Business case

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Community & UN SDG(s):	**SDG 15**: Life on Land – Protecting forests and biodiversity. **SDG 13:** Climate Action
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Proposed Project	Deforestation Data Platform – A Power BI-based multi-page report for tracking global deforestation trends.
Date Produced	02/06/2025
Background	- Deforestation is a major environmental challenge contributing to climate change, biodiversity loss, and land degradation. Understanding the scale and impact of deforestation requires data-driven insights that students (middle/high school, junior college) can use to make informed decisions. - This project proposes a Power BI dashboard that consolidates real-time and historical deforestation data, offering a comprehensive visualization of forest loss, carbon emissions, and other risks linked to deforestation. By performing data visualization on public datasets, the platform will provide a user-friendly, data-driven report for sustainability insights.
Business Need/ Opportunity	The current challenges in deforestation tracking include: - Lack of real-time data visualization for global deforestation trends. - Limited public awareness about deforestation's impact on climate and economy. This project presents an opportunity to perform deforestation data analysis, making it accessible for Students (middle/high school, junior college) through a centralized Power BI dashboard.
Options	Option 1: Proceed with the Project (Develop the Deforestation Data Platform) - Build an interactive Power BI dashboard using multiple datasets. - Integrate real-time deforestation data from public sources. - Provide customizable reports for different stakeholders. - Develop an easy-to-use interface for data access and analysis. Option 2: Do Nothing (Maintain the Status Quo) - Continue relying on existing fragmented datasets, making analysis inefficient. - Policymakers and organizations struggle to derive insights from raw data. - No improvement in public awareness and engagement in deforestation issues.
Cost-Benefit Analysis	

Options	Costs	Benefits
Proceed with the Project	- Development time (data integration, Power BI reports) - Infrastructure (cloud storage, APIs) - Training for users if needed	- Centralized, real-time deforestation insights - Increased public awareness
Do Nothing	- No direct costs	- Data remains unused and difficult to interpret - Limited impact on deforestation awareness - Missed opportunity for sustainability efforts

Recommendation

The best course of action is Option 1: Proceed with the Project.

- It addresses the need for an accessible, centralized deforestation data platform.
- It provides valuable insights for policymakers, researchers, and sustainability advocates.