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## #592 Summary

**SUMMARY**    [REVIEW](#)

### SUBMISSION

Authors	Balasubramanian Dhandapani, Pierre GRARD, Thomas Le Bourgeois, Ramesh Ranganna Brahmasamudra	
Title	A Biodiversity Platform for Weed Identification and Knowledge System in the Western Indian Ocean	
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Submitter	Balasubramanian Dhandapani	
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Director	None assigned	

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[EDIT METADATA](#)

### AUTHORS

Name	Balasubramanian Dhandapani
URL	<a href="http://www.ifpindia.org">http://www.ifpindia.org</a>
Affiliation	French Institute of Pondicherry
Country	India

Bio statement —  
Principal contact for editorial correspondence.

Name Pierre GRARD   
URL <http://www.ifpindia.org>  
Affiliation French Institute of Pondicherry  
CIRAD, France

Country India  
Bio statement Director

Name Thomas Le Bourgeois   
URL <http://www.cirad.fr>  
Affiliation CIRAD  
Country France

Bio statement —

Name Ramesh Ranganna Brahmasamudra   
URL <http://www.ifpindia.org>  
Affiliation French Institute of Pondicherry  
Country India

Bio statement —

### 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.

## INDEXING

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## SUPPORTING AGENCIES

Agencies European Commission's ACP S&T II Programme,  
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- Comoros



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