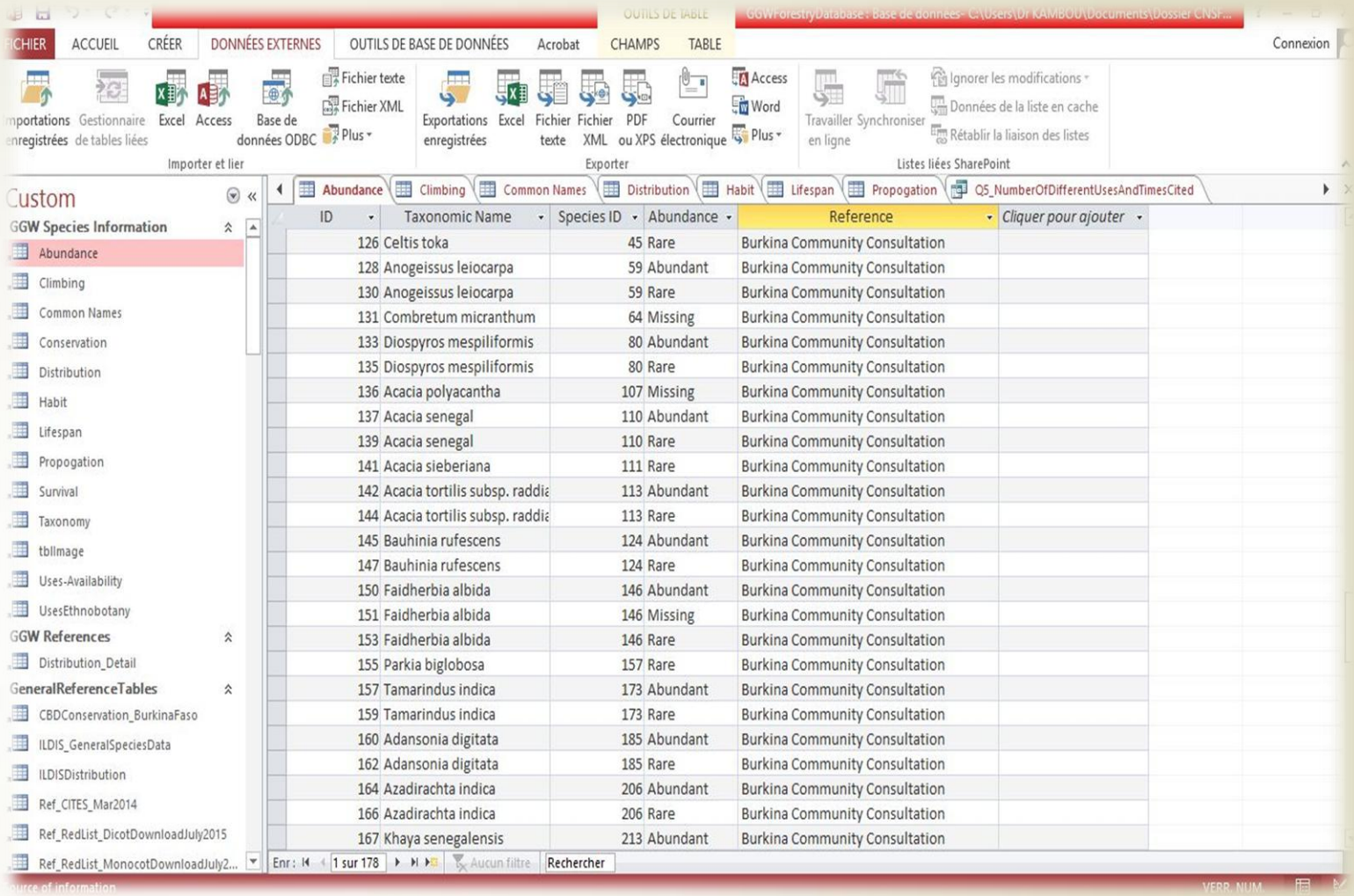
Great Green Wall Restoration/ Botanical Database



February 2016

Plan

- Introduction
- Objective of the database
- GGW Database structure
- Data sources
- Database overview
- Excel Template for data collection
- Perspectives

Introduction

- GGW implemented since 2013
- Data generated
- Need for data gathering and centralisation in order to make analyse sharing and reporting easier

Objectives

Our aim is to gather data generated under the GGW restoration, from seeds collection to the exploitation of the plants products

