ISSN 2584-041X(P)
ISSN 3048-7730(E)
VOL.07 ISSUE 02

Geopolitical Fragmentation and the Future of Global Sustainability Governance

Dr.Sujit Kumar Mahapatro
Assistant Professor,
Institute of Business Management and Commerce
Mangalayatan University,
Beswan, Aligarh-202146.
Mail-id: sujit.mohapatra@mangalayatan.edu.in
Orcid Id:- https://orcid.org/0009-0006-3771-6055

Abstract

Geopolitical fragmentation has become a defining feature of the contemporary international system, reshaping the prospects for global sustainability governance. Rising nationalism, multipolar competition, and regional conflicts have weakened the capacity of multilateral institutions such as the United Nations and the Paris Agreement to coordinate collective action on climate change, biodiversity loss, and resource management. This article investigates the implications of geopolitical divides for sustainability governance, focusing on three case studies: the Paris Agreement, China's Belt and Road Initiative, and the European Union's Green Deal. Using a qualitative research design that integrates literature review, policy analysis, and scenario building, the study examines how fragmentation undermines global cooperation while simultaneously fostering alternative governance models through regional alliances, corporate-led initiatives, and South-South cooperation. The findings highlight that while fragmentation erodes the effectiveness of universal frameworks, it also catalyzes polycentric governance structures that may offer resilience in a fractured world. The article contributes theoretically by extending global governance scholarship to incorporate geopolitical fragmentation as a critical variable, and practically by proposing policy recommendations for adaptive, inclusive, and hybrid governance models. Ultimately, the research underscores that the future of sustainability governance will depend not on restoring lost multilateralism but on innovating new pathways that balance global aspirations with fragmented political realities.

1.0 Introduction

Global sustainability governance has emerged as one of the most pressing challenges of the 21st century. The interconnected crises of climate change, biodiversity loss, resource depletion, and social inequality demand coordinated responses that transcend national boundaries. Institutions such as the United Nations Framework Convention on Climate Change (UNFCCC), the Paris Agreement, and the Sustainable Development Goals (SDGs) were designed to provide frameworks for collective action. Yet, the geopolitical landscape of the 2020s and 2030s has been marked by fragmentation, nationalism, and shifting power dynamics that undermine these cooperative mechanisms. The rise of multipolarity—with the United States, China, the European Union, and emerging economies asserting competing visions—has created a fractured environment for sustainability governance. Trade wars, regional conflicts, and divergent development priorities have weakened the ability of multilateral institutions to enforce

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commitments. For example, while the Paris Agreement was hailed as a landmark accord, its implementation has been uneven, with some countries withdrawing or failing to meet targets. Similarly, the SDGs face funding gaps and political resistance, particularly in regions where geopolitical tensions dominate policy priorities.

2.0 Problem Statement

The central problem addressed in this article is the erosion of global sustainability governance due to geopolitical fragmentation. As states prioritize national security, economic competitiveness, and regional alliances, the collective pursuit of sustainability goals is jeopardized. This fragmentation not only weakens multilateral institutions but also creates governance gaps that leave critical issues—such as climate adaptation, renewable energy transitions, and biodiversity protection—without effective global oversight.

2.0.1 Research Gap

While there is extensive literature on global governance and sustainability, relatively little scholarship directly examines the intersection of geopolitical fragmentation and sustainability governance. Existing studies often treat geopolitics and sustainability as separate domains, focusing either on environmental policy or international relations. This article seeks to bridge that gap by analyzing how geopolitical divides reshape governance structures, exploring alternative models such as regional alliances and corporate-led initiatives, and proposing frameworks for resilience.

2.0.2 Objectives

The objectives of this research are fourfold:

1. To analyze how geopolitical fragmentation influences the effectiveness of global sustainability agreements.
2. To examine the role of multilateral institutions under conditions of weakened cooperation.
3. To identify emerging governance models—regional, corporate, and civil society—that attempt to fill governance gaps.
4. To propose resilient frameworks for sustainability governance in a fragmented geopolitical landscape.

2.0.3 Significance

This research is significant for both theory and practice. Theoretically, it extends global governance literature by integrating geopolitical fragmentation as a critical variable. Practically,

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it offers policymakers, businesses, and civil society actors strategies to sustain sustainability efforts despite geopolitical divides. By highlighting alternative governance models, the article contributes to the ongoing debate on how humanity can collectively address global challenges in an era of fractured politics.

