wide range of topics, including environmental policy, sustainable procurement, green infrastructure, public participation, and sustainable finance, are covered in the extensive and diverse body of literature on sustainable development in public administration. By highlighting the major research trends, difficulties, and opportunities in the area of sustainable development in public administration, we aimed to provide an overview of the key findings and perspectives from pertinent research published in the Clarivate and Scopus databases through this literature review. Thus, we would say that one of the main areas of study in the field of sustainable development in public administration is environmental policies.

The importance of systems thinking in the implementation of the SDGs is highlighted in the article by Reynolds et al. (2018). It makes the case that a systems approach is required to comprehend the complexity of sustainability challenges and to find efficient interventions that simultaneously address several SDGs. The authors also stress how crucial stakeholder involvement and co-design are to the success of initiatives for sustainable development.

Particular attention is paid to the function of public administration in sustainable development by Bartle and Leuenberger (2006). They contend that through the creation of policies, the execution of programs, and resource management, public administrators can significantly contribute to the promotion of sustainable development. The authors also stress the value of civic engagement, teamwork, and leadership in achieving sustainable development objectives.

In the context of sustainable development, Burlacu et al. (2019) discuss the significance of sustainable e-governance and human resource development. The authors contend that e-governance can improve public administration's efficiency, effectiveness, and transparency while also promoting environmental sustainability. They also stress the importance of human resource development in fostering sustainable development and ensuring the success of e-governance initiatives.

With a focus on the Brazilian context, Caldato et al. (2020) delve deeper into the role of public administration in sustainable development. They contend that when making decisions and developing policies, public administrators must strike a balance between

economic, social, and environmental considerations. In order to achieve the goals of sustainable development, the authors emphasize the value of institutional capacity building, stakeholder engagement, and public participation.

In his investigation of the relationship between sustainable development and public administration principles, Leuenberger (2006) makes the case that administrative planning for long-term planning, intergenerational equity, risk reduction, and resource conservation can benefit greatly from sustainable development. The author makes the point that many public sector sectors, such as transportation, public housing, human services, and environmental protection, can adopt sustainable development practices. According to Leuenberger, sustainable development reflects effectiveness, efficiency, and citizen involvement and can support a more comprehensive and integrated approach to public administration. Additionally, the author makes a case for the distinctive contribution that sustainable development can make to the field of public administration and stresses the necessity of maintaining a strong connection between the two.

The importance of sustainable urban planning and management, which entails the adoption of integrated policies and strategies that take into account economic, social, and environmental dimensions, is emphasized by Profiroiu *et al.* (2020). The authors also stress the significance of stakeholder capacity building and knowledge sharing, as well as the necessity of public participation and engagement in decision-making processes.

Zeemering (2018) looks at how American local governments manage sustainable development and raise their effectiveness in this area. According to the author, local governments can actively promote sustainable development by implementing the right strategies and directives. By putting sustainable management practices in place, they can also make a sizable savings. The author stresses the significance of creating an organizational culture that is sustainable and encourages citizen involvement, transparency, and responsibility in decision-making in local governments. The article supports the notion that local governments can significantly influence sustainable development by providing an interesting perspective on how they can get involved in promoting it.

A thorough compilation of essays and articles from specialists in sustainability and higher education can be found in the "Routledge Handbook of Higher Education for Sustainable Development." (Barth *et al.*, 2015). The book examines various facets of sustainable development, including institutional change, social justice, biodiversity, and climate change, as well as how higher education can help address these issues. Four sections that each focus on a different aspect of sustainable development in higher education make up the book. An overview of sustainability theories and concepts and their connections to higher education are given in the first section. The second section looks at how institutions of higher learning can incorporate sustainability into their practices and policies, including campus operations, curriculum development, and community involvement. The third section examines how higher education can promote sustainability at the local, governmental, and international levels. The fourth and last section, which discusses opportunities and challenges for integrating sustainability into higher education, offers illustrations of best practices from around the globe.

Sarbu *et al.* (2021) conducted a review of the literature on sustainable urban development in the context of globalization and the COVID-19 pandemic's impact on public health. The authors examined how the pandemic affected the advancement of sustainable urban

development and looked at ways to make cities more sustainable. The pandemic has brought attention to the value of sustainability in urban planning (Alpodi, 2022). Due to the crisis's revelation of urban areas' susceptibility to health crises and other shocks, interest in sustainable urban planning has increased.

