

## Project title : LUPS - Development of a spatial module for the Land-Use Planner tool

Project place	Project cost	Role in the project	Technical and financial sponsors	Dates
Côte d'Ivoire	27 500 €	GIS and modeling expertise	EFI - European Forest Institute	September 2022 - December 2022

### Project's goals and results

#### Main goals

EFI develops the Land-use Planner (the [LUP](#)), a tool for **socio-economic** modeling and **land use change** scenarios analysis, to improve territorial planning, help resolve conflicting situations over land allocation, plan investments towards more sustainable agriculture for EFI's partners, governments, decentralized administrations and civil society.

LUP is an online operational tool used since 2021 in different countries and offers a **multitude of socio-economic and environmental indicators**. However, there is no spatial dimension representing the simulated land use conversion dynamics allowing full awareness of future landscape changes and enlightening decisions. The objective of this work is to propose a **prototype of space module** to the LUP and in preparation for the integration of automatable space functionalities directly into the platform.

#### Specific objectives

**SO1.** Develop a processing chain aimed at spatially modeling the dynamics of land use change, in particular deforestation and reforestation, based on the simulation results of the Land-use Planner simulation tool and spatial data.

This work will be based on the work of [Nitidæ Lab'](#) (Grinand et al, 2020) and applied in the [Mé REDD+ project](#).

**SO2.** Operationalize the processing chain through the development of an interactive and dynamic online tool prototype allowing users to operate the processing chain and visualize its results. Regional data, spatial modeling tools and the development of open source dashboards will be mobilized in order to offer a generic and reproducible tool.

#### Beneficiaries

#### Results

#### Activities