



**University of Azuay**

**School of Legal Sciences**

International Studies Major

**Weaving sustainability: innovative eco practices  
for logistics processes in the Andean Community**

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**Cuenca – Ecuador**

**2024**

## DEDICATION

To my dear parents, whose unconditional love, support, and sacrifices have been the basis of all my aspirations and achievements. Thank you for teaching me the value of effort, perseverance, and dedication. To my grandparents and my entire family, for being my pillar and always giving me your unwavering support. Each one of you has contributed invaluable to my personal and academic development. And to my faithful companion Panchito, whose loyalty and unconditional love have provided me with comfort and joy in the hard moments. Your presence has been a refuge of peace and happiness in my life.

### ACKNOWLEDGMENT

My sincere thanks are due to all the individuals who have been part of my journey through this process.

Firstly, I would like to thank my parents for their unconditional support. Thank you for always being by my side and for believing in me. To my grandparents and family for their encouragement and company to complete this work. To my thesis director, for his guidance and patience.

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## **Resumen**

El artículo explora la relación entre el comercio internacional, las emisiones de CO<sub>2</sub> y la eco innovación en los países de la Comunidad Andina de Naciones (CAN). A través de una revisión exhaustiva de la literatura, se identifican estrategias de eco innovación para integrar en la agenda estratégica de la CAN, optimizando la eficiencia logística y reduciendo el impacto ambiental. Entre las estrategias destacadas están el uso de vehículos eléctricos, la optimización de la cadena de suministro con tecnologías avanzadas como IoT e IA, y la implementación de políticas sostenibles. El estudio enfatiza la necesidad de cooperación entre los países miembros y el desarrollo de un marco regulatorio sólido para promover la innovación sostenible. A pesar de las limitaciones metodológicas y terminológicas, la investigación sugiere que adoptar prácticas eco innovadoras puede reducir significativamente las emisiones de CO<sub>2</sub> y mejorar la competitividad económica de la región.

### **Palabras clave:**

comercio internacional, contaminación atmosférica, cooperación internacional, innovación, política ambiental.

## **Abstract**

The article explores the relationship between international trade, CO<sub>2</sub> emissions and eco-innovation in the countries of the Andean Community of Nations (CAN). Through a comprehensive literature review, it identifies eco-innovation strategies to integrate into the CAN's strategic agenda, optimising logistical efficiency and reducing environmental impact. Among the strategies highlighted are the use of electric vehicles, the optimisation of the supply chain with advanced technologies such as IoT and AI, and the implementation of sustainable policies. The study emphasises the need for cooperation between member countries and the development of a sound regulatory framework to promote sustainable innovation. Despite methodological and terminological limitations, the research suggests that adopting eco-innovative practices can significantly reduce CO<sub>2</sub> emissions and improve the region's economic competitiveness.

### **Keywords:**

air pollution, innovation, international cooperation, international trade, environmental policy.