

Geographic information is essential in countries where agriculture represents a major part of the country's national economy and food safety is threatened. Conflicts of use between forests and other land uses are now an integral part of international action plans concerning climatic changes and particularly within the framework of the REDD+ mechanism, a programme designed to fight against deforestation and forest degradation in developing countries.

Geographic data production and its integration into business applications aimed at supporting the sector's actors in their decision-making work. This data not only enables the detailed identification of agricultural and forest land areas but also it helps to gain specific knowledge of the type of crops or forests present as well as monitoring and analysing changes in land cover.

IGN FI offers its services to produce and update a country's geographic data, develop profession-based information systems and decision-making tools. The company can also help countries to perform the same work themselves by providing assistance in project management.

OUR AREAS OF EXPERTISE

Advise, design and implement projects specifically adapted to the different integral elements of the agricultural and forestry sectors as well as land use on a wider scale:

- Acquisition of satellite images or aerial photographs
- Image processing (radiometric and geometric)
- Processing and integration of data from various sources
- Production of data bases and thematic maps
- Thematic inventories
- Statistical surveys (surface areas, yields)
- Verification and quality control of land use data
- Definition and implementation of sampling grids
- Laying down protocols for the validation of data in compliance with international standards
- Development and implementation of thematic application
- Theoretical and practical training

OUR MEANS

In direct contact or via its network of partners, IGN FI provides specialist teams to its clients:

- Sector experts: experts in agriculture, forestry, geomorphology, hydrology, ecology, soil science, agronomic engineers, statisticians...
- Experts in teledetection
- Experts in geographic data production and management, in GIS
- Experienced project directors and managers

SOME OF OUR REFERENCES

AFRICA (20 countries), TIMOR LESTE, CARIBBEAN ISLANDS AND MADAGASCAR · Validation and accuracy assessment over hotspots monitoring

The high resolution spatial monitoring project of certain specific areas considered to be sensitive and known as "Hotspots" was a component of the Copernicus "Global Land" programme initiated by the European Union. It aimed to deliver detailed information concerning land cover and land cover changes that occurred between 2000 and 2015 within areas of particular interest to the European Union in terms of ecology, wildlife and flora.

IGN FI's contribution to this project was to perform an independent verification and validation of Land Cover 2015 and land cover change 2000-2015 products produced from Sentinel/SPOT or Landsat images on specific areas of the African continent.

GUINEA · National agro-ecological zoning

Funded by AFD (the French Development Agency) and operated by IGN FI and CIRAD (French agricultural research and international cooperation organisation), the agro-ecological zoning of Guinea (ZAEG) project has mapped land cover and its evolution over 10 years. The aim was to identify arable land to guide investment in a country that derives its income from mining but where the resources of 80% of the population come from agriculture. The potentially available land, distributed heterogeneously across the regions, was evaluated at 13.7 million hectares, being 56% of the national territory.

IVORY COAST · National forest and wildlife inventory

This project carried out the second national forest inventory of forest, wildlife and wetland resources in Ivory Coast, with a view to acquiring information and data of strategic importance, to be used in the pursuit of public actions designed to ensure the sustainable management of these resources. A significant training component ensured the national teams to acquire proficiency in both inventory methodology and the handling of digital data collection tools.

INDONESIA · Understanding the land cover

The project "Land Use, Land Cover and Land Suitability Spatial Analysis to Support Integrated Landscape Management in the Implementation of Tora and Social Forestry" is being financed by the World Bank and run by IGN FI in a consortium with Australian and Indonesian partners. It is providing technical expertise to analyse land use and land cover in one province of Indonesia (Jambi province) using SPOT and Sentinel 2 satellite imaging. The next step involves defining which areas of land cover can be re-distributed to local communities in the framework of the land reform programme, while taking account of environmental issues mental issues.

EGYPT · Follow-up and assessment of urban pressure on agricultural land

This project was the result of a close partnership between IGN FI and the French Ministry in charge of agriculture and resulted in the elaboration and implementation of statistical methodology for tracking urban takeover of agricultural land as well as the extension of agricultural land into the desert. It studied the whole of the Nile Delta and Valley and took place over a 20-year period.

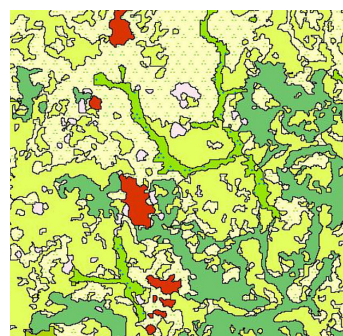
GABON · National geomatic plan and pilot project on zoning agriculture land

The Gabonese government called on IGN FI for support in rolling out their national development strategy called 'Gabon Emergent' by carrying out a preliminary study before the implementation of a National Geomatic Plan (NGP). This project was aimed at analysing the needs and issues at stake and then making recommendations on the technical and organisational aspects of the programme. Four pilot projects were set up in close partnership with the various sectorial ministries and the first phase of implementing the NGP then went ahead. The objective of 'zoning agricultural land' pilot project was to equip the main ministries in charge of agriculture with essential decision-support tools enabling them to achieve independence in terms of food resources for the country. This pilot project was conducted with the close cooperation of the Gabonese Ministry of Agriculture and was piloted by the international subsidiary of the National Office of Forests (ONFI).

More projects on www.ignfi.com

IGN FI is one of the companies in the GEOFIT group and as international technical operator for IGN France, is a major player in the field of geomatics. It provides expertise in the fields of geodesy, metrology, cartography / infrastructure for national geographic data, databases, geographic information systems and portals.

100% devoted to export, IGN FI provides its know-how to many sectors of activity including agriculture, forests, the environment, civil security and borders.



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