

8. SUMMARY

Market data was researched on major technological solutions and has a wide variety of responses and reasoning. Overall the market appears to be searching for the best technology to provide economies of scale solutions to the market for cost effective reason. The author tried to reason one of the newer technologies and its possible advantages, but its possible the scope was too wide to get a perfect overview on exactly why that technology or concept could win over others.

The benchmarking compared all solutions trying to tackle the automated herbicidal replacement issue and their strengths and weaknesses. Extracting an idea of what would likely succeed on an economies of scale level allowed the author to start with a concept generation. Comparing what was useful made concept generation stage very simple when considering dozens of options and endless amounts of configurations. This allowed me to prototype the simple ideas on a small scale.

Constructing a model was a very pleasant experience that led to so many factors and choices, that it was a seemingly endless self-criticism about what was valued verse what was traded off in the long run. This brought forward modelling yield strength on fixed models that was very educational and interesting as you can use these models to re-evaluate design choices previously made in the prototyping stage. This was an interesting experience cost, processing, weight and effectiveness can be rapidly tested in real time, re-evaluated and tested again.

Diving into cross computer communication on different languages was interesting due to the scalability of how many devices could theoretically be in communication over basic serial communication simultaneously. The dive into python and C was interesting, even if there are regrets of not going far enough into this section.

Overall this was a wide and challenging project that offered many learning opportunity and too many endless directions.