

ENVIRONMENTAL INFORMATION UTILIZATION AND SOCIAL RESPONSIBILITIES OF MEDIA HOUSES IN URBAN AREAS

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Abstract

Environmental sustainability has become an urgent global concern due to the escalating threats of climate change, urban pollution, and ecological degradation. The study is non-empirical, relying exclusively on secondary sources such as books, journal articles, government reports, and credible online publications. By adopting a literature-based approach, it builds a scholarly argument that environmental information utilization is not only a civic obligation but also a professional responsibility for media houses. The study examines the impact of environmental information utilization on the social responsibilities of media houses in urban areas. It highlights the civic and ethical obligations of media institutions, the role of environmental journalism, and the link between effective information use and societal transformation. The study also emphasizes the challenges faced by Nigerian media in accessing, interpreting, and disseminating environmental information, ranging from financial constraints and technical limitations to political censorship and low audience engagement. Findings from the reviewed literature revealed that effective utilization of environmental information significantly enhances the ability of media houses to fulfill their social responsibilities. Media houses contribute to public enlightenment, policy advocacy, early warning dissemination, and environmental accountability by translating complex environmental data into accessible information for urban populations. The study further found that local and regional media outlets play a critical role in addressing community-specific environmental problems such as flooding and poor waste management, especially through indigenous language broadcasts that promote grassroots participation. The study concludes that environmental information utilization is fundamental to the social responsibility mandate of media houses in urban areas. Strengthening institutional capacity, improving access to environmental data, enhancing collaboration with environmental experts and government agencies, and encouraging supportive policy frameworks will enable media houses to more effectively complement government efforts and contribute to sustainable urban development. The study recommended among that media houses should carry out special need training programs in environmental journalism to enhance the competence of journalists.

Keywords: Environmental Journalism, Climate Communication, Media Accountability, Environmental Awareness, Sustainable Media Practices, Public Engagement, Urban Development, Environmental Reporting

Introduction

The media is widely regarded as one of the most influential institutions in modern society, functioning as a critical channel for the collection, processing,

and dissemination of information (McQuail, 2010). Media houses—whether in print, broadcast, or digital form—do not merely entertain; they shape public opinion, influence

policymaking, and facilitate civic participation.

In Nigeria, notable media outlets such as Channels Television, Arise News, The Punch, Daily Trust, and The Guardian operate mainly in large urban centers like Lagos, Abuja, and Port Harcourt, where rapid industrialization and population density have heightened environmental challenges (Asemah, 2011). These cities face pressing ecological issues ranging from traffic-induced air pollution and flooding to coastal erosion and industrial emissions (UNEP, 2016). Lagos, for example, is notorious for recurrent flooding, while Port Harcourt has earned global attention for its “black soot” pollution crisis caused by illegal oil refining and industrial waste (Okoro & Nnaji, 2017).

Globally, environmental journalism has emerged as a cornerstone of sustainable development. UNESCO (2019) emphasizes that the media is indispensable for achieving the Sustainable Development Goals (SDGs), particularly Goal 11 (Sustainable Cities and Communities) and Goal 13 (Climate Action). In Nigeria, this responsibility is not limited to metropolitan centers. Local and regional media outlets such as Tribune (Ibadan), OSRC (Akure), Progress FM (Ado-Ekiti), and EKSU Campus FM play crucial roles in addressing community-specific issues such as indiscriminate waste disposal, seasonal flooding in Iroba and Ajilosun (Ado-Ekiti), and bush burning in rural towns.

Thus, the role of the media in environmental communication is not only informational but transformational, as their reportage influences civic attitudes, public discourse, and ultimately, policy decisions.

Environmental Information

Environmental information refers to all forms of data, knowledge, facts, and reports relating to the natural and built environment. It includes information on climate change, biodiversity, pollution, waste management, flooding, deforestation, erosion, environmental health, conservation, and other ecological issues that influence human life and sustainable development (UNEP, 2023). Environmental information is generated by government agencies, research institutions, environmental organizations, universities, meteorological agencies, and international bodies such as the United Nations Environment Programme (UNEP) and the World Meteorological Organization (WMO). Access to reliable environmental information enables governments, organizations, and citizens to make informed decisions regarding environmental protection and sustainable resource management. In modern societies, environmental information has become increasingly important because environmental challenges such as climate change, urban flooding, air pollution, and waste disposal require collective action and informed public participation (UNESCO, 2026).

