



A Long term EU-Africa research and Innovation Partnership on food and nutrition security and sustainable Agriculture



EUROPEAN UNION

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Roles of Agroforestry in sustainable intensification of small farMs and food SEcurity for Socletles in West Africa



WP2 Ecosystem Services - Task 2.3. Spatialization of the services provided by the parklands at landscape scale

D 2.3. Spatialization of the services provided by the parklands (20 % completed)

D 2.3.1 - Senegal

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Methodology : The spatial variability of the multiple ecosystem services provided by the studied agroforestry parklands was characterised by the following data :

1. quantitative data collected on the ground in the study parks, Task 2.1 (D 2.1.1, D 2.1.2); Task 2.2 (D 2.2.1, D.2.2.2)
2. spatially explicit data from remote sensing and various geospatial data, Task 1.1 (D 1.1.1), Task 1.2 (D 1.2.1), Task 1.3 (D1.3.2)

A database was constructed from the results of D 2.2.1, and the fields, trees and plots (under and outside the crown) of each invested park were geolocated with GPS. In 2019, a time series of

28 satellite images and ancillary geospatial data were downloaded and pre-processed. The basic pre-processing includes radiometric correction, re-projection into a common geographic reference system and scaling to the geographic extent of the entire Niakhar study site. Various spectral vegetation indices were derived to characterise vegetation conditions. A land cover field campaign was conducted at the end of the 2019 cropping season to produce a land cover map for 2019.

Results : analysis are on going.

D 2.3.2 - Burkina Faso

Membre responsable : G. Serpantié

The harmonisation of inventories along the two transects in Burkina Faso, Koumbia-Dano and Kamboinsé-Yilou, is underway. The maps already available for the different types of parks (dense or open stands, degraded parks, etc.) will be converted, using proxies, into spatialized ecosystem service maps.

