

UNIVERSITY OF
SOUTH ALABAMA

The issue at a glance

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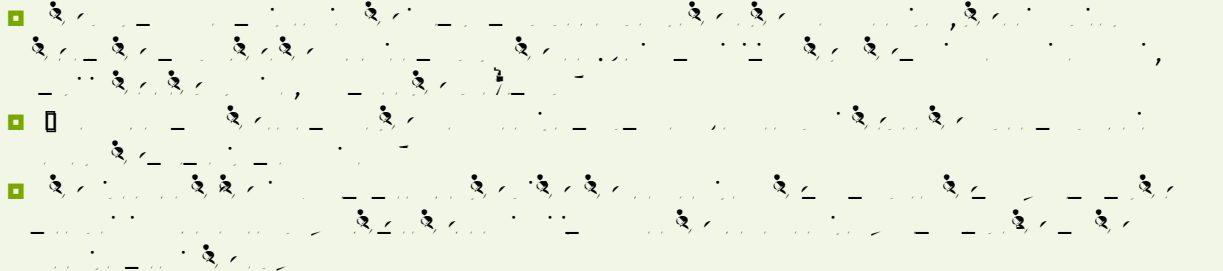
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Assess impacts and dependence



Explore and pursue new business opportunities



Reduce impacts and scale up solutions

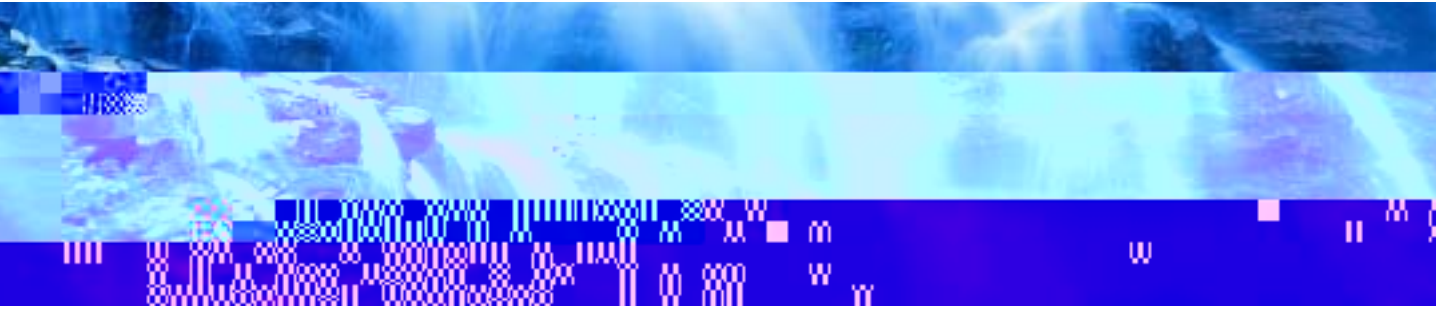


Balance sheet: Ecosystem services

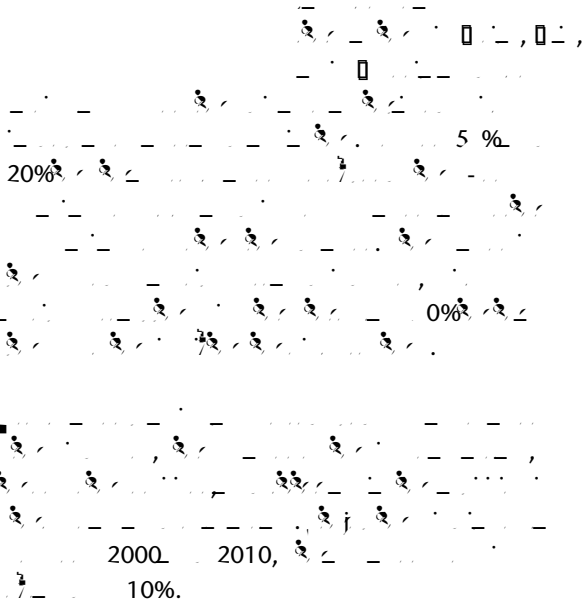
Regulating services

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1. 2000-2010, 10%.



Climate change⁶

“Observed recent changes in climate, especially warmer regional temperatures, have already had significant impacts on biodiversity and ecosystems...”



Challenges



Climate change

Implications

Climate change is expected to have significant impacts on agriculture, particularly in the most productive regions of the world. These regions are currently characterized by a combination of fertile soils, favorable temperatures, and adequate water availability. However, as climate conditions change, these advantages may be lost, leading to a decline in agricultural productivity and potential food security issues.

Investors in the agricultural sector should be aware of these risks and consider the long-term implications of climate change on their investments.

■ The most productive agricultural regions are currently located in temperate zones, where the combination of fertile soils, moderate temperatures, and sufficient rainfall creates ideal conditions for crop growth.

