



Proposal for Native natural farming practice enhancement | Sweet potato, Native Potato, Carrot, And beetroot cultivation.



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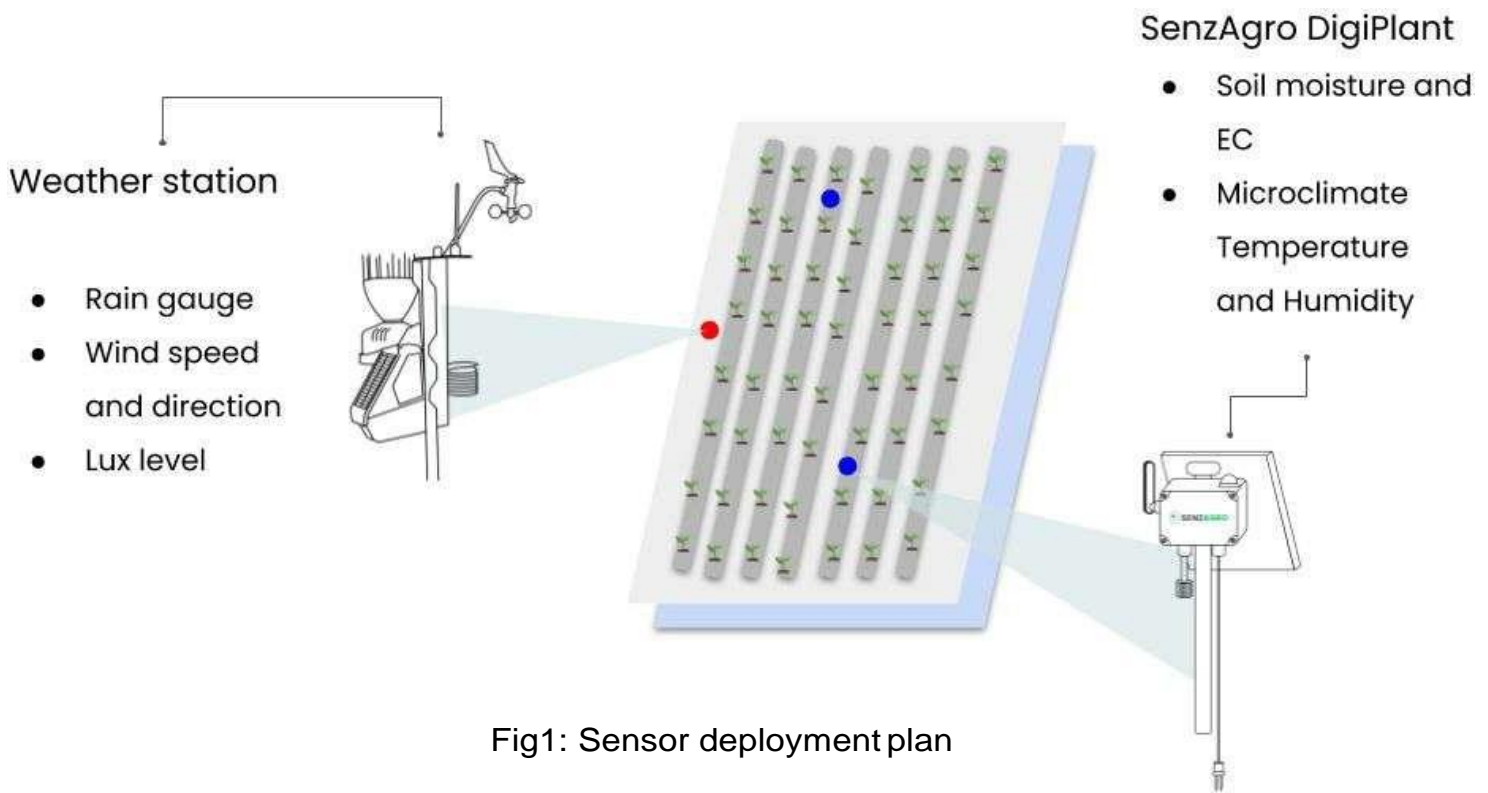
Background

About AgriTechs

AgriTechs is an innovative advanced agritech company that develops and supplies specialized hardware, software, and online advisory services to arable farms and agribusinesses around the world. By combining sensor technology, the internet, and scientific knowledge, growers can continuously monitor and fine-tune their production process throughout the growing season. The agribusiness can continuously anticipate and optimize raw material supply through the consultation of field data and smart modules. This results in the maximum yield achievable through the economically sound and responsible use of agri inputs like chemicals, water, and nutrients.

