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ARTICLE

Building Trust and Attracting Investment: A Teaching Case on Digital Diplomacy in Namibia's Green Industrialization Strategy

Albertus Aochamub
École des Ponts Business School

Paul H. Jacques
École des Ponts Business School

This teaching case explores how Namibia—an emerging leader in Africa's green hydrogen sector—leverages digital diplomacy to build international trust, attract investment, and manage domestic stakeholder expectations as part of its Green Industrialization Roadmap. Centered on the leadership of President Hage Geingob, the case examines how digital platforms are used to navigate competing pressures from global investors, local communities, environmental advocates, and regional partners. Designed for MBA, Executive DBA, MPA, and international affairs programs, the case engages students in a real-world leadership dilemma involving ethical trade-offs, stakeholder complexity, and geopolitical opportunity. It supports a range of immersive learning activities including stakeholder mapping, digital strategy design, executive simulation, and ethical debate. Grounded in theories of public diplomacy, stakeholder theory, sustainability governance, and transformational leadership, it equips students with tools to analyze complex systems and communicate across sectors. For faculty, this case provides a flexible, interdisciplinary resource that integrates strategy, ethics, communication, and global leadership in a single cohesive format. It is especially useful in courses seeking to move beyond Western business environments or to expose students to high-stakes decision-making in resource-constrained settings. While focused on Namibia, the themes and decision points mirror challenges faced by U.S.-based executives, public officials, and nonprofit leaders working in sustainability, stakeholder engagement, and international development. The case offers both global perspective and domestic relevance, making it an ideal addition to faculty teaching portfolios.

The global push toward renewable energy has placed extraordinary demands on emerging economies, particularly those seeking to attract foreign investment, uphold environmental integrity, and deliver inclusive economic development simultaneously. In this context, Namibia, a sparsely populated Southern African country endowed with world-class solar and wind resources, has emerged as a compelling case. Its Green Industrialization Roadmap aims to transform the country into a global leader in green hydrogen production, a clean energy source crucial for decarbonizing heavy industry and transport sectors.

Namibia's Roadmap aligns with its commitments under the Paris Agreement and Nationally Determined Contributions (NDCs), aiming to diversify the economy, foster energy security, and catalyze climate-resilient development (Government of Namibia, 2024; UNFCCC, 2021). At the center of this strategic transition is an ambitious plan to leverage digital diplomacy as a tool for trust-building, narrative control, and global engagement. Through platforms such as social media, virtual investment summits, and AI-powered sentiment analysis, the Namibian government seeks to attract foreign direct investment (FDI), secure international partnerships, and position itself as a credible and competitive actor in the green energy transition (Adesina, 2017; DiploFoundation, 2023).

This teaching case examines the leadership and communication strategies underpinning Namibia's green transition through the lens of President Hage Geingob's administration. Faced with competing pressures—from multinational investors, rural communities, environmental advocacy groups, and regional partners—President Geingob has embraced digital diplomacy to manage domestic legitimacy and global visibility simultaneously. His approach demonstrates the growing relevance of strategic communication, not only as a promotional tool but also as a governance mechanism in complex policy environments.

Students are placed in the role of high-level policy advisors, challenged to help the Namibian government balance four core priorities: attracting FDI, protecting the environment, ensuring equitable community benefits, and maintaining regional credibility within the Southern African Development Community (SADC). They engage with core frameworks from stakeholder theory, public diplomacy, sustainability governance, and transformational leadership (Aguilera, Aragón-Correa, & Marano, 2021; Rice, 2006). The accompanying teaching note offers a structured pedagogical strategy, including stakeholder mapping, ethical debate, scenario analysis, and digital diplomacy campaign design.

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This paper contributes to applied management education by offering an interdisciplinary, real-world case that prepares learners to navigate sustainability transitions, stakeholder complexity, and cross-border communication challenges. It is well suited to graduate programs in public administration, international business, digital strategy, and leadership studies. In executive education settings, it serves as a powerful simulation of climate-era policymaking in frontier markets.

By anchoring the analysis in Namibia's Green Industrialization Roadmap, the case invites students to reflect on the strategic and ethical dimensions of sustainable development in the Global South, where digital tools, public trust, and policy coherence are increasingly central to national success in a volatile geopolitical landscape.

This case is intentionally designed not just as a policy analysis but as a high-impact teaching tool that captures the complexity of sustainability transitions in emerging economies. It provides instructors with a valuable resource for engaging students in applied, ethically grounded, and globally relevant leadership dilemmas at the intersection of digital strategy, stakeholder complexity, and geopolitical positioning. Given the increasing emphasis in management education on climate strategy, ESG governance, and international engagement, this case contributes to the growing portfolio of immersive learning tools that reflect the decision-making challenges faced in frontier market contexts.

Theoretical Foundations

Understanding Namibia's Green Industrialization Roadmap requires an interdisciplinary framework that integrates strategic communication, ethical governance, environmental policy, and leadership studies. This section situates the teaching case within four interlocking theoretical domains: digital diplomacy, stakeholder theory, sustainability governance, and transformational leadership. Together, these lenses offer a conceptual toolkit to analyze how emerging economies can orchestrate complex energy transitions in a contested global landscape.

Digital Diplomacy and Strategic Communication

Digital diplomacy—defined as the strategic use of digital tools, platforms, and analytics to conduct foreign policy and engage international audiences—has become an increasingly influential force in contemporary public affairs (Bjola & Holmes, 2015). For frontier markets like Namibia, digital diplomacy offers an avenue to amplify national narratives, attract investment, and engage in reputation-building with limited conventional geopolitical leverage.

In this context, Namibia's adoption of digital platforms—from targeted social media engagement and virtual investment forums to AI-powered sentiment analysis—demonstrates a deliberate pivot toward "networked diplomacy" (Manor, 2019). These tools allow the state not only to promote policy priorities but also to engage interactively with diverse constituencies across time zones and continents. As Manor (2022) argues, digital diplomacy allows smaller nations to "punch above their weight" by circumventing traditional gatekeepers of influence.

