

Brainstorming Workshop on

IoT-Enabled Livestock Management: Advances and Adoption for the Indian Situation

November 03, 2023



Venue

**Four Points By
Sheraton Hotel and
Serviced Apartments**
Viman Nagar, Pune,
Maharashtra 411014, India.



About CAAST-CSAWM

The project entitled "**Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM)**" is being implemented in Mahatma Phule Krishi Vidyapeeth (Agricultural University), Rahuri, Maharashtra under World Bank Sponsored National Agricultural Higher Education Project (NAHEP) of Indian Council of Agricultural Research (ICAR), New Delhi, Government of India, Since 2018. One of the major objectives of CAAST-CSAWM project is to enhance the business and entrepreneurship opportunities and develop the capacity amongst the faculties, farmers, entrepreneurs and students for the development and adoption of the climate smart agriculture and water management technologies by conducting on-the-job training and case study based learning. CAAST-CSAWM organised 413 capacity development programs since its inception in online/on-campus mode in the form of training and certificate courses, workshops and brainstorming sessions, hands-on and experiential learning; and exposure visits.

About Workshop

The agricultural sector depends heavily on appropriate livestock management, and technological improvements have enabled to develop the creative solutions for improving management of livestock. IoT-enabled livestock management is a technology that uses sensors to gather data about livestock health, environment, and behavior. These data then further used to improve animal welfare, increase productivity, and promote sustainable farming practices with the help of suitable Decision Support System. IoT-enabled technologies enable farmers to collect real-time data on their animals' health, environment, and behavior; transmit, store and analyze these data; and further interacts with livestock-related data using technology, infrastructure, and data processing algorithms and in turn manage livestock and monitors livestock properly.

It is anticipated that during the projection period of 2022 to 2029, the Internet of Things (IoT) in the livestock management market is anticipated to experience market growth at a pace of 12.1% and reach USD 11.18 billion by 2029. The adoption of Internet of Things (IoT) technology for livestock management represents a significant advancement in Indian agriculture. With a population of over 1.3 billion people and a substantial reliance on livestock for food and livelihoods, IoT enabled livestock management can transform and revolutionize Indian agriculture. While there are challenges including affordability and connectivity issues, the benefits in terms of increased productivity, sustainability, and animal welfare are significant. Hence these challenges need to overcome with the right support, education, and collaboration so that the IoT adoption in livestock management can pave the way for a brighter future for Indian farmers.

In order to brainstorm the several issues related to the development and adoption of IoT enabled tools and technologies for Indian Agriculture, one-day workshop is organized. This workshop aims to bring together experts, practitioners, and stakeholders in the fields of agriculture, animal husbandry and livestock management to explore the potential of Internet of Things (IoT), and deliberate on the challenges for the adoption of IoT enabled technologies



Agenda Highlights:

- Keynote Addresses by a Distinguished Experts
- Panel Discussions on Challenges and Opportunities
 - Breakout Sessions for Idea Generation
 - Brainstorming for Actionable Roadmaps
 - Presentation of Innovative Solutions
 - Networking Opportunities for Collaboration

Objectives

Enhancing Livestock Welfare and Productivity: Implement IoT-based health monitoring systems to ensure early detection of diseases and irregularities in livestock. Optimize resource usage, such as water and feed, through IoT sensors. Promote better health and higher productivity among livestock.

Facilitating Informed Decision-Making for Farmers: Provide farmers with real-time data analytics derived from IoT devices to make informed decisions regarding breeding, feeding, and overall livestock management. Enable predictive analytics to anticipate and prevent potential issues, empowering farmers with actionable insights.

Promoting Sustainable and Efficient Agricultural Practices: Develop IoT solutions customized for diverse Indian agricultural practices, considering regional variations and livestock breeds. Enhance environmental sustainability by minimizing resource wastage, promoting responsible farming practices, and ensuring the long-term viability of Indian agriculture. environmental sustainability by minimizing resource wastage, promoting responsible farming practices, and ensuring the long-term viability of Indian agriculture.

