

■ **TELA BOTANICA**

■ **The network of french speaking botanists**



**A network for botanists to promote the exchange of information
and to animate projects through new communication
technologies**

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CHANIA, CRETE, GREECE | 27 SEPTEMBER - 1 OCTOBER 2021

Plant Conservation Strategies: from Science to Practice

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Who are we ?

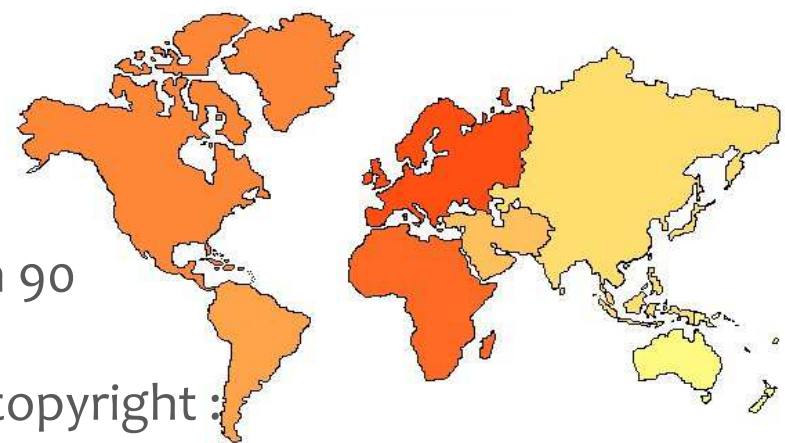


TELA BOTANICA

The network of french speaking botanists

Tela Botanica : the network

- mostly french speaking botanists (110 countries)
- a network of people (57 000 registered)
- free registration (no fee)
- Only Internet activities
- we believe in collective intelligence
- our projects are self-organized (more than 90 projects)
- open data (publications and data are not copyright : Creative Commons licences)



Cliquez sur une zone de la carte pour zoomer.
La couleur est proportionnelle au nombre d'inscrits.

A non profit organization created in 1999

- a board (9 persons)
- a scientific council (25 persons)
- a team (12 employees)

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Members registered

110 countries

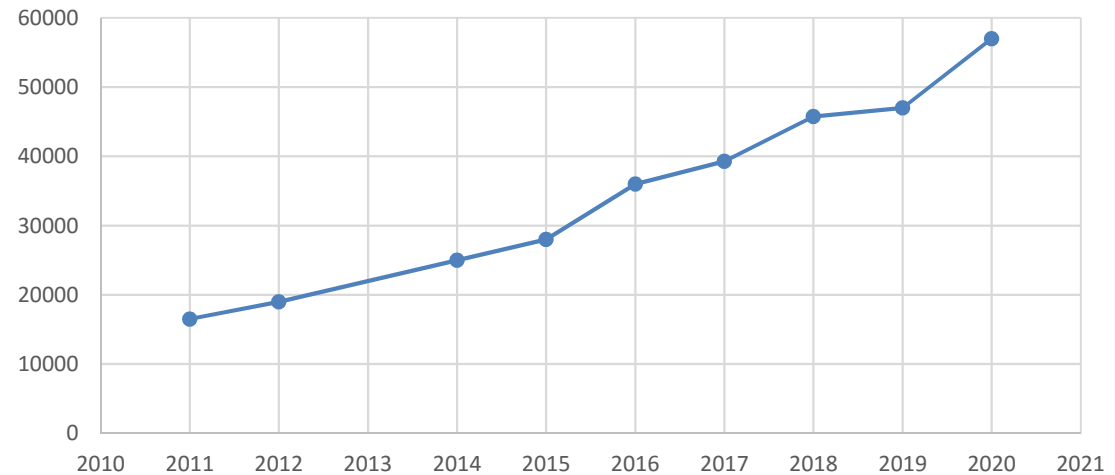
World : 57 000

France : 46 911

Greece : 24

(before the symposium!)