Namibia's integration of digital training programs (e.g., DiploFoundation, 2023) and immersive storytelling strategies signals an institutional commitment to modernizing its foreign policy apparatus. This shift aligns with Lenczowski's (2010) concept of full-spectrum diplomacy—an approach that combines public diplomacy, economic statecraft, and strategic communication under a unified agenda. Through these efforts, President Geingob's administration exemplifies what Rice (2006) termed "transformational diplomacy," where outreach is used not only for influence but for co-creating shared developmental outcomes.

Stakeholder Theory and Multistakeholder Governance

Stakeholder theory, originating in strategic management literature, posits that organizations—and by extension, governments—must consider the interests of all parties affected by their decisions, not just those with economic capital (Freeman, 1984). Applied to Namibia's Green Industrialization Roadmap, this perspective reveals a highly pluralistic and contested landscape of interests: rural communities with ancestral land ties, environmental activists concerned about biodiversity loss, regional neighbors managing economic competitiveness, and global investors seeking regulatory clarity.

Namibia's energy transition is not a purely technocratic or market-led initiative. It requires the deliberate construction of inclusive governance mechanisms capable of reconciling divergent stakeholder needs. Aguilera, Aragón-Correa, and Marano (2021) argue that governance structures aligned with environmental and social imperatives are more likely to yield durable, system-wide change. In contrast, top-down or exclusionary approaches often invite resistance, policy reversals, or legitimacy crises.

Gleckman (2018) offers a cautionary view on multistakeholder governance, emphasizing the risk that powerful actors may co-opt deliberative processes, thereby marginalizing grassroots or vulnerable constituencies. For Namibia, institutionalizing transparent consultation, equitable benefit-sharing, and oversight frameworks is not only ethically imperative but strategically necessary for de-risking long-term investment and maintaining social cohesion. By foregrounding stakeholder theory, this case encourages students to question assumptions about state sovereignty, power asymmetries, and the conditions under which developmental legitimacy is sustained.

Sustainability Governance and Eco-Enterprise Strategy

Sustainability governance refers to the frameworks, rules, and institutional arrangements through which societies steer complex transitions toward environmental, social, and economic resilience (Meadowcroft, 2007). Namibia's Roadmap exemplifies an integrated governance model, aiming to harmonize the imperatives of green industrial development with global sustainability frameworks such as the United Nations' Sustainable Development Goals (SDGs).

This aligns conceptually with Stead and Stead's (2000) notion of "eco-enterprise strategy," wherein sustainability is embedded into the core logic of value creation—rather than relegated to peripheral compliance. Namibia's positioning of green hydrogen as both an export commodity and a catalyst for social transformation exemplifies this principle.

However, as Willner (2004) and others have noted, sustainability governance is inherently conflictual, involving difficult trade-offs among ecological preservation, economic competitiveness, and social equity. For instance, Namibia's infrastructure expansion may simultaneously advance climate goals and imperil delicate desert ecosystems if not guided by robust environmental oversight.

Moreover, Namibia's global narrative—of a small country playing a big role in decarbonization—relies on its ability to demonstrate policy coherence, regulatory stability, and transparent accountability. These factors are central not just to sustainability outcomes but also to investor risk perception and geopolitical credibility.

This section challenges learners to understand governance as a dynamic and negotiated process rather than a fixed institutional arrangement, emphasizing the interplay between formal policy, soft power, and stakeholder trust.

Transformational Leadership in Sustainability Transitions

The final theoretical lens underpinning this case is transformational leadership—a framework that highlights the role of visionary individuals in catalyzing systemic change (Bass & Avolio, 1994; Bass & Riggio, 2006). President Hage Geingob's articulation of Namibia's energy future is not merely administrative; it is deeply symbolic, rhetorical, and strategic. Rice's (2006) conception of transformational diplomacy aligns well with this leadership approach, stressing a shift from transactional to purpose-driven international engagement. In Geingob's narrative, green hydrogen is not only a technical solution—it is a pathway to social inclusion, national pride, and global relevance. Visser (2011) underscores the necessity of embedding responsibility, ethics, and long-termism in leadership models addressing sustainability. Namibia's insistence on training green energy professionals, incorporating gender equity targets, and building community ownership reflects these principles. Nonetheless, transformational leadership carries risks. Overpromising, neglecting implementation bottlenecks, or failing to manage distributional impacts can erode credibility and entrench inequality (Stead & Stead, 2000). The Namibian case offers fertile ground for debating how leaders can maintain vision while navigating the pragmatics of phased delivery, coalition-building, and inclusive policy design.

Case Summary

Namibia's Green Industrialization Roadmap represents an ambitious national effort to reorient the country's economic foundation around renewable energy, with green hydrogen positioned as a catalyst for sustainable development. Spearheaded by President Hage Geingob, the initiative aspires to establish Namibia as a global leader in the emerging green hydrogen market while simultaneously advancing domestic prosperity, environmental stewardship, and regional integration (Government of Namibia, 2024).

At its core, the Roadmap sets forth a bold economic agenda: attract over USD 30 billion in foreign direct investment (FDI) by 2035, create tens of thousands of green economy jobs, and construct critical renewable energy infrastructure—including solar and wind farms, desalination plants, and hydrogen export facilities. The initiative is closely aligned with Namibia's Nationally Determined Contributions (NDCs) under the Paris Agreement and broader commitments to the United Nations' Sustainable Development Goals (UNFCCC, 2021; United Nations, 2023).

However, the path to green Industrialization is neither linear nor uncontested. As President Geingob prepares for the pivotal World Economic Forum in Davos in early 2024, he must navigate a constellation of strategic tensions, stakeholder conflicts, and operational bottlenecks that could either accelerate or derail Namibia's sustainable future.

Key Stakeholders and Conflicting Interests

The Roadmap implicates a diverse array of stakeholders, each pursuing distinct—and sometimes incompatible—interests. Managing these competing demands requires not only sound policy but also deft communication, inclusive governance, and transformational leadership.