Environmental Information Utilization

Environmental information utilization refers to the process of collecting, analyzing, interpreting, applying, and disseminating environmental information for decision-making, policy formulation, public education, and environmental management (UNEP, 2023). Utilization goes beyond merely possessing environmental information; it involves transforming available environmental

data into meaningful knowledge that can influence individual behavior, organizational practices, and public policies. Media houses utilize environmental information by obtaining reports from government agencies, scientific institutions, environmental experts, and non-governmental organizations, and presenting such information in forms that are understandable to the general public. Effective utilization of environmental information promotes environmental awareness, encourages responsible environmental behavior, supports disaster preparedness, and strengthens sustainable development initiatives (UNESCO, 2026). In urban areas where environmental problems are more pronounced, effective utilization of environmental information becomes essential for promoting resilience and improving the quality of life.

Social Responsibility

Social responsibility refers to the ethical obligation of individuals, organizations, and institutions to act in ways that promote the welfare of society while minimizing negative impacts on people and the environment. Within the context of mass communication, social responsibility is founded on the principle that the freedom enjoyed by the media must be exercised in the public interest (McQuail, 2010). This responsibility requires media organizations to provide accurate, objective, balanced, and timely information, educate citizens, promote democratic values, encourage public participation, and advocate for solutions to societal problems. Environmental reporting forms an important aspect of the media's social responsibility because it helps citizens understand environmental risks, supports environmental policy implementation,

and encourages sustainable practices (Baran & Davis, 2015). By fulfilling their social responsibility, media houses contribute significantly to environmental governance, public accountability, and national development.

Media Houses

Media houses are organizations involved in the gathering, processing, production, and dissemination of information through various communication channels such as newspapers, magazines, radio, television, and digital media platforms (McQuail, 2010). They serve as important institutions for information dissemination, education, entertainment, and public enlightenment. In democratic societies, media houses perform several functions, including acting as watchdogs over government activities, setting public agendas, facilitating public discourse, and promoting transparency and accountability (McCombs & Shaw, 1972). In relation to environmental sustainability, media houses play a significant role by reporting environmental issues, raising public awareness, promoting environmental campaigns, and providing platforms for discussions among policymakers, environmental experts, and the public. Their ability to communicate scientific environmental information in simple language makes them indispensable partners in achieving sustainable development goals (UNESCO, 2026).

Urban Areas

Urban areas are settlements characterized by high population density, extensive infrastructure, commercial activities, industrial development, and rapid socio-economic growth. Cities and towns often experience increased environmental pressures resulting from

population expansion, industrialization, transportation, and inadequate waste management systems (UNEP, 2023). Common environmental challenges in urban areas include air pollution, flooding, poor drainage, indiscriminate waste disposal, noise pollution, traffic congestion, water contamination, and climate-related disasters. Because these challenges directly affect public health and sustainable development, urban residents require continuous access to accurate environmental information. Consequently, media houses operating in urban areas have greater responsibilities to disseminate relevant environmental information that promotes environmental awareness, preparedness, and active citizen participation in environmental protection.

Overall, the interaction between environmental information utilization and the social responsibility of media houses is fundamental to achieving environmental sustainability in urban communities. When media organizations effectively utilize credible environmental information, they are better positioned to educate the public, influence environmental policies, encourage responsible environmental behavior, and support government efforts aimed at addressing environmental challenges. This relationship forms the central focus of the present study (UNESCO, 2026; UNEP, 2023).

Roles of Media Houses in the Society

Media houses perform a wide range of functions that reinforce their relevance in democratic societies. One of their fundamental roles is the watchdog function, where they hold governments, industries, and corporate actors accountable for actions that may harm society (Baran & Davis, 2015).

Investigative reports exposing illegal dumping of waste, oil spills, and corporate pollution fall within this mandate.

Another critical function is public education. Media institutions translate technical environmental reports into accessible language for the general public. For example, newspapers like *The Guardian* run weekly columns on environmental sustainability, while Channels Television has dedicated segments on climate change and disaster risk management (Nwabueze, 2014).

The media also serve as a platform for dialogue by giving voice to environmental activists, policymakers, academics, and the public. In Nigeria, radio stations such as Lagos Traffic Radio and Wazobia FM regularly engage experts to discuss waste disposal, flooding, and urban planning challenges.

