



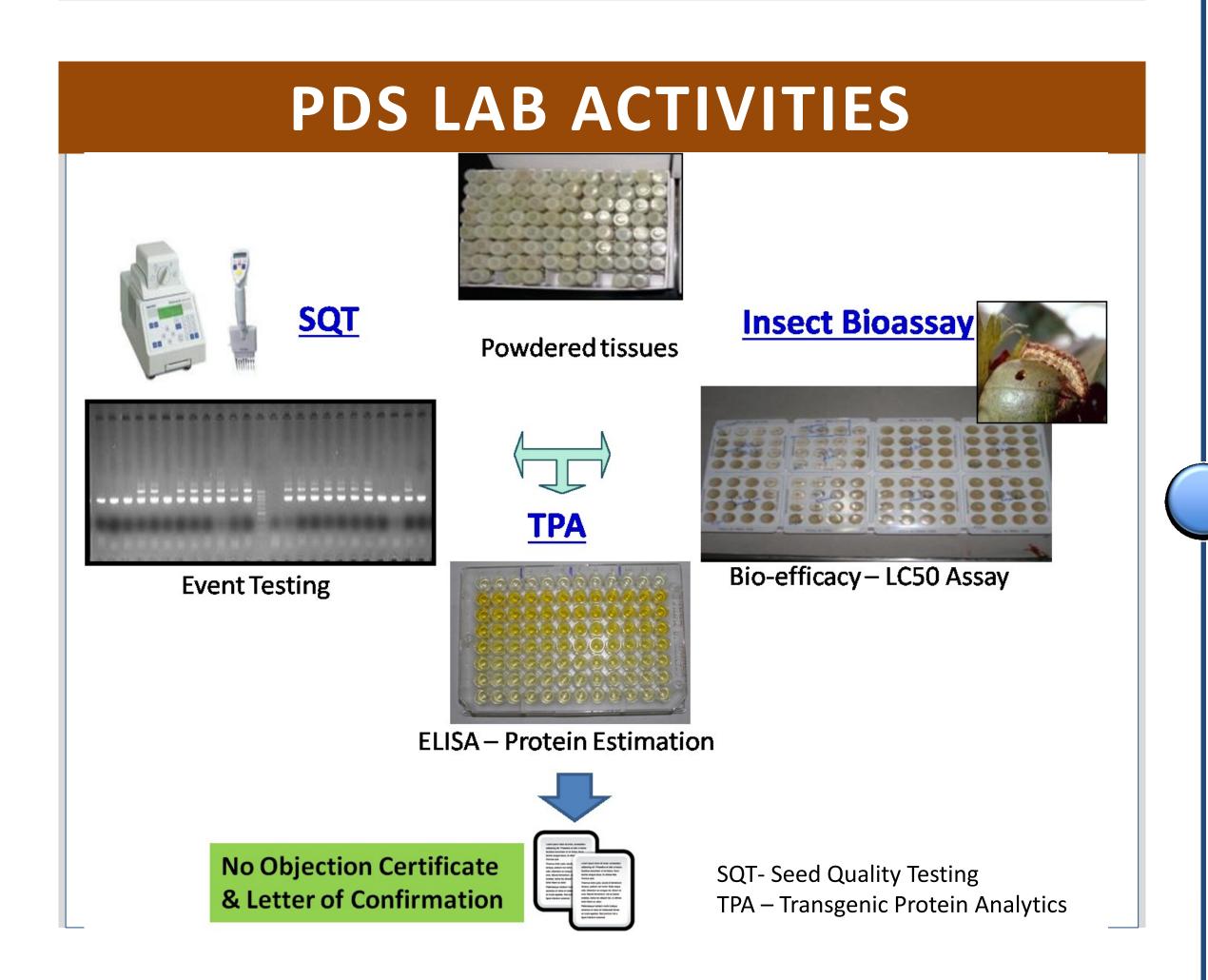
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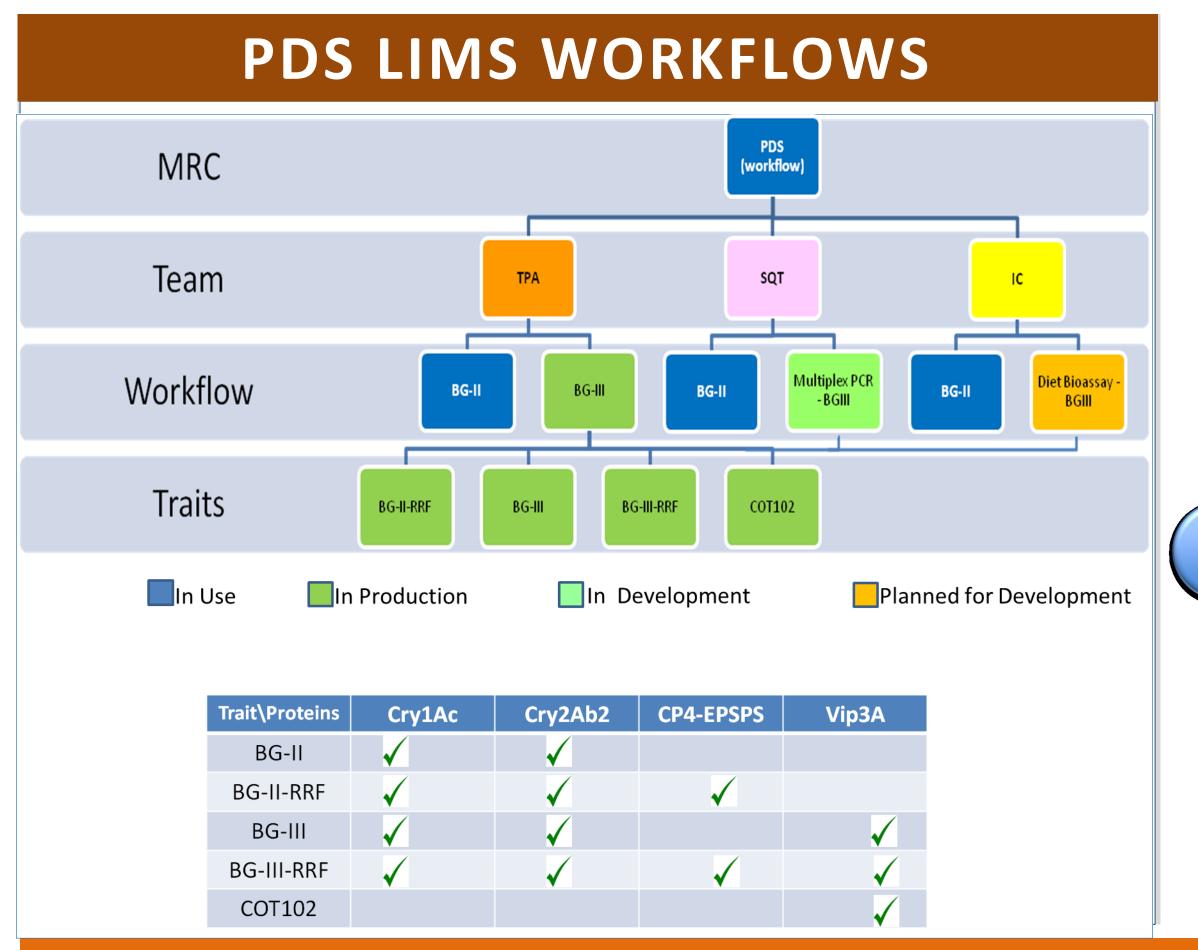
Data Stewardship For Cotton Traits In India

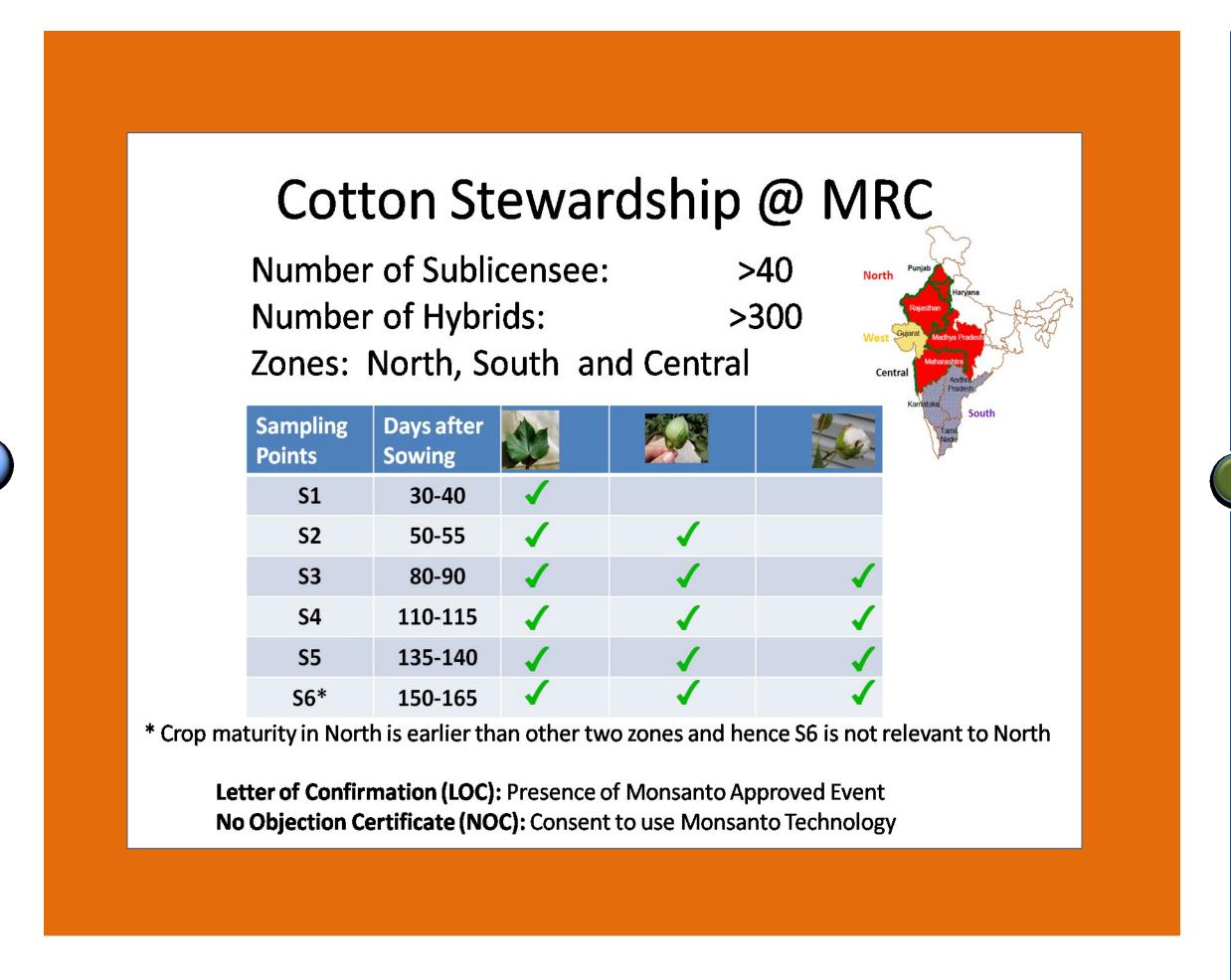
PONNUSAMY, THILLAICHIDAMBA; NAVEEN, SILVESTER; LIU, FENGLONG