Local Communities

Rural and indigenous populations, particularly in southern Namibia, embody both opportunity and vulnerability in the green industrialization effort. While these communities welcome the promise of job creation, infrastructure investment, and improved public services, they also express deep concerns about potential displacement, the loss of traditional grazing lands, cultural erosion, and exclusion from decision-making processes (Werner, Kam, & Degefa, 2024).

Environmental Advocates

Conservationists caution that large-scale renewable energy projects could irreversibly harm Namibia's fragile desert ecosystems. Environmental advocacy groups demand rigorous environmental impact assessments, enforceable biodiversity protections, and the integration of sustainability safeguards at every stage of project planning and implementation (Willner, 2004).

Private Sector and Investors

Global investors are attracted by Namibia's exceptional solar and wind resources, its geopolitical stability, and its potential to become a major green hydrogen exporter. Yet they remain wary of regulatory uncertainties, infrastructure limitations, and water scarcity. These stakeholders seek assurance through transparent governance structures, consistent legal frameworks, and credible mechanisms for risk mitigation (Aguilera, Aragón-Correa, & Marano, 2021).

Regional Partners

Namibia's ambitious green industrialization agenda has drawn attention within the Southern African Development Community (SADC), where neighboring countries express concerns over potential energy market distortions. There is apprehension that Namibia's infrastructure projects—particularly port expansions and hydrogen export corridors—could deepen regional asymmetries unless cross-border coordination and collaboration are prioritized (Gleckman, 2018).

Strategic Inflexion Points

At this pivotal moment, President Geingob confronts four interconnected strategic decisions that will shape the trajectory of Namibia's green industrialization effort. First, the government must find a way to balance foreign and domestic interests by designing investment agreements that attract FDI while preserving national sovereignty, promoting community ownership, and protecting environmental resources. Second, managing stakeholder expectations becomes essential, requiring the institutionalization of participatory governance mechanisms such as benefit-sharing agreements, community development trusts, and structured public consultation platforms. Third, Namibia must continue leveraging digital diplomacy to amplify its narrative and distinguish itself in a competitive global marketplace. This includes optimizing tools such as social media campaigns, virtual investment summits, and AI-driven sentiment tracking (Bjola & Holmes, 2015; Manor, 2019). Finally, institutional readiness must be strengthened through greater bureaucratic capacity, interministerial collaboration, and the professionalization of regulatory oversight. These inflexion points are deeply interdependent—progress in one area reinforces the others, while failure in any single domain risks destabilizing the entire transition.

The Narrative Tension: Progress Versus Inclusion

At the heart of the Namibian case lies a real-world dilemma: how to reconcile the urgency of global-facing economic transformation with the slower, trust-based processes of inclusive domestic governance. Namibia's green hydrogen strategy projects an ambitious macro-level narrative—centered on climate leadership, investment readiness, and regional competitiveness. However, on the ground, micro-level tensions are surfacing. In communities near proposed hydrogen hubs, concerns range from land rights and water access to fears of elite capture and opaque benefit-sharing mechanisms.

This complexity reveals a deeper contradiction: while global investors operate on accelerated timelines seeking regulatory clarity and returns, local communities navigate historical grievances, socio-economic exclusion, and demands for procedural justice. Drawing on transformational leadership theory, President Geingob must hold together this multiscalar coalition—maintaining investor confidence while nurturing local legitimacy (Rice, 2006; Visser, 2011). His leadership is tested in harmonizing speed with trust, ambition with humility, and green growth with social equity.

This unresolved tension between macroeconomic ambition and micro-level accountability forms the central pedagogical challenge of the case—inviting students to interrogate how leaders communicate across power asymmetries, manage stakeholder friction, and shape sustainable development pathways under real-world constraints.

Why This Case Matters

Namibia's experience offers rich pedagogical value for understanding the realities of sustainable development transitions in emerging economies. It highlights the operational challenges of executing green industrial strategies at national scale amid capacity constraints, stakeholder contestation, and global competition.

Crucially, the case compels students to grapple with core strategic dilemmas: How do states assert national priorities without alienating powerful global actors? How can leaders manage multi-level stakeholder systems where local justice claims intersect with global sustainability narratives? What role does strategic communication play in shaping perceptions of credibility, responsibility, and fairness? By offering no easy answers, the Namibia case prepares learners to think beyond technical solutions, embracing the political, ethical, and communicative complexities of leading systemic change in a climate-constrained world.

Pedagogical Objectives

The Namibia Green Industrialization case study is intentionally designed to cultivate a diverse and future-facing set of pedagogical outcomes. It weaves together foundational disciplines in strategic management, public policy, international relations, sustainability transitions, and leadership education. Through immersive simulation, systems-based inquiry, and applied ethical reasoning, students are invited to confront real-world challenges that demand not only analytical acuity but also communicative dexterity and principled judgment. This section outlines four core pedagogical domains where the case delivers instructional value, while also contributing to current conversations in business education and sustainability leadership.

Unlike many conventional cases that focus on well-resourced firms or developed-country contexts, this case offers a frontier-market leadership perspective, where digital diplomacy must substitute for hard power, and ethical stakeholder engagement is not a normative add-on but a practical necessity. It equips students to lead in systems marked by volatility, constrained resources, and moral ambiguity—conditions that increasingly define global sustainability leadership.

Strategic Analysis in Complex Environments

One of the case's primary pedagogical contributions is in developing students' capacity for strategic thinking in conditions marked by volatility, uncertainty, complexity, and ambiguity (VUCA). Namibia's green hydrogen roadmap presents a real-world context where strategic decisions are shaped by intersecting pressures—from climate diplomacy and infrastructure readiness to investment flows and domestic equity demands.

Students must contend with what Rittel and Webber (1973) famously termed "wicked problems"—challenges without clear boundaries or solutions, requiring iterative, context-sensitive responses. In this setting, learners are challenged to apply strategic reasoning in dynamic conditions. They engage in identifying key inflexion points and moments of leverage that may alter the trajectory of Namibia's green hydrogen ambitions. They also assess how technical, financial, and social systems intersect and influence one another in ways that complicate policy coherence. Finally, they craft phased, adaptive strategies capable of responding to evolving political and environmental conditions, thereby learning to manage complexity rather than eliminate it.