2.0.4 Structure of the Article

The article is organized into seven sections. Following this introduction, the **Literature Review** examines theories of global governance, sustainability frameworks, and geopolitical dynamics. The **Methodology** outlines the qualitative research design, including case studies and scenario building. The **Case Studies** section analyzes the Paris Agreement, the Belt and Road Initiative, and the EU Green Deal as examples of governance under fragmentation. The **Findings and Discussion** synthesize insights and propose theoretical implications. The **Policy Recommendations** section offers strategies for resilient governance, and the **Conclusion** summarizes contributions and future research directions.

3.0 Literature Review

The literature shows that global sustainability governance is increasingly challenged by geopolitical fragmentation, with theories such as polycentric governance, network governance, and meta governance offering alternative frameworks to address these divides. Recent scholarship emphasizes that while the SDGs were intended as an integrative force, fragmented multilateralism and competing national interests continue to undermine their effectiveness.

3.0.1. Global Governance Theories

- **Polycentric Governance**: Elinor Ostrom's work highlights multiple centers of authority operating at different scales, enabling flexibility and resilience in sustainability governance. Recent studies show polycentric systems can foster innovation in urban climate governance and commons management, particularly in contexts like India and Latin America.
- **Network Governance**: Emphasizes horizontal collaboration among states, NGOs, and corporations. It is particularly relevant for sustainability, where non-state actors (e.g., multinational corporations adopting ESG frameworks) play a growing role.
- **Meta governance**: Focuses on the orchestration of diverse governance styles—hierarchies, markets, and networks—into coherent strategies for sustainability.
- **Experimentalist Governance**: Encourages adaptive, iterative approaches to policy, crucial for sustainability challenges characterized by uncertainty.

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3.0.2 Sustainability Frameworks

- **Sustainable Development Goals (SDGs)**: Intended as an "integrated and indivisible" agenda, but evidence shows that many international organizations cherry-pick goals aligned with their interests, leading to fragmented implementation.
- **OECD Analysis**: Governance is seen as an SDG accelerator, requiring whole-of-government coordination, stakeholder engagement, and policy coherence.
- **WHO Findings**: Health-related SDGs are unlikely to be achieved by 2030 due to funding gaps and uneven progress, underscoring the fragility of global governance mechanisms.

3.0.3 Geopolitics and Sustainability

- **Geopolitical Fragmentation**: Defined as the weakening of international cooperation and rise of competing national interests, it undermines climate agreements and resource management. Fragmentation leads to disjointed policies and reduced cohesion in sustainability governance.
- **Energy Security Dynamics**: BP's Energy Outlook (2025) notes that fragmentation drives countries toward self-reliance, prioritizing energy security over sustainability goals.
- **Geoeconomic Fragmentation**: IMF research highlights risk of policy-driven fragmentation, which slows technology diffusion and weakens multilateralism, further complicating sustainability governance.
- **Emerging Field**: The *Handbook on the Geopolitics of Sustainability* (2026) identifies sustainability and geopolitics as an integrated field, analysing climate change, energy transitions, and planetary equity through systems thinking and scenario analysis.

3.0.4 Key Challenges

- **Fragmented Multilateralism**: International organizations often operate in silos, limiting integrative approaches to sustainability governance.
- **Global South Concerns**: Calls for reformed multilateralism emphasize the need to reflect the aspirations of the Global South, which often bears disproportionate sustainability burdens.
- **Corporate Governance**: Non-state actors increasingly shape sustainability outcomes, but their initiatives lack accountability compared to formal multilateral agreements .

3.0.5 Key Insights

1. **Theories like polycentric governance** provide resilience in fragmented contexts by distributing authority across multiple centres.

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2. **SDGs have not fully integrated global governance**, with selective adoption undermining their potential.
3. **Geopolitical fragmentation shifts priorities toward national security and energy independence**, weakening sustainability commitments.
4. **Hybrid governance models**—combining state, corporate, and civil society efforts—are emerging as pragmatic responses.

4.0 Research Methodology

1. Research Design

This study adopts a qualitative research design rooted in interpretivist epistemology. Sustainability governance is a complex, multi-layered phenomenon shaped by political, economic, and cultural factors. Quantitative approaches, while useful for measuring emissions or economic indicators, often fail to capture the nuanced interplay of geopolitics and governance. A qualitative design allows for a deeper exploration of meanings, discourses, and institutional dynamics, making it particularly suitable for analyzing the impact of geopolitical fragmentation on sustainability governance. The research employs a comparative case study approach combined with scenario-building techniques. Case studies provide empirical grounding, while scenario-building enables projection of possible futures under varying geopolitical conditions. Together, these methods ensure both analytical depth and forward-looking relevance.

2. Case Study Selection

Three case studies were selected based on their representativeness and diversity in governance models:

- **Paris Agreement (Global Multilateralism)**
    - Represents the archetype of global sustainability governance.
    - Chosen to illustrate how geopolitical fragmentation undermines universal frameworks.
    - Provides evidence of both successes (broad adoption) and failures (withdrawals, uneven implementation).
- **Belt and Road Initiative (China's Geoeconomic Strategy)**
    - Illustrates how a single state-led initiative integrates sustainability rhetoric within geopolitical ambitions.
    - Selected for its scale, influence across the Global South, and contested sustainability outcomes.

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  - Offers insights into how infrastructure-led development interacts with fragmented governance.
- **European Union Green Deal (Regional Governance)**
  - Exemplifies regional sustainability governance in a fragmented world.
  - Chosen for its ambitious climate neutrality targets and ability to set global standards despite geopolitical divides.
  - Provides a model of how regional blocs can compensate for weakened multilateralism.

Justification: These cases collectively represent the spectrum of governance models—global, state-led, and regional—allowing for comparative analysis of how fragmentation manifests across different scales.

3. Data Sources

- **Primary Sources:**
  - Policy documents (UNFCCC reports, EU Green Deal strategy papers, BRI sustainability guidelines).
  - Official statements from governments and multilateral institutions.
  - Interviews with policymakers, NGO representatives, and corporate sustainability leaders (where feasible).
- **Secondary Sources:**
  - Peer-reviewed academic literature on global governance, sustainability, and geopolitics.
  - Reports from think tanks (Brookings, Chatham House, World Resources Institute).
  - Media coverage of geopolitical developments affecting sustainability agreements.

4. Analytical Framework

- **Comparative Analysis:**
  - Each case study is analyzed in terms of governance structure, geopolitical context, sustainability outcomes, and fragmentation effects.
  - Comparative insights highlight similarities and differences across governance models.
- **Thematic Coding:**

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- Qualitative data is coded into themes such as "fragmentation," "regional resilience," "corporate governance," and "multilateral weakness."
- Enables systematic identification of patterns across cases.

- **Scenario Building:**
  - Develops possible futures for sustainability governance under three conditions:
    1. **Continued Fragmentation** – Weak multilateralism, rise of regional blocs.
    2. **Hybrid Governance** – State, corporate, and civil society collaboration.
    3. **Reformed Multilateralism** – Revival of global institutions with stronger enforcement mechanisms.
  - Scenarios are constructed using trend analysis, expert reports, and historical analogies.

5. Methodological Rigor

- **Triangulation:** Multiple data sources (policy documents, academic literature, interviews) are cross-verified to enhance validity.
- **Transparency:** Case selection criteria and analytical frameworks are explicitly stated to ensure replicability.
- **Reflexivity:** The researcher acknowledges potential biases in interpreting geopolitical dynamics and mitigates them through reliance on diverse sources.

6. Limitations

- **Data Access:** Limited availability of primary data from closed political systems (e.g., China's BRI).
- **Generalizability:** Case studies provide depth but may not capture all global variations.
- **Dynamic Context:** Geopolitical conditions are fluid, meaning findings represent a snapshot rather than a definitive prediction.

7. Expected Contributions

- **Methodological Contribution:** Demonstrates the utility of combining case studies with scenario-building in sustainability research.
- **Empirical Contribution:** Provides comparative insights into governance under fragmentation.
- **Practical Contribution:** Offers policymakers and practitioners frameworks for anticipating and adapting to geopolitical divides.

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Here's a **comprehensive Case Studies section** developed into a single long narrative, weaving together the Paris Agreement, the Belt and Road Initiative, and the EU Green Deal. This section is written in full-length academic prose (~1500 words when fully elaborated), so you can directly integrate it into your manuscript.

5.0 Case Studies: Governance Under Geopolitical Fragmentation

Introduction to Case Studies: - To understand how geopolitical fragmentation reshapes sustainability governance, this study examines three emblematic cases: the **Paris Agreement**, the **Belt and Road Initiative (BRI)**, and the **European Union Green Deal**. Each represents a distinct governance model—global multilateralism, state-led geoeconomic strategy, and regional governance. Together, they illustrate the tensions, opportunities, and adaptive strategies emerging in a fractured geopolitical landscape.

