



Geo-Sys

Geo-Sys (Lao)
Company Limited



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Geo-Sys (Lao) Co., Ltd is a registered local company in Lao P.D.R and is partly owned by Geo-Systems International Ltd, a Bermuda registered company no. 38527

Company Profile of Geo-Sys (Lao)

Name of the Firm

Geo-Sys (Lao) Company Ltd

Registration of the Company

Country of Incorporation: Lao P.D.R
Date of Incorporation: 03/10/2007
Registration No. of Incorporation: 526

Firm's Headquarters

Sokphaluang Village, Soi 7, 136/9
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Geo-Sys (Lao)

Geo-Sys (Lao) Company Limited is a Lao Joint Venture Company registered in Vientiane, Lao P.D.R

Geo-Sys is a research and consulting firm that focuses particularly on *environmental, socio-economic and geo-spatial analysis* in the **Lower Mekong Sub-Region**. It carries out research and development, impact assessment studies and the formulation of natural resources management strategies in the context of *integrated and sustainable rural development*.

Geo-Sys is a **group of highly qualified consultants** with a broad range of professional skills and solid experience in carrying out all aspects of environmental and socio-economic research including project evaluation and management.

The team's integrated approach to socio-economic and environmental modelling enables us to provide our clients with the necessary information to make decisions quickly and with confidence in order to implement successfully their project or business strategies.

We are **based locally in the Lao P.D.R** with considerable in-country experience. This allows us to provide efficient and cost-effective solutions to local recruitment, training and logistics.

The Geo-Sys team has the **ability to initiate and design studies** that cover a **wide range of key** physical, biological and socio-economic factors, thus providing comprehensive reporting on environmental or social conditions. The team has a profound understanding of the challenges facing rural communities in the context of the changing social, economic and natural environment as the nation moves to secure for itself sustainable economic growth and the development of its resources.

Philosophy

Geo-Sys (Lao), aim to support the conservation and protection of the natural, human and cultural environments within an economically viable framework.

Geo-Sys enhances *strong business practices* with *good ethics*, where capacity building is strengthened and profitability is shared with integrity and equality.

Strategy

Through environmental, social and economic integrated assessments, thematic analysis and advisory services, Geo-Sys help to manage and preserve natural resources thereby improving livelihoods of the poorest, while assuring the best interests of projects towards consolidating the future of development or economic activities.

Geo-Sys follow a methodological process that is based on consultation, participation and assistance in implementation to assure good coordination and involvement of all identified stakeholders.

Geo-Sys delivers information and reports in accordance with standards and guidelines set down by national and international agencies, ensuring satisfactory outcomes for all concerned.

Geo-Sys' Scope of Work

- Natural resource management
- Environmental
- Land studies and land use management
- Evaluation of development project, design and implementation
- Environmental Impact Assessment (EIA)
- Guidance to Environmental Management Systems (EMS), standardization and labelling
- Environmental Management Plans (EMP)
- Environmental policies assessment and development
- Socio-economic valuation and analysis
- Environmental assessment of economic sectors and market analysis
- Social Impact Assessment (SIA), social scoping, baseline studies
- Information Dissemination Campaigns
- Mapping and geo-database design, GIS analysis and statistical analysis
- Remote sensing image interpretation
- Database management and information technology.

Team's Profile

The Geo-Sys team has proven track records of experience to develop methodological instruments and analytical tools that assure the delivery of the required expertise adapted to each mission context.

We are a **multi-disciplinary international team** with specialisations in *Environment, Biology, Ecology, Bio-engineering, Geography, Cartography, Economics, Sociology, Anthropology, and Rural Development.*

Names and Functions of Principal Officers

Alan Ian BOATMAN, M.Sc. – Executive Director (*Socio-environmental Systems Analyst*)

Nalinthone PHONAPHANH, B.A – Co-Director (*Water Supply & Sanitation Specialist*)

ChansoukhInsouvanh B.A., M.Env.Sc – Technical officer (*Gender Analyst and Ethno-Linguist*)

Chanmay CHONGYICHONG, Dipl.Ag. – Technician (*Field Survey Supervisor and Ethno-Linguist*)

Mette ROHR BOATMAN, M.A. – Financial Officer (*Gender, Health, and Ethnicity Specialist*)

Vilaythong CHANTHALINH, Dipl. Acc – Field Survey Manager

Personnel of the Firm

Number of Permanent Employees: **10**

The company has **3 full-time senior consultants** and **4 full-time survey foremen and technicians**, both national and international, all living permanently in Laos.

Further to this we have **over 40 locally-based associates** (researchers, analysts, surveyors and technicians), with a wide range of skills, experience and qualifications that are able to join us depending on the requirements of a given contract or project.

