

About the Institute

The Centre for Agricultural Research in Suriname (CELOS) is a foundation, established in 1967. Our Centre is linked with the Anton de Kom University of Suriname (ADEK). We are active in various areas of Agriculture and Forestry, which can contribute to national development.

Mission

CELOS is the Centre for Agricultural Research in Suriname with focus on Sustainable Management and Utilization of Renewable Natural Resources through Applied Scientific Research and Services.

Vision

CELOS will be the trendsetter in quality research and services for the agricultural sector in Suriname using strategic alliances.

Objectives

Since expertise of various Agricultural and Forestry fields exists within the staff of CELOS and the Faculty of Technology of the ADEK University, these institutions are able to adapt their programs to target many Agricultural and Forestry sub-areas.

At present emphasis is placed on finding solutions for the Agricultural and Forestry sector through the application of new technologies.

Collaboration with international recognized Institutions and Universities aiming at similar objectives is a priority of CELOS.

This results in exchange of knowledge, technology transfer and joint research efforts.

Scientists and research associates from CELOS, the ADEK University and faculty students conduct research in our laboratories, or at one of our field sites:

- Phedra and Tijgerkreek West (Agriculture);
- Kabo and Mapane (Forestry) or;
- Central Suriname Nature Reserve (Biodiversity).



CELOS is conducting research and providing services in:

SUSTAINABLE FOREST MANAGEMENT

The Forestry department is conducting research activities in the development of sustainable Forest Management Systems. Out of these efforts the CELOS Silvicultural System (CSS) and the CELOS Harvesting System (CHS) were developed. Both sub-systems, combined, are known as the **CELOS Management System (CMS)**, and have been well established in the international tropical forest community.

WOOD TECHNOLOGY

In the Wood Technology Laboratory, technical and scientific information are made accessible to com-

panies that work with wood and/or wood based products. Furthermore, research efforts are geared towards the applicability of the lesser-known wood species. Knowledge of these wood species is very important in the development of new products. At our Wood Technology Laboratory emphasis is also put on the processing of potential wood species on environmentally sound principles.



AGRONOMY

The Agronomy department is researching:

- Selection of suitable Soybean varieties in order to establish a basis for Soybean mechanization in Suriname;
- The suitability of Maize as a rotation crop for Soybean;
- Production practices of vegetables under controlled conditions;
- Cassava varieties for Starch production and Small Scale Agriculture and;
- Agronomic performance of Cashew varieties.

TISSUE CULTURE

The Tissue Culture Laboratory provides the Agricultural and Horticultural sector with high quality plant material through in vitro propagation of economically important crops.



SOIL SCIENCE

The Soil Laboratory supports all on-going agricultural research activities of CELOS, analyzing the chemical composition of soil, plant, water, and animal fodder samples, and determining physical soil properties.



AGROFORESTRY

The Agroforestry department is concentrating its efforts on:

- The improvement of shifting cultivation, which is the most common form of agricultural practice of the indigenous people living in the interior of the country and;
- The promotion of the incorporation of trees in other rural land-use systems.

Other matters of interest are biodiversity issues in Agroforestry, including the use of Non-timber Forest Products.

BIODIVERSITY

The Biodiversity department is conducting research in protected areas, as well as in human impacted regions. Data is collected to model trends and to design monitoring programs, in order to predict or minimize negative affects on ecosystems.



GIS- AND REMOTE SENSING

The GIS and Remote Sensing department - also known as NARENA - is responsible for the inventory of the Natural Resources of Suriname. This is being accomplished by the application of Geographic Information Systems (GIS), and the utilization of satellite images. Additionally, these tools are also used to monitor the effects of human interventions on the natural resources and the environment.



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CENTRE FOR AGRICULTURAL RESEARCH IN SURINAME



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