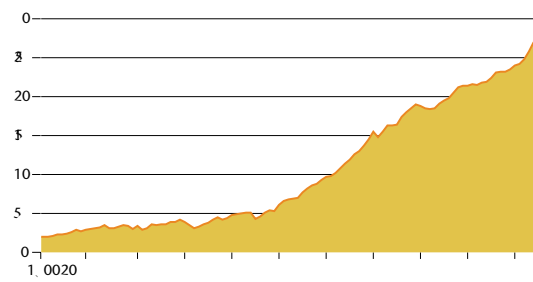
■ As climate change progresses, these regions may experience increased drought, soil degradation, and shifting temperature patterns, all of which can significantly reduce agricultural output.

“Any change in climate is going to change agriculture significantly, as the most productive regions of today are productive because of a perfect combination of fertile soils, temperature and water availability.”

— *John Deere*

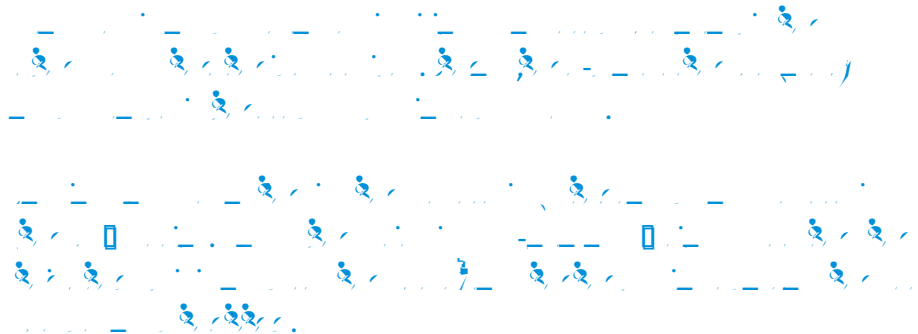
“We must be able to demonstrate leadership on climate change and be attractive to the SRI community, which is increasing in size. If we are not proactive, it will prove challenging to maintain the leading position we have with many investors.”

— *BlackRock*

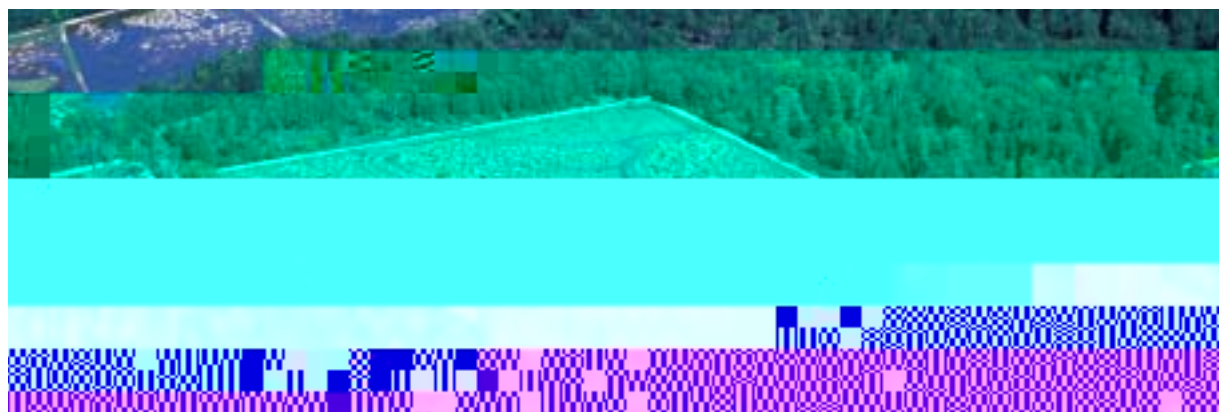
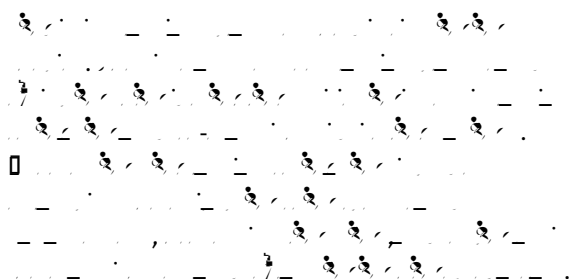
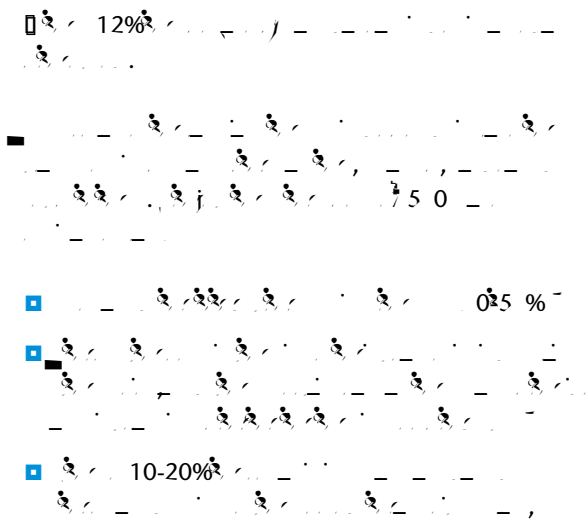


