

REPORT

WORKSHOP ON AGRICULTURE

SUMMARY

Workshop on Agriculture Workshop on Monday, 8 January 2018 at TCS Sahyadri Park, Pune. The key stakeholder involved in this workshop are listed below.

- IEEE
- TCS A&I and mKrishi teams
- Maharashtra Grape Growers Association
- Rural Relations
- Individual contributors and experts

The purpose of this workshop was to develop a road map for the Agriculture Initiative in collaboration with key stakeholders and experts.

Summarized below are the discussion points and action items from the workshop.

Discussion Points

1. Make agriculture a viable profession Form IEEE Chapter on Agriculture can be the key focus area.
2. Need to encourage women participation at various levels in the field of agriculture.
3. Need to focus on skill building.
4. Empower farmer via technology and partnerships
5. Partnering with ICAR (Indian Council of Agriculture Research, New Delhi)
6. Transforming rural livelihoods through platform solutions. It has potential to eliminate the middle man.
7. Application of IT in Precision Agriculture was shared by Dr Khilari through various examples
 - a. Water, Nutrition Management and yield monitoring. Water management has a major gap in India.
 - b. Application of Sensors in various Crop Monitoring Phases eg soil moisture level and leaf moisture level
 - c. Certification and Traceability
 - d. Pest and Disease Forecasting Models
 - e. Crop Density Identification
 - f. Export Market Compliance and Real Time Tracking of Commodity Container at Global level
 - g. Use of LIDAR for precise chemical/pesticide application
 - h. Crop harvest criteria and dissemination/adoption of information
 - i. Use of Infrared imagery for water status estimation
 - j. Local issues such as incident of bats
 - k. Opportunities in Precision Viticulture
8. Scope to leverage ITIL for incident management in agriculture
9. Development of Low Cost Instruments and Equipment's for Agriculture Operations

10. Gyan Key can act as a conduit to the last mile. Need to work with Sarpanch, Principal and Post Master who are three key opinion leaders in the village.
11. Create "Success Stories" across region, crops and disseminate by using mKRISHI@ Platform. Rural India is progressing rapidly due to girls taking education and youth being inspired. Branding of farming and farmers to ensure social stature.
12. Nano Videos: High impact stories to be captured in Nano video's and share via mKRISHI@ Platform. Can also publish a book.
13. IEEE can help define Standard's in Agriculture Field
14. Formation of IEEE Chapter in Agriculture Colleges. For this purpose. IEEE can collaborate with ICAR
15. Digitization of Dr. J.M. Khilari's work in Viticulture
16. Strong relationship and trust building with Farmer is crucial for bringing change in Agriculture. Need to focus on villages with 2000 plus population and having weekly bazaar.
17. Android phone and education are great enablers
18. Research on low cost IOT solutions
19. Create a institute for entrepreneurship development in Agriculture colleges

Action Items

Sr.No.	Next Step	Action owner
1	IEEE & ICAR Collaboration	Shankar
2	Formation of Agriculture Chapter in IEEE Pune Section. Focus on IEEE Standardization Process	Girish Khilari & Jagdish Chaudhari
3	Deployment of platform for Grape Farmers with the help of Dr. J.M. Khilari	Shankar Tagad
4	Digitization of Dr. J.M. Khilari's work in Viticulture	Shankar and Girish Khilari
5	Collaboration with Rural Relations	Pradeep Lokhande and Shankar Tagad
6	Organize an IEEE event on Agriculture	Girish Khilari and Jagdish Chaudhari



Photo 1 - Workshop Participants: 1. Aniket Kolee 2. Hemant Joshi, 3. Dr. Sanat Sarangi, 4. Nilesh Gudhe, 5. Ramesh Kadam, 6. Ajay Mittal, 7. Pradeep Lokhande, 8. Dr. J.M. Khilari, 9. Jagdish Chaudhari, 10. Dr. Srinivasu P., 11. Pramod Karjagi, 12. Dinanath Kholkar, 13. Shankar Tagad, 14. Jayant Mohite, 15. Girish Khilari, 16. Vaibhav Lonkar.

Appendix A: Workshop Agenda

Develop future road map of Agriculture Initiative

The discussions we cover, but will not be limited to, following points.

1. Transforming Rural India with platform solution for Farmers
2. Leverage of Data Analytics and Insights in Agriculture
3. Role of IEEE in Agriculture
4. Setting-up of Model Smart Farm
5. Digitization of Dr. J.M. Khilari's Work in Viticulture

Date 8 January, 2018. Monday

Time 10:00 – 17:00

Venue Tata Consultancy Services, Sahyadri Park, Hinjewadi, Phase 3, Pune.

Appendix B: Participant List

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