ihub
A creative platform for innovations that change the lives of farmers
PEAT-PLANTIX

Progressive Environmental & Agricultural Technologies (PEAT), a German start-up company has developed Plantix, a multi-lingual plant disease and pest diagnostic App. Farmers and extension workers worldwide are plagued by one question: ‘Are my plants doing well?’ Plantix has the answers. The smart phone application assists in identifying plant damage with the help of a smart phone picture and image recognition. The picture is directly uploaded to the servers and is automatically analyzed by PEAT’s algorithms which identify optical patterns and return results within seconds. Critical information on symptoms, triggers, chemicals as well as biological treatments are provided to the individual user. All pictures sent via the App are geo-tagged, thereby enabling real time monitoring of pest and diseases. Furthermore, the App encompasses a weather information system specific to farmers’ location and a community feature that facilitates interaction with other stakeholders interested in plant protection services.

ICRISAT and its partners (ANGRAU) played a critical role in customizing Plantix App for local crop needs. Plantix was launched in Telugu language for the first time in India by the honorable Chief Minister of Andhra Pradesh on 25th May, 2017 during a Collector’s conference in Vijayawada. Currently, Plantix has been downloaded by over 0.5 million users in India with a database of more than 1.2 million pictures and with a significant contribution from the Telugu speaking states of Andhra Pradesh and Telangana. Plantix can now identify over 175 crop diseases among field crops, fruit and vegetables.
KHETHINEXT is an integrated digital platform to enable agricultural transformation through smart farming. KHETHINEXT aims to connect remotely located, highly deserving and vulnerable smallholder farmers on a single mobile-based virtual platform that provides data-driven, timely and actionable insights to make their farming profitable. KHETHINEXT facilitates this through timely advice on best farming practices, access to quality and cheaper farm inputs, connect to financial institutions for credit facility/Insurance and get a remunerative price for selling farmers’ produce. KHETHINEXT also establishes a direct connect between farmers and the rest of the agriculture ecosystem such as input agencies, produce buyers, agriculture experts, policy makers and administrators. It is currently empowering 30,000 farmers in the states of Andhra Pradesh and Telangana.
AHEADRACE

A headRace provides outcome-oriented solutions engineered to provide tightly defined deliverables at agreed to milestones within an accelerated timeline. EverSmart LMS and Product On Ground (POG) are two trademarked products of AheadRace.

EverSmart POG: Agricultural traceability refers to the collection, documentation, maintenance and application of information related to all the process in supply chain. There are gaps in ensuring quality of inputs delivered in the process. POG is a low cost cloud based solution (entitled POG) that could potentially solve this problem. The solution will not only solve the issue of traceability, but also provides evidence to decision makers in the government by bringing greater visibility into inputs inventory and track their stages/process in distribution network.

EverSmart LMS: EverSmart LMS is an easy, friendly and simple learning tool with which you can launch, administer, track, analyze and deliver e-learning courses, programs, events and sessions that are instructionally sound, and which will help to enhance the skillset of farmers and extension workers.

VERDENTUM

Verdentum is a technology solution for development sector organizations to launch, coordinate, and monitor impact on high level projects. It has the functions and feel of a social network and is easy to use with both a mobile application and online platform, but has the power of a versatile management information system with analytics, reports, and visualization of progress – in real time – allowing organizations to understand outcomes and impact. Verdentum aims to disrupt the way development projects are being tracked by providing an easy solution that allows ground level staff (many of whom are not well educated) to upload photos and data from their mobile phones through an easy user interface. Verdentum is being used by leading organizations across continents to track projects in fields ranging from sustainable agriculture to healthcare to human rights and beyond. Its advisors include Prof. David Wilkins (Vice Dean, Harvard Law School), Peter Robertson (former Vice Chairman of the Board, Chevron), Dave Engberg (former CTO, Evernote), and numerous others. Full list at www.verdentum.org.

AEGIS

Aegis Consulting Services had built a loaning-to-trading transaction processing and integration platform for farmers. This web-and mobile-based agri business collaboration and data exchange network has modules like Online Licensing Management System for seeds, fertilizers and pesticides, Loan Management System, Disaster Management System, Soil Health Card System, Farm Loan Waiver System and Agri commodity trading engine. Given their deep domain and technology integration expertise they were among the early birds to work on UAVs for digital agriculture. Research in this area and readiness to provide digital and precision agri solutions using aerial multi-spectral sensors to capture spectral imagery, process, analyze and publish results in osavi, ndvi, ndre, cir, dsm, orthomosaic, chlorophyll map formats. There are many advantages that can be reaped by farmers, governments, researchers, manufacturers and other players in the ecosystem of agriculture with this data in the supply chain from farm to fork.

ICRISAT is a member of the CGIAR System Organization
About ICRISAT: www.icrisat.org
ICRISAT's scientific information: EXPLOREit.icrisat.org

Contacts: Ram Dhulipala (R.Dhulipala@cgiar.org); Satish Nagaraji (S.Nagaraji@cgiar.org); Srikanth Rupavatharam (R.Srikanth@cgiar.org)

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