Such exercises prepare learners to manage strategic complexity akin to what business and public leaders increasingly face in global energy and sustainability transitions (Mintzberg, 1994; Levin et al., 2012). The case reinforces competencies in foresight, risk governance, and systems integration, aligned with emerging frameworks in adaptive strategic management (Aragón-Correa & Sharma, 2003; Ferraro, Etzion, & Gehman, 2015).

Application of Public and Digital Diplomacy Concepts

The case expands the conceptual horizon of business education by incorporating the tools and techniques of modern digital diplomacy. In an era where small and middle-income countries must assert themselves in globally networked arenas, Namibia's strategic use of digital communication becomes a compelling exemplar.

Students explore how digital tools such as AI-driven sentiment analysis, social media analytics, and virtual investor briefings enable states to shape perceptions, frame national narratives, and project soft power (Bjola & Holmes, 2015; Manor, 2019, 2022). They also examine the communicative dilemmas posed by global visibility—such as how to balance transparency with competitiveness, or how to counter disinformation while preserving democratic engagement (Pamment, 2020).

Assignments asking students to design Namibia's digital diplomacy strategy ahead of Davos (2024) are structured to strengthen core competencies in international communication. Students learn to segment audiences and tailor messages that resonate with distinct stakeholder groups, from global investors to environmental NGOs. They also develop skills in strategic framing and agenda-setting, positioning Namibia's green hydrogen narrative to gain traction in competitive media and policy spaces. Additionally, these exercises cultivate cross-cultural communication awareness and reputational risk management—essential tools for navigating the digital landscape of modern diplomacy and aligned with calls for more integrated, multi-dimensional diplomatic frameworks (Lenczowski, 2010). These are vital competencies not only in international public diplomacy, but also in ESG communications, sustainability branding, and investor relations (Wettstein, 2021).

Stakeholder Management and Ethical Leadership

The case positions ethical leadership and stakeholder engagement at the heart of strategic sustainability. It challenges students to assess Namibia's stakeholder landscape—ranging from rural communities and youth groups to multinational investors and regional trade blocs—and to make sense of asymmetries in power, voice, and influence (Freeman, 1984; Mitchell, Agle, & Wood, 1997).

Using scenario design and stakeholder mapping, students are challenged to apply ethical reasoning in a high-stakes development context. They visualize how misalignment among key stakeholders can erode legitimacy or stall the implementation of megaprojects. From there, they are tasked with designing inclusive governance mechanisms that give tangible expression to procedural fairness and benefit-sharing. Finally, they navigate complex ethical dilemmas related to displacement, land use, and environmental justice—issues that surface repeatedly in frontier market development and demand a nuanced, context-sensitive response.

Such exercises foster value-driven reasoning and relational sensitivity—key features of ethical leadership models such as CSR 2.0 (Visser, 2011) and transformative sustainability leadership (Wiek, Bernstein, Foley, & Cohen, 2016). The case also stimulates critical reflection on foundational questions that often surface in contested development contexts. Students are encouraged to consider who gets to define "sustainability" and how those definitions shift across actors and agendas. They grapple with what trade-offs may be acceptable in the pursuit of green industrialization, particularly when competing demands emerge from economic, environmental, and social imperatives. Finally, they examine how intergenerational equity—protecting the needs of future generations—can be balanced with the urgent pressures of present-day economic development.

Experiential Learning Through Simulation and Scenario Design

Finally, the case supports a pedagogy grounded in experiential and transformative learning. Rather than passively analyzing abstract problems, students inhabit decision-making roles—crafting communications, simulating negotiations, and preparing real-time strategic responses. Key learning activities include designing digital diplomacy campaigns, where teams draft and pitch Namibia's outreach strategy to global investors; participating in stakeholder simulations that expose the negotiation dynamics between communities, developers, and state officials; and engaging in cabinet-level simulations, where students produce executive memos that distill complex decisions into concise, actionable insights. These exercises embody what Kolb (1984) described as "learning through transformation," allowing students to integrate theory with practice and emotion with cognition. Deliverables vary across contexts and may include stakeholder analysis matrices, policy risk assessments, and reflective essays that explore ethical dilemmas and leadership decisions in depth.

These experiential modules equip students with cross-cutting skills in systems thinking, integrative decision-making, and ethical pragmatism. They reflect a broader pedagogical trend toward case-based, action-oriented, and

interdisciplinary learning in global business and public affairs education (Christensen & Carlile, 2009; Waddock & Lozano, 2013).

Classroom Implementation

The Namibia Green Industrialization case study is purposefully designed for interactive, interdisciplinary learning. It equips students with tools to navigate complex policy environments that intersect business strategy, sustainability governance, and international relations. The case encourages the integration of strategic reasoning, ethical leadership, stakeholder management, and digital communication to address real-world development dilemmas. This section outlines a recommended implementation plan, including preparatory work, in-class modules, and assessment options. Appendix B is a useful reference here.

Preparation and Background Readings

To ensure depth of engagement, students should receive the case study at least one week before the class session. This gives them time to familiarize themselves with Namibia's national context and begin reflecting on the strategic, ethical, and communicative challenges embedded in the case. To support deeper engagement, instructors may wish to draw on select readings to help students contextualize the case and connect it to core theories. Foundational texts in digital diplomacy (Bjola & Holmes, 2015; Manor, 2019, 2022), stakeholder theory (Freeman, 1984), sustainability governance and ESG leadership (Aguilera, -Correa, & Marano, 2021), and transformational leadership (Bass & Avolio, 1994; Visser, 2011) can be useful reference points. Instructors might also consider excerpting key insights from Namibia's Green Industrialization Blueprint (Government of Namibia, 2024) or the UN Sustainable Development Goals Report (United Nations, 2023) as a way to bridge academic theory with real-world policy frameworks. Whether shared with students directly or used to inform in-class facilitation, these materials can enrich discussion and support applied analysis.