Build scenarios to prepare for change

Habitat change⁸



Challenges



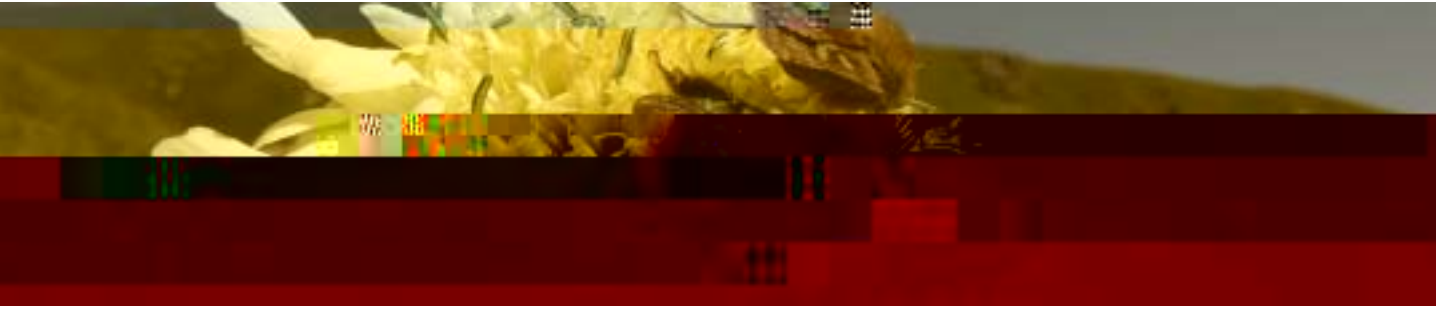
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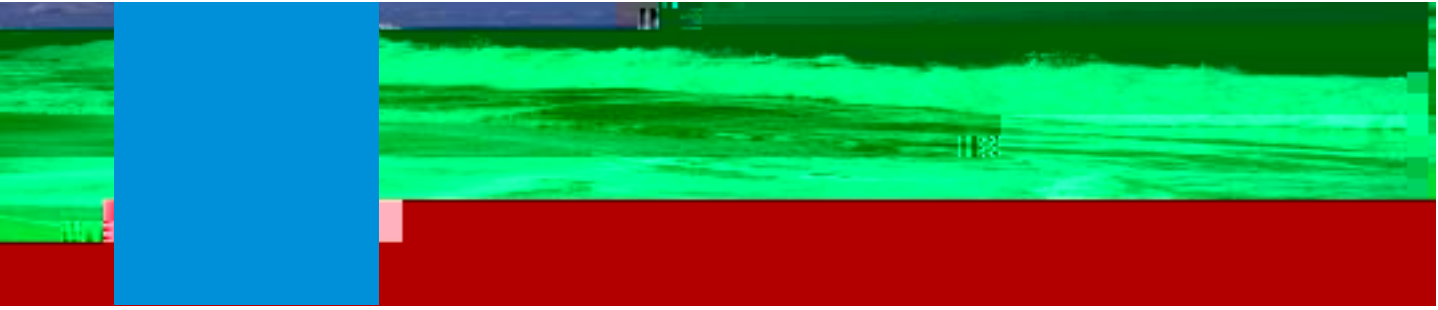
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Implications

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Nutrient overloading¹⁵



Broader perspectives

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- $\frac{1}{2} \times \frac{1}{8} = \frac{1}{16}$
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Partnership

- $\frac{1}{2} \times \frac{1}{10} = \frac{1}{20}$
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Earthwatch Institute (Europe)

2010年12月，地球卫士组织（Earthwatch Institute）在欧洲启动了“绿色经济”项目，旨在通过推广绿色经济，减少温室气体排放，改善环境质量。

The World Conservation Union – IUCN

世界自然保护联盟（IUCN）成立于1963年，是一个国际性的非政府组织，致力于保护自然和自然资源，以及促进可持续发展。

World Business Council for Sustainable Development – WBCSD

世界可持续发展工商理事会（WBCSD）成立于1991年，是一个由全球主要工商企业组成的国际组织，致力于推动企业可持续发展。

World Resources Institute – WRI

世界资源研究所（WRI）成立于1982年，是一个国际性的非政府组织，致力于通过科学研究和政策建议，促进全球可持续发展。