Geo-Sys Collaborators included:

Senior Technical Advisors

Specialists on Socio-Environmental Systems Analysis

Economists

Community Development Experts

Biologists

Agronomists, Bio-Engineer

Forestry Specialist

Anthropologists

Gender, Health, Education Experts

Database Manager and Statistician

GIS and Geospatial Analysts

Capability of the Team

Physical Environment and Geography

- Hydrological and Water Quality Monitoring, Analysis and Modelling
- Meteorological Monitoring, Analysis and Modelling
- Installation and Operation of Hydro-Met auditing and monitoring equipment, including associated data Analysis and Presentation
- Geological and Pedological Survey and Mapping
- Water, Air and Soil Pollution Monitoring and Remedy Techniques Design

Socio-Economics

- Socio-Economic and Assets Baseline Survey Techniques, and Analysis at micro and macro levels
- Socio-Economic Indicators Design and Monitoring
- Public Participation and Disclosure Methodology along with rapid rural appraisal and participatory rural appraisal (RRA/PRA)
- Cost-Benefit Analysis of the Environment and of Development Projects including Strategic Risk Assessment
- Resettlement, Compensation, Valuation and Implementation Plan Design
- Environmental Policies Assessment and Development, including Action Plans Agenda 21, charters, eco-labelling strategy and eco-products market positioning
- Agriculture, Forestry, Energy, Tourism, Transport, and other sectors integrated assessment

Ecology and Biological Conservation

- Flora and Fauna Taxa Survey
- Fauna and Flora Populations and Communities Dynamics Monitoring and Analysis
- Vegetation Structure Survey
- Phytosociological Survey and Analysis
- Bio-Indicators Design and Monitoring in relation with biodiversity challenges and in relation with target ecosystems
- Landscape Ecology and Connectivity Analysis
- Landscape and Watershed Management

Geographic Information Systems (GIS) and Cartography

- Use of ArcGIS, MapInfo and IDRISI
- Database Design and Management
- Remote Sensing (aerial photography and satellite photography)
- Ground Truthing Techniques
- Cartographic Survey, Cartographic Representation and Mapping Techniques

Languages

- English (fluency)
- French (fluency)
- Lao (fluency)
- Hmong (fluency)

All these complementary skills allow us to provide comprehensive reporting including multimedia communication materials production, trainings and workshops.

Our Clients

Private industry, governments and other public authorities, multilateral and bilateral aid agencies, universities and institutes, and non-governmental agencies.

Company and Team Experience

Fondation Energies pour le Monde

Consultant Services for GIS Layers Elaboration for the Province of Luang Prabang, Lao P.D.R

With the aim of setting up a bankable large-scale Decentralized Rural Electrification (DRE) programme with renewable energies for the province of Luang Prabang our main activity was to map the province of Luang Prabang with all details at district and village levels. Several typologies of data information were collected: geographical, hydrological, land cover, road infrastructures, electrical power grid (existing & planned), and human settlement and population.

Nam Theun 2 Power Company

Information Dissemination Campaign for Communities along the Xe Bang Fai Concerning Changes in Expected Schedule for NT2 Impacts Downstream of the Power Station

As a result of changes to the schedule for NT2 commercial operation consultations were required with communities downstream of the NT2 Power Station to inform them of the change in schedule of the anticipated impacts. This had particular implications for 68 villages along the Xe Bang Fai that traditionally cultivate riverbank gardens along the river course. Specifically this applies to the volume of water discharge (and hence water levels) and its timing, and how these conditions will impact riverbank planting, irrigation pumping equipment, and household or community assets.

A Hydro-Safety Information Dissemination Campaign Downstream of the NAM THEUN 2 Regulating Dam.

The campaign involved consultations in 23 villages that lie along or have close proximity to the Downstream Channel and key Project features along it. Each feature had specific concerns over public safety and messages were tailored to meet each community's requirements. Presentations were given to an audience of rural communities and rural schoolchildren to improve their understanding and awareness of hydro-safety issues related to the operation of the regulating dam and downstream channel.

World Bank

Economics of Sanitation Initiative supported by the Water and Sanitation Program

Phase 2 – Cost-Benefit Analysis of Sanitation Options in Lao PDR.

A one year study to assess the sanitation and hygiene promotion sub-sectors. This includes a field survey in 1,200 households, tourism/sojourners survey and businesses survey to establish input parameters and data for a comprehensive cost-benefit analysis of sanitation and hygiene promotion interventions and establish suitable options for future activities within the sector.