Class Structure and Flow

The following outline is designed for a full 3–4 hour seminar, though each component can be scaled to fit different course formats.

Opening (15 minutes): Scene Setting

The instructor introduces Namibia's geopolitical context, renewable energy potential, and diplomatic positioning within Africa and global climate initiatives. Visuals like energy potential maps, stakeholder matrices, or promotional videos from Namibia's Ministry of Mines and Energy can enhance immersion (DiploFoundation, 2023).

Framing Question

How can a small African state leverage digital diplomacy to mobilize investment, secure international credibility, and promote inclusive development in a highly competitive global energy market?

Part 1 (30 minutes): Stakeholder Mapping Exercise

Students begin by breaking into small teams to conduct a structured stakeholder mapping activity. Appendix A may serve as a useful reference to guide this exercise. Each team identifies key stakeholder groups—such as rural communities, environmentalists, foreign investors, regional blocs, and youth entrepreneurs—and analyzes their respective interests, levels of influence, and potential areas of alignment or conflict.

Teams are encouraged to visualize stakeholder power dynamics and surface potential governance risks. To deepen analysis, the instructor may pose guiding questions such as: Which actors hold the power to enable or block Namibia's green energy vision? Where do stakeholder objectives converge or clash? What strategies could foster alignment or reduce opposition?

Following their analysis, each group presents its stakeholder map to the class. This collaborative reflection helps uncover blind spots and fosters systems thinking as students grapple with the complex interplay of actors involved in Namibia's green hydrogen transition (Gleckman, 2018).

Part 2 (45 minutes): Digital Diplomacy Strategy Design

In this module, students step into the role of Namibia's communications and policy advisors preparing for the Davos 2024 summit (see Appendix C). Their assignment is to design a digital diplomacy campaign that effectively communicates Namibia's green hydrogen value proposition, reassures both investors and environmental advocates, and emphasizes sustainability, innovation, and regional leadership.

Deliverables for each team include a core messaging framework, a recommended set of digital platforms (such as Twitter/X, LinkedIn, or YouTube), integration of AI-driven sentiment analysis tools, stakeholder engagement dashboards (Manor, 2022), and protocols to mitigate reputational risks or disinformation campaigns.

Each team presents its strategy in a 5-minute pitch. Class discussion and instructor feedback center on the realism, ethical framing, innovation, and strategic clarity of each plan. This activity develops students' capacity for digital literacy, soft power strategy, and public diplomacy (Bjola & Holmes, 2015; Mefalopulos, 2008).

Part 3 (30 minutes): Ethical Dilemmas Debate

The third segment shifts to a live debate format in which students are divided into two opposing groups. One side adopts the position of Pro-Investment Advocates, emphasizing the need for rapid FDI attraction and export readiness. The other side represents Pro-Equity Advocates, prioritizing domestic capacity-building, ecological protection, and community empowerment.

Debate prompts may include: Should environmental risks be tolerated for faster economic gains? What mechanisms best ensure intergenerational equity? Whose voices should be prioritized when defining Namibia's development path? This segment allows students to hone persuasive argumentation skills while grappling with the trade-offs inherent in sustainable development policy (Visser, 2011; Willner, 2004).

Part 4 (30 minutes): Executive Simulation and Policy Memos

In the final module, each student team acts as a Cabinet -level advisory group presenting to President Geingob. Their task is to recommend both short- and long-term strategies for stakeholder management and diplomatic positioning. Teams must identify likely trade-offs and justify their proposed path using a combination of ethical reasoning, strategic foresight, and geopolitical awareness.

As a written deliverable, each team submits a one-page executive memo articulating its recommendations. This simulation strengthens executive communication skills and challenges students to distill complex information into clear, actionable insights under real-world constraints.

Assessment and Grading Options

Faculty should ensure that the assessment methods used reflect the case's multidisciplinary nature and experiential learning goals. Evaluation criteria may include participation (measured through engagement in mapping, debate, and simulation activities), group presentations (assessing digital strategy quality, creativity, and stakeholder awareness), and reflection papers (evaluating students' insights into leadership, ethics, and complexity). In addition, instructors may assess executive policy memos based on their conciseness, practical feasibility, and integration of stakeholder perspectives.

Flexibility for Different Teaching Contexts

The Namibia case is easily adaptable to a variety of instructional formats. For executive workshops lasting two to three hours, instructors may prioritize the stakeholder mapping exercise and digital strategy design components to maximize applied engagement. In full-length MBA or MPA courses, all four modules can be integrated for a comprehensive, immersive experience. For online or hybrid courses, instructors can leverage collaborative platforms such as Miro or Google Jamboard for virtual stakeholder mapping, and use asynchronous video presentations for the digital diplomacy campaign pitches. The case can also be paired with modules in climate finance, ESG policy, or African regional integration, depending on course themes.

Reflections on Pedagogical Value

The Namibia Green Industrialization case study offers rich pedagogical value, particularly in cultivating strategic, ethical, and communicative competencies critical for leadership in today's interconnected and sustainability-focused world. Designed to bridge theory and applied problem-solving, the case fosters student engagement, interdisciplinary integration, and global awareness.

Enhancing Critical Thinking and Strategic Reasoning

At its core, the case challenges students to think critically across multiple dimensions—economic, environmental, political, and technological. Students must analyze a complex real-world situation in which national aspirations are bounded by practical constraints, diverse stakeholder claims, and global geopolitical dynamics. Unlike technical or purely financial cases, Namibia's roadmap requires students to grapple with ambiguity, weigh competing interests, and recognize trade-offs inherent in transformational development agendas. This mirrors the reality faced by senior executives, policymakers, and international negotiators who must make decisions with incomplete information and uncertain outcomes (Aguilera, Aragón-Correa, & Marano, 2021). In particular, the layered structure of the case—moving from stakeholder analysis to digital diplomacy strategy and ethical decision-making—forces students to adopt a systems perspective. They must connect stakeholder demands with strategic messaging and institutional capacity, encouraging multidimensional problem-solving rather than siloed thinking.