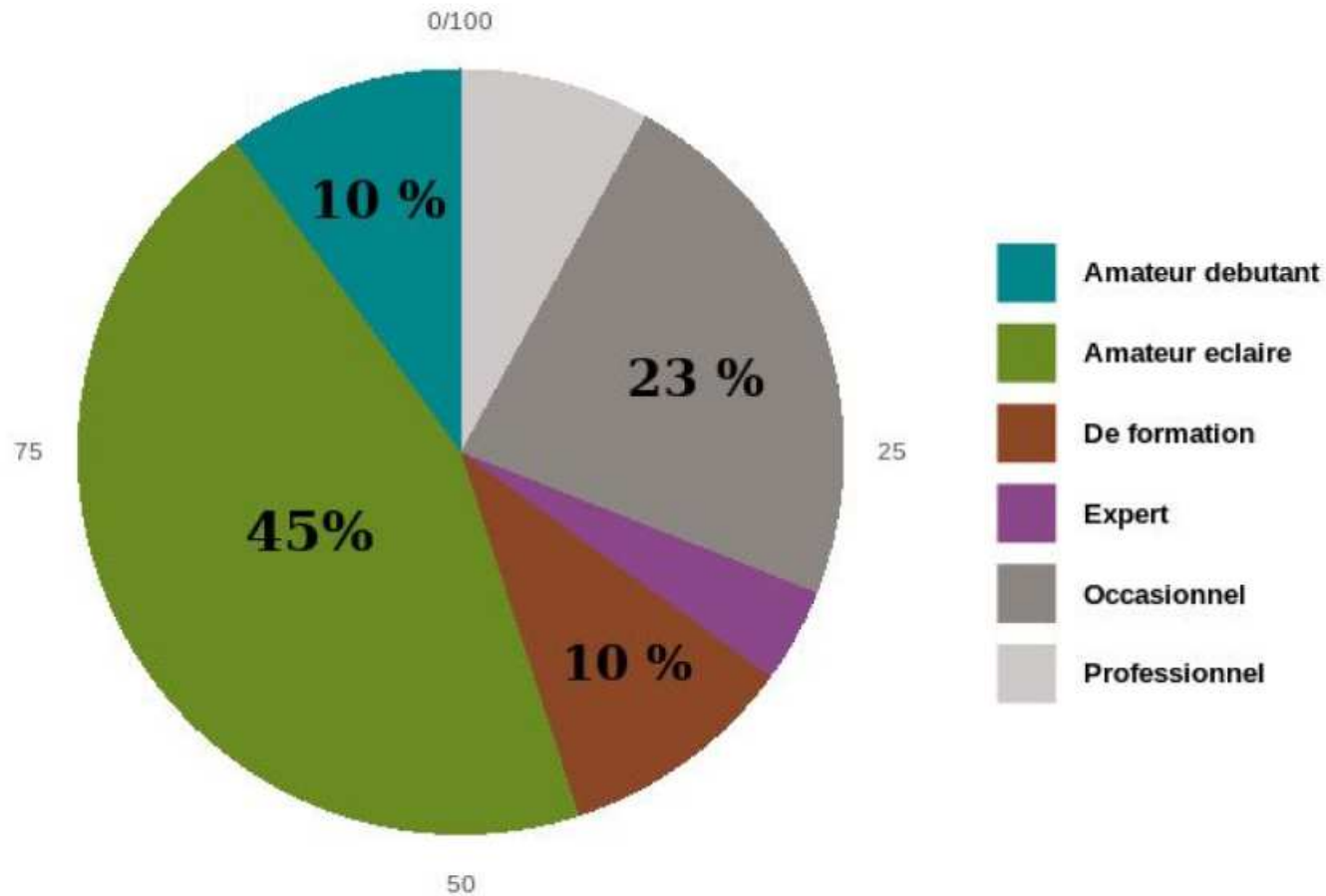
Evolutio of members of the Tela Botanica network



Steadily increasing !

Members

- Researchers and teachers
- Students
- Environmentalists
- amateur botanists



About 70% of beginners and 30 % of professional and experts (survey conducted in 2019 among members of Tela Botanica – 2263 of which have answered)

Aims



Group french speaking botanists
(forum, newsletter...)



Promote collaborative projects with professionals and citizens
(taxonomy, phytosociology, botany...)



Collect and diffuse data and information
(on line notebook, eFlora...)



Make aware, inform and teach
(teaching tools, MOOC's...)

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ACTUALITÉS FLORES VÉGÉTATIONS OUTILS PROJETS RESSOURCES QUI SOMMES-NOUS ?

Christophe G... Faites un don!

Identifier une plante Apprendre la botanique Aller sur le terrain Comment participer ?

Bienvenue Christophe Girod !
Accéder à votre espace personnel

Rechercher une plante, un projet, un mot clé...

Par exemple : coquelicot, quercus ilex, végétation, mooc...

