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REDESIGNING FIELD DATA COLLECTION TO IMPROVE SEED PRODUCTION EFFICIENCY

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REDESIGNING FIELD DATA COLLECTION TO IMPROVE SEED PRODUCTION EFFICIENCY

by

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A creative component submitted to the graduate faculty
in partial fulfillment of the requirements for the degree of
MASTER OF SCIENCE

Major: Seed Technology and Business

Program of Study Committee:
Dr. Gary Munkvold, Major Professor
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Abstract

In the seed industry there is no shortage of data and ever-changing information. In order to keep up with the fast-paced needs of the industry, it is important to have a system that accommodates customization of data management. There are a many choices for data collection systems. Many of the systems are geared for producers rather than seed companies. In 2014 I was given the project of taking a system from AgTerra Technologies that we were using to track harvest data from the field and transfer the information to the plant. Because the data collection system was customizable to our needs, it was a great fit to roll into the field as well.

AgTerra is a technology company that is providing real time (RT) data answers for the agricultural industry. Taking the needs from Syngenta and collaborating with AgTerra to develop a program that can be used to capture field data in real time. There will be a budget for a project to create an app, website, Worker Protection Forms and describe the process that it took to get it in the hands of the users. The objectives of this project for improving data collection were to speed up the transfer of information from the field to management, improve seed quality, safety of the agronomists and field workers, and reduce the time for data entry.