Moreover, media houses play a crucial role in agenda-setting. According to McCombs and Shaw (1972), the media do not tell people what to think but what to think about. By consistently reporting on climate change, urban flooding, or pollution, media houses bring these issues into public consciousness, influencing both policy priorities and civic engagement. For example, consistent coverage of deforestation and flooding in Ekiti by Nigerian Tribune and Progress FM has raised public consciousness and influenced government action.

Notably, Yoruba-language programs on local radio stations such as Amuludun FM (Ibadan) and Voice FM (Ado-Ekiti) extend environmental awareness to rural and semi-urban communities, ensuring inclusivity in information dissemination.

Social Responsibilities Dissemination by Media Houses

The social responsibility theory of the press posits that freedom of the media comes with the duty to serve the public interest (McQuail, 2010). Media organizations must balance commercial goals with ethical obligations such as fairness, accuracy, inclusivity, and advocacy for societal well-being.

In Nigeria, social responsibility is evident when media houses create awareness on public health and environmental hazards. For example, investigative reports by Premium Times and Channels Television on the Lagos flooding crisis of 2022 highlighted the consequences of poor drainage and indiscriminate waste disposal, thereby compelling policy makers to act (Okoro & Nnaji, 2017). Similarly, urban newspapers like *Punch* and *Vanguard* have played active roles in disseminating campaigns against plastic pollution, erosion control, and oil spillage in the Niger Delta. By doing so, they fulfill their responsibility of informing and empowering the public.

Globally, media organizations in cities like London, New York, and Beijing have taken similar initiatives, using environmental information to educate urban populations on climate resilience and sustainability (UNEP, 2016). This indicates that environmental journalism is not just a local responsibility but a universal obligation.

Broadcasting emergency alerts, such as the 2019 Ado-Ekiti flooding updates aired by local radio stations urging residents to evacuate low-lying areas near Ureje River.

Through these initiatives, media institutions fulfill their social responsibility mandate by safeguarding lives, influencing environmental policy, and promoting sustainable urban living.

Environmental Information Generation and Use by Media Houses

Environmental information consists of scientific reports, data, statistics, and narratives about natural and ecological systems. Media houses generate and use this information in several ways.

First, they rely on collaboration with research institutions and NGOs. For instance, Nigerian media often cite reports from the Nigerian Meteorological Agency (NiMet), National Emergency Management Agency (NEMA), and NGOs like the Nigerian Conservation Foundation (NCF) in their coverage of environmental hazards.

Second, they produce investigative reports. Investigative environmental journalism in Nigeria has exposed issues such as the illegal dumping of toxic waste in Lagos and oil spills in Ogoniland (Nwabueze, 2014).

Third, they use digital media platforms to spread environmental campaigns. Social media platforms such as Twitter and Facebook have been used by Arise News and Channels Television to amplify environmental messages to urban audiences (UNESCO, 2019).

In Ekiti State, collaborations between EKSWMMA and local media have advanced sanitation campaigns, flood-prevention jingles, and waste-management awareness. Thus, the generation and utilization of environmental information not only enhance public knowledge but also contribute to democratic accountability by exposing ecological crimes.

Impact of Environmental Information Utilization on Social Responsibilities of Media Houses

The utilization of environmental information enhances the social

responsibilities of media houses in the following ways:

- **Public Awareness:** Through consistent reporting, urban dwellers are educated about risks such as flooding, air pollution, and improper waste management. This leads to increased community participation in environmental management (Nwabueze, 2014).
- **Policy Advocacy:** Media-driven campaigns often compel governments to enact or enforce environmental policies. For example, sustained media advocacy contributed to Lagos State's ban on plastic sachets and Styrofoam in 2024 (Okoro & Nnaji, 2017).
- **Behavioral Change:** Environmental information disseminated by the media encourages individuals and businesses to adopt sustainable practices, such as waste recycling, reduction of emissions, and tree planting (Baran & Davis, 2015).
- **Credibility and Trust:** By prioritizing environmental information, media houses enhance their legitimacy as socially responsible institutions (McQuail, 2010). This, in turn, strengthens democratic institutions and reinforces media trust among urban citizens.

