Title: Examining the potential impact of land use/cover changes on the ecosystem services of Baguio city, the Philippines: A scenario-based analysis

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Abstract: The main purpose of this study is to examine the potential impacts of the past and future land use/cover (LUC) changes on the ecosystem services of Baguio city, the Philippines, and discuss their implications for policy development and implementation. Remote sensing-derived LUC maps for 1988, 1998 and 2009, along with GEOMOD, a Geographic Information Systems-based LUC change model, and ecosystem service value (ESV) coefficients were used to facilitate the analysis. The results revealed a decrease in the ESV of Baguio for the past 21 years (1988–2009), of which a substantial amount was due to loss of forest cover. Consequently, the human-to-ESV (H-ESV) ratio has decreased over the years.