ADVANCED PRECISION AGRICULTURE

The future of precision Agriculture

I. ABSTRACT

Agriculture has come a long way in the past centuries. Currently the advancement in technology has merged up with the agricultural best practices to create Precision Agriculture, the amount of technology being on the farms is at its best. With Precision Agriculture, farmers can now be able to boost their production while lowering cost. Advanced Precision Agriculture.

Advanced Precision Agriculture seeks to take Agriculture beyond its boundaries. It uses a sustainable system of fully autonomous farm machines that can be able to support themselves with very minimal human interference, production is monitored right to the seed level, i.e. each corn in the field is mapped to a computer according to its precise location in the field when planting then when harvesting, data about the seed is also harvested (crop height, number of cobbs, and average weight of the grains). This creates a super huge data to be used for decision making in the next crop year. While the crop grows in the fields, computer monitors their progress considering farm conditions such climate. The computer simulates the growth too to see how much the crop in the field is deviating from the normal. All these data makes decision making more precise and advanced.

The agricultural world, despite challenges, is heading towards Advanced Precision Agriculture

II. IMAGE



Figure 1: Case IH Autonomous tractor concept

III. REFERENCES

1. Schieffer, J.; Dillon, C. (2015). "The economic and environmental impacts of precision agriculture and interactions with agro-environmental policy". *Precision Agriculture*. **16**: 46–61. doi:10.1007/s11119-014-9382-5.
2. *"The future of agriculture". The Economist. Retrieved 2019-05-19.*
3. CNH Industrial's Case IH Magnum, Autonomous Tractor

IV. BIOGRAPHY

Basil Keter has a BSc Informatics (2015) from Moi University. Born and brought up in a farming background, Basil has been exposed to agricultural practices and processes. Basil has a passion in operating farm machinery. Having worked for Monsanto, he was able to build more knowledge in Precision Agriculture and crop. Currently Basil is in USA undergoing practical training in agriculture.

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