Problems Encountered by Media Houses in the Utilization of Environmental Information

Despite their importance, media houses face numerous obstacles in the effective utilization of environmental information:

- i **Limited Access to Data:** Government agencies and corporations sometimes withhold

environmental data, making it difficult for journalists to report accurately (Okoro & Nnaji, 2017).

- ii **Commercial Pressures:** Media houses often prioritize entertainment and political content over environmental reporting because of audience demand and advertising revenue (Asemah, 2011).
- iii **Inadequate Training:** Many journalists lack the technical knowledge to interpret environmental data, leading to superficial reporting (Nwabueze, 2014).
- iv **Political Influence and Censorship:** Reporting on environmental pollution by powerful oil companies or government agencies may lead to censorship or threats (Baran & Davis, 2015).
- v **Financial Constraints:** Investigative environmental journalism is expensive, requiring resources that many media houses cannot afford (UNESCO, 2019).
- vi **Low Audience Interest:** Many urban dwellers focus on politics, security, or economic issues, showing limited interest in environmental topics (UNEP, 2016).

Environmental Problems in Ekiti State

Ekiti State, though less industrialized than megacities like Lagos and Port Harcourt, faces significant environmental challenges, particularly in its urban and semi-urban areas such as Ado-Ekiti, Ikere-Ekiti, Oye-Ekiti, and Ijero-Ekiti. These problems are largely driven by population growth, urban expansion, poor environmental awareness, and weak enforcement of

environmental regulations. The major environmental problems identified include:

a. Flooding and Poor Drainage Systems

Seasonal flooding remains one of the most persistent environmental problems in Ekiti State, especially in Ado-Ekiti. Areas such as Irona, Ajilosun, Odo-Ado, Ureje axis, and parts of Basiri frequently experience flooding during heavy rainfall. This problem is largely attributed to blocked drainage channels, unplanned urban development, construction on waterways, and indiscriminate dumping of refuse into gutters and streams. Flooding often leads to loss of property, displacement of residents, traffic disruption, and increased health risks.

b. Indiscriminate Waste Disposal and Poor Solid Waste Management

Improper disposal of solid waste is widespread in urban areas of Ekiti State. Many residents dump refuse along roadsides, in open spaces, waterways, and drainage channels. The limited number of waste collection points, irregular evacuation of waste, and low public compliance with sanitation regulations exacerbate the situation. This has resulted in environmental pollution, unpleasant aesthetics, breeding of disease vectors, and blocked drainage systems that worsen flooding.

c. Gully Erosion and Soil Degradation

Ekiti State's undulating terrain makes it highly susceptible to erosion. Gully erosion is prevalent in parts of Ado-Ekiti, Ikere-Ekiti, and Ilawe-Ekiti. Poor road construction, deforestation, sand excavation, and lack of effective drainage contribute significantly to soil

degradation. Erosion destroys farmlands, damages roads and buildings, and threatens livelihoods.

d. Deforestation and Bush Burning

Deforestation due to logging, fuelwood collection, and agricultural expansion is common in Ekiti State. Bush burning, particularly during the dry season, contributes to loss of biodiversity, soil infertility, and air pollution. These practices also undermine climate resilience and increase vulnerability to erosion and flooding.

e. Environmental Sanitation and Public Health Challenges

Poor environmental sanitation, including open defecation in some peri-urban communities, stagnant water, and poorly managed markets, poses serious public health risks. These conditions contribute to outbreaks of malaria, cholera, and other water-borne and vector-borne diseases.

Government Interventions at Various Levels to Address Environmental Problems in Ekiti State

Environmental management in Ekiti State involves the combined efforts of the federal, state, and local governments, each playing distinct but complementary roles.

Federal Government Interventions:

At the federal level, agencies such as the Federal Ministry of Environment, National Environmental Standards and Regulations Enforcement Agency (NESREA), National Emergency Management Agency (NEMA), and Nigerian Meteorological Agency (NiMet) contribute to environmental management in Ekiti State.

Ekiti State Government

Interventions: The Ekiti State Government plays a central role in addressing environmental challenges through the Ministry of Environment and Natural Resources and agencies such as the Ekiti State Waste Management Authority (EKSWMA).

Local Government Interventions: Local governments are closest to the grassroots and play a vital role in environmental governance.