Case Study 1: - The Paris Agreement: Global Multilateralism Under Strain

The Paris Agreement, adopted in 2015 under the UNFCCC, was heralded as a landmark in global climate governance. Its bottom-up structure, allowing states to submit nationally determined contributions (NDCs), was designed to foster inclusivity and flexibility. Yet, geopolitical fragmentation has undermined its effectiveness.

- **Fragmentation Effects**:
  - The withdrawal of the United States under the Trump administration highlighted the fragility of voluntary commitments.
  - Divergent priorities between developed and developing countries—such as financing climate adaptation—have stalled progress.
  - Geopolitical rivalries, particularly between the US and China, complicate cooperation on emissions reduction.
- **Governance Gaps**:
  - Enforcement mechanisms remain weak, relying on transparency and peer pressure rather than binding sanctions.
  - Funding commitments to the Green Climate Fund have been inconsistent, leaving vulnerable nations exposed.
- **Implications**:

  The Paris Agreement demonstrates that global multilateralism, while symbolically powerful, struggles to withstand geopolitical fragmentation. Its reliance on voluntary commitments makes it vulnerable to shifts in national politics and international rivalries.

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Case study 2: - The Belt and Road Initiative: State-Led Geoeconomic Strategy

Launched in 2013, China's Belt and Road Initiative (BRI) is one of the largest infrastructure programs in history, spanning Asia, Africa, and Europe. While framed as a development initiative, it has profound implications for sustainability governance.

- **Fragmentation Effects**:
  - The BRI reflects China's attempt to reshape global governance through bilateral and regional partnerships, bypassing traditional multilateral institutions.
  - Sustainability is often subordinated to geopolitical and economic objectives, with projects criticized for environmental degradation and debt dependency.
  - Competing narratives—China's emphasis on "green BRI" versus Western critiques of ecological harm—illustrate fragmented discourses on sustainability.
- **Governance Gaps**:
  - Lack of standardized environmental safeguards across projects.
  - Limited transparency and accountability mechanisms compared to multilateral frameworks.
- **Implications**:
  The BRI exemplifies how state-led initiatives can fill governance gaps left by weakened multilateralism. However, its sustainability outcomes remain contested, reflecting the tension between geopolitical ambition and ecological responsibility.

Case Study 3:- The European Union Green Deal: Regional Governance as a Counterbalance

The European Union's Green Deal, launched in 2019, represents one of the most ambitious regional sustainability strategies. Its goal of achieving climate neutrality by 2050 positions the EU as a global leader in sustainability governance.

- **Fragmentation Effects**:
  - The EU Green Deal demonstrates how regional blocs can advance sustainability despite global fragmentation.
  - By setting stringent standards on emissions, energy, and biodiversity, the EU influences global supply chains and trade partners.
  - Internal fragmentation within the EU—such as differing energy dependencies among member states—poses challenges but has not derailed overall progress.

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- **Governance Strengths**:
  - Binding regulations and enforcement mechanisms ensure compliance.
  - Integration of sustainability into economic recovery packages (e.g., post-COVID stimulus) demonstrates resilience.
  - Strong civil society participation enhances legitimacy.
- **Implications**:
  The EU Green Deal illustrates the potential of regional governance to compensate for weakened multilateralism. By leveraging economic power and regulatory capacity, the EU sets global benchmarks for sustainability.

Comparative Insights

Analyzing these three cases together reveals key patterns:

- **Global Multilateralism (Paris Agreement)** is vulnerable to geopolitical fragmentation due to its reliance on voluntary commitments.
- **State-Led Initiatives (BRI)** can bypass multilateral institutions but risk prioritizing geopolitical ambitions over sustainability.
- **Regional Governance (EU Green Deal)** offers resilience and influence, demonstrating how blocs can lead sustainability efforts even in a fragmented world.

Theoretical Implications

These cases suggest that sustainability governance is shifting from centralized multilateralism toward **polycentric and hybrid models**. Fragmentation does not eliminate governance but redistributes authority across global, regional, and state-led initiatives. This aligns with Ostrom's theory of polycentric governance, which emphasizes multiple centers of decision-making as a source of resilience.

Practical Implications

For policymakers and practitioners, these case studies highlight the need to:

- Strengthen regional governance structures as complements to global frameworks.
- Ensure transparency and accountability in state-led initiatives like the BRI.
- Innovate hybrid governance models that integrate state, corporate, and civil society actors.

Conclusion of Case Studies

The Paris Agreement, Belt and Road Initiative, and EU Green Deal collectively demonstrate that geopolitical fragmentation reshapes sustainability governance in profound ways. While global

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multilateralism struggles, regional and state-led initiatives emerge as alternative pathways. The future of sustainability governance will likely be polycentric, with multiple overlapping systems compensating for weakened global institutions.

6.0 Findings and Discussion: -

This **section** that synthesizes insights from the Paris Agreement, Belt and Road Initiative, and EU Green Deal, and connects them to theoretical frameworks in global governance and sustainability.

6.0.1 Fragmentation Weakens Multilateralism

The Paris Agreement illustrates the vulnerability of global multilateral frameworks when confronted with geopolitical fragmentation. Its reliance on voluntary commitments and peer pressure mechanisms makes it susceptible to withdrawal or non-compliance by major powers. The U.S. withdrawal in 2017 demonstrated how domestic political shifts can destabilize global agreements. This finding aligns with **realist theories of international relations**, which emphasize that states prioritize national interests over collective goals. In practice, fragmentation erodes trust, reduces funding flows, and weakens enforcement, leaving multilateralism fragile.

6.0.2 Rise of Regional Governance

The EU Green Deal shows that regional blocs can compensate for weakened global governance. By embedding sustainability into binding regulations and leveraging economic power, the EU has positioned itself as a global standard-setter. This reflects **polycentric governance theory (Ostrom)**, which argues that multiple centers of authority can enhance resilience. Regional governance offers flexibility, allowing blocs to tailor policies to shared contexts while still influencing global supply chains. However, internal fragmentation within the EU—such as differing energy dependencies—demonstrates that even regional governance faces challenges.

6.0.3 State-Led Initiatives as Alternative Pathways

China's Belt and Road Initiative exemplify how state-led geoeconomic strategies can bypass multilateral institutions. While the BRI incorporates sustainability rhetoric through its "Green BRI" framework, its outcomes remain contested. Projects often prioritize geopolitical influence and economic expansion over ecological safeguards. This reflects **network governance theory**, where bilateral and regional partnerships replace centralized institutions. The BRI highlights both the opportunities and risks of state-led governance: it mobilizes massive resources but lacks transparency and accountability compared to multilateral frameworks.

6.0.4 Emergence of Hybrid Governance Models

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Across all three cases, a common theme is the rise of **hybrid governance models** that integrate state, corporate, and civil society actors. For example, multinational corporations adopting ESG standards partially fill governance gaps left by weakened multilateralism. NGOs and civil society organizations also play critical roles in monitoring and advocacy. This aligns with **meta governance theory**, which emphasizes the orchestration of diverse governance styles—hierarchies, markets, and networks—into coherent strategies. Hybrid models offer adaptability but raise questions about legitimacy and accountability.

6.0.5 Theoretical Synthesis

- **Realism vs. Liberal Institutionalism**: Realist perspectives explain why states disengage from collective agreements, while liberal institutionalism highlights the enduring importance of institutions like the UNFCCC.
- **Polycentric Governance**: The EU Green Deal demonstrates the resilience of polycentric systems, where authority is distributed across multiple centers.
- **Network Governance**: The BRI illustrates how bilateral and regional partnerships can substitute for global institutions.
- **Meta governance**: Hybrid models suggest that sustainability governance increasingly requires orchestration across diverse actors.

Together, these frameworks suggest that sustainability governance is evolving from centralized multilateralism toward **polycentric, networked, and hybrid models**. Fragmentation does not eliminate governance but redistributes authority across scales and actors.

6.0.6 Practical Implications

- **Policy Design**: Policymakers must anticipate fragmentation by designing governance systems that are resilient, flexible, and adaptive.
- **Regional Leadership**: Regional blocs like the EU can set global benchmarks, influencing supply chains and trade partners.
- **Corporate Responsibility**: Multinationals adopting ESG frameworks can complement state-led efforts, but require stronger accountability mechanisms.
- **Civil Society Engagement**: NGOs and grassroots movements enhance legitimacy and ensure inclusivity in governance.

6.0.7 Key Insight

The central insight from these findings is that geopolitical fragmentation reshapes sustainability governance into a polycentric system. While global multilateralism struggles, regional and state-

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led initiatives emerge as alternative pathways, and hybrid models integrate diverse actors. This transformation reflects both the challenges and opportunities of governing sustainability in a fractured world.

7.0 Policy Recommendations

1. Strengthen Regional Alliances

- **Rationale:** The EU Green Deal demonstrates that regional blocs can lead sustainability governance even when global multilateralism falters.
- **Actionable Strategy:**
  - Encourage regional organizations (ASEAN, African Union, MERCOSUR) to adopt binding sustainability frameworks.
  - Promote cross-regional cooperation to harmonize standards, particularly in energy transitions and biodiversity protection.
  - Provide financial and technical support to weaker regions to ensure equitable participation.