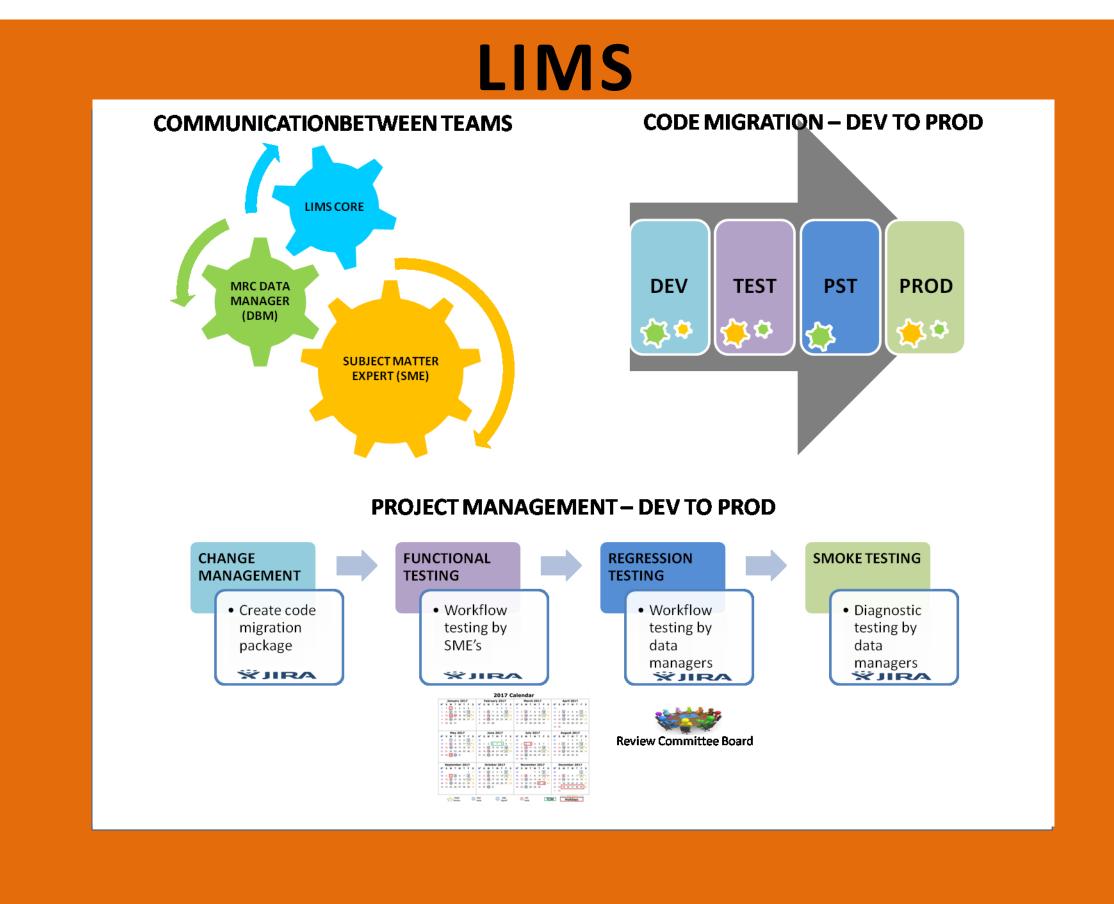
ABSTRACT

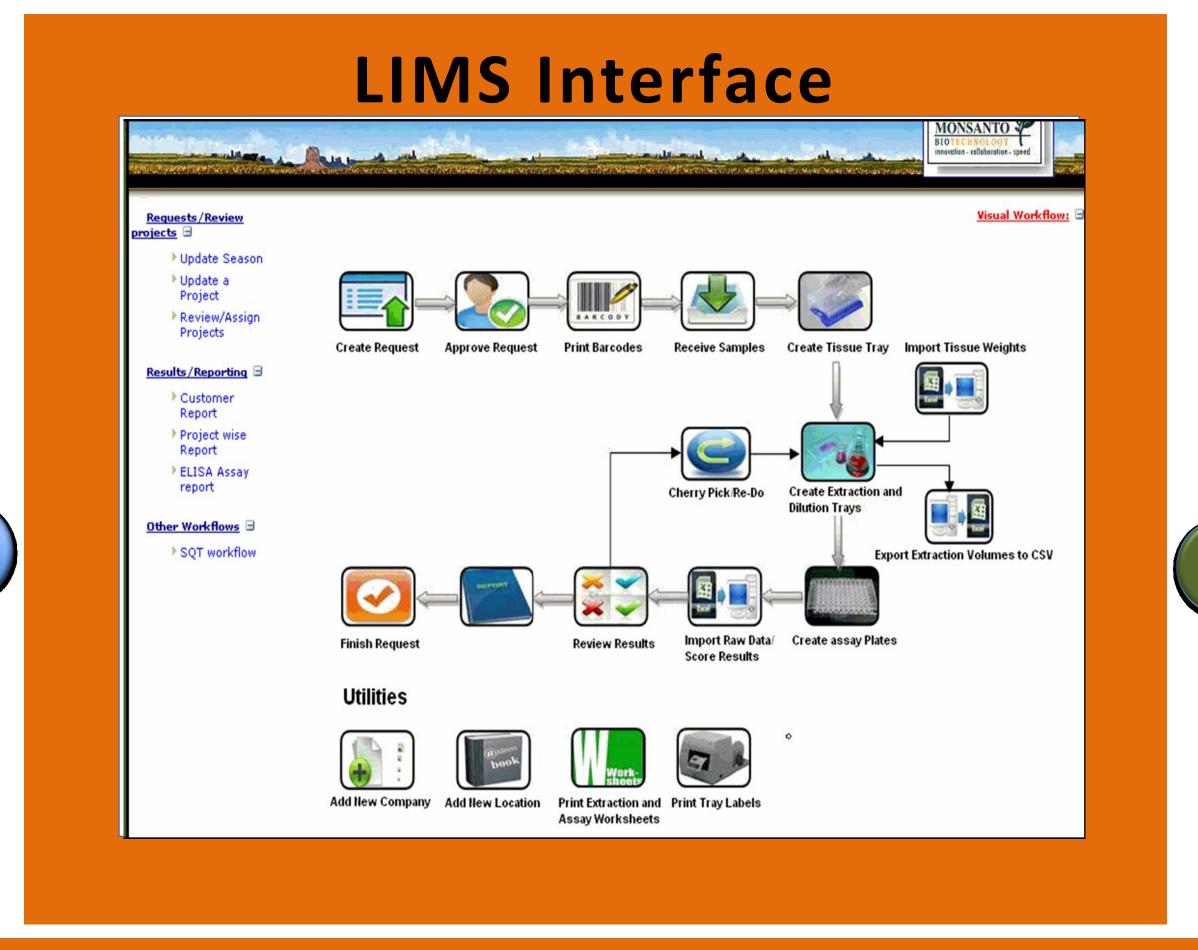
Bollgard Technology in India is sub-licensed to 44 seed companies through technology partner Mahyco Monsanto Biotech (MMB). Entomology Stewardship and Molecular Breeding team tests the