Species natural stands

nurseries and seed production

Intervention villages

Restoration actions

Trainings

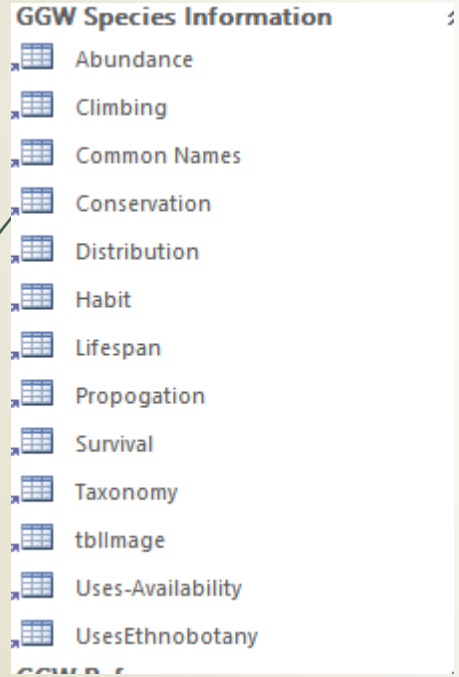
Plantations & sowing

Seed Collection

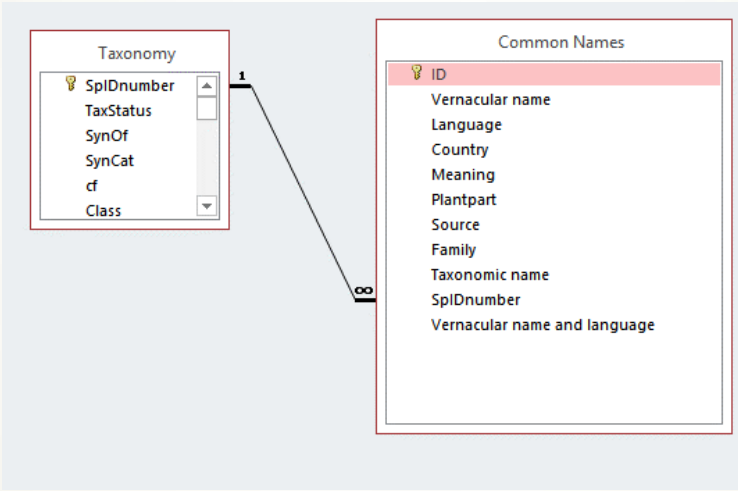
Product exploitation

Database structure

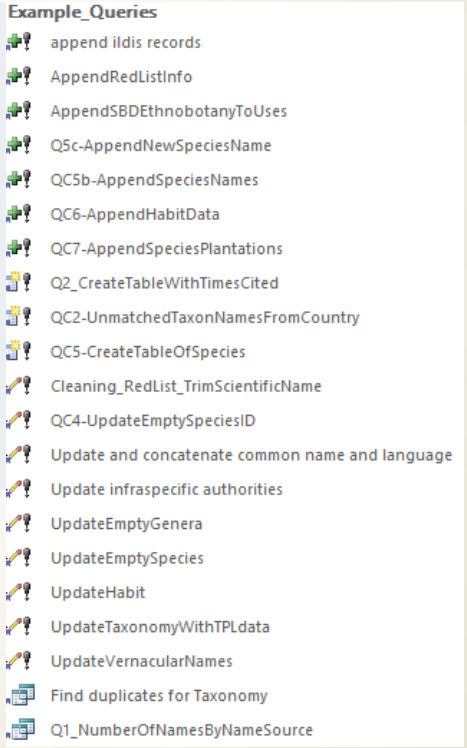
- Tables



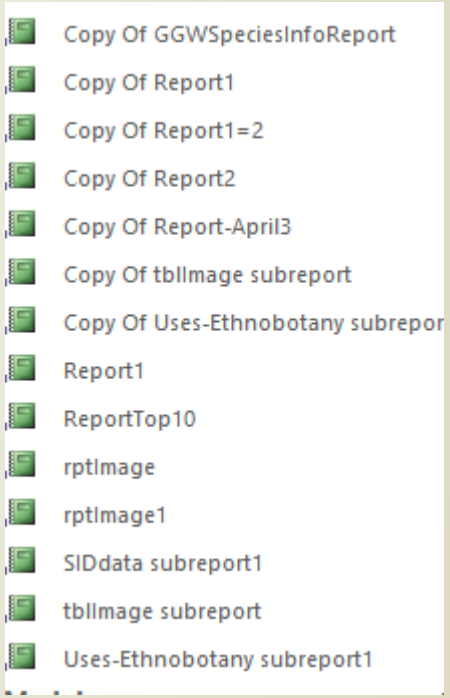
- Relations



- Queries



- Reports



Data: tables

- Plant species (10)
- Villages (1)
- Community servey (8+)
- Seeds and Collection information (1)
- Nursery (2)
- Land restoration (1)
- Plantation (11)

