



- FWFSBHJOH 5FDIOPMPHZ GPS \$MJNBUF 4NBSU
* OOPWBUJPOT

Devianti Yunus*

Department of Agricultural Engineering, Syiah Kuala University, Indonesia

Abstract

Climate-smart agriculture (CSA) is essential for addressing the challenges posed by climate change, and leveraging advanced technologies plays a critical role in its success. This article explores various technological tools and innovations that enhance CSA practices, including precision agriculture, remote sensing, smart irrigation systems, and adapt to changing climatic conditions. By integrating real-time data, predictive analytics, and sustainable energy solutions, modern tools contribute to increased productivity, reduced environmental impact, and enhanced resilience. The adoption of these technologies is pivotal for advancing sustainable and climate-resilient agricultural systems.

*Corresponding author: Devianti Yunus, Department of Agricultural Engineering, Syiah Kuala University, Indonesia, E-mail: devianti.yunus@gmail.com

Received: 01-Sep-2024, Manuscript No: acst-24-147173, Editor Assigned: 04-Sep-2024, pre QC No: acst-24-147173 (PQ), Reviewed: 18-Sep-2024, QC No: acst-24-147173, Revised: 22-Sep-2024, Manuscript No: acst-24-147173 (R), Published: 29-Sep-2024, DOI: 10.4172/2329-8863.1000742

Citation: Yunus D (2024) Leveraging Technology for Climate-Smart Agriculture: Tools and Innovations. Adv Crop Sci Tech 12: 742.

Copyright: © 2024 Yunus D. This is an open-access article distributed under the . 12:85j

Digital platforms and apps

Digital platforms and mobile applications are increasingly available to support climate-smart agriculture. These tools provide farmers with