new hybrids developed by sub-licences for season long protein expression analysis, event ID confirmation and insect bioefficacy to enable regulatory approvals for commercial launch. To effectively manage, track the hybrid samples and ensure seamless documentation of associated data, team adopted an enterprise level database: Laboratory Information Management System (LIMS) under Product development and stewardship (PDS) workflow. Team is constantly involved in implementing enhancements in existing PDS workflows to improve lab productivity. Additionally new workflows are being developed to capture pre-launch data generated under contained facility and open field regulatory trials for BGIII. Implementation of LIMS has enabled automation of workflows, barcode handling, integration of instruments, electronic data exchange, and management of samples and associated information. Additionally, LIMS enables audit management and chain of custody, compliance (ISO and regulatory compliance) and document management



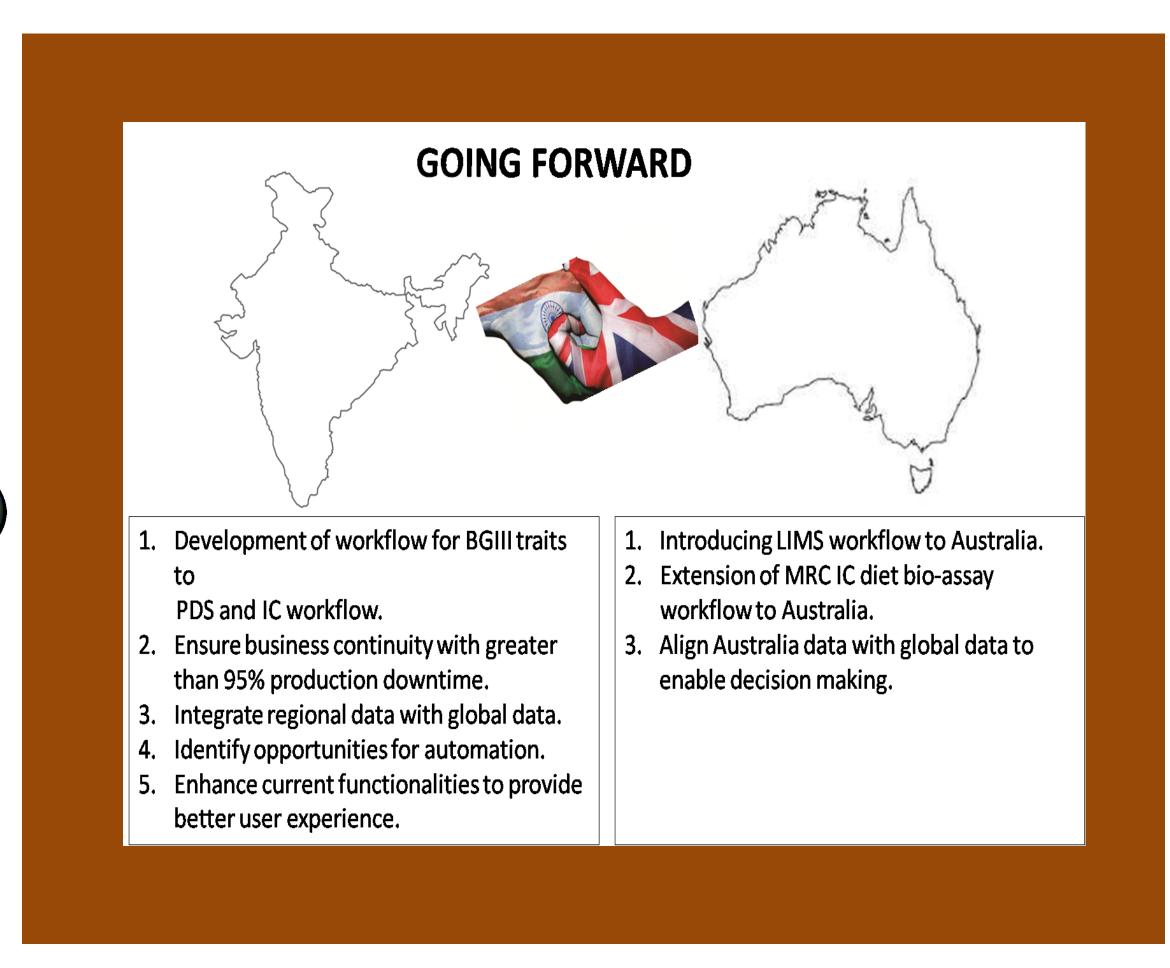














Acknowledgement: Core LIMS Team & E.S.M.B.T. Team