



ASTRIK PROFILE



Our Vision

To be a leading Engineering firm offering modern technological based solutions on public and private infrastructure that meets customer's requirements and promoting engineering profession through skill and knowledge transfer.



Our Mission

To provide profession services by promoting the use of modern technological solutions for efficiency, sustainability and affordable public and private infrastructure (development and maintenance) and enhance skills through capacity building of practitioners to ensure their competent and competitive on their job or market (Nationally and internationally).



Our Core Values

The Core values are Integrity, Professionalism, Innovation, Accountability, Passion, diversity and Social Responsibility to forge change that will deliver our mission and achieve our vision



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Legal Status

Reg Date : 10/01/2014
RDB : 103180151
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RSSB : 3107730500000M
IER : A005/REC/ECF/2015



Our Philosophy is to:

- Put our client's needs and quality of our work first;
- Transform knowledge into value for our clients', staff' and communities' benefit;
- With full dedication, strive to conduct our business in a more integrity and independent way;
- Recognize that our client's needs are paramount;
- Strive for excellence in all our dealings with our clients;
- Be responsible corporate citizens;
- Strive for perfection throughout the way;
- Strive to be a company which is a truly representative of the demographics of our country

A. CONSULTANT'S ORGANIZATION AND CORE BUSINESS

A.1. FIRM OVERVIEW

ASTRIK International Ltd is an experienced, privately owned Engineering Consulting Company with its office based in Kigali City of Kigali, Rwanda. Since its incorporation in January 2014, the Company has entered into partnerships with highly recognized International Organizations/Institutions, which operate at the forefront of technical excellence in developing transport and infrastructure solutions globally.

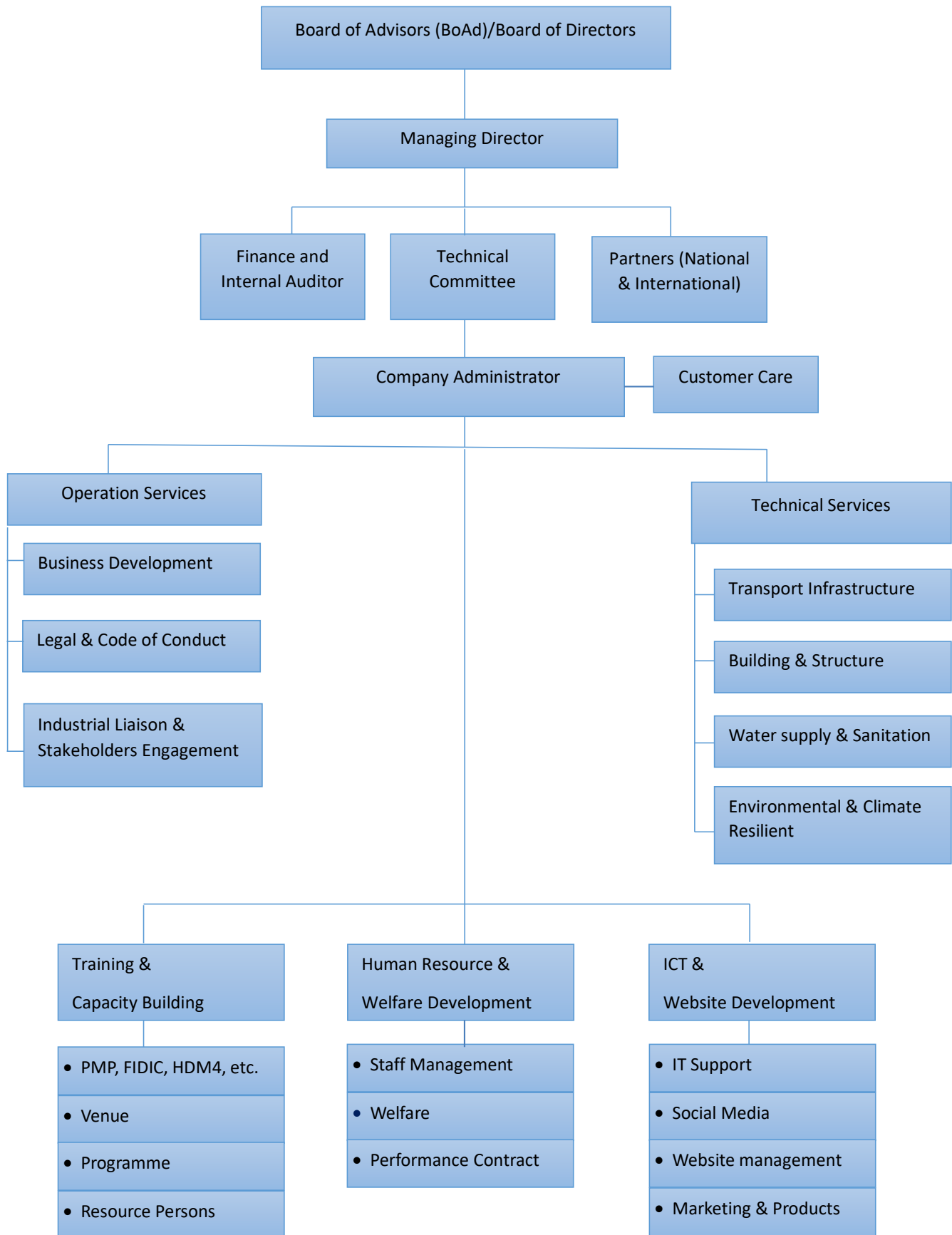
A.2. BRIEF DESCRIPTION OF FIRM'S EXPERIENCE

