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How Human Technology Shapes the Fate of Biodiversity: Case of Javan Rhino

Matthew Yoon

Blair Academy, South Korea

Abstract

This paper explores how the evolution of human technology– from Paleolithic tools to modern digital systems has shaped human development and the environmental consequences. Early technologies, including composite tools such as composite tools and the limitations to the use of fire, display foundational patterns of innovation being centered around survival, efficiency, and adaptation. Over time, these technological systems became increasingly complex, cumulating into large scale technologies commonly used in the modern era. While these technologies have significantly increased the quality of life for humans, they have also contributed to the loss of biodiversity. Using the Javan Rhinos, this paper examines how modern technological systems, global incentives, and global demand have accelerated poaching and habitat destruction. Ultimately, the paper argues that while technology was not originally designed to cause harm, its impact depends on the responsibility of humans, and future progress must align with maintaining an ethical environment stewardship.

Keywords: Technology, Biodiversity, Javan Rhinoceros, Globalization, Conservation