- References
- Other informations from web sites (SBD, SID, ILDIS etc)
- analyses
- Reports prepatation
- Backups

Data sources

- Household baseline situation data
- Biophysic baseline situation

→ Contries Community Consultation
Countries GGW dataset

- Plant species data

→
- Web sites,
- Books,
- **scientific journal**
- Contries Community Consultation
- Countries GGW dataset

- Nursery data, Plantation data, Land recovery data, Seeds and Collection information

→ Countries GGW dataset

online resources :

- Woody Plant List, MSB Bioinformatics, The Plant List (Kew)
- World Checklist of Selected Plant Families, 2014 (Kew)
- Seed Information Database — SID (Kew)
- REFORGEN (FAO)
- eMonocot, 2013
- Taxonomic Database Working Group
- The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
- International Legume Database & Information Service: ILDIS
- IUCN red list
- Germplasm Resources Information Network (GRIN) - USDA

Books and revues

Arbonnier, M. 2004. Trees, shrubs and lianas of West African dry zones

Beentje, H.J., 2006. Strophanthus hispidus DC. [Internet] Record from PROTA4U. Schmelzer, G.H. & Gurib-Fakim, A. (Editors). PROTA <http://www.prota4u.org/search.asp>. Accessed 19 August 2014.

Bosch, C.H., 2007. Senna alata (L.) Roxb. [Internet] Record from PROTA4U. Schmelzer, G.H. & Gurib-Fakim, A. (Editors). PROTA <http://www.prota4u.org/search.asp>. Accessed 19 August 2014.

FAO GGW Reported Species

Flora Zambesiaca volume:4 part:0 (1978) Rosaceae by E. J. Mendes

Foli, E.G., 2009. Terminalia ivorensis A.Chev. [Internet] Record from PROTA4U. Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors). PROTA (Plant Resources of Tropical Africa / Ressources végétales de l'Afrique tropicale), Wageningen, Netherlands

Foli, E.G., 2009. Terminalia ivorensis A.Chev. [Internet] Record from PROTA4U. Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors). PROTA , Wageningen, Netherlands. <http://www.prota4u.org/search.asp>. Accessed 19 August 2014.

Forest Landscape Africa, 2011

FZ volume:1 part:2 (1961) Malvaceae by A. W. Exell

FZ volume:12 part:3 (2001) Aloaceae by S. Kativu

FZ volume:4 part:0 (1978) Combretaceae by A. W. Exell

FZ volume:7 part:1 (1983) Myrsinaceae by F. K. Kupicha

FZ volume:7 part:2 (1985) Apocynaceae by A. J. M. Leeuwenberg and F. K. Kupicha et al.

FZ volume:9 part:4 (1996) Euphorbiaceae by A. Radcliffe-Smith

http://www.floracatalana.net/stachys-maritima-gouan

Kimpouni, V., 2009. Terminalia superba Engl. & Diels. [Internet] Record from PROTA4U. Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors). PROTAWageningen, Netherlands. <http://www.prota4u.org/search.asp>. Accessed 19 August 2014.

Kimpouni, V., 2009. Terminalia superba Engl. & Diels. In: Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors). Prota 7(2): Timbers/Bois d'œuvre 2. [CD-Rom]. PROTA, Wageningen, Netherlands.

Books and revues

Konsala, S. & Todou, G., 2010. Combretum aculeatum Vent. In: Brink, M. & Achigan-Dako, E.G. (Editors). Prota 16: Fibres/Plantes à fibres. [CD-Rom]. PROTA, Wageningen, Netherlands.

Mali CBD report

Mali Tree Guide, M. Sacande

Opuni-Frimpong, N.Y. & Opuni-Frimpong, E., 2012. Nauclea diderrichii (De Wild. & T.Durand) Merr. [Internet] Record from PROTA4U. Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors). PROTA, Wageningen, Netherlands. Accessed 19 August 2014.

