

Land Use and Global Environmental Change

Subjects: [Environmental Sciences](#) | [Development Studies](#)

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Global environmental changes are multifactorial and affected by multiple forms of land use. Land use is closely linked to the global dynamics of the urbanization process, especially in recent decades in which the world has gone through intense migratory processes moving from rural to the urban setting. The dynamics that involve the urbanization process have multiple aspects and presuppose multiple ways of using the land and their linking to the economic aspect.

[environmental changes](#)

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1. Land: Possibilities and Uses

The use of land presupposes a series of “possibilities and effects” that translate into the “usefulness versus results”. Some of the main effects resulting from the use of land are disconnected from effective planning about the natural, social and economic effects and impacts [\[10,11\]](#). Because of this, spaces for new or functional uses must be considered and configured without causing conflicts between the economic and environmental effects. In this sense, the development of possible uses of rural and urban land must start from a strategically innovative approach [\[12\]](#). This is because the activities of humans alter the characteristics of watersheds and cause changes in land use, e.g., the use of forest area in agriculture in Thailand caused several problems after a tropical storm in 2019. Falling trees reduced production considerably [\[13\]](#). Additionally, when focusing on climate effects, the issue of floods goes beyond the economic damage and requires the emergency construction of sub-basins to deal with low water absorption in the soil [\[13\]](#). Thus, for example, in Austria, issues arise that may compromise agriculture in semi-arid regions where the suggestion to store groundwater for use on the land in periods of drought is considered as a strategy to cope with the problem [\[14\]](#).

In addition to natural factors, there are factors such as social vulnerability, issues resulting from irrational use of land, valorization of areas to the detriment of others and economic priority attributed to a locality [\[15\]](#). These vulnerabilities motivate the restructuring of land use which can be beneficial or cause an environmental and economic imbalance. For example, one of the resources that is relevant and inherent to land use is energy generation which is an important component of urbanized spaces. Due to its economic and environmental potential [\[16\]](#), it is essential to indicate the use of solar energy and the multiple possibilities of adapting such international plans to local realities [\[17\]](#).

In related perspectives, several authors convey the idea that between the binomial of “possibilities and challenges”, challenges are much more visible because, logically, they are paid more attention in the plans and projects where urban planning is the driver for the rational use of land [\[7,15,18,19,20\]](#). These observations add to the suggestion that a set of unique methodologies to analyze and mitigate climate change in urban areas may be developed [\[21\]](#) in addition to the alignment between policies and measures applied to urban planning [\[22\]](#). Generally, reflections on land use focus on two aspects: environmental protection on the one hand, and its socioeconomic development resulting from an environmental exploitation on the other.

Global Environmental Change And Land Use

**Olav Slaymaker, Tom Spencer, Christine
Embleton-Hamann**



Global Environmental Change And Land Use:

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Table of Contents Global Environmental Change And Land Use

1. Understanding the eBook Global Environmental Change And Land Use
 - The Rise of Digital Reading Global Environmental Change And Land Use
 - Advantages of eBooks Over Traditional Books
2. Identifying Global Environmental Change And Land Use
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Global Environmental Change And Land Use
 - User-Friendly Interface
4. Exploring eBook Recommendations from Global Environmental Change And Land Use
 - Personalized Recommendations
 - Global Environmental Change And Land Use User Reviews and Ratings

- Global Environmental Change And Land Use and Bestseller Lists
- 5. Accessing Global Environmental Change And Land Use Free and Paid eBooks
 - Global Environmental Change And Land Use Public Domain eBooks
 - Global Environmental Change And Land Use eBook Subscription Services
 - Global Environmental Change And Land Use Budget-Friendly Options
- 6. Navigating Global Environmental Change And Land Use eBook Formats
 - ePub, PDF, MOBI, and More
 - Global Environmental Change And Land Use Compatibility with Devices
 - Global Environmental Change And Land Use Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Global Environmental Change And Land Use
 - Highlighting and Note-Taking Global Environmental Change And Land Use
 - Interactive Elements Global Environmental Change And Land Use
- 8. Staying Engaged with Global Environmental Change And Land Use
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Global Environmental Change And Land Use
- 9. Balancing eBooks and Physical Books Global Environmental Change And Land Use
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Global Environmental Change And Land Use
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Global Environmental Change And Land Use
 - Setting Reading Goals Global Environmental Change And Land Use
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Global Environmental Change And Land Use
 - Fact-Checking eBook Content of Global Environmental Change And Land Use
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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