Deepening Ethical Leadership Awareness

The ethical dilemmas embedded in Namibia's green transition offer a unique platform for leadership development. Students are required to confront questions of distributive justice, intergenerational equity, and environmental stewardship—all within a context of pressing economic development needs (Visser, 2011; Willner, 2004). The case surfaces uncomfortable but necessary tensions that are often overlooked in traditional strategy or policy curricula. Students are prompted to consider whether short-term FDI flows should be allowed to override long-term social or ecological costs. They grapple with how vulnerable local communities can be meaningfully included in national projects that are primarily designed for global export markets. And they are challenged to reflect on whether transformational change—particularly in frontier economies—is even possible without deepening existing social inequalities. These questions are not designed to elicit easy answers but to cultivate ethical sensitivity, strategic discernment, and a more grounded understanding of sustainable development dilemmas. Through debate and simulation exercises, students practice articulating and defending positions rooted not just in strategic logic, but in ethical reasoning. They learn that leadership is not merely about achieving outcomes but about navigating values-based tensions in ways that sustain legitimacy, trust, and long-term impact.

Building Applied Skills in Stakeholder Engagement and Digital Diplomacy

Another major contribution of the case lies in its emphasis on communication strategy and stakeholder engagement. By designing digital diplomacy campaigns for Namibia's participation in Davos 2024, students develop applied competencies that are increasingly vital in public and private sector leadership. They practice narrative framing tailored to diverse international audiences, leveraging digital platforms and AI-enhanced tools for strategic communication (Manor, 2022; Bjola & Holmes, 2015). In doing so, they also gain experience in proactive reputation management—an essential skill when operating in high-visibility, high-stakes environments.

This complements the growing demand across both public and private sectors for leaders capable of managing soft power, building cross-border coalitions, and navigating the risks and opportunities of digital diplomacy.

Importantly, students also experience firsthand how communication strategies must align with underlying policy actions and stakeholder realities to maintain credibility—a lesson often underappreciated in traditional management curricula.

Fostering Global Awareness and Cross-Cultural Sensitivity

Namibia's case provides students, particularly those from the Global North, with exposure to the development dynamics and leadership challenges of a frontier economy striving to lead in a high-tech, sustainability-driven global sector. It encourages learners to appreciate how climate action, foreign investment, indigenous rights, and technological innovation intersect differently in diverse national contexts. In doing so, the case advances global competence, defined not merely as knowledge of world affairs but as the ability to analyze, empathize, and act thoughtfully across cultural and geopolitical boundaries. Furthermore, by situating Namibia within broader regional dynamics in Africa and global green energy trends, students better understand the role of emerging economies in shaping the contours of the 21st-century global economy.

Contributions to Teaching Innovation

The Namibia Green Industrialization case contributes meaningfully to the advancement of innovative teaching practices by offering a multidimensional platform for experiential, interdisciplinary, and globally relevant learning. It provides instructors with a rare opportunity to move beyond traditional case frameworks by integrating real-time policy complexity, ethical leadership, and digital diplomacy into one coherent, high-impact pedagogical tool.

First, the case effectively blends traditional business analysis, such as investment strategy, competitive positioning, and policy risk assessment, with public administration frameworks, including stakeholder governance, inter-ministerial coordination, and regional diplomacy. This cross-sectoral integration allows students to engage with both private-sector logic and public-sector responsibilities, building their fluency in managing mixed-economy challenges in global development contexts. Such a pedagogical fusion is particularly valuable for executive education programs, MBA strategy courses, and Master of Public Administration (MPA) seminars, where the aim is to bridge business and policy spheres.

Second, the case centers sustainability not as a peripheral concern, but as a core strategic and ethical imperative. It requires students to confront dilemmas of environmental justice, equitable development, and intergenerational responsibility, challenging them to apply sustainability and ethics-driven inquiry to real-world investment and governance decisions. This aligns with evolving AACSB and NASPAA learning standards, which increasingly emphasize the integration of sustainability and social impact into leadership education.

Moreover, the flexible modularity of the case enables it to be tailored to diverse teaching contexts. It can be run as a single, high-impact session focused on stakeholder strategy, or extended across multiple class sessions to explore digital diplomacy tools, ethics debates, and national policy design. This versatility supports varied instructional formats, including in-person intensives, hybrid classrooms, and online executive cohorts.

From a teaching methodology perspective, the case fosters experiential learning through a range of interactive techniques that bridge theory and practice. Students engage in role-playing simulations that replicate Cabinet-level policy deliberations and international investment negotiations, helping them internalize the complexity of decision-making under pressure. They also complete executive memo writing tasks that simulate the kind of advisory communication expected in real-world interactions with heads of state or multilateral institutions. Additionally, stakeholder mapping exercises provide a visual and analytical framework for exploring power dynamics, interest alignment, and conflict resolution. These hands-on formats move students beyond abstract theorizing and toward practical application. They also support competency-based learning, enabling instructors to assess critical leadership capabilities such as ethical reasoning, stakeholder negotiation, strategic communication, and systems thinking.

Finally, the case supports teaching innovation through timeliness and adaptability. As Namibia's green hydrogen initiative evolves, instructors can update case content with the latest policy announcements, diplomatic engagements, or project milestones. This "living case" approach keeps classroom dialogue anchored in current affairs, reinforcing the relevance and dynamism of applied management and policy education.

In sum, the Namibia case exemplifies the pedagogical shift toward integrated, experiential, and values-driven teaching that prepares learners not just to solve business problems but to lead societal transitions in an increasingly interconnected and climate-conscious world.

Conclusion and Future Directions

The Namibia Green Industrialization case study offers a timely, interdisciplinary teaching resource that captures the multidimensional challenges facing emerging economies in the 21st century. It brings into sharp relief the tensions between economic ambition, environmental sustainability, and political legitimacy in the context of global green transitions.

By centering the leadership of President Hage Geingob and Namibia's strategic use of digital diplomacy, the case bridges theory and practice in areas as diverse as sustainability governance, strategic communication, stakeholder engagement, and ethical leadership. It invites students to examine how a resource-constrained but diplomatically agile state attempts to shape its destiny in an increasingly complex and competitive international arena.

