

GIPSA Biotechnology Lab Update



Dr. Tandace Bell

Biotechnology and Analytical Services Branch

Grain Advisory Committee

April 7, 2015



United States Department of Agriculture

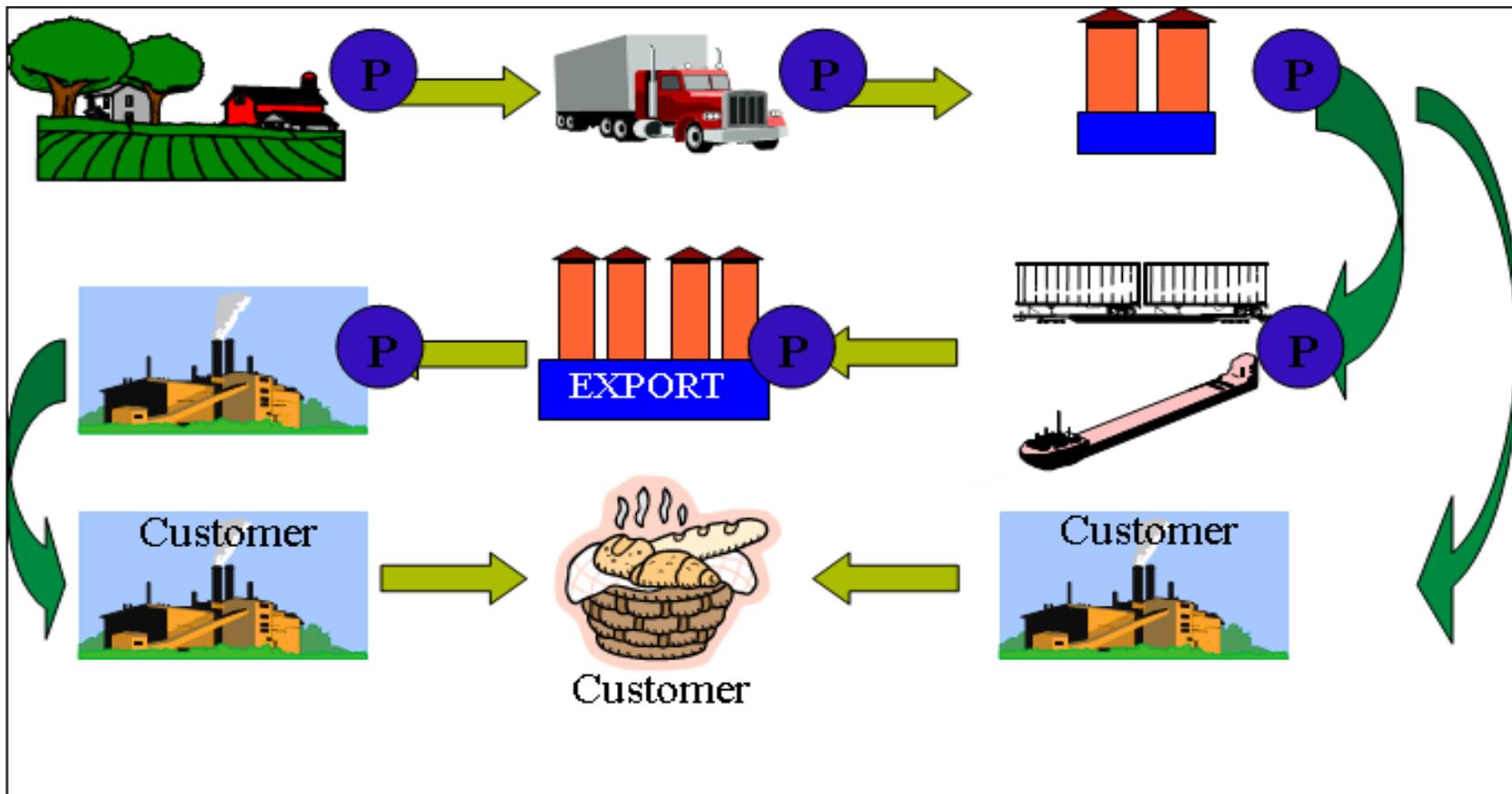
Update on Biotechnology Lab Activities



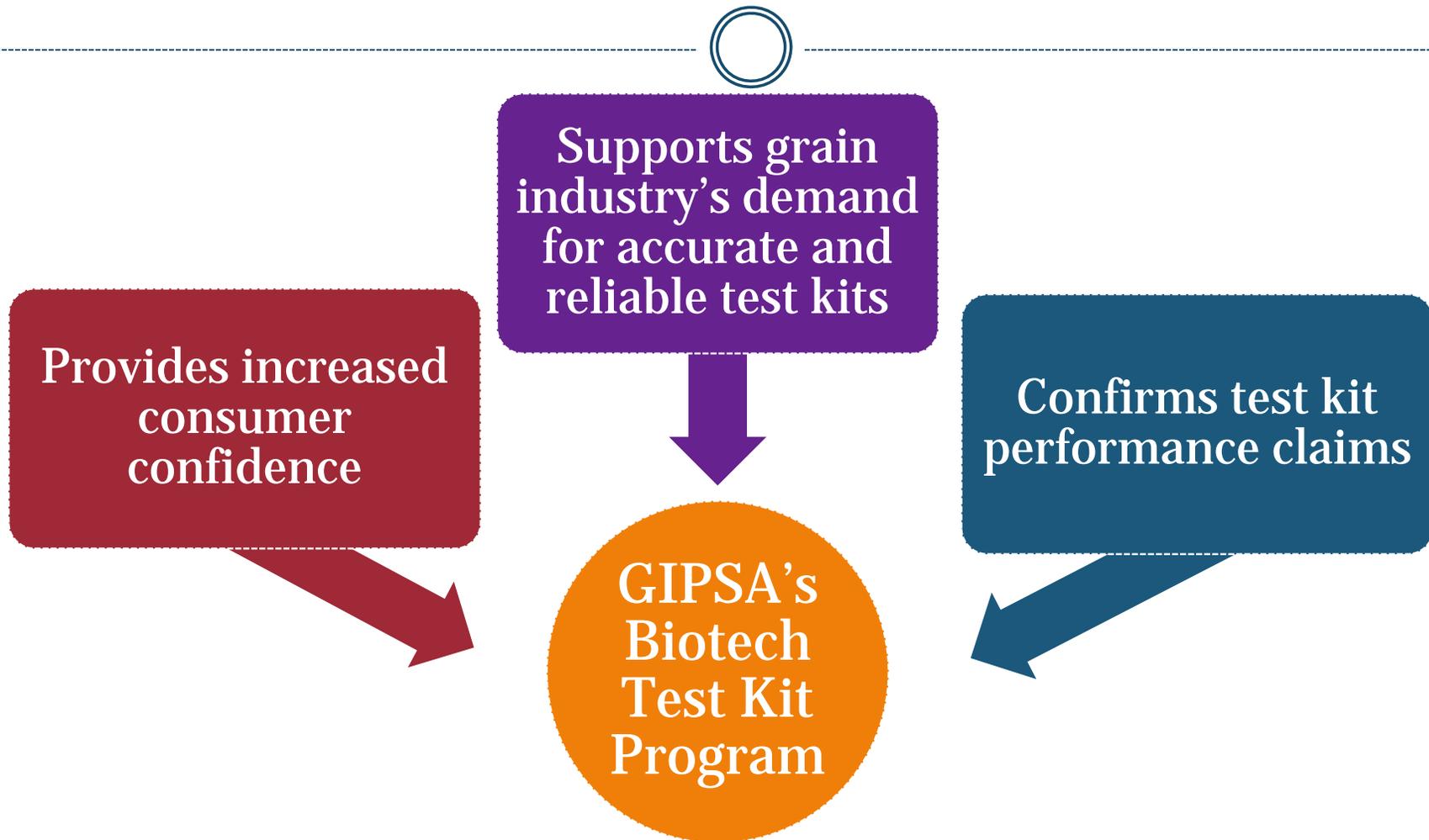
- **Development of Quantitative Rapid Test Kit Program for the detection of GE grains**



