UNDESERT

Understanding and combating desertification to mitigate its impact on ecosystem services Dr. Jørgen Axelsen (stand in for Dr. Anne Mette Lykke),







UNDESERT objectives

- To improve understanding of effects of desertification and degradation in West Africa
- To develop decision support tools and introduce them to natural resource managers
- To make restoration through tree planting and certification for CO₂ marketing
- To manage ecosystems in close collaboration between scientists and local communities
- To educate a new generation of African experts in desertification and degradation issues

UNDESERT includes ~ 50 West African and European scientists, incl. 19 PhD students

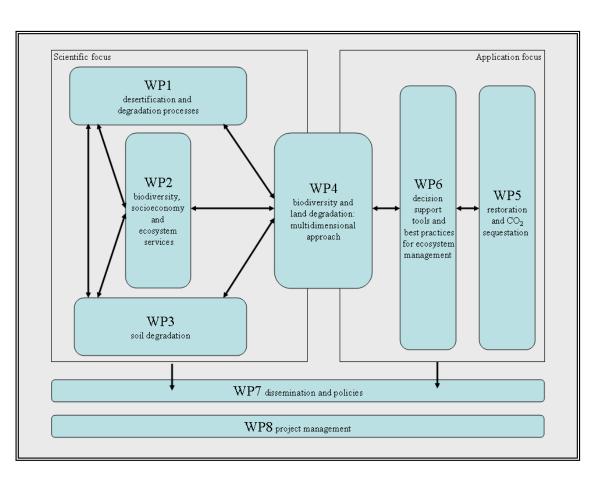
Financed by the
European Union (FP7)
1/6 2010-31/5 2015.
3.5 mill Euro
www.undesert.neri.dk







Project overview



UNDESERT partners

Aarhus University, Denmark
University Abdou Moumouni,
Niger

Université Cheikh Anta Diop, Senegal

J. Wolfgang Goethe-University, Germany

Senckenberg Forschungs-inst., Germany

University of Ouagadougou, Burkina Faso

University of Bobo Dioulasso,Burkina Faso

University of Abomey-Calavi, Benin BioClimate Research Develop., UK



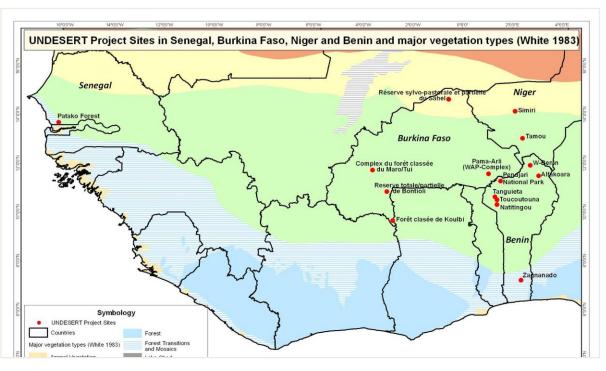


Study sites

















Plan Vivo approval of tree planting project

EH16 6AE

Tel: +44 (0)131 672 3782 www.planvivo.org

23rd May 2013

Dear Wendelin

Approval of Local Trees for a Better World, Senegal project documents

Please accept this letter as confirmation of Plan Vivo Foundation approval of the following documents in support of the registration, under the Plan Vivo Standard, of the Local Trees for a Better World project in Senegal, operated by Arlomom Patako;

Project Design Document

Word file version: Arlomom PDD 2013-05-21.docx Web location: http://www.planvivo.org/wp-content/uploads/Arlomom-PDD published.pdf

<u>Technical Specification attachment</u>
Word file version: Arlomom_TS_2013-05-21.docx
Web location: http://www.planvivo.org/wp-content/uploads/Arlomom TS_published.pdf

These documents will also be made available on the Markit public registry on completion of registration under the Plan Vivo Standard.

Sincerely,

Kathleen Edie Programmes Manager Plan Vivo Foundation

Habilien III & O.

The Plan Vivo Foundation is a charity registered in Scotland, number SC040151

- Apparently first project in West African savanna
- Stake holders/ beneficials:
 - People in 9 villages around Patako Forrest
- Stake holders:
 - Private companies
 who will buy the CO₂
 quota





West African database



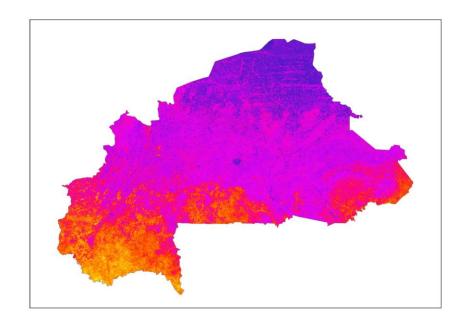
- West African Vegetation database launched
- Available for managers of natural resources in West Africa
- Used to analyse vegetative degradation parameters





Vegetative degradation parameters 1

- Share of annual grasses
 - Known to vary with latitude
 - Sensitive to rainfall and grazing presure
 - Short term response to environmental change