Role of Media Houses in Supporting Government Efforts, and Environmental Governance

Media houses in Ekiti State complement government efforts by disseminating environmental information, sensitizing the public, and serving as watchdogs. Through radio jingles, news reports, talk shows, and public service announcements, stations such as Progress FM, EKSU FM, Voice FM, and regional newspapers raise awareness on sanitation, flooding, erosion control, and climate change. Their engagement strengthens accountability and encourages citizen participation in environmental protection. Media houses in Ekiti State complement government interventions by generating and disseminating environmental information, sensitizing the public, and acting as watchdogs. Through news reports, radio jingles, talk shows, and public service announcements, local media outlets educate residents on flooding risks, sanitation practices, erosion control, and climate change adaptation. This aligns with the social responsibility theory of the press, which emphasizes that the media must serve the public good by promoting societal well-being and sustainable development (McQuail, 2010; Okoro & Nnaji, 2017).

Responsibilities of the Media in Complementing Government Environmental Efforts

While government institutions at the federal, state, and local levels play critical roles in environmental management, the effectiveness of these interventions largely depends on public awareness, acceptance, and participation. Media houses therefore serve as indispensable partners in complementing government efforts through the strategic utilization of environmental information. Within the framework of the social responsibility theory of the press, the media are expected to support policies and initiatives that promote public welfare, including environmental sustainability (McQuail, 2010).

One major responsibility of the media is public enlightenment and environmental education. Media houses are tasked with translating complex environmental policies, scientific data, and government regulations into simple, accessible messages that can be understood by diverse audiences. Through radio jingles, documentaries, talk shows, news features, and opinion articles, the media educate citizens on proper waste disposal, flood prevention measures, erosion control, and climate change adaptation strategies. In Ekiti State, radio stations such as Progress FM, EKSU FM, and Voice FM play this role by broadcasting environmental programs in both English and Yoruba, thereby ensuring grassroots participation and inclusivity (Nwabueze, 2014).

Another critical responsibility is policy advocacy and agenda setting. Media houses influence public discourse by consistently highlighting environmental problems and government responses. By prioritizing

issues such as flooding, waste mismanagement, deforestation, and erosion in their reportage, the media draw public and governmental attention to environmental concerns that might otherwise be neglected. According to McCombs and Shaw (1972), sustained media coverage elevates issues onto the public agenda, thereby encouraging policy review, improved implementation, and accountability.

The media also have a responsibility to serve as watchdogs and accountability agents. While complementing government efforts, media houses must independently monitor and evaluate the implementation of environmental policies and projects. Investigative reporting on abandoned drainage projects, illegal dumping, or misuse of ecological funds helps to ensure transparency and responsible governance. This watchdog role strengthens democratic processes and enhances the credibility of environmental governance (Baran & Davis, 2015).

In addition, the media are responsible for early warning dissemination and risk communication. During periods of heavy rainfall or environmental emergencies, media houses relay timely information from agencies such as NiMet and NEMA to alert residents in flood-prone areas. Broadcasting evacuation notices, safety guidelines, and emergency contacts helps to minimize loss of lives and property. Local radio stations in Ekiti State have, in the past, played vital roles in disseminating flood alerts and sanitation advisories, particularly in vulnerable urban communities.

Furthermore, media houses are expected to promote behavioral change and civic participation. By consistently emphasizing the consequences of environmental negligence and

showcasing positive environmental practices, the media encourage citizens to adopt responsible behaviors. Campaigns promoting waste sorting, tree planting, environmental sanitation, and community clean-up exercises support government initiatives and foster a culture of environmental responsibility among urban residents (UNEP, 2016).

Finally, the media have a responsibility to facilitate stakeholder collaboration. Media platforms provide spaces for dialogue among government agencies, environmental experts, civil society organizations, and community members. Through panel discussions, phone-in programs, and town hall broadcasts, the media help bridge communication gaps, clarify misconceptions, and strengthen partnerships aimed at environmental sustainability. Such collaborative engagement enhances the effectiveness of government environmental policies and promotes shared ownership of environmental challenges and solutions (UNESCO, 2019).

Summary

This paper examined the impact of environmental information utilization on the social responsibilities of media houses in urban areas, with particular reference to Nigeria and Ekiti State. Using a literature-based approach, the study established that media houses play vital roles as watchdogs, educators, agenda setters, and advocates for environmental sustainability. Effective utilization of environmental information enables the media to raise public awareness, support environmental policies, encourage responsible environmental behaviour, and promote sustainable urban development.