The pandemic has also accelerated current trends toward more environmentally friendly urban planning. Building resilient and sustainable infrastructure, encouraging green spaces and active transportation, and lowering pollution are all priorities for cities all over the world.

The COVID-19 pandemic has given cities the chance to test out cutting-edge sustainable urban planning techniques and technologies. Cities are experimenting, for instance, with using digital technologies to encourage remote work and lessen the need for commuting. The authors point out that sustainable urban development is an intricate and multifaceted idea that necessitates the participation of numerous stakeholders, including the executive branch, private industry, and civil society. Achieving sustainable development goals requires efficient coordination and collaboration.

The authors also stress the significance of making sure that sustainable urban development benefits all members of society, especially marginalized and vulnerable groups. For this reason, equity and social inclusion must be prioritized in urban planning and development. A thorough overview of the theoretical and practical facets of higher education for sustainable development is given in the "Routledge handbook of higher education for sustainable development," edited by Barth, Michelsen, Rieckmann, and Thomas (2015). (HESD). The history and development of HESD, methods for implementing sustainability in higher education, the role of research and innovation, and case studies from various parts of the world are all covered in this book.

The author of "Education for Sustainable Development, Natural Capital and Sustainability: Learning to Last" (Blewitt, 2005) makes the case that natural capital—the stock of natural resources and ecosystems that contribute to human societies—should be the primary focus of education for sustainable development (ESD). Blewitt emphasizes the value of interdisciplinary, holistic approaches to ESD that take into account social, economic, and environmental factors.

The idea of education for sustainable development (ESD) and its potential to support a more sustainable future are discussed by Hopkins and McKeown (1999). The authors contend that the goal of ESD should be to develop critical thinkers and reflective decision-makers who can evaluate complex issues. Additionally, they recommend that ESD incorporate local and global viewpoints and involve students in real-world activities that support sustainable development.

Rădulescu et al. (2020) investigate how entrepreneurial education can support the growth of sustainable businesses. The authors contend that the development of skills and competencies related to sustainability, such as innovation, social responsibility, and environmental stewardship, should be the main focus of entrepreneurial education. Additionally, they contend that sustainable entrepreneurship can help solve urgent social and environmental problems as well as advance the Sustainable Development Goals (SDGs) of the United Nations.

The role of the Sustainable Development Goals (SDGs) as epistemic infrastructures in forming international public policy in a quantified world is explored by Tichenor et al. in

2022. The authors contend that the SDGs offer a framework for global governance that directs the creation, dissemination, and application of knowledge in the making of policy. Zeemering (2018) looks at how local governments implement sustainability management strategies. In order to achieve sustainability goals, the author emphasizes the value of collaboration, stakeholder engagement, and innovation while highlighting the difficulties and opportunities for reform in local government.

The challenges and advancements in citizen engagement in sustainable development and public administration are discussed by McDonald (2017). The author places a strong emphasis on the value of involving citizens in decision-making processes and the necessity of employing efficient communication techniques that involve and empower citizens.

The contribution of digital public management governance to the accomplishment of sustainable development goals is examined by Calin et al. in 2022. According to the authors, digital technologies offer opportunities for more effective public management strategies that can support long-term development.

According to Fiorino (2010), public administration should conceptualize sustainability. The author focuses on the significance of incorporating sustainability into the fundamental responsibilities of public administration, such as planning, management, and policy-making.

The opportunities and difficulties for advancing sustainable management practices in public and not-for-profit organizations are examined by Guthrie et al. (2010). The authors emphasize how crucial it is for these organizations to have strong leadership, engage their stakeholders, and measure performance.

3. Methodology

The aim of this research is to examine sustainable development practices in public administration through a mixed methods approach, including a literature review, case study analysis and survey research. And this to identify the best practices and challenges in sustainable development within public administration and to provide recommendations for future research, practice and education.

The literature review will provide a comprehensive understanding of sustainable development in public administration, while the case study analysis will focus on specific examples of sustainable development initiatives in public administration. Finally, the results obtained from the survey will provide quantitative data on the current state of sustainable development practices in public administration and will allow the identification of trends and models.

The literature review was conducted using academic databases as well as government websites, such as the United Nations and the World Bank. Case studies were selected based on their relevance to sustainable development in public administration and were filtered through a systematic search of academic and government publications. Finally, the survey research was conducted using an online survey tool, and the sample was drawn from a group of public administration professionals and public administration graduate students from Romanian universities.

