4. Pl@ntNet

Interactive plant identification and collaborative information system

The identity, geographical distribution and uses of plants are essential knowledge for the development of agriculture and the management of biodiversity. This basic information is not easily accessible to concerned professionals, teachers, researchers or citizens.

OBJECTIFS

Its main objective is to create an IT platform to facilitate the acquisition and collaborative exploitation of data on the plant world.
The consortium aims to develop cutting-edge research at the frontier between information and communication technologies and botanical sciences, based on the use of large datasets, knowledge and expertise in plant diversity.
To provide, through a web platform, open source software and innovative methods dedicated to plant identification and botanical data management.

ACTIONS

- The implementation of a generic and collaborative information system, open to all actors from the professional, scientific and amateur sectors.
- The development of new automated plant identification methods, based on visual recognition from images.
- Improving data management systems and adapting them to the needs of users and types of data.
- Dissemination of data via the web (IT developments).
- The development of a collaborative platform integrating a wide range of collaborative tools.

RESULTATS

- Free and open source software.
- Collaborations between all types of participants and stakeholders.
- Results of cutting-edge research in computer science applied to the field of biodiversity.
  This project has led to the development of other pilot projects:

- Pl@ntGrape and Pl@ntUse: focused on plant genetic resources and their uses
- Pl@ntInvasion, Pl@ntInvasive-Kruger, Pl@ntRiceWeeds, dedicated to the study of invasive species
- Pl@ntGhats, Pl@ntTree and Pl@ntWood, contribute to the analysis of tropical tree diversity.
- Pl@ntMedit: focused on Mediterranean flora.

PERSPECTIVES

A free application available on GooglePlay and the AppStore that allows everyone to identify plants from your photos.
This tool is adaptable to other flora. It is currently being evaluated on the flora of Reunion Island and can potentially concern any type of plant.

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