IoT-based Precision Agriculture

What’s in it for you...
A solution that transforms tractors, planters, distributors, and sprayers into collectors of field data, which would be sent in real time to rural producers.
1. Agricultural machines are equipped with sensors
2. These send data to the HANA Cloud Platform
3. The development enables farmers to analyze and monitor this data

It allows farmers to monitor in real time data such as the amount of seed planted and volume of fertilizer used. Farmers will have data telling them how fast processes are carried out and what areas have been planted, which helps avoid overlapping. They will know the exact performance of operators and their machines as well as performance per plot (area sown to crops). The data can give them better control of costs and purchases.

Imagine to...
provide a tractor capable of transforming field data into information relevant to the farmer:

- Real-time monitoring of vital farm processes
- Tracking of work targets as defined in the crop planning process
- Better management of farm and planted areas

With this development, farmers have greater control over their operations as well as their impact on the results and which resources are being used effectively. This helps avoid waste.

The solutions that enable this innovation:
- Agricultural machinery equipped with sensors
- Integrate with SAP HANA Cloud Platform as an IoT platform
- Transfer data about planting, soil preparation, fertilizing, soil correction, spraying, and harvesting in real time
- Integrate data with the farm management software to enable real-time analysis
- Integrate with end customers’ SAP ERP to trigger business processes like procurement

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