ASTRIK has been at service to different Clients/Employers in Rwanda and the Region and has successfully undertaken a different number of projects. The Staff are skilled in providing consulting services on Engineering infrastructure and operations, appropriate solutions which are sustainable and affordable to the public and private sectors as well as transfer of technological knowledge to the practitioners in Rwanda and beyond.

A.3. ASTRIK ORGANIZATION

The organisational set up of Astrik comprises: the Board of Adviser (BoAd/ Board of Directors (BoD) (to be appointed) which will be experts from different professional discipline appointed by Shareholder(s) members; the Technical Committee (TC) composed of Key head of department/ Managers; Finance and Internal Auditor comprised of Experts; Company Administrator/Executive Secretary; Operation services comprises of Business Development Department, Legal and Code of Conduct, Industrial Liaison and Stakeholder Engagement; Technical Services comprises of Transport Infrastructure, Building and Structures, Water supply and sanitation, Energy, Environment and Climate Resilient; Training comprises PMP, FIDIC, HDM4, Road Safety and Audit, Bitumen Techno, Pavement and Recycling Techno, Land stability, etc, Human Resource and Welfare, IT and Website management.

Improved Astrik Organization structure is presented in Figure below:



A.4. CORE COMPETENCE

ASTRIK's core competence in Engineering lie in providing highly qualified, team of experts both Nationals and International in delivering quality services by utilising best available resources.

Feasibility Studies

Reconnaissance Survey

Problem Identification, Stakeholder's consultation, preliminary studies and assessment of development potentials, formulation of development concepts, development strategies and scenarios, initial project appraisal, budgeting and programming of further investigations.

Field Investigations

Topographic survey, aerial photography (Drone technology) and mapping, meteorological and hydrological surveys, geological investigation and hydro-geological surveys, geophysical survey, materials survey, underground resources investigation, pedological survey, land use survey, land classification survey, transportation survey, traffic survey, demographic survey, socio-economic survey, marketing survey, Environmental assessment (Negative/positive) and Mitigation measures

Technical Detailed Design

Engineering detailed

Preliminary design, detailed engineering investigations and study, material tests, model tests, computer simulation, detailed engineering design, cost estimate, construction planning, preparation of prequalification documents, preparation of bills of quantities (BoQ) and technical specifications.

Tender Preparation and Assistance

Tender Documents and Tender assistance

Identification of appropriate Project Contract (FIDIC rainbow), determination of Particular Conditions, The use of National Procurement guideline, Assistance in tendering and contract negotiations and awarding

Rehabilitation, Upgrading and Construction

Monitoring and Supervision and Contract Management, devising Engineering Advice on Construction

Construction supervision and management, engineering advice on construction, inspection and testing.

Operation & Maintenance

Operation & Maintenance

Monitoring on performance, safety audit, Condition assessment (visual, mechanical, sampling, technical audit), modeling of operation, post-evaluation.

