#592 Summary

## SUBMISSION

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A Biodiversity Platform for Weed Identification and Knowledge System in the Western Indian Ocean

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TITLE AND ABSTRACT
Title A Biodiversity Platform for Weed Identification and Knowledge System in the Western Indian Ocean
Abstract Biodiversity information on weeds, covering species descriptions and distribution are essential for understanding the dynamics of weeds and their management. WIKWIO (Weed Identification and Knowledge in the Western Indian Ocean), a European ACP S&T II funded project, is focused on the Western Indian Ocean region to develop species information systems on weeds for food and cash crops. It aims to build a Science & Technology network comprising of experts to farmers. As a part of the project a generic species identification system is being developed based upon characters of species and values of these characters. The IDAO species identification system is generic and has been used for the evergreen trees of the Western Ghats, weeds and invasive plants in several countries in Africa and Asia. The IDAO system developed by CIRAD and the French Institute of Pondicherry, takes in a spreadsheet characters and character states along with an iconic representation of the character state. Each species is associated with a set of different character states. This table is an input to the IDAO algorithm that is used to build an identification system. The
identification system is unique in that it does not use dichotomous keys typically used by taxonomists. It uses a set of characters and builds the identification system through probabilistic model to narrow and filter the set of species. The characters themselves are more intuitive and non-technical and can be used by stakeholders for field identification.

The IDAO system is integrated with the Wikwio portal. The characters are associated with species fields and the universe of character states are available to every species page and represented as icons. The user is able to “build the species” by choosing characters, giving probabilities to the species to correspond to the description. This also helps structure species pages and helps build a vocabulary for species descriptions.

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