56 938 TELABOTANISTES

974 955 OBSERVATIONS

27 FAÇONS DE PARTICIPER

À LA UNE

Participez au Défi photo : « Au cœur des forêts »

LES DERNIÈRES ACTUS

Vu sur la toile #130
Découvrez les articles, vidéos et podcasts qui ont attiré notre attention ces dernières semaines. À la une cette...
il y a 3 heures

A web site : www.tela-botanica.org

Unfortunately, not yet translated in English (volunteers needed!)

The web site : 450 000 visits per month www.tela-botanica.org

Weekly newsletter : 40 000 subscribers

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What we do



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Helping identifying plants



IdentiPlante and Pl@ntnet Identify (as a partner)
=> collaborative tools for identifying plants

IdentiPlante

- ↳ Cet espace vous permet d'échanger sur la détermination d'espèces.
- ↳ Vous ne parvenez pas à déterminer une plante ? Soumettez-la aux membres du réseau.
- ↳ Vous avez relevé des erreurs dans les images soumises par le réseau ? Postez un commentaire ou proposez une nouvelle détermination.

Proposez une observation à déterminer

BIENVENUE

Christophe Girod
[Préférences](#)
[Se déconnecter](#)

[Partager cette page](#) [Aide](#)

IDENTIFIER UNE PLANTE

Recherchez par espèce, genre, famille, numéro ou nom de département, commune, auteur ou mot-clé.

[Recherche avancée](#)

Recherche libre: Colchicum cupanii

TOUT
A déterminer
A confirmer
Vérifiées

7 résultats | Page 1 sur 1 | Afficher 12 éléments par page | Tri: Date d'observation | Date de publication | Nombre de commentaires

Colchicum cupanii Guss.

Observée le 10/11/2019

Référentiel isfan
Pays
Lieu du relevé
Al Matline
Forêt de Remel
bord de la piste
Commentaire
Localisation approximative Phénologie : 60-69

par Patrick Leboulenger
Publiée le 12/01/2020

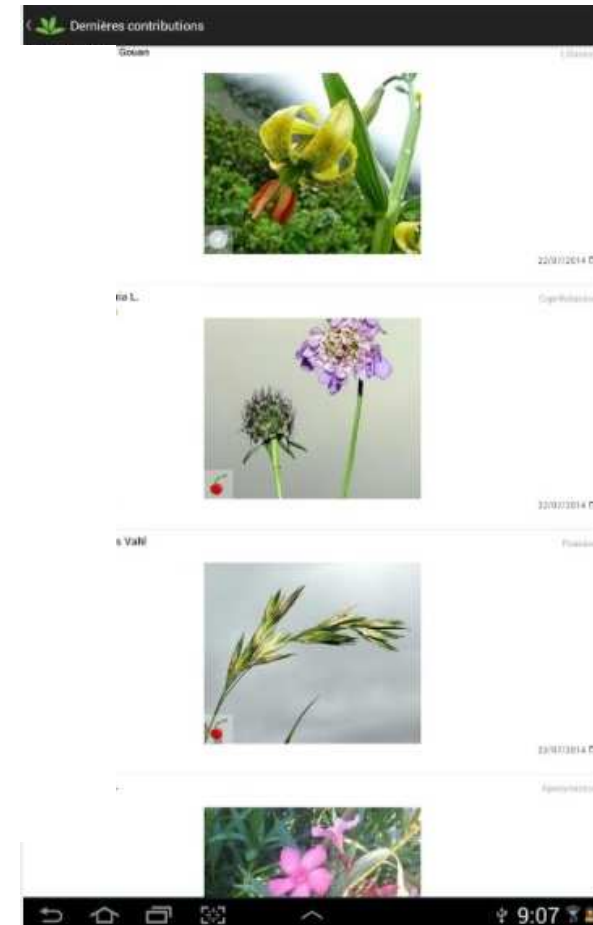
Propositions des membres du réseau

Score Espèces proposées

0 Colchicum cupanii Guss.

Proposer une détermination
Ajouter un commentaire
Voir tous les commentaires (0)

Pl@ntnet Mobile



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Share and disseminate knowledge



eFlore a free collaborative encyclopedia

Smart' Flore : a mobile tool for general public

Faux Limonium nain
[Limonium pseudominutum](#) Erben
 PLUMBAGINACEAE

- Synthèse
- Description
- Illustrations
- Répartition
- Ethnobotanique
- Ecologie
- Nomenclature
- Bibliographie
- Statuts de protection

ACCUEIL > BDTFX > [Limonium pseudominutum](#) Erben

Description

Description de Coste

3042 *Statice minuta* L.