Maintenance

Determine deterioration model, providing maintenance strategies, budgeting using HDM4 program, devising appropriate maintenance technology including LBT/HIMO

Training/Capacity Building

Training, Manuals and Transfer of Technology

Preparation of tailor-made training modules, for the contract management under FIDIC, Project Management (PMP) pavement/Asphalt technology for rehabilitation, upgrading and construction, On-job capacity building/ transfer of technology for client's personnel, Contractor and Young Engineers/professionals

A.5. MAIN FIELD OF SPECIALIZATIONS

ASTRIK is specialised in providing engineering solutions across wide spectrum of disciplines (including the ones proposed by Clients).

Transportation

- **Infrastructure (road network** planning and design for National, Urban, Rural/Feeder)
- **Road safety system design** and Technical Audit
- **Traffic Survey, e-mobility, flow modelling /operation** including **non-motorised transport (NMT)/Green transport**
- **Hydraulic, hydrology design** including **geotechnical and landslide protections investigation and evaluation**
- **Transport policy** development and evaluation
- **Public transport** surveying and planning
- **Airport infrastructure** design (Runway, Apron, Taxiway and support infrastructure)

Water and Sanitation

- **Water resource investigation and development**
- **Water supply system planning, design and supervision** (National, Urban, Rural)
- **Liquid waste/Sewage system** planning, design and Treatment plant equipment, disposal and maintenance strategies
- **Solid Waste Disposal system**, transfer stations and dumping site
- **Urban road utilities installation** planning and maintenance management strategies

Building Service and Urbanization

- **Building Concept, Modeling Architectural Design**
- **Industrial building design and supervision**
- **Urban settlement** accessibility studies
- **Landscaping, greening design and supervision**
- **Urban Drainage system design and supervision**
- **Urban Parking design, signage's and street lighting**
- **Urban Master plan and settlement development/Real estate**

Irrigation and Dams

- **Wetland Irrigation and Drainage system design and supervision**
- **Soil stabilization, Dam/Dyke structure** planning, design and supervision
- **Wetland zoning** and piping installations and water supply
- **SMES development on irrigation management** system design and supervision
- **Dyke maintenance strategist** and Hydraulic modeling using generate flood profiles and flood scenarios

A.6. SERVICES

ASTRIK's Niche services offered in engineering fields include:

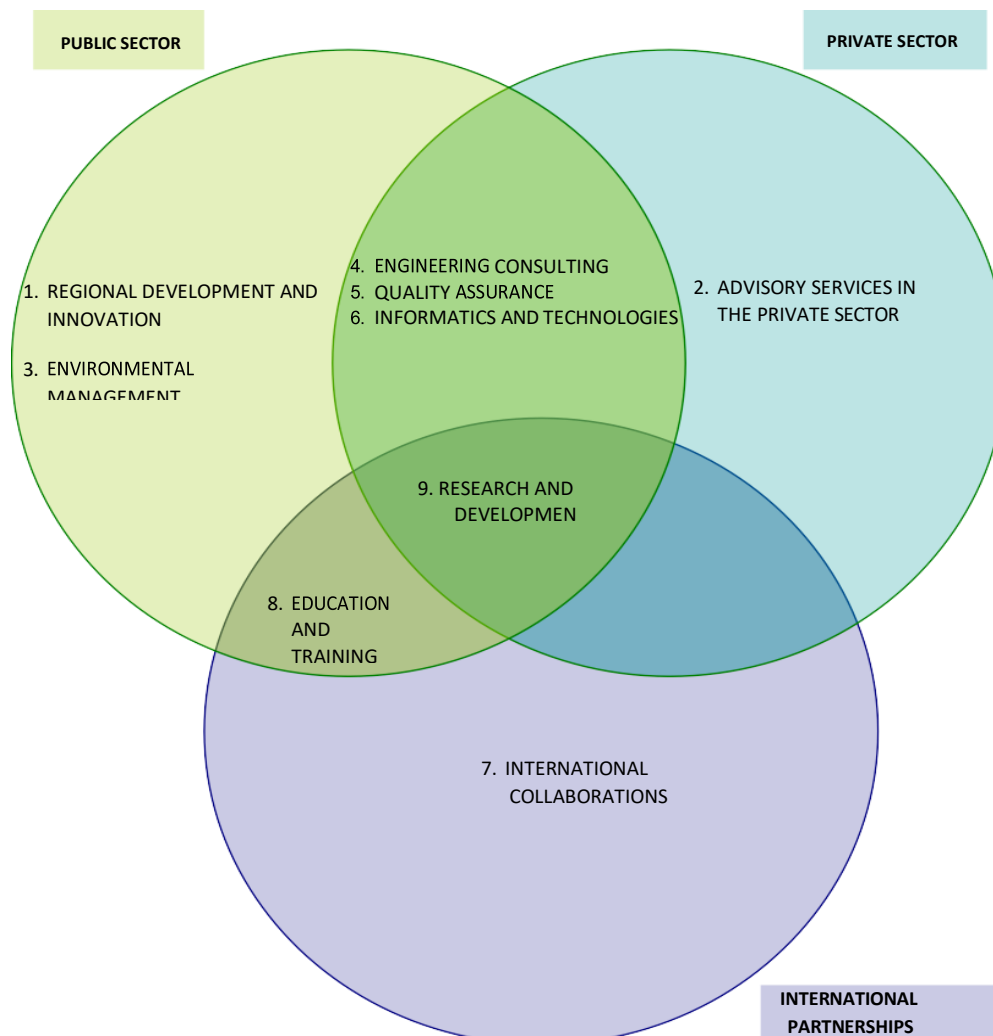
Management Services:

