

THE BUCHAREST UNIVERSITY OF ECONOMIC STUDIES
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SUMMARY OF DOCTORAL THESIS

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Doctoral thesis title:

**THE ECONOMIC IMPACT OF CARBON SEQUESTRATION AT
FARM LEVEL IN THE CONTEXT OF ENVIRONMENTAL
CHANGE**

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KEYWORDS: AGRICULTURE, CLIMATE CHANGE, FARMS, GHG, CARBON SEQUESTRATION.

SUMMARY

Climate change and environmental degradation require effective solutions to reduce carbon dioxide (CO₂) emissions. Carbon sequestration in agricultural soils is a promising strategy to mitigate these problems. This practice not only contributes to reducing CO₂ concentrations in the atmosphere, but can also have a significant economic impact on farms.

The PhD thesis entitled "The economic impact of on-farm carbon sequestration in the context of environmental change" aims to analyze and deepen the role of agri-environmental and greenhouse gas (GHG) management policies. The thesis emphasizes the importance of a sustainable and innovative approach to this topic, using economic analysis methods and techniques to identify the main sectoral paradigm shifts and trends. In this context, doctoral research is a topical scientific approach, given the evolution of national agriculture and environmental requirements. Research results show that the implementation of sustainable agricultural practices can bring significant economic benefits in the long term, including the reduction of operational costs and increasing the resilience of farms to climate change.