This use case adopts a holistic approach based on research, which employs a network of telemetric IoT stations, installed in-ground tuber varieties, to automatically collect atmospheric and soil data combined with the agriculture practices data provided by the potato producers, to provide them with valuable information insights to increase their irrigation & fertigation efficiency as well as improve the quality of potato and its harvest yield.

Hence, the research study conducted with native tribal farmers of **Kiwa Natural Life, Ecuador**

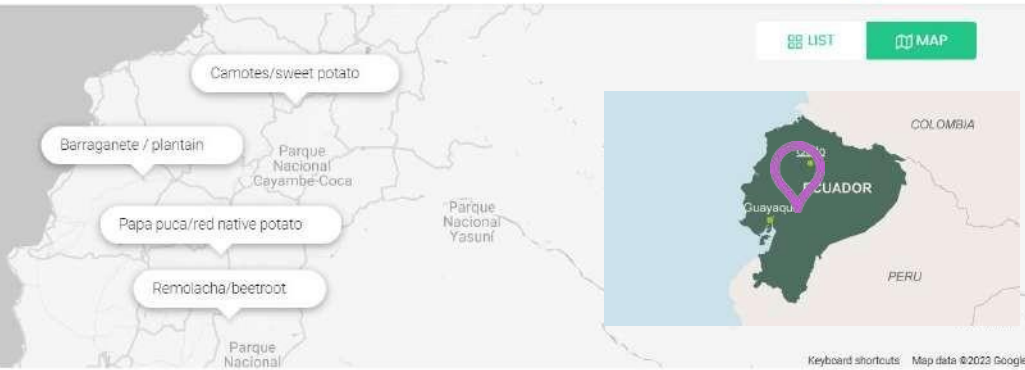


The solution provides farmers with **accurate planting, fertilizer, irrigation, protection, and harvesting guidance via a user-friendly application that uses data from in-field soil sensors and weather stations, combined with local weather forecasts and aggregated, regional multi-year agronomy datasets.** The sensors automatically record soil moisture and temperature on a 24/7 basis. Wind speed, direction, temperature, humidity, rain, and sunlight levels are also captured across the farm. This is supplemented by visual inspections and reports by the farmers on crop growth rates and signs of insects and disease.

The real-time data from the sensors and weather stations is automatically collected via the mobile network and compared to growth, fertilizer, pesticide, and water absorption models for the region to deliver advice on the ideal spraying time and dosage levels that reflect highly localized needs. This avoids the wastage that occurs when chemicals are applied too late or early in the crop or larvae growth cycle or are affected by wind drift or rainfall wash-off.

Search

LIST MAP



Barraganete / plantain
Ecuador

Source	Irrigation Mode	Power Status
TANK	SCHEDULE	N/A

Remolacha/beetroot
Ecuador

Source	Irrigation Mode	Power Status
NA	NA	OFF

Camotes/sweet potato
Ecuador

Source	Irrigation Mode	Power Status
NA	NA	OFF

Papa puca/red native potato
Ecuador

Source	Irrigation Mode	Power Status
NA	MANUAL	OFF



RESULTS


As per the client's expectations, AgriTechs ' system allowed the farmers to have a more positive impression of agrotech. As a result of the training program, the crops were provided with a better growing environment, which resulted in a greater quantity of higher-quality output within the five pilot farms. Seeing the multiple benefits that would have taken ages to achieve via traditional methods being achieved in a short period of time with less effort and wastage, the farmers were keen on engaging with the system daily. As the results of the training had far exceeded expectations, the client was eager to expand it to include other farmers in the program as well. If all goes well, they will continue to utilize AgriTechs 's smart farming system beyond training as well.




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 Nature Techs Ltd.
20-22 Wenlock Road,
London, United Kingdom N1 7GU.

 info@agritechs.co.uk

 +44 (0) 777 861 4559

 www.agritechs.co.uk

 : [company/agritechs-uk](https://www.linkedin.com/company/agritechs-uk)

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