- Project Management planning, budgeting and life cycle strategies
- **Community facilitation on road maintenance**
- Construction Contract Management advisory

Training for Capacity Building:

- **On-job training on pavement technology**, (materials, recycling for rehabilitation, upgrading,) NMT, Lab and field testing
- **FIDIC conditions of contract** (red, yellow, green, silver and pink books)
- **Project Management for Professional (PMP)**
- **Labour Based Technology (LBT)** for Road maintenance, rehabilitation
- **Road safety and Technical Audit**
- Construction Equipment and Modern Technology

ASTRIK INTERNATIONAL Ltd offers scientifically qualitative and documented **advisory services** to both Government and non-Government Organizations at National and International level. The National Programs are divided between the Public and Private Sector. In the following drawing the coverings of services in these sectors appear.



A.7. MARKET SEGMENTS

The following figure presents Astrik's market segments:



A.8. ASTRIK REGISTRATION WITH PROFESSIONAL BODIES

- Registered as a Consulting Engineering firm with **Institution of Engineers Rwanda (IER) professional body**, Reg. no A005/REC/ECF/201.
- Registered with **Rwanda Public Procurement Authority (RPPA)**
- Registered as Capacity Building service provider with Rwanda Capacity Building Secretariat,
- Trainer's manager for **FIDIC contract Modules (rainbow suits)**

A.9. ASTRIK ANNUAL TURNOVER FOR THE LAST 7 YEARS

Fiscal Year	2015	2016	2017	2018	2019	2020	2021
Turn Over Equivalent ¹ (USD)	175,923.00	323,440	86,070.94	166,454.33	99,935	660,000	231,037.71
Current Assets ²	91,915.42	138,797	39,385.88	90,032.61	67,578	200,000	243,239.48
Current Liabilities ³	27,082.53	59,169	14,764.71	33,672.22	29,765	280,000	108,236.98

Notes:

¹The gross inflow of economic benefits (cash, receivables, other assets) generated from the ordinary operating activities of the ASTRIK (such as sales of goods, services, interest, royalties, and dividends) during the year.

²A balance sheet account that represents the value of all assets that are reasonably expected to be converted into cash within one year in the normal course of business. Current assets include cash, accounts receivable, inventory, marketable securities, prepaid expenses and other liquid assets that can be readily converted to cash.

³ASTRIK's debts or obligations that are due within one year. Current liabilities appear on the company's balance sheet and include short term debt, accounts payable, accrued liabilities and other debts.

