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# Financing Irrigation Water Management and Infrastructure: A Review

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## Abstract

Many of the world's irrigated regions face the problem of aging infrastructure and declining revenues to maintain and repair irrigation structures. Policy debates over climate change, population growth, food security, and impacts of irrigation on ecological assets compound the problem, raising the urgency to invest in irrigation infrastructure. Meanwhile, a global call for full-cost recovery for water infrastructure investments increases the need to identify the economic value of sustaining irrigation infrastructure. This article reviews the literature on the economic value of irrigation infrastructure, focusing on the role of infrastructure subsidies, clearing titles to water rights, conducting water audits, and improving water management practices. The article also discusses the role of infrastructure in water security and the need for investment in infrastructure to ensure sustainable water resources. The article concludes that infrastructure is a key component of water security and that investment in infrastructure is essential for sustainable water resources. The article also discusses the role of infrastructure in water security and the need for investment in infrastructure to ensure sustainable water resources.

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marginal cost pricing, and non-volumetric pricing. Institutional approaches described include regulatory measures, transboundary agreements, and water user associations. Results may contribute to current debates in various regional, national, and international forums on whether and how water should be priced for agricultural use.

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