Rather than offering simplistic binaries, the case exposes learners to the nuanced and often paradoxical nature of leadership under sustainability transitions: speed versus

inclusion, sovereignty versus globalization, and optimism versus realism. These tensions reflect the broader dilemmas facing policymakers and executives in a world defined by ecological risk, digital transformation, and geopolitical flux.

Pedagogical Value for Global Classrooms

The pedagogical strength of this case lies in its integration of experiential learning, systems thinking, and interdisciplinary engagement. It is specifically designed to move beyond traditional case-based instruction in strategy or leadership, offering a platform where global challenges are analyzed through multi-stakeholder, multi-scalar, and multi-sectoral lenses.

For instructors considering case adoption, this teaching resource is particularly well-suited for graduate-level programs that emphasize leadership, sustainability, and global engagement. It aligns with MBA and Executive MBA curricula focused on strategy, international business, stakeholder management, and ethical decision-making. It also supports learning objectives in MPA and development policy programs, where themes of governance, diplomacy, and international development are central. Finally, the case offers strong value in interdisciplinary sustainability programs, especially those that explore the interface between business strategy, climate governance, and technological innovation.

Its flexible instructional design allows for both core and elective course integration. Whether the focus is public diplomacy, climate finance, or energy transition strategy, the case provides an applied, narrative-rich entry point into real-world leadership dilemmas. Role-play simulations, ethical debates, and digital strategy workshops make the learning interactive and immersive.

Students not only analyze Namibia's national strategy—they must also synthesize information across domains, justify trade-offs, and deliver persuasive communications under conditions of strategic ambiguity. In doing so, the case reinforces real-world decision-making skills that are rarely addressed through conventional lecture or theoretical models alone.

Future Research and Teaching Applications

From a scholarly perspective, the Namibia Green Industrialization case opens multiple avenues for advancing research on sustainability leadership, digital statecraft, and global energy transitions—particularly within small and middle-income countries. These nations often operate with constrained institutional capacity, yet face disproportionate expectations to achieve climate goals, attract foreign investment, and maintain domestic legitimacy. As such, the case serves as an empirical springboard for exploring how peripheral actors assert agency in a rapidly evolving geopolitical and environmental order.

Emerging Research Questions

Several key research questions emerge from the Namibia case. For example, how do small states craft strategic influence within global sustainability governance regimes, such as those organized around green hydrogen markets or carbon trading mechanisms? What role does digital diplomacy play in shaping investor perceptions, stakeholder legitimacy, and reputational capital in the context of infrastructure-intensive sustainability projects? Additionally, how do participatory governance mechanisms influence the long-term social and environmental outcomes of development initiatives—and under what conditions are they likely to succeed or fail? These questions offer fertile ground for doctoral dissertations, comparative case studies, and policy evaluations situated at the intersection of climate governance and national development strategy.

Comparative and Longitudinal Inquiry

The case also invites broader comparative and longitudinal investigations. Cross-country analyses could compare Namibia's green hydrogen diplomacy to that of other emerging leaders such as Morocco, Chile, or the United Arab Emirates, revealing patterns in branding, public–private coordination, and geopolitical alignment. Another avenue is the evaluation of AI-enabled digital communication tools and their influence on national image-building, investment attraction, and resilience during crises, especially in volatile policy environments. Longitudinal research might assess the policy coherence between Namibia's development plans (e.g., Vision 2030) and its evolving international climate obligations. Additionally, impact assessments could examine how the Green Industrialization Roadmap affects rural empowerment, ecosystem preservation, gender inclusion, and regional diplomacy within the Southern African Development Community (SADC) and the African Union.

Pedagogical Extensions

In the teaching domain, the case offers a modular and customizable platform for experiential learning across a wide range of academic programs, including MBA, MPA, international relations, and development studies. Instructors might extend the case through intergovernmental negotiation simulations—such as mock SADC energy forums or African Union green financing summits—that allow students to role-play cross-border collaboration and assess trade-offs in transboundary infrastructure development. Other pedagogical innovations include case-based exploration of public–private partnerships in climate-related infrastructure finance, addressing topics like concessional funding, blended finance, risk guarantees, and investor-state dispute resolution. Ethics-centered modules can further enrich learning by prompting students to interrogate how governments navigate trade-offs among economic growth, environmental stewardship, and the rights of vulnerable populations. These activities may be grounded in normative frameworks such as Rawlsian justice, intergenerational ethics, or indigenous rights theory.

Keeping the Case Current

To maintain the case's relevance in evolving educational contexts, instructors can refresh materials annually. This may include incorporating updated policy documents

(such as revised climate pledges or infrastructure master plans), curating real-world communications (like social media campaigns, investor decks, or summit speeches), and inviting reflections from Namibian stakeholders via interviews, guest speakers, or collaborative assignments. These enhancements can help sustain the case's status as a "living document" that evolves in tandem with real-world developments in sustainability diplomacy and green industrialization.

This capacity to evolve makes the Namibia case a living document—an adaptive pedagogical tool that can be scaled across learning environments and remain responsive to the shifting contours of global sustainability politics. Ultimately, the Namibia Green Industrialization case does more than teach—it cultivates a mindset of critical inquiry, systems awareness, and ethical pragmatism, essential for educators and researchers committed to preparing the next generation of leaders in global sustainability transitions.

Final Reflections

Ultimately, the Namibia Green Industrialization case advances a foundational goal of 21st-century business and public policy education: preparing students to lead effectively in an era defined by global interdependence, systemic volatility, and urgent ecological transition. As the world faces compounding crises—climate change, energy insecurity, social inequality—educators are increasingly called upon to equip learners not merely with analytical tools, but with the ethical reasoning, strategic foresight, and communicative fluency necessary to drive transformative change.