A.10. ASTRIK PROFESSIONAL STAFF (PERMANENT AND MOU)

ASTRIK has recruited professionals who are permanent staff and other professionals have signed project-based Memorandum of Understanding with ASTRIK to provide their services as required by the Terms of Reference on any Particular Tender. The total number of available staff in ASTRIK for the professional services is 40 as indicated below:

<i>Field of Specialist</i>	<i>No. Professional</i>		<i>Registered Professional</i>
	<i>Engineer</i>	<i>Technologist/Technician</i>	
Road/Pavement/Material	4	6	IER
Geology/Geotechnical	3	6	IER
Hydraulic/Bridge	4		IER
Traffic/Road Safety	1		IRF
Transport Economics	1		IER
Architectural	2		RIA
Urban Planners	2		IER
Building/Structure	2		IER
Electrical	3	1	IER
Mechanical	2		IER
Plumber		1	N/A
Quantity Surveyor /Valuer	2		RIA
Topographic Surveyor	4		
Environmentalist	2		RAPEP
Sociologist	3		N/A
Irrigation	1		IER
Water and sanitation	1		IER
Legal Expert	1		RBA
Claim/ Contract Expert	1		IER
Procurement Specialist	1		
Total	40	14	

ASTRIK has established an understating with International Consulting Firms and Research Institutions to provide specialized technology skills in consulting services and providing backup to the National Professional Staff for project quality management.

A.11. ASTRIK QUALITY MANAGEMENT SYSTEM

We maintain the highest standards in consultancy services during all phases of the project management (i.e., feasibility, technical design, procurement, monitoring and supervision, performance and maintenance). We recommend appropriate solutions on *Rwandan Made* products which are technically sound and economical viable. We place our end-user first and perform stakeholder's consultations and improve services for Client satisfaction. The adopted Quality Management System comprises of a sustainable cycle with various input activities applied professionally by the ASTRIK Management.



A.12. CODE OF ETHICS FOR ENVIRONMENTAL, SOCIAL, HEALTH AND SAFETY

ASTRIK has extensive experience of managing assignments in accordance with rigorous **environmental, social, health and safety** requirements. The majority of the company's projects have been implemented within Rwanda which has a well-regulated environmental, social, labour, health and safety legislative framework.

The company has experience of working on **World Bank, AfDB** and **other donor financed assignments**, which also require that projects be implemented in accordance with strict health, safety and environmental procedures.

The company has developed a Code of Ethics for Environmental, Social, Health and Safety to be adhered to the Key and non-key Staff during carrying out of the assignment from planning, designing through to construction supervision and operation

B. PROJECTS DATASHEET

1. TRANSPORTATION CONSULTANCY SERVICES PERFORMED					
Area	Duration	Assignment name & brief description of the main deliverables	Name of Client & Country of Assignment	Approx. Contract Value	Role on the assignment
MASTER PLANS	Aug. 2019-Dec. 2022	Technical Assistance to Local Government (LODA) to all districts including City of Kigali on Urban planning, road and drainage infrastructure, building infrastructure (health Centre, markets, schools, offices, agriculture infrastructure for postharvest), Capacity building	Rwanda, LODA/KFW	EUR 4,000,000	JV Partner with GOPA
	Oct 2021	Scoping of urban Transport project, Urban Mobility Improvement to Support Infrastructure and Service in Kigali City	Rwanda, NK-JICA	USD 32,000	Sole Consultant
	July 2021	Introduction to Dedicated Bus Lane (DBL) for Kigali City	Rwanda, ITP-WB	USD 24,105	Sole Consultant
	Feb. 2014-Jul. 2014	Feasibility Study and Detailed Engineering Design for development of Urban Transport Master Plan (road, parking, NMT, Street lights, drainage) and Solid waste management and dumping sites for Nyamagabe District in Rwanda	Rwanda, GITECH	USD 23 000	Sole Consultant
FEASIBILITY STUDIES	May 2021-Feb. 2022	Feasibility and detailed study for the construction works of two roads in Karongi (49km) and Kirehe (71km) (Districts)	Rwanda, MINEMA/WB	USD 266,445	JV Partner with Beza Consulting Engineers PLC
	Feb. 2014-Jul. 2014	Feasibility Study and Detailed Engineering Design for development of Urban Transport Master Plan (road, parking, NMT, Street lights, drainage) and Solid waste management and dumping sites for Nyamagabe District in Rwanda	Rwanda, GITECH	USD 23 000	Sole Consultant
	May 2018-Mar. 2019	Feasibility and Detailed Engineering design for the selected roads (27.54Km) in the settlements in the City of Kigali (including ESAI and ESMP)	Rwanda, CoK	USD 81,522	JV Partner with GASABO 3D
	Oct 2021	Mobility Survey and Focus Group in Kigali under the study on Electric Last Mile Connectivity Options	Rwanda, EGIS-WB	USD 8,910	Sole Consultant
	Jul. 2018-Sept. 2018	Detailed data collection survey (feasibility study) for development of urban transport system in Kigali City (city mobility, NMT system)	Rwanda, NK/JICA	USD 75,800	Sub Consultant to NIPPON KOEI
	Jun. 2018-Aug. 2019	Traffic operation study and simulation for Nyabugogo bus station and Design of all Major intersections	Rwanda, CRBC/CoK	USD 45,000	Sole Consultant
DETAILED DESIGNS	Jan. 2019-May 2020	Technical study on the utilities operations, traffic mobility and the infrastructure condition in Kigali Special Economic zone (KSEZ) and development of maintenance strategies and costing for KSEZ phase I and Phase II	Rwanda, PEZ	USD 41,806	Sole Consultant
	May 2021-Feb. 2022	Feasibility study for the construction works of two roads in Karongi (49km) and Kirehe (71km) (Districts)	Rwanda, MINEMA/WB	USD 266,445	JV Partner with Beza Consulting Engineers PLC