Orwa C,A Muta, Kindt R, Jamnads R,S Anthony. 209 Agrofrestre Database:a tre refrence and selction guide version 4.0 (htp:/ww.orldagrofrestry.org/sites/tredbs/tredatbase.asp)

Orwa C,Muta A, Kindt R, Jamnads R,Simons A.209. Agroforestree Database:a tree reference and selection guide version 4.0 (htp:/ww.orldagrofrestry.org/aftredb/)

Orwa C,Muta A, Kindt R, Jamnads R,Simons A.209. Agrofrestre Datbase:a tre refrence and selction guide version 4.0 (htp:/ww.orldagrofrestry.org/aftredb/)

Oyen, L.P.A., 2002. Ozoroa insignis Delile. [Internet] Record from PROTA4U. Oyen, L.P.A. & Lemmens, R.H.M.J. (Editors). PROTA, Wageningen, Netherlands. <http://www.prota4u.org/search.asp>. Accessed 18 August 2014.

P.G. Wilson, Chenopodiaceae, A.S. George (Ed.), Flora of Australia, vol. 4 Australian Government Publishing Service, Canberra (1984), pp. 81–330

Sacande, M. et al. 2004. Arbres du Burkina Faso

Tchoundjeu, Z. & Atangana, A.R., 2007. Irvingia gabonensis (Aubry-Lecomte ex O'Rorke) Baill. [Internet] Record from PROTA4U. van der Vossen, H.A.M. & Mkamilo, G.S. (Editors). PROTA Wageningen, Netherlands. Accessed 19 August 2014.

The Cashews and Its relatives - John D. Mitchell and Scott A . Mori - Memoirs of the New York botanical Garden 42 1-76 1987

Books and revues

Vivian-Smith, G.E. & Gosper, C.R. 2010.Comparative Seed and Dispersal Ecology of Three Exotic Subtropical Asparagus Species. Invasive Plant Science and Management 3 (1), 93-103

Asamoah, A., Antwi-Bosiako, C., Frimpong-Mensah, K., Atta-Boateng, A., Montes, C.S. & Louppe, D., 2010. Blighia sapida K.D.Koenig. [Internet] Record from PROTA4U. Lemmens, R.H.M.J., Louppe, D. & Oteng-Amoako, A.A. (Editors)

AGROFORESTREE/WAC - Orwa C,Muta A, Kindt R, Jamnads R,Simons A.209. Agrofrestree Database:a tree refrence and selction guide version 4.0 (htp:/ww.orldagrofrestry.org/aftredb/)

Hall, John B., 2002. Sclerocarya birrea (A.Rich.) Hochst. [Internet] Record from PROTA4U. Oyen, L.P.A. & Lemmens, R.H.M.J. (Editors). PROTA (Plant Resources of Tropical Africa / Ressources végétales de l'Afrique tropicale), Wageningen, Netherlands.

Flora Zambesiaca volume:2 part:2 (1966) Vitaceae by H. Wild and R. B. Drummond

Burkill, H.M. 1985. The useful plants of west tropical Africa, Vol 1

Flora of Tropical Africa, Vol 4, Part 1, page 231, (1904) Author: (By N. E. Brown.)

Flora Zambesiaca, Vol 1, Part 1, page 303, (1960) Author: A. W. Exell

Schmelzer, G.H., 2012. Raphionacme hirsuta (E.Mey.) R.A.Dyer. In: Schmelzer, G.H. & Gurib-Fakim, A. (Editors). Prota 11(2): Medicinal plants/Plantes médicinales 2. PROTA, Wageningen, Netherlands. Accessed 4 March 2015.

Burkill, H.M. 1985. The useful plants of west tropical Africa, Vol 2

Cheek, M. 2014. Ceropegia rhynchantha. The IUCN Red List of Threatened Species. Version 2014.3. <www.iucnredlist.org>. Downloaded on 18 March 2015.

Alvarez Cruz, N.S. 2011. Combretum adenogonium Steud. Ex. A. Rich. [Internet] Record from PROTA4U. Schmelzer, G.H. & Gruib-Fakim, A. (Eds) Wageningen, Netherlands

Next steps

- Continue filling data/information on GGW restoration species
- Gather data from country community consultation (Excel templates available)
- Gather data from country GGW restoration activities (Excel templates available)
- Create queries for data analysis
- Create report templates