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BRIEF BACKGROUND

Irrigation Advisory System for Rice (AutoMonPH) is an Internet-of-Things (IoT)-based decision support tool that provides a platform of information sharing for efficient water management; real-time monitoring and reporting; verification of water management practices; multi-stakeholder interaction; and reduction of transaction times and cost of effective coordination amongst stakeholders.

The IP was an output of the collaborative project between IRRI, DA-BAR (Department of Agriculture, Bureau of Agriculture Research, The Philippines), and PhilRice (Philippine Rice Research Institute) for the project 'water efficient and risk mitigation technologies for enhancing rice production in irrigated and rainfed conditions (WateRice).

The IP Application was made: 1) as an output of the institute, project partners, and funding agency before engaging with third party entities for potential prototyping and commercialization, and 2) the capacity of the institute on IoT hardware development and manufacturing is limited to prototyping. To realize impact over a larger scale, collaboration with third party manufacturers is of utmost importance.

The application of the asset is aligned with IRRI's and CGIAR's mission in achieving food security, being stewards of a healthier planet, and climate adaptation and mitigation, through application of sustainable water management solutions. The technology impacts improving water governance over field and landscape production areas, addressing equitable irrigation and reduction of carbon emissions.

The promotion of the innovation will be through its inclusion in knowledge materials (i.e. Learning modules, Knowledge Bank, etc.), demonstrations/field days, digital spaces via social media, and will be part in recommendations for future collaborations addressing irrigation use and as a greenhouse gas monitoring, reporting, and verification (MRV) tool.

Wherever applicable, the Center will establish partnerships with local and international third party service providers for prototyping and commercialization. These organizations will address meeting the demand for the technology.

CURRENT STATUS

The application has been filed with the Intellectual Property Office of the Philippines last November 8, 2023.

As a non-profit international organization, IRRI promotes responsible technology transfer and intellectual property management in accordance with its Intellectual Property and Commercialization Policy (IP&C Policy) and with the CGIAR Principles on the Management of Intellectual Assets ("CGIAR Principles"). This patent application conforms with the IA Principles concerning intellectual property applications in furtherance of the CGIAR Vision.