This case reinforces a central premise: that leadership in sustainability is not simply a technical or managerial exercise. Rather, it is a profoundly relational, ethical, and communicative act—one that requires navigating contested narratives, building legitimacy across stakeholders, and making decisions in environments where values, interests, and knowledge are often in tension. These qualities are especially vital in frontier policy spaces such as green hydrogen development, where uncertainties are high and the stakes are generational.

By situating students in real-world dilemmas—such as how to balance foreign investment with local equity, or how to build digital trust across borders—the case invites them to wrestle with the complexity of contemporary leadership. It challenges them to confront trade-offs, surface competing claims of justice, and design integrated strategies that are not only economically viable but politically and socially credible.

From a pedagogical standpoint, the Namibia case contributes to an emergent stream of experiential and interdisciplinary education that bridges the classroom and the world. It promotes action-oriented learning, where students are not passive recipients of knowledge but active co-creators of solutions. This shift—from content mastery to capability building—is increasingly recognized as essential in preparing future leaders to operate in high-stakes, cross-sectoral contexts.

Moreover, the case highlights the importance of educational pluralism, drawing on theories and methods from business, international relations, ethics, sustainability studies, and digital communication. It models a form of integrative pedagogy that mirrors the messy, interconnected nature of global problem-solving, encouraging learners to think across boundaries and disciplines.

As such, the Namibia case supports a deeper transformation in management and policy education: from linear models of decision-making to systems-based inquiry; from control-oriented leadership to inclusive stewardship; from static strategy to adaptive governance. These shifts reflect not just pedagogical innovation but a broader reimagining of what it means to educate for impact in the Anthropocene.

In conclusion, this case offers more than a story about Namibia—it offers a window into the emerging demands of leadership in the climate era. It compels students to engage not only with complexity but with responsibility, and in doing so, cultivates the kind of reflective, resilient, and ethically grounded leadership that our shared future increasingly requires.

Instructor Note: Leadership Outcomes and Turning Points

While the case presents a simulated dilemma to stimulate classroom debate, it is rooted in real policy inflection points. Under President Geingob's leadership, Namibia achieved several tangible breakthroughs that reflect his ability to navigate complex stakeholder dynamics.

Notably, the 2022 launch of the Green Hydrogen Council institutionalized stakeholder coordination across ministries, investors, and civil society. The 2023 Harambee Dialogue Series brought regional governors, youth leaders, and environmental advocates into national consultations—an example of bottom-up legitimacy building to complement top-down investment promotion.

In 2024, Namibia secured over €500 million in green investment pledges during the Namibia-EU Investment Summit in Brussels, signalling global investor confidence. Yet this was paralleled by domestic initiatives: youth-led innovation hubs, social impact bonds, and community benefits frameworks embedded in pilot hydrogen agreements. These outcomes suggest that the leadership response evolved from vision-setting to a dynamic balancing act of inclusion, risk-sharing, and adaptive governance.

Instructors may use these real-world milestones to frame post-discussion reflection: What constitutes a "successful" outcome in a high-ambiguity policy environment? How can leadership remain responsive while retaining strategic clarity?

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Albertus Aochamub (aa@aochamub.com)

Paul H. Jacques (phjbbu@yahoo.com)

Appendix A

Stakeholder Map (Namibia Green Industrialization Roadmap)

Stakeholder group	Primary interests	Level of influence	Potential conflicts/ concerns
Local communities	Land rights, employment, cultural preservation	Medium–High	Risk of displacement; cultural loss
Environmental NGOs	Biodiversity protection, sustainable practices	Medium	Concern over desert ecosystem degradation
International investors	Return on investment, regulatory stability	High	Water scarcity; project delays
Government ministries	National development, global reputation	High	Need for policy coherence
Regional partners (SADC)	Cross-border energy trade, economic balance	Medium	Fears of regional marginalization
Global development agencies	Climate finance allocation, SDG advancement	Medium	Accountability and transparency concerns

Note. SADC refers to the Southern African Development Community; SDG stands for Sustainable Development Goals. This stakeholder map summarizes the primary actors influencing Namibia's Green Industrialization Roadmap, their key interests, their relative influence on project outcomes, and major areas of potential conflict or concern. It serves as a foundation for stakeholder analysis, negotiation simulations, and strategic decision-making exercises.

Appendix B

Teaching Plan Summary

Teaching Segment	Activity	Skills developed	Time allotted
Opening	Context Setting & Strategic Dilemma	Contextual analysis	15 minutes
Part 1	Stakeholder Mapping	Systems thinking; negotiation awareness	30 minutes
Part 2	Digital Diplomacy Strategy Design	Strategic communication; creativity	45 minutes
Part 3	Ethical Leadership Debate	Ethical reasoning; persuasion	30 minutes
Part 4	Executive Simulation and Memo Writing	Strategic synthesis; executive decision-making	30 minutes
Closing	Debrief and Reflection	Integrative learning; critical reflection	10 minutes

Note. This table outlines the suggested flow and learning outcomes of a standard 2.5-hour classroom session using the Namibia Green Industrialization case. Each segment supports a core dimension of applied learning: strategic analysis, stakeholder engagement, ethical leadership, and experiential communication. Instructors may adjust durations based on course structure or cohort experience.

Appendix C

Sample Digital Diplomacy Strategy Template

Component	Details
Core narrative	"Namibia: Africa's Gateway to the Global Green Economy"
Target audiences	Foreign investors (EU, Japan, USA), multilateral agencies, global media, environmental NGOs
Channels	LinkedIn, Twitter/X, YouTube, interactive microsites, virtual investment roadshows
Key messages	Policy certainty; sustainable infrastructure; local community benefits; environmental leadership
Digital tools	AI-driven sentiment analysis; targeted online ad campaigns; VR site tours of projects
Crisis Preparedness	Rapid response team for negative media; transparent updates on environmental assessments
Metrics of success	Increase in investment inquiries; positive media coverage; stakeholder sentiment improvements

Note. This sample template provides a strategic framework for Namibia's digital diplomacy campaign at global forums such as Davos. It integrates narrative framing, multi-platform outreach, AI-enhanced engagement, and proactive risk mitigation. VR=virtual reality. NGO=non-governmental organization.