	Feb. 2014-Jul. 2014	Feasibility Study and Detailed Engineering Design for development of Urban Transport Master Plan (road, parking, NMT, Street lights, drainage) and Solid waste management and dumping sites for Nyamagabe District in Rwanda	Rwanda, GITECH	USD 23 000	Sole Consultant
	Oct. 2016-Nov. 2019	Design review and Supervision for the Construction of Gabiro Airstrip (1200m runway, Taxiway, Apron and building facilities)	Rwanda, GASABO 3D/MoD	USD 276,664	JV Partner with GASABO 3D
	May 2018-Mar. 2019	Feasibility and Detailed Engineering design for the selected roads (27.54Km) in the settlements in the City of Kigali (including ESAI and ESMP)	Rwanda, CoK	USD 81,522	JV Partner with GASABO 3D
	May-July 2018	Technical study for data collection survey on Development of Urban Transport Services in Kigali City	Rwanda, JICA	USD 64 275	JV Partner with NIPPON KOEI
	March 2017- Dec 2017	Technical Study Review and Contract Management and Claim for Upgrading of Base-Rukomo-Nyagatare road, Phase I Base-Rukomo (51.54Km)	Rwanda, CHICO	USD 26 000	Sole Consultant
	May –June 2015	Detailed Design Review for the Rehabilitation of Kitabi-Crete Congo/Nil and Voiries Urbaines de Huye	Rwanda, CHICO/RTDA	USD 26,000	Sole Consultant
	Dec. 2019-Jan. 2023	Design Review and Supervision for rehabilitation, upgrading and multi-year maintenance of indicative feeder roads in the Districts of Rutsiro, Nyabihu and Gankenke (238km), including ESAI/ESMP and RAP)	Rwanda, RTDA/WB	USD 2,712,238	JV with Partner MARISWE Pty
	Dec. 2019-Jan. 2023	Design Review and Supervision for rehabilitation, upgrading and multi-year maintenance of indicative feeder roads in the Districts of Nyagatare, Gatsibo, Nyaruguru (210km) including ESAI/ESMP	Rwanda, RTDA/WB	USD 2,783,436	JV with MARISWE Pty
MANAGEMENT SERVICES	Dec. 2019-Jan. 2023	Design Review and Supervision for rehabilitation, upgrading and multi-year maintenance of indicative feeder roads in the Districts of Rutsiro, Nyabihu and Gankenke (238km), including ESAI/ESMP and RAP)	Rwanda, RTDA/WB	USD 2,712,238	JV with Partner MARISWE Pty
	Oct. 2016-Nov. 2019	Design review and Supervision for the Construction of Gabiro Airstrip (1200m runway, Taxiway, Apron and building facilities)	Rwanda, ASABO 3D/MoD	USD 276,664	JV Partner with GASABO 3D
	Dec. 2019-Jan. 2023	Design Review and Supervision for rehabilitation, upgrading and multi-year maintenance of indicative feeder roads in the Districts of Nyagatare, Gatsibo, Nyaruguru (210km) including ESAI/ESMP	Rwanda, RTDA/WB	USD 2,783,436	JV with MARISWE Pty
AUDITS	Sept 2016-Sept 2016	Technical Audit for completed upgrading and rehabilitation of the Kigali-Ruhengeri Road (83.1Km) including field and lab testing	Rwanda, CHICO/RTDA	USD 26,000	Sole Consultant
	Nov. 2016 – Sept. 2017	Technical Audit for the value for money on feeder roads rehabilitation (162.8Km) and maintenance (664.2Km) in five (5) Districts of Burera, Musanze, Gicumbi, Nyamasheke and Rusizi	Rwanda, KPMG	USD 10,080	Sole Consultant
2. CONSULTANCY SERVICES PERFORMED IN BUILDINGS AND URBANIZATION					