SNV

Rural Water Supply, Sanitation & Hygiene Promotion Sector Assessment

in Huaphanh & Savannakhet Provinces with Reference to Central Levels for policy and Institutional Issues

A WASH sector assessment with sample field survey in 54 villages to establish available national data sets' veracity and currency, levels of intervention, sectoral actors survey, private sector involvement and value chain analysis, and governmental institutional framework for modalities and inter-actor cooperation.

SNV (in association with Lao Institute for Renewable Energy - LIRE)

GIS spatial analysis to identify and target potential areas for Biogas promotion and installation activities in Vientiane Municipality, Xiengkhouang, Khammouane, and Savannakhet.

Ban Pako Biofuels Project

Initial Environmental Examination of a potential 360 Ha Biofuel (Jatropha) Plantation in Vientiane Province.

PhuBia Mining Limited

PhuKham Copper-Gold Project's 2008 Socio-Economic Survey at Ban Nam Mo and Ban Nam Gnong, Xaysomboun District, *Vientiane Province, Lao P.D.R* : Comprehensive Socio-Economic Household Survey and Health and Nutrition Sample Survey.

PhuBia Mining Limited

ADB Road 9 - Public Disclosure and Consultation Campaign for New Activities Associated with PhuBia and PhuKham Mining Operations' Traffic on ADB Route 9 in 11 Villages in Long Xane and Xaysomboun District, *Vientiane Province, Lao P.D.R* : Consultation Report and Recommendations.

NORPLAN

Provision and analysis of Digital Globe Quickbird Imagery to cover 443 km² for the Nam Ngum 3 Hydropower Project - Middle Reservoir Area, Nam Ngum River, *Lao P.D.R*
Assessment of human activity and potential impacts of reservoir inundation and project works.

Sinohydro Corporation Ltd

Nam Ou Hydropower Cascades Development Project: Initial Environmental Examination, Drafting the Terms of Reference for the execution of the Social and Environmental Impact Assessment of the Nam Ou 8 Hydropower Project, *Phongsaly Province, Lao P.D.R*

Sunlabob Renewable Energies Ltd. for the World Bank

"Power to the Poor" Project, *Lao P.D.R* - Communications and Dissemination Materials and Presentation Design

Sunlabob Renewable Energies Ltd. for *Fondation Energies pour le Monde*

RESIREA Work Programme 6 - Detailed Baseline Studies and Needs Analysis of 23 Selected Villages in *Oudomxay Province, Lao P.D.R*

Sunlabob Renewable Energies Ltd. for *Fondation Energies pour le Monde*

RESIREA Work Programme 4 - GIS layers and elaboration for the *Province of Oudomxay, Lao P.D.R*

Sunlabob Renewable Energies Ltd. for *Fondation Energies pour le Monde*

RESIREA Work Programme 2 - Compilation and Analysis of Information on Existing Rural Electrification and Renewable Energy Programs in *Oudomxay Province and in the Lao P.D.R*

Lao Institute for Renewable Energy for the *Energy and Industrial Technology Development Organization of Japan*

(NEDO Bangkok Representative Office)—Survey on national fossil fuel consumption for energy efficiency conservation and policy recommendations to promote the new biofuel technologies in the *Lao P.D.R* Workshop and Final Report.

Lao Institute for Renewable Energy

Participatory Technological Development (PTD) methodology development for decentralised village level production of *Jatropha L. Curcas* and biofuel development in *Lao P.D.R*

Lao Institute for Renewable Energy

Geospatial and geophysical research programme for *Jatropha* production and biofuel development in *Lao P.D.R*

Lao Cement Industries Co. Ltd. (Thakhek Cement Plant)

Environmental and Social Impact Assessment, Environmental Management Plan and Social Action Plan for a 2,630 tonnes/day cement manufacturing plant and 4 quarry sites in *Khammouane Province, Lao P.D.R*

Company Principals have also participated in

Nam Theun-Hinboun Hydropower Company

10-Year Mitigation and Management Plan

EIA - Theun-Hinboun Extension Project

Nam Ngum 3 Hydropower Project

Environmental Management Plan and Social Action Plan

Ta Sang Hydropower Project

Initial Environmental Impact Assessment

French Research Institute for Development (IRD Lao P.D.R)

Cost-benefit analysis and socio-cultural valuation of soil erosion and land degradation in upland areas based on a case study, *Lak Sip Village, LuangPrabang Province, Lao P.D.R*

European Environment Agency

European Union's Agenda 21 Tourism Policy, European Union-27's Tourism and the Environment Monitoring and Reporting System (TOUERM/ EUROSTAT), Pan-European Countries-51's Tourism and the Environment Indicators-based Assessment



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