
CultivData: Application of IoT to the Cultivation of Agricultural Data

CultivData proposes the convergence of technologies, such as IoT, big data, HPC, open data and artificial intelligence, to apply HPDA (High Performance Data Analytics) to the cultivation of agricultural data and improve the efficiency and effectiveness of farms. An information system has been developed as an IT platform for the cultivation of open data to extract knowledge and to support the decision making of stakeholders in the agricultural sector, so that it is possible to improve product quality and farm productivity. The resulting system integrates access to data provided by IoT devices that sensorize farms and public and open data sources (Open Data). The platform was designed to make precision agriculture a reality and to be useful not only to farmers, but also to agricultural decision-makers who plan species and crops based on data such as available water; expected weather; prices and market demands, and so forth. In addition, the platform provides to agricultural producers access to historical climate data; climate forecasts to anticipate times of drought or disasters; pest situations or monitoring of their plantations with sensorization and orthophotographs

Fuente de la publicación:

- F. Lemus-Prieto, J. F. Bermejo Martín, J.-L. Gónzalez-Sánchez, and E. Moreno Sánchez, "CultivData: Application of IoT to the Cultivation of Agricultural Data," IoT, vol. 2, no. 4, pp. 564-589, Sep. 2021, doi: [10.3390/iot2040029](https://doi.org/10.3390/iot2040029) [1].

Proyectos relacionados:

- CultivData [[Cénits](https://web.computaex.es/en/enlaces/publicaciones/cultivdata-application-iot-cultivation-agricultural-data) [2]].

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Links

[1] <https://doi.org/10.3390/iot2040029> [2] <http://www.cenits.es/proyectos/cultivdata>