



University of Bergen SDG215: Life on Land



JAGUARS ON THE BRINK: UNRAVELING THE TAPESTRY OF SOUTH AMERICAN FORESTS

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INTRODUCTION

Jaguars are largely effected by habitat fragmentation in the Atlantic Forest in South America. This biodiversity hotspot has global value and resilience that cannot be replaced once the ecosystem has experienced irreversible impacts. We recommend exploring wildlife crossings and green bridges when road construction may result in fragmentation .



CAUSES OF HABITAT FRAGMENTATION

- **Natural Disaster (floods, fires, windstorms, etc.)**
- **Human Activities (agriculture, deforestation, mining, construction, etc.)**



SUSTAINABLE CONSTRUCTION

We propose a focus on the following SDGs

- **SDG 11: Sustainable Cities and Communities**
- **SDG 13: Climate Action**
- **SDG 15: Life On Land**

Focus on “Green Bridges”



STATISTICS

HABITAT FRAGMENTATION HAS PLACED THE JAGUAR ON THE IUCN RED LIST AS 'NEAR THREATENED'

85% jaguar habitats lost in Atlantic Forest

88% of the Atlantic Forest has been impacted by humans

FRAGMENTATION INCREASES EDGE EFFECTS, BOOSTING WILDLIFE MORTALITY AND LOWERING REPRODUCTIVE SUCCESS.



EFFECTS ON BIODIVERSITY & SDGS

- **Increased Extinction Risk**
- **Reduced Genetic Diversity**
- **Altered Species Interactions**
- **Ecosystem Service Decline**
- **Climate Change Vulnerability**
- **Impaired Ecological Connectivity**