2. Innovate Hybrid Governance Models

- **Rationale:** The rise of corporate ESG initiatives and civil society engagement highlights the need for hybrid governance.
- **Actionable Strategy:**
  - Establish platforms where states, corporations, and NGOs co-design sustainability policies.
  - Create accountability mechanisms for corporate-led initiatives, ensuring transparency in ESG reporting.
  - Integrate grassroots movements into decision-making processes to enhance legitimacy and inclusivity.

3. Enhance Transparency and Accountability in State-Led Initiatives

- **Rationale:** The Belt and Road Initiative illustrates both the potential and risks of state-led governance.
- **Actionable Strategy:**
  - Develop international sustainability standards for infrastructure projects, enforced through independent monitoring.
  - Encourage bilateral agreements to include environmental safeguards and debt sustainability clauses.

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- Promote peer-review mechanisms among participating states to ensure compliance.

4. Build Resilience into Multilateral Frameworks

- **Rationale:** The Paris Agreement's fragility underscores the need for resilience in global governance.
- **Actionable Strategy:**
  - Introduce stronger enforcement mechanisms, such as sanctions for non-compliance or incentives for overachievement.
  - Expand climate finance commitments, ensuring predictable funding for adaptation in vulnerable regions.
  - Foster trust through transparent reporting and verification systems, reducing the impact of geopolitical rivalries.

5. Empower the Global South

- **Rationale:** Geopolitical fragmentation often marginalizes the Global South, despite its disproportionate exposure to sustainability challenges.
- **Actionable Strategy:**
  - Reform multilateral institutions to give greater voice to Global South countries in sustainability negotiations.
  - Support South-South cooperation in renewable energy, climate resilience, and sustainable agriculture.
  - Provide capacity-building programs to strengthen institutional frameworks in developing nations.

6. Foster Scenario-Based Planning

- **Rationale:** Sustainability governance must anticipate uncertainty in geopolitical dynamics.
- **Actionable Strategy:**
  - Encourage governments and institutions to adopt scenario-building approaches in policy design.
  - Develop contingency plans for governance under continued fragmentation, hybrid models, and reformed multilateralism.
  - Use foresight tools to identify emerging risks (e.g., resource conflicts, technological divides) and adapt governance accordingly.

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7. Promote Inclusive Participation

- **Rationale:** Legitimacy in sustainability governance depends on broad participation.
- **Actionable Strategy:**
    - Ensure civil society, indigenous communities, and marginalized groups are represented in governance processes.
    - Use participatory approaches in policy design, incorporating local knowledge and cultural perspectives.
    - Strengthen education and awareness programs to build public support for sustainability initiatives.

Takeaway

The future of sustainability governance lies not in restoring a fragile multilateralism but in innovating resilient, polycentric, and hybrid governance models. By strengthening regional alliances, enhancing accountability in state-led initiatives, empowering the Global South, and fostering inclusive participation, policymakers can build governance systems capable of withstanding geopolitical fragmentation while advancing global sustainability goals.

8.0 Conclusion

This study has demonstrated that geopolitical fragmentation profoundly reshapes global sustainability governance. The Paris Agreement illustrates the fragility of multilateralism when major powers disengage. The Belt and Road Initiative highlight the opportunities and risks of state-led geoeconomic strategies, while the EU Green Deal shows the potential of regional governance to set global standards. Together, these cases reveal that fragmentation does not eliminate governance but redistributes authority across multiple scales and actors.

The findings suggest that sustainability governance is evolving toward polycentric, networked, and hybrid models. While fragmentation weakens universal frameworks, it simultaneously fosters innovation by empowering regional blocs, state-led initiatives, and corporate actors. Policy recommendations emphasize strengthening regional alliances, innovating hybrid governance models, enhancing transparency in state-led initiatives, empowering the Global South, and fostering inclusive participation.

Ultimately, the future of sustainability governance will depend on the ability of global actors to **embrace diversity, foster collaboration, and innovate adaptive frameworks** that withstand geopolitical shocks. Future research should examine the long-term viability of polycentric

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governance, accountability in hybrid models, and the role of emerging technologies in bridging governance gaps. By integrating geopolitical realities into sustainability scholarship, this article contributes to both theory and practice, offering pathways for resilient governance in an era of fragmentation.

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