Who can participate

A diverse group of participants including Dairy farmers, agribusiness professionals, researchers, students, faculties, policymakers, and technology enthusiasts would greatly enrich the workshop's discussions and can contribute to the exploration and understanding of IoT-Enabled Livestock Management: Advances and Adoption for the Indian Situation.

Registration

Registration Fee: Rs. 100/- per participant

Link: For registration, please visit following link or click next red button.

<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=2963960>

Procedure to pay registration fees: Select Payment Category: "Workshop Fee 100 Rs"

Number of seats: Limited seats (100 only) , "First come first served" protocol will be observed.

Certificate of participation: The digital certificate of participation will be emailed to all registered participants.

For More Details :

Mr. Nikhil Pawar

Mobile No.: 8600868168

Venue

Four Points By Sheraton Hotel and Serviced Apartments
Viman Nagar, Pune, Maharashtra 411014, India.

[Click here to](#)

Register

Technical Programme

- 09.00-10.00 : Registration
- 10.00-11.30 : Inauguration and Key Note Speech
- 11.30-11.45 : Networking and Tea break
- 11.45-13.15 : **Technical Session-I-** Enhancing Livestock Welfare and Productivity
- 13.15-14.00 : Networking and lunch break
- 14.00-15.30 : **Technical Session-II-** Facilitating Informed Decision-Making for Farmers
- 15.30-15.45 : Networking and Tea break
- 15.45-17.15 : **Technical Session-III-** IoT-Enabled Livestock Management: Future Trends and Innovations
- 17.15-18.00 : Way forward

Patrons

Dr. Prashantkumar Patil, Hon'ble Vice Chancellor, Mahatma Phule Krishi Vidyapeeth, Rahuri

Dr. R.C. Agrawal, Deputy Director General (Edu.) and National Director, ICAR-NAHEP, New Delhi

Convenors

Dr. Sunil Gorantiwar, Director of Research and Principal Investigator (CAAST-CSAWM), MPKV Rahuri

Dr. Anuradha Agrawal, National Coordinator (CAAST), ICAR-NAHEP, New Delhi

Co-Convenors

Dr. Sunil Masalkar, Associate Dean, College of Agriculture, Pune

Dr. Mukund Shinde, Professor (SWCE) and Co-Principal Investigator (CAAST-CSAWM), MPKV Rahuri

Organizing Secretaries

Dr. Somnath Mane, Chief Scientist, ICRTC, College of Agriculture, Pune (Mob ; 9881721022)

Dr. Sunil Kadam, Associate Professor, CAAST, Mahatma Phule Krishi Vidyapeeth, Rahuri-413 722

Joint Organizing Secretaries

Dr. Dhiraj Kankhare, Technical Head and Professor, ICRTC, AHDS, College of Agriculture, Pune

Program Co-Ordinators

Dr. Sujit Bhalerao, Assistant Professor, AHDS, College of Agriculture, Pune

Dr. Sunil Jogdand, Assistant Professor, REC, college of agriculture, Pune.

Dr. V. S. Malunjkar, Research Associate (CAAST-CSAWM), MPKV, Rahuri

Dr. M. A. Tamboli, Research Associate (CAAST-CSAWM), MPKV, Rahuri

Mr. Nikhil Pawar, Agricultural Assistant, AHDS, College of Agriculture, Pune





Organized by

World Bank Aided ICAR- NAHEP Project

Centre for Advanced Agricultural Science and Technology for Climate Smart
Agriculture and Water Management (CAAST-CSAWM)

Mahatma Phule Krishi Vidyapeeth, Rahuri

413 722 Maharashtra, India

www.mpkv-caast.ac.in; info.rahuri@mpkv-caast.ac.in and

INDIGENOUS CATTLE RESEARCH CUM TRAINING CENTER(ICRTC)

DIVISION OF ANIMAL HUSBANDRY AND DAIRY SCIENCE

College of Agriculture, Pune

www.icrtcmpkv.co.in, Email - icrtcacp@gmail.com