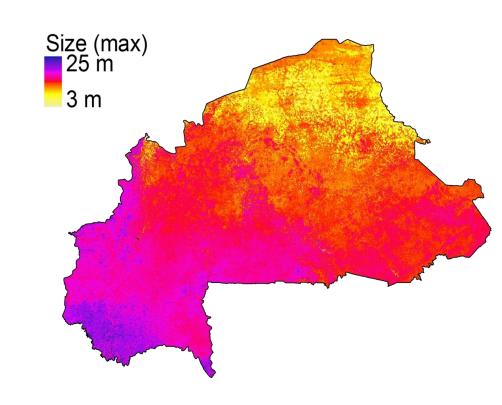




Vegetative degradation parameters 2

Size of trees

- Known to vary with latitude
- Sensitive to rainfall,
- Long term response to environmental change



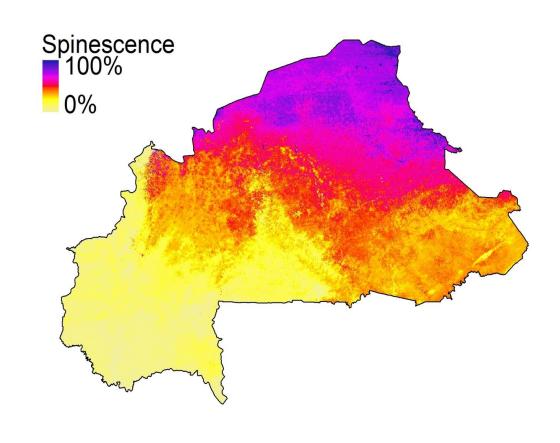




Vegetative degradation parameters 3

Share of spiny species among trees

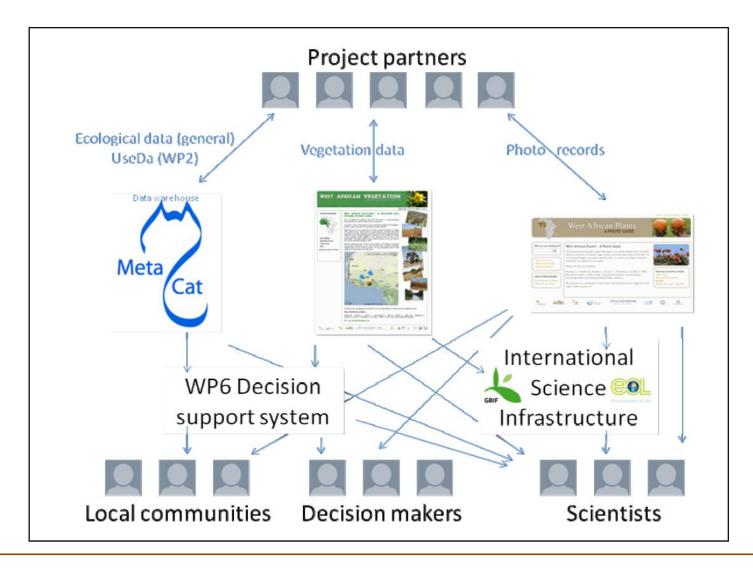
- Known to vary with latitude
- Sensitive to rainfall and browsing
- Long termresponse toenvironmentalchange







Stakeholders overview







Stakeholders and dissemination

- Stakeholders
- Decision makers within natural ressource management
 - Governments
 - Communes
 - National parks
 - Protected forests
- NGOs within environmental protection ?





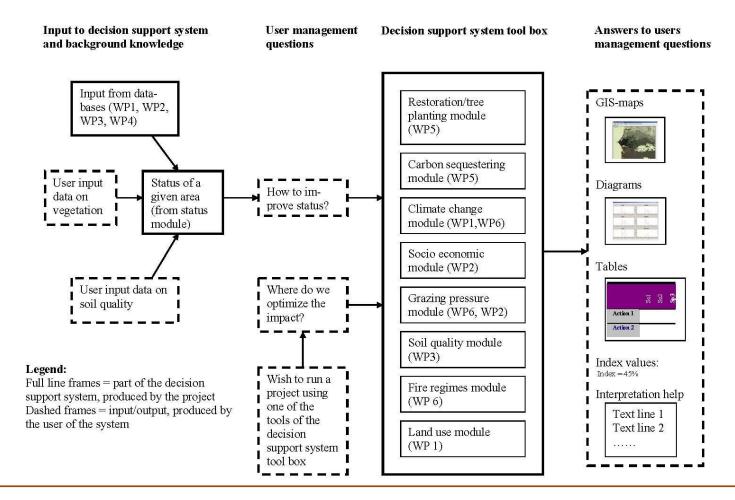
Dissemination

- Scientific dissemination
- Participation in a long list of governmental advisory councils in the participating African countries
- Part of UNDESERT decision support system
- United Nations Conference to Combat Desertification (UNCCD)
 - Local focal points
 - Headquarter in Bonn





Diagram of decision support system





Future research priorities in the field

- Sustainable utilisation of natural resources and job creation
 - how is it possible both to create jobs and secure sustainability at the same time
 - well in line with:
 - UN Millenium Ecosystem Assessment
 - Intentions of Horizon 2020





Future research priorities in the field

- More emphasis on biodiversity and ecosystem services – also in Africa
- In line with:
 - UN Millenium Ecosystem Assessment, finding 4 dealing with "the challenge of reversing the degradation of ecosystems while meeting increasing demands for their services"
 - "Rio +20" THE FUTURE WE WANT I. Our Common Vision





On behalf of the entire UNDESERT team:





