

Heritage Treasure

Define Problem Statement – In-Depth Analysis of UNESCO World Heritage Sites

There is a lack of centralized, structured, and analytical representation of UNESCO World Heritage Sites that identifies threats, evaluates conservation effectiveness, tracks tourism impact, measures funding allocation, and compares regional performance. This results in inefficient decision-making, poor resource allocation, reactive risk management, and limited stakeholder insights.

Core Problem Areas

Problem Category	Description	Impact Level	Affected Stakeholders
Data Fragmentation	Data scattered across sources	High	Governments, Researchers
Over-Tourism	Excess visitor numbers damaging sites	High	Local Communities, Tourists
Climate Change	Floods, erosion, temperature rise	Critical	Global Heritage Bodies
Insufficient Funding	Limited conservation budgets	High	Site Authorities
Risk Monitoring	No real-time tracking systems	Medium	Conservation Agencies

Risk Categorization of UNESCO Sites

Risk Type	Examples of Impact	Severity	Monitoring Need
Environmental	Coastal erosion, forest fires	Critical	High
Human-Induced	Vandalism, urban expansion	High	High
Tourism Pressure	Infrastructure strain	High	Medium
Political Instability	War, neglect	Critical	High
Natural Disasters	Earthquakes, floods	High	Medium

Final Defined Problem Statement: There is no integrated analytical framework that systematically organizes, evaluates, and visualizes UNESCO World Heritage Site data to support proactive conservation, sustainable tourism, and risk management decisions.