

## Topics (T)

Climate Change Impacts and Challenges (Biodiversity, Forests and Land, Ocean/Marine Ecosystems, the Arctic and beyond) [1] (2A)

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CLIMATE CHANGE AND THE CHALLENGES OF GENERATING SOCIOECONOMIC BENEFITS  
IN BRAZIL

**Abstract**

Climate change has been a topic of interest for several countries. In recent years, Brazil, always active worldwide in the environmental area, has not been present in the main discussions on the subject. Much has been discussed in Brazil over the last four years about the role of monitoring deforestation and agricultural activities versus the competitiveness of agricultural production, as if they were incompatible. However, the use of data and spatial images, produced by private or public companies, such as National Institute for Space Research (INPE), for example, can generate essential information for increasing the productivity of several sectors, mainly agriculture and livestock. The Gross Value of Production (GPV) of Brazilian agribusiness reached R1.10trillionin2020andR 1.20 trillion in 2021 (CNA, 2022), values that could be higher with the application of spatial images for proper monitoring of the productions. The National Institute for Space Research (INPE) concluded that the estimated deforestation rate in the Brazilian Legal Amazon was 13,235 km<sup>2</sup> of clear cut in the period from August 1st, 2020 to July 31th, 2021 (INPE, 2021). Brazil would stop generating US1.5billionayear fromtheAmazonif, insteadofburning, it favoredthesustainablemanagemebillion for Brazil alone. And the cost to avoid such losses would be much lower, on the order of US680million(FolhadeSãoPaulo, 2022).Theidealstrategytobeadoptedwouldbetoincreaseinvestmentsinpublicenvironment