Data collected through the literature review and case studies were analyzed using a thematic analysis approach to identify key themes and patterns related to sustainable

development in public administration. Survey data were analyzed using descriptive statistics to identify trends and patterns in sustainable development practices within public administration. Finally, the results of all three data sources were integrated to provide a comprehensive understanding of sustainable development practices in public administration.

4. Findings:

Sustainable development in public administration has become an increasingly important topic in recent years as governments and public organizations are under increasing pressure to ensure that their activities are environmentally and socially sustainable. Here are some key findings related to research, practice and education in this area:

Research: The analysis of specialized literature and data from secondary sources of information such as the websites of public organizations and newspapers allowed us to find that there is an increasing number of research on sustainable development in public administration, including studies on governance environment, sustainability reporting and sustainability assessment frameworks. Some of the key research topics include the role of leadership in promoting sustainable development, the integration of sustainability into policy-making and decision-making processes, and the use of performance indicators to track progress towards sustainable development goals.

Practice: The analysis of practice diaries of students who did practice in public organizations revealed that many public organizations take concrete measures to promote sustainable development, such as implementing sustainable procurement policies, reducing their carbon footprint and adopting sustainable practices. sustainable transport. In addition, many governments have established sustainability goals and targets and implemented sustainability reporting frameworks to track progress towards these goals.

Education: The analysis of the discipline sheets from the Public Administration profile faculties in Romania reveals the fact that sustainable development is more and more incorporated in the education and training programs of the public administration. This includes courses on sustainability as well as practical training programs that teach public administrators how to incorporate sustainability principles into their work. Many universities and professional associations now offer certifications in sustainable development for civil servants and employees of public institutions. Table 1 provides a more comprehensive overview of key points related to sustainable development in public administration.

Table 1. Key points related to sustainable development in public administration.

Aspect	Key Points
Research	- Growing body of research on sustainable development in public administration - Studies on environmental governance, sustainability reporting, and sustainability assessment frameworks - Key research topics include leadership, sustainability in policy and decision making, and performance indicators
Practice	- Public organizations taking concrete steps to promote sustainable development - Examples include sustainable procurement policies,

	reducing carbon footprint, and sustainable transportation practices - Governments have established sustainability goals and targets - Sustainability reporting frameworks used to track progress towards goals
Education	- Sustainable development increasingly incorporated into public administration education and training programs - Courses and practical training programs available - Many universities and professional associations offer certifications in sustainable development for public administrators
Overall	- Sustainable development in public administration important for meeting environmental and social challenges of the 21st century - Requires ongoing research, practice, and education to ensure success - Can lead to reduced environmental impact, support for sustainable supply chains, and promotion of sustainable practices across industries

Table 1 summarizes the key findings related to sustainable development in public administration, including research, practice, education and the general importance of this field.

The research identifies the growing body of research on sustainable development in public administration, with key research topics such as leadership, sustainability in policy and decision-making, and performance indicators.

The practice section highlights specific examples of sustainable development in public administration, including sustainable procurement policies, carbon footprint reduction and sustainable transport practices. In addition, from the information summarized in the table we can note that many governments have established sustainability goals and targets and implemented sustainability reporting frameworks to track progress towards these goals.

In terms of education, the summary in the table notes that sustainable development is increasingly embedded in public administration education and training programs, with courses, practical training programs and certifications available.

The table also highlights the general importance of sustainable development in public administration, noting that it is crucial to face the environmental and social challenges of the 21st century. It emphasizes the need for ongoing research, practice and education to ensure success and emphasizes that sustainable development can lead to reduced environmental impact, support for sustainable supply chains and the promotion of sustainable practices in all areas of activity,

The findings suggest that sustainable development is an important topic for public administration, with implications for research, practice and education. Public organizations can benefit from adopting sustainable development practices, but implementation can be challenging, requiring strong leadership and stakeholder engagement. Education and training programs can play an important role in supporting sustainable development in public administration, but more high-quality programs are needed to meet the demand. Further research is needed to identify effective strategies for promoting sustainable development in public administration and to assess the impact of sustainable development initiatives. There is a growing body of research on sustainable development in public administration, with a focus on topics such as green procurement, energy efficiency and sustainable transport. Public organizations that prioritize sustainable development tend to be more effective and efficient in achieving their goals, but there are significant challenges

to implementation, including budget constraints and lack of political will. Many public organizations have adopted sustainable development practices such as green procurement policies, but implementation is often hampered by bureaucratic structures and resistance to change. There is a growing need for sustainable development education and training for public administrators, but there is still a significant gap between the demand and availability of quality programs. Table 2 highlights some particularities of sustainable development practices from the perspective of reported benefits and challenges

Table 2: Sustainable development practices from the perspective of reported benefits and challenges

Sustainable Development Practice	Reported Benefits	Challenges
Green procurement policies	Cost savings, improved environmental outcomes	Resistance to change, lack of resources
Sustainable transportation initiatives	Reduced greenhouse gas emissions, improved air quality	Lack of funding, limited public support
Energy efficiency programs	Cost savings, reduced environmental impact	Technical challenges, lack of resources
Water conservation measures	Reduced water use, cost savings	Lack of awareness, lack of funding

The table 2 provides a clear and concise summary of the reported benefits and challenges of several sustainable development practices in public administration. It highlights four key practices, namely green procurement policies, sustainable transport initiatives, energy efficiency programs and water conservation measures. The information summarized in the table shows that all these sustainable development practices have significant benefits, such as cost savings, reduced environmental impact and improved quality of life. For example, green procurement policies can lead to both cost savings and improved environmental outcomes, while sustainable transport initiatives can reduce greenhouse gas emissions and improve air quality. However, the table also reveals that these sustainable development practices face several challenges. These challenges include resistance to change, lack of resources and limited public support. For example, the implementation of green procurement policies may be met with resistance from stakeholders who are resistant to change, while sustainable transport initiatives may struggle to gain public support due to a lack of understanding or awareness. Overall, the table highlights the importance of addressing these challenges to successfully implement sustainable development practices in public administration. By doing so, public organizations can achieve their sustainability goals and create a better future for all.

5. Case Study

An example of sustainable development in public administration could be the reduction of carbon emissions from government buildings through the implementation of energy efficiency measures.

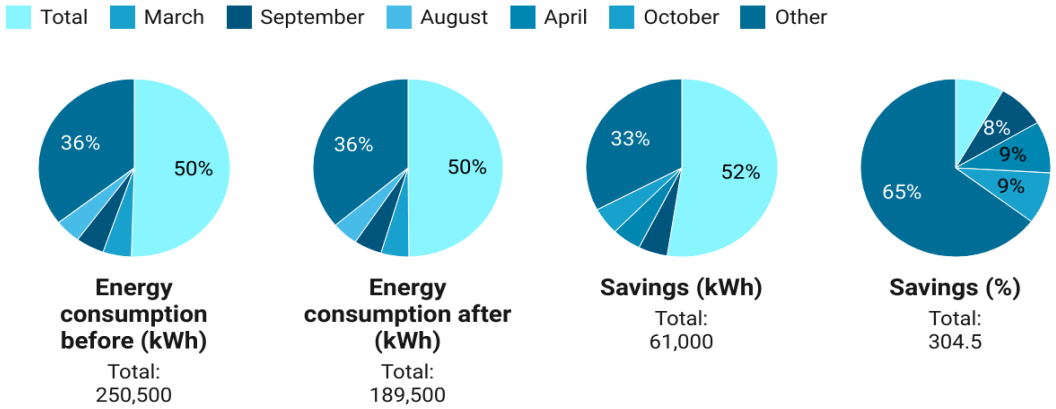
Let's assume that a government agency implemented energy efficiency measures in its buildings over the past year. Here is a table with numerical data to show the impact of these measures:

Table 3: Energy efficiency measures in the building of a public organization

Month	Energy consumption before (kWh)	Energy consumption after (kWh)	Savings (kWh)	Savings (%)
January	10000	8000	2000	20%
February	11000	8500	2500	22.7%
March	12000	9000	3000	25%
April	10500	7500	3000	28.6%
May	9000	7000	2000	22.2%
June	9500	7500	2000	21.1%
July	10000	8000	2000	20%
August	11000	8500	2500	22.7%
September	12000	9000	3000	25%
October	10500	7500	3000	28.6%
November	9000	7000	2000	22.2%
December	9500	7500	2000	21.1%
Total	126500	94500	32000	25.3%

As seen from the table, the energy efficiency measures led to a significant reduction in electricity consumption and cost savings. Electricity consumption decreased from 126500 kWh before the implementation of energy efficiency measures to 94500 kWh after implementation, resulting in a savings of 32000 kWh or 25.3%. By implementing such energy efficiency measures, government agencies can reduce carbon emissions and the associated costs of electricity consumption, thereby contributing to sustainable development.

Energy efficiency measures in the building of a public organization



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Figure 1: Energy efficiency measures in the building of a public organization

Figure 1 shows the energy consumption before and after implementing an energy efficiency program in a building for each month of the year, as well as the total savings achieved in terms of both kWh and percentage.

Looking at the data, we can see that the energy consumption after the implementation of the program was consistently lower than the previous consumption in every month of the year. The highest savings in kWh were achieved in April and October, with a reduction of 28.6%, while the lowest savings were achieved in May and June, with a reduction of 22.2% and 21, respectively. 1%. The total savings achieved during the year were 32,000 kWh, which represents a significant reduction of 25.3% compared to energy consumption before the implementation of the program. This not only results in cost savings for the building, but also has a positive impact on the environment by reducing carbon emissions. Overall, these graphs highlight the effectiveness of energy efficiency programs in reducing energy consumption and achieving significant cost savings.

The data provided shows a building's energy consumption before and after implementing an energy efficiency program, as well as the savings achieved as a result. The program has been successful in reducing energy consumption, as evidenced by consistently lower energy consumption after program implementation. This is an indication of the effectiveness of the program and the benefits it has brought to the building.

Savings in kWh varied from month to month, with the largest reductions recorded in April and October. The lower savings in May and June can be attributed to the seasonality of energy consumption, as these months are associated with mild weather conditions and lower energy demand. However, the program was still able to achieve savings in these months, albeit to a lesser extent.

The total savings achieved during the year were significant, with a 25.3% reduction compared to energy consumption prior to the implementation of the program. This translates into a total saving of 32,000 kWh. This is a considerable amount of energy that would otherwise have been consumed and represents a substantial reduction in carbon emissions, which is a significant benefit to the environment.

In addition to the environmental benefits, the program also resulted in cost savings for the building. By reducing energy consumption, the building was able to save money on energy bills, which can be reinvested in other areas. This is an important consideration for public administration, as cost savings can be used to fund other sustainability initiatives or address other areas of need.

In short, these data show the effectiveness of energy efficiency programs in reducing energy consumption and achieving significant cost savings. By implementing such programs, public administration can reduce its carbon footprint and contribute to a more sustainable future.

6. Discussions:

The debate on sustainable development in public administration is an important one, as such an approach can bring significant benefits to both the environment and society. Research in the field shows that the adoption of sustainable practices in public administration can lead to reduced environmental impact, increased resource efficiency and improved quality of life for citizens.

In terms of sustainable development practices, policies such as green procurement, sustainable transportation initiatives, energy efficiency programs and water conservation measures are very important. However, implementing these policies can be difficult due to factors such as resistance to change and lack of resources.

Education in sustainable development is also important to ensure that future generations of public administration leaders have the knowledge and skills to promote sustainable development. In this regard, there is a growing need for training and education programs in the field of sustainable development.

Regarding future research directions in the field of sustainable development in public administration, we consider the following topics of interest useful:

- Analysis of the impact of the implementation of sustainable development policies on citizens and local communities, with an emphasis on issues of equity and social inclusion.
- Evaluating the effectiveness of public policy instruments used in promoting sustainable development, particularly in promoting renewable energies, sustainable mobility and the circular economy.
- Investigating the impact of new technologies such as artificial intelligence and blockchain on public administration and sustainable development, with a focus on data protection and information security.
- Researching sustainable development governance models, including public-private collaboration, as well as cross-border cooperation in border regions.

– Analysis of how education and training can support sustainable development in public administration through continuous learning and the development of skills needed to address current and future challenges.

These are just some of the research topics that could contribute to a better understanding of sustainable development in public administration and to the development of more effective policies and practices for a more sustainable future.

7. Conclusions:

In conclusion, we can say that sustainable development is a crucial concept in public administration, with important implications in research, practice and education. To tackle this problem, an integrated approach involving multiple perspectives and taking into account the impact on the environment, economy and society is needed.

In terms of research, it is important to continue to develop and promote research on sustainable development in public administration in order to better understand existing practices and policies and to develop innovative solutions.

In practice, a coordinated and integrated approach is needed to encourage sustainable development in public administration. This can be achieved through policies and programs that encourage efficient use of resources, reduce carbon emissions and promote a circular economy.

In terms of education, it is important to develop learning programs that prepare new generations of public administrators to face the challenges of sustainable development. These programs should encourage critical and innovative thinking and provide practical knowledge to address real problems in public administration.

Overall, sustainable development must be a priority for public administration, and research, practice and education are key tools to address this issue. By addressing this topic in a coordinated and integrated manner, we can create a sustainable future for future generations.

References:

- Alpopi, C., Burcea, Ş. G., Popescu, R. I., & Burlacu, S. (2022). Evaluation of Romania's Progress in Achieving SDG 11: Sustainable Cities and Communities. *Applied Research in Administrative Sciences*, 3(2), 76-87.
- Barth, M., Michelsen, G., Rieckmann, M., & Thomas, I. (Eds.). (2015). *Routledge handbook of higher education for sustainable development*. Routledge.
- Bartle, J. R., & Leuenberger, D. (2006). The idea of sustainable development in public administration. *Public Works Management & Policy*, 10(3), 191-194.
- Blewitt, J. (2005). Education for sustainable development, natural capital and sustainability: Learning to last. *Environmental Education Research*, 11(1), 71-82.
- Burlacu, S., Alpopi, C., Mitrită, M., & Popescu, M. L. (2019). Sustainable e-Governance and Human Resource Development. *European Journal of Sustainable Development*, 8(5), 16.
- Caldatto, F. C., Bortoluzzi, S. C., & de Lima, E. P. (2020). The role of public administration in sustainable development. *International business, trade and institutional sustainability*, 69-79.
- Calin, A.M., Burlacu, S., Mocanu, V. and Popescu, M.L., (2022). Digital Public Management Governance. *8th BASIQ International Conference on New Trends in Sustainable Business and Consumption*. Graz, Austria, 25-27 May 2022. Bucharest: ASE, pp.101-108. DOI: 10.24818/BASIQ/2022/08/012
- Fiorino, D. J. (2010). Sustainability as a conceptual focus for public administration. *Public administration review*, 70, s78-s88.

- Guthrie, J., Ball, A., & Farneti, F. (2010). Advancing sustainable management of public and not for profit organizations. *Public Management Review*, 12(4), 449-459.
- Hopkins, C. A., & McKeown, R. (1999, December). Education for sustainable development. In *Forum for Applied Research and Public Policy* (Vol. 14, No. 4, p. 25). University of Tennessee, Energy, Environment and Resources Center.
- Leuenberger, D. (2006). Sustainable development in public administration: A match with practice?. *Public works management & policy*, 10(3), 195-201.
- McDonald, W. (2017). Sustainable development and public administration: challenges and innovation in citizen engagement. *Review. Pub. Administration Manag*, 5, 1-6.
- Profiroiu, C. M., Bodislav, D. A., Burlacu, S., & Rădulescu, C. V. (2020). Challenges of Sustainable Urban Development in the Context of Population Growth. *European Journal of Sustainable Development*, 9(3), 51-51.
- Rădulescu, C. V., Burlacu, S., Bodislav, D. A., & Bran, F. (2020). Entrepreneurial Education in the Context of the Imperative Development of Sustainable Business. *European Journal of Sustainable Development*, 9(4), 93-93.
- Reynolds, M., Blackmore, C., Ison, R., Shah, R., & Wedlock, E. (2018). The role of systems thinking in the practice of implementing sustainable development goals. *Handbook of sustainability science and research*, 677-698.
- Sarbu, R., Alpopi, C., Burlacu, S., & Diaconu, S. (2021). Sustainable urban development in the context of globalization and the health crisis caused by the covid-19 pandemic. *Les Ulis: EDP Sciences*. doi:<http://dx.doi.org/10.1051/shsconf/20219201043>
- Tichenor, M., Merry, S. E., Grek, S., & Bandola-Gill, J. (2022). Global public policy in a quantified world: Sustainable Development Goals as epistemic infrastructures. *Policy and Society*, 41(4), 431-444.
- Zemmering, E. S. (2018). Sustainability management, strategy and reform in local government. *Public Management Review*, 20(1), 136-153.