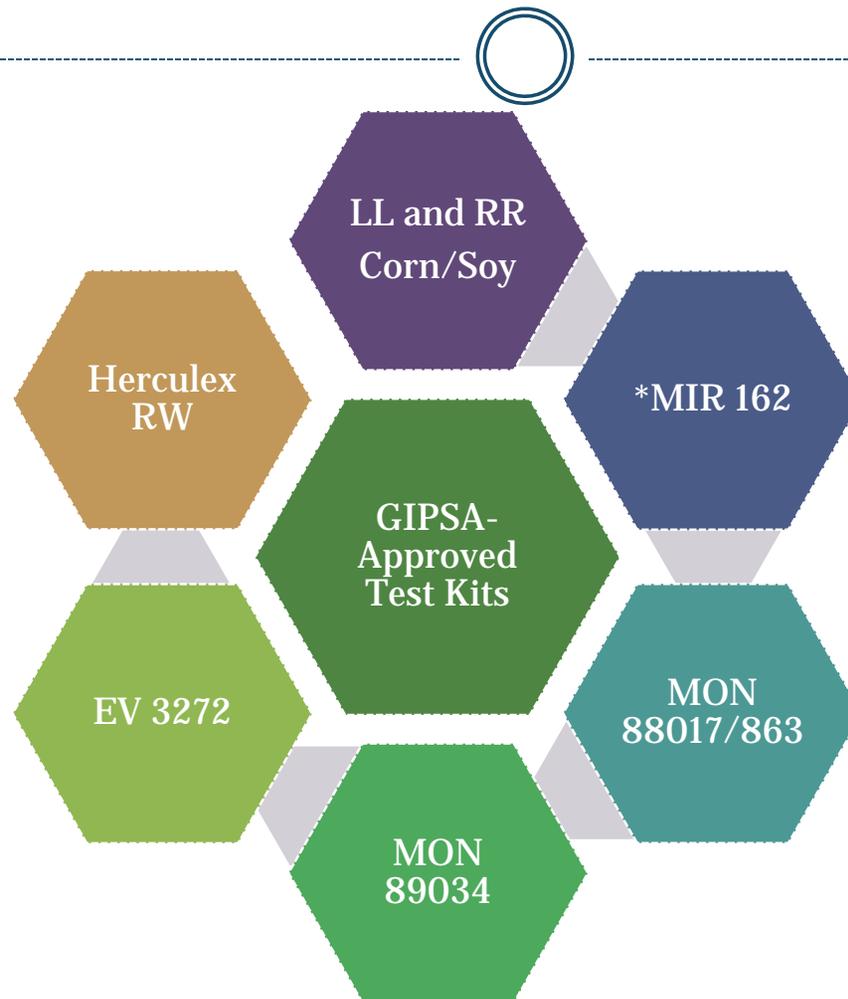
GE Testing Throughout the Grain Handling System



GIPSA's Biotech Rapid Test Kit Verification Program



Current GIPSA-Approved Rapid Test Kits



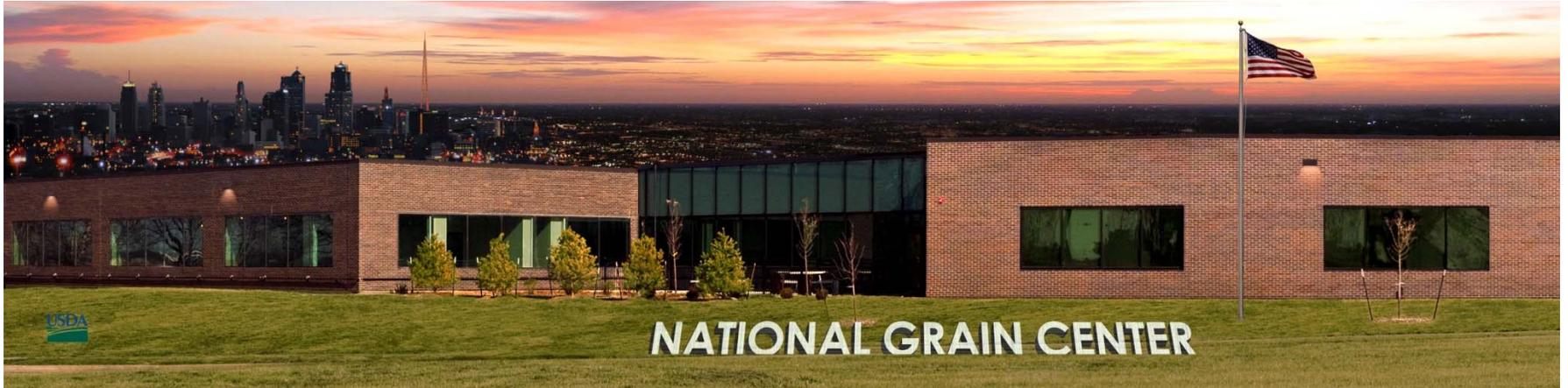
Development of Quantitative GE Rapid Test Kit Requirements



- ✓ Completed first round of testing using quantitative lateral flow strips (LFS)
- ✓ Completed first round of comparison of protein-based method (LFS) to DNA-based method (PCR)
- ✓ Performed preliminary particle size analysis
- Using data from preliminary test results to develop precision and accuracy requirements for test kits against reference standards



Thank you!



United States Department of Agriculture