- Plante vivace de 3-15 cm, glabre et rude ou pubescente, à souche ligneuse-tortueuse, à divisions érigées couvertes de feuilles imbriquées, petites, oblongues-spatulées, obtuses ou rétuses-échancrées, uninerviées, à bords roulés
- hampes grêles, à rameaux inférieurs stériles peu nombreux et non en zigzag
- épillets à peine arqués, à 1-2 fleurs, en petites épis lâches rapprochés en corymbe
- bractées un peu lâches, l'extérieure 3 fois plus courte que l'intérieure
- calice à tube pubescent égalant le limbe à dents lancéolées-aiguës
- corolle violacée.

Écologie Rochers du littoral de la Provence : Bouches-du-Rhône, Var.

Répartition Espagne, Baléares.

Floraison Juin-août.

Voir +/- Compléter

Illustrations

Voir +/- Compléter

Répartition

Observations

Répartition départementale

Ecologie

caractéristiques climatiques :

Lumière	ombré	lumière
Humidité Atmosphérique	sec	humide
Température	froid	chaud

← Flore de France 🔍

Acer platanoides
Sapindaceae

Érable plane

USAGE ENVIRONNEMENTAL, MATERIAUX, MAUVAISE HERBE

Acer pseudoplatanus
Sapindaceae

Érable sycomore

USAGE ENVIRONNEMENTAL, RESSOURCE GENETIQUE,...

Acer rubrum
Sapindaceae

Érable argenté

USAGE ENVIRONNEMENTAL, MATERIAUX, USAGE MEDICINAL,...

Acer rufinerve
Sapindaceae

Érable rufinerve

7 334 espèces



QR-Code

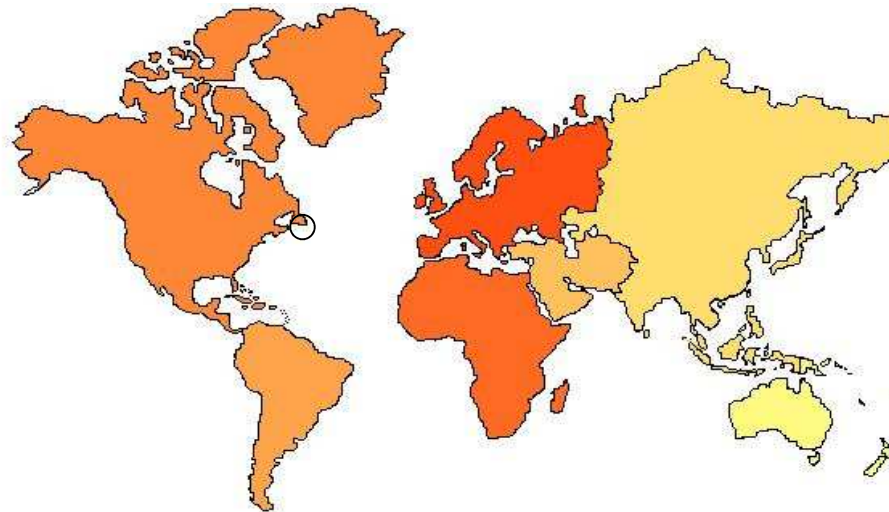
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Collaborative projects



Creating and updating the checklist (taxonomy and nomenclature) of French vascular flora

- Checking with **The Plant List** (Kew Gardens, UK)
- Working with Geneva for the **index of plants in Africa**
- Looking to expand the checklist to **integrate European database** (such as Euro+Med) and to help to develop such database where they do not exist