<i>Area</i>	<i>Duration</i>	<i>Assignment name & brief description of the main deliverables</i>	<i>Name of Client & Country of Assignment</i>	<i>Approx. Contract Value</i>	<i>Role on the assignment</i>
MASTER PLANS	Feb. 2019- July 2019	Technical Study for the topographic survey and Geotechnical study for the location of HIRAX sites in Musha and Kiziguro areas (Including infrastructure networks)	Rwanda, QLA-AIMS	USD 7,000	Sole Consultant
DETAILED DESIGNS	May 2017- Dec 2017	Detailed Architectural and Structural Design , Supervision and Contract Management of the Construction of Wood Factory, road and parking (9500m2) for JMG Contractor including ESAI and ESMP)	Rwanda, JMG Contractor	USD 43 000	Sole Consultant
	May 2017	Detailed Architectural and structural design for the rehabilitation and Equipping REB Video Theatre	Rwanda, REB	RWF 5, 841, 000	Sole Consultant
	Jan, 2016- June 2017	Detailed Engineering Design (Architectural and Structural Design), Supervision for the Construction of Storage Warehouse and Offices for Heart of Africa, Industrial Park Kampala. Including ESAI and ESMP)	Uganda, Africa Logistics Ltd	USD 63 000	Sole Consultant
	Aug-Sept 2016	Detailed Architectural interior design for the Wibura Audio-Visual Studio and proposition of the studio equipment	Rwanda, Wibura Company Ltd	RWF 8,300, 000	Sole Consultant
	Dec 2015- Jan 2016	Detailed developing a model Video Theatre to blended learning approach, the unmatched art-of- studio with the use of modern technologies for OMEGA Technology	Rwanda, OMEGA Technology Ltd	RWF 6,500,0 00	Sole Consultant
	June 2015- July, 2016	Detailed Architectural and structural design of the BUCLINO Audio-Visual Studio	Rwanda, BUCLINO Company Ltd	RWF 5,800, 000	Sole Consultant
	June-Sept 2014	Detailed design and construction supervision of overhead deck for car parking and Disco 10heatre at Villa Portfino Hotel, Nyarutarama	Rwanda, Villa Portfino Hotel	RWF 29,800 ,000	Sole Consultant
3. ENVIRONMENTAL CONSULTANCY SERVICES PERFORMED					
<i>Area</i>	<i>Duration</i>	<i>Assignment name & brief description of the main deliverables</i>	<i>Name of Client & Country of Assignment</i>	<i>Approx. Contract Value</i>	<i>Role on the assignment</i>
STUDIES AND SUPERVISION	Sep. 2018 - Sep. 2021	Detailed improved design and supervision for the construction of Nyandungu Wetland Eco-Tourism Park in Kigali City, including ESAI and ESMP)	Rwanda, REMA/FONER WA	USD 139,266	JV Partner with GASABO 3D
	April 2015	Feasibility study and detailed engineering and landscaping study of Nyandungu wetland eco-recreation park (134Ha), City of Kigali (including ESAI and ESMP)	Rwanda, REMA/FONER WA	USD 50,000	Sole Consultant
4. TRAININGS FOR CAPACITY BUILDING PROVIDED					