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Interconnected Solutions for a Sustainable Future: Integrating Agriculture, Development, Biodiversity, Climate Action, and Equity

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Abstract: *Agriculture is central to sustainable development, providing food security, livelihoods, and ecosystem services. However, conventional agricultural practices often degrade natural resources and exacerbate environmental degradation. This paper examines sustainable development in agriculture, focusing on strategies to enhance productivity, conserve biodiversity, mitigate climate change, and promote socio-economic equity. Challenges such as water scarcity, soil degradation, and market access barriers are addressed, alongside opportunities for innovation, technology adoption, and policy reform. By adopting holistic and regenerative approaches, agriculture can contribute significantly to global sustainability goals while ensuring resilience and prosperity for present and future generations.*

Keywords: Sustainable agriculture, Sustainable development, Biodiversity conservation, Climate change mitigation, Socio-economic equity

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