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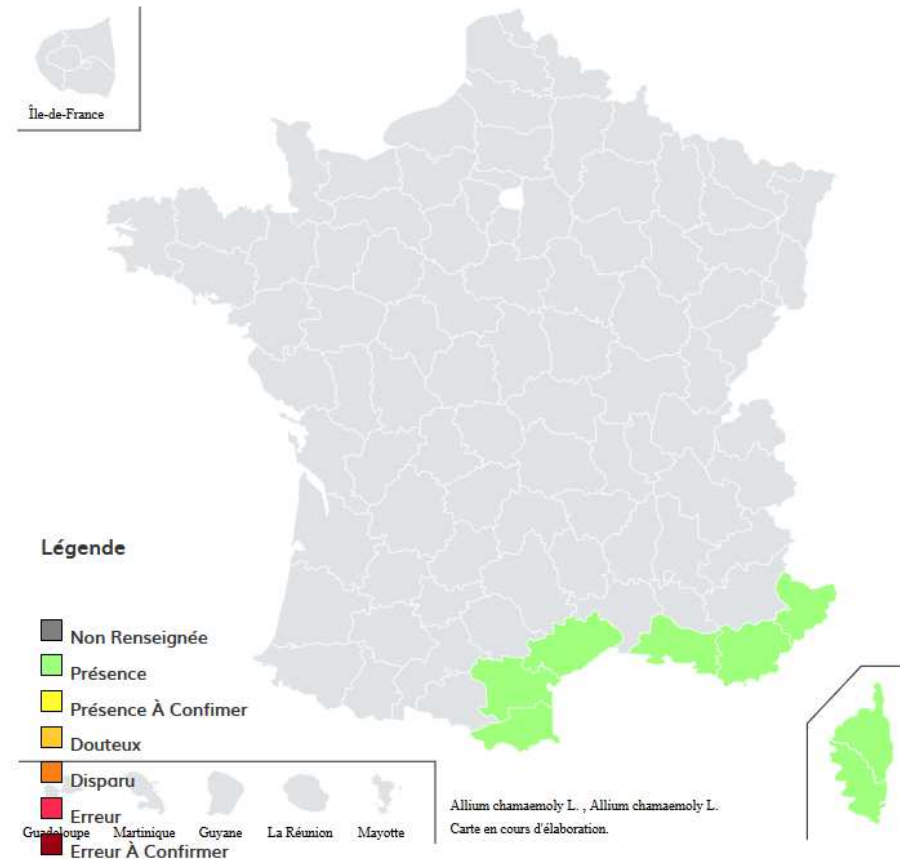
Collaborative projects



Plants distribution in France by departments

- >150 contributors
- >600 000 data collected
- Map on line
- Freely downloadable data and still ongoing work (on complicated genus, e.g. *Limonium*, *Alchemilla*, *Hieracium*,....)

Chorologie départementale



Julve, Ph. (coordonnateur) & contributeurs, 2018 ff. chorodep. Listes départementales des plantes de France. Version 2018.04 du 24 avril 2018. Programme chorologie départementale de Tela Botanica

The normalized French names of plants

- A **guide** to give a French name to all plants in France
- Standardized French names given for all plants (8 125) cited in recent Flora Gallica
- **Other common names 8 languages** (french, english, spanish, catalan, italian, german, dutch and greek)



Index of herbaria

- Index of **private and public herbaria** in french speaking countries
- **1 700 collections** listed in 255 institutions
- exchanging data with **GBIF** and **Index herbarium** of the New-York Botanical Garden



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The herbonauts website



Recruiting the general public to acquire the data from
herbarium labels (2012-2020)

<http://challengepost.com/software/lesherbonautes>



3rd MPCW– September 2021

Results

- >4 000 volunteers registered on the website
- >100 missions launched (= set of photo with a common theme)
- >450 000 images seen
- >5.5 million contributions

<http://lesherbonautes.mnhn.fr/>

End of the program for Tela Botanica in 2020

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Biodiversity in the city



« Wild plants from my street »

- Make people aware of nature
- Promote biodiversity in the cities
- Collecte data for reseachers



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Observatoire des Messicoles (ODM)



Segetal Flora

- Endangered and highly threatened species
- Identification Guide of Segetal Plants
- Identification of segetal plants growing in cultivated fields
- Interaction with pollinating insects studied towards collaboration with entomologists
- Collect data for researchers and animate community



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Collaborative projects



Ecology & phytosociology

- ecological data on plants
- princeps phytosociologic tables
- eVeg : a website dedicated to phytosociology for Europe
- We need a European taxonomic index

<http://evveg.fr/>

Nasturtio officinalis - Glycerietalia fluitantis Pignatti 1953
(cressonnières flottantes amphibies, européennes)

Synonymes
Aucun synonyme trouvé

Codification
Code CATMINAT : 04/1.0.1

Caractéristiques écologiques et dynamique

- Température : mésotherme à thermophile
- Lumière : héliophile à hémihéliophile
- Humidité édaphique : amphibie
- Humidité atmosphérique : humide
- Niveau trophique : eutrophile à oligotrophile
- pH : basophile à acidophile
- Exposition, pente : plat
- Dynamique : pionnier primaire

Illustration

Chorologie ?

Cortège floristique

- Epilobium roseum Schreb.
- Epilobium roseum Schreb. subsp. roseum
- Epilobium x abortivum Hausskn. [Epilobium lanceolatum Sebast. & Mauri subsp. lanceolatum x Epilobium roseum Schreb. subsp. roseum]
- Epilobium x borbasianum Hausskn. [Epilobium roseum Schreb. subsp. ...]

Ressources

Non disponible
 Non disponible

Références bibliographiques

- Pignatti, S., 1953. Introduzione allo studio fitosociologico della pianura veneta orientale con particolare riguardo alla vegetazione litoreana. Archivio Botanico, 29, 3 ser., 13(2) : 65-98.

Valences écologiques

	-	+
Lum.		
Temp.		
Hum. atm.		
Hum. éda.		
pH.		
Troph.		
Cont.		
Salin.		
M.O.		

Chorologie

- Mondiale : européen
- Nationale : Toute la France des plaines
- Altitudinale : planitiaire

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Collect and share data



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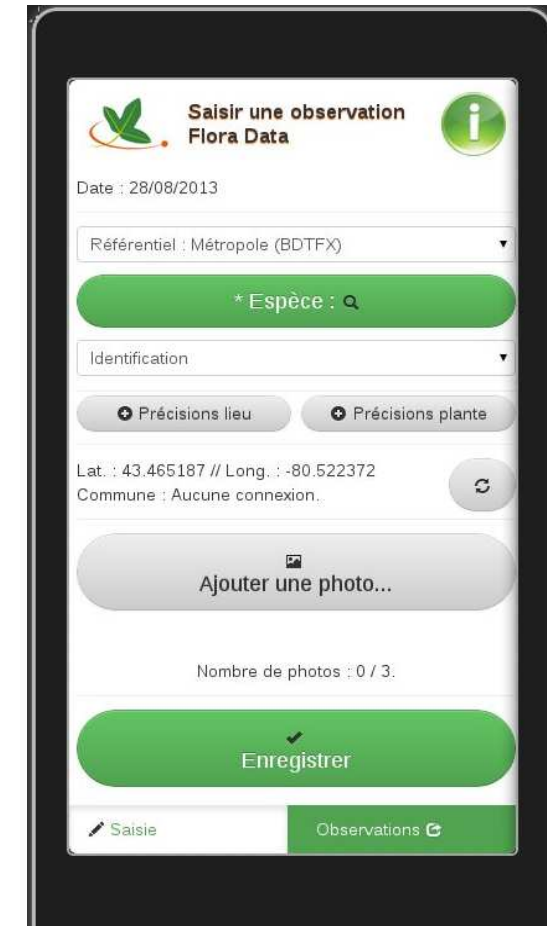
Collect data and photos



Online field notebook, a universal tool

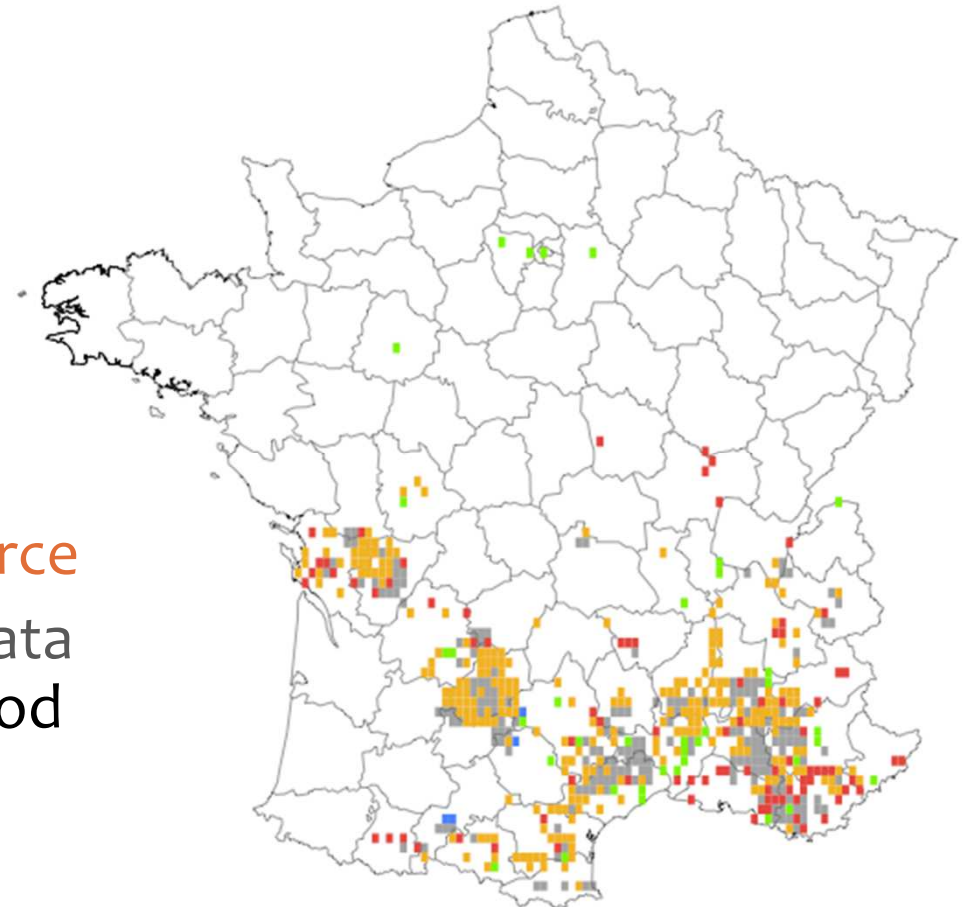
- A **general public** interface
- A **professional** interface
- A **mobile** interface (in progress)
- A global geographic referential (**Open Street Map**)
- Different **taxonomic databases** (France, North Africa, West Africa, Lebanon...)
- **Free licence** for data and photos
- **Bi-lingual** (French, English)
- > **1 million** data collected (last 3 years)

A mobile app



Harvesting data

- Display data from **different sources**
- Data are **not centralized**
- Harvesting tools on **Open Source**
- International distribution of data through **GBIF** (only data of good quality are transmitted)

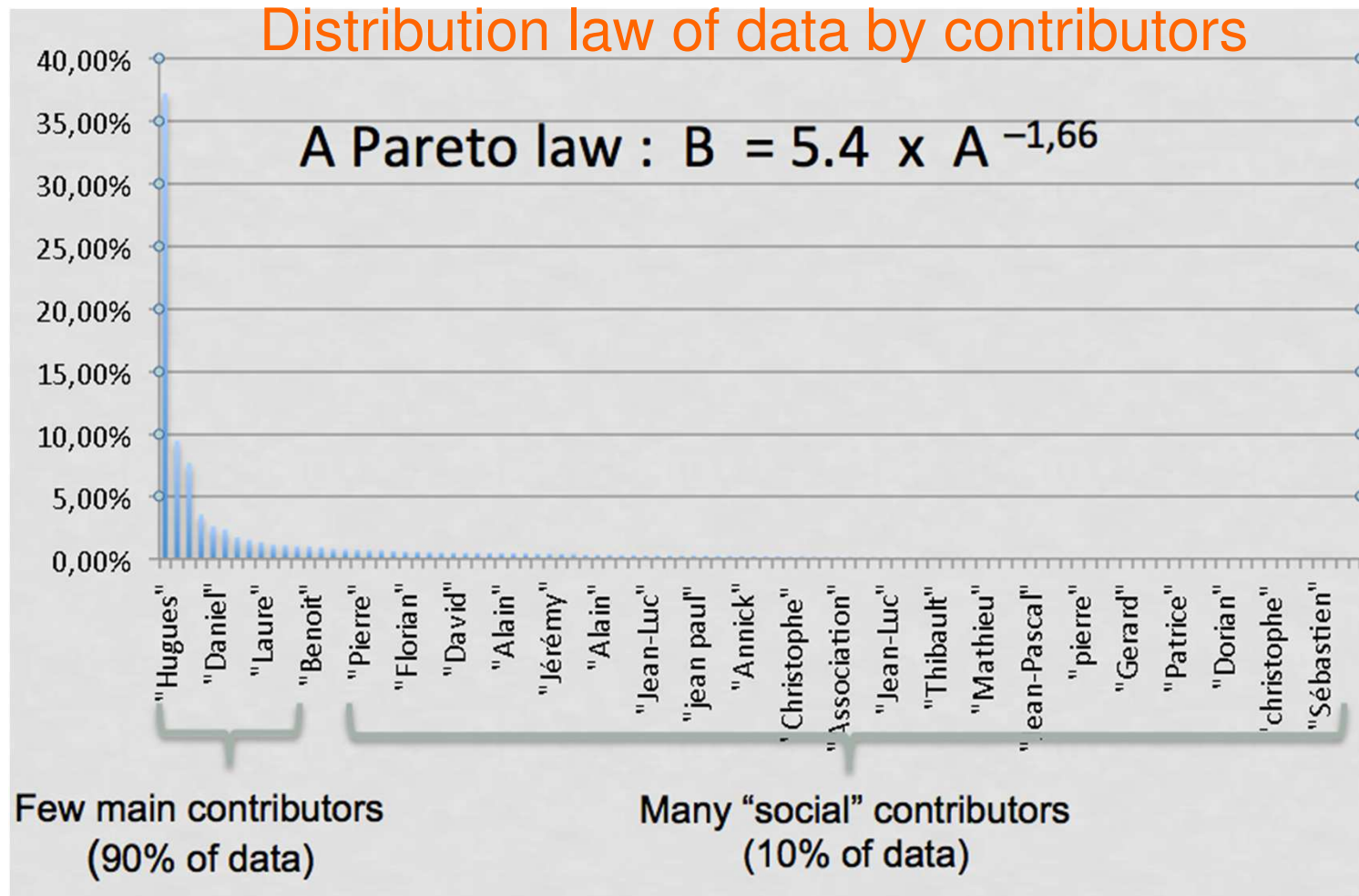


colours indicates the source of data

Observations of *Acer monspessulanum* L.

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Collect data and photos



- **Main contributors** : good data
- **"Social" contributors** : more mistakes, but awareness

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Collect data and photos



Quality of data

- Depends from the **collector** (“main” collector or “social” collector)
- Depends from the **taxon** : easy or difficult to identify

Improve quality

- select “good contributors”
- **check data** with plants distribution (by department, etc.)
- **check photos** with ***IdentiPlante***
- **Ask contributors** about odd data
- Verify data by **experts**
- And **increase competencies** of “citizen” (teaching)

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Collect data and photos



Work in progress.....

- Develop **mobile systems**
- Connect field trip note with **identification systems**
- Reinforce the **quality of data** (experts needed!)
- Extend the tools to **other countries** (Europe, Africa, etc.)
- We need a **Euro-mediterranean taxonomic index** (Euro+Med)
- Promote **free licenses** : data, photos...
- Share** and **valorize** data (GBIF, etc.)
- increase competencies** (teaching)

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Teaching



To day

- Botany is nearly no longer taught in France
- But we need botanists !
 - to inventory biodiversity
 - to assess threats toward it
 - to reconnect public to nature



MOOC, an opportunity to teach botany... (2015)

- implement distance learning accessible to a wider public
- can offer certification for different levels and disciplines (flora, ecology, phytosociology...)
- create reusable content for all of the french speaking countries (Europe, Africa, Middle East, Far East...)
- attractive and easy appropriated by young people

MOOC's : our ambition

- A **teaching portal** for french speaking botanists
- **Different subjects** (botany, biology, phytosociology, ecology...)
- **Courses** for France, North Africa, West and Central Africa, Middle East and Quebec, etc.
- **Several MOOC produced and broadcasted:**
 - Botany 1 (3 times : 2016, 2018 and 2020)
 - “Weeds” (2 times : 2018, 2021)
- Many other coming soon (Botany 2, Natur’Adapt...)





The screenshot shows a web browser window with the URL <https://mooc.tela-botanica.org>. The page header includes a navigation menu, a user profile icon, and the text "PLATEFORME Tela Formation" with a "Connexion" button. The main content area features a large image of a red poppy flower with the text "Le MOOC Herbes Folles revient" and "Diffusion du 20 septembre au 25 octobre 2021". Below this, there is a call to action: "Inscrivez-vous dès aujourd'hui sur Tela Formation pour être tenu informé par mail" with an email icon. A small illustration of a red and yellow flower is also present. At the bottom of the image, it says "Papaver hybridum par Marie Therese GOUPIL - Tela Botanica (CC BY-SA)".

À venir
Réédition du MOOC Herbes folles 2021

- Inscriptions jusqu'au 25 octobre (midi) 2021
- Diffusion du 20 septembre au 25 octobre (midi) 2021

SE CONNECTER/S'INSCRIRE

S'ABONNER ET CONSULTER LA NEWSLETTER

Development of our own portal for MOOC

<http://mooc.tela-botanica.org>

Several MOOC

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Conclusion



Tela Botanica in the future, main objectives...

- Promote **collaborative work** (citizen science, etc.) to **collect data**
- **Networking** for breaking barriers (age, skills, countries, language...)
- Promote botany to the **general public** and connect **to experts**
- Promote **free licenses** to share knowledge (data, photos, etc.) (GBIF)
- Develop **skills training** for all levels (MOOC's)
- Strengthen **regional identities**, but working all around the **world** !

And resolutely work at Euro-Mediterranean level

Looking for european projects and partnerships !

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Thanks for your attention



3rd Mediterranean Plant Conservation Week

CHANIA, CRETE, GREECE | 27 SEPTEMBER - 1 OCTOBER 2021

Plant Conservation Strategies: from Science to Practice