The study identified major environmental challenges in Ekiti State,

including flooding, poor waste management, erosion, deforestation, bush burning, and inadequate sanitation. It also highlighted the interventions of the federal, state, and local governments in addressing these challenges. Furthermore, the paper emphasized that media houses complement these efforts through public enlightenment, environmental reporting, early warning dissemination, and policy advocacy.

Despite these contributions, the study found that media organizations face several constraints, including inadequate access to environmental information, insufficient training, financial limitations, political interference, and low public interest in environmental issues. The paper concludes that strengthening the capacity of media houses, improving access to credible environmental information, and enhancing collaboration among government agencies, environmental experts, and the media are essential for promoting effective environmental communication and sustainable urban development.

Conclusion

Environmental information utilization is central to the social responsibility mandate of media houses in urban areas. By reporting environmental issues, educating the public, and advocating for sustainable practices, the media contribute to urban resilience and sustainable development. However, challenges such as inadequate resources, political pressures, and low audience engagement hinder effective environmental journalism. Strengthening the capacity of media houses to utilize environmental information will ensure that they remain true to their responsibility as watchdogs and agents of social change.

Recommendations

1. Capacity Development: Media houses should carry out specialized training programs in environmental journalism to enhance the competence of journalists.
2. Collaboration with Experts: Media houses should work closely with scientists, environmentalists, and NGOs for credible and timely data.
3. Policy Framework: Governments should strengthen laws that promote press freedom in environmental reporting.
4. Funding Support: Grants and sponsorships from international organizations should be made available to support investigative environmental journalism.
5. Public Engagement: Media houses should create engaging programs—such as environmental talk shows, documentaries, and drama series—to stimulate audience interest.
6. Use of ICTs: Social media, mobile apps, and data visualization tools should be integrated into environmental communication strategies for wider reach.
7. Expand Yoruba-language broadcasts in Ekiti State for grassroots engagement.
8. Encourage EKSU's Faculty of Environmental Sciences to partner with local media outlets for research-based reporting.
9. Promote community-based initiatives such as radio-supported town hall meetings.

References

- Adeoti, J. O. (2018). "Urban Flooding and Waste Management in Ado-Ekiti." *Journal of Nigerian*

- Environmental Studies*, 5(1), 88–103.
- Asemah, E. S. (2011). *Selected Mass Media Themes*. Jos: Jos University Press.
- Baran, S. J., & Davis, D. K. (2015). *Mass Communication Theory: Foundations, Ferment, and Future*. Stamford: Cengage Learning.
- Ekiti State Ministry of Environment (2022). *Annual Report on Environmental Challenges in Ekiti State*. Ado-Ekiti: Government Press.
- McCombs, M. E., & Shaw, D. L. (1972). The agenda-setting function of mass media. *Public Opinion Quarterly*, 36(2), 176–187.
- McCombs, M. E., & Shaw, D. L. (1972). The agenda-setting function of mass media. *Public Opinion Quarterly*, 36(2), 176–187. <https://doi.org/10.1086/267990>.
- McQuail, D. (2010). *McQuail's Mass Communication Theory*. London: Sage.
- McQuail, D. (2010). *McQuail's mass communication theory* (6th ed.). Sage Publications.
- Nwabueze, C. (2014). *Introduction to Mass Communication: Media Ecology in the Global Village*. Owerri: Top Shelf.
- Okoro, N., & Nnaji, G. (2017). Environmental communication and media responsibility in Nigeria. *Journal of Communication and Media Studies*, 9(2), 45–57.
- UNEP (2016). *Global Environment Outlook: Regional Assessments*. Nairobi: United Nations Environment Programme.
- UNEP. (2023). *UNEP strategy for environmental education and training*. United Nations Environment Programme. (UNEP - UN Environment Programme).
- UNESCO (2019). *Journalism, Fake News & Disinformation: Handbook for Journalism Education and Training*. Paris: UNESCO
- Baran, S. J., & Davis, D. K. (2015). *Mass communication theory: Foundations, ferment, and future* (7th ed.). Cengage Learning.
- UNESCO. (2026). *Reporting the environment: A practical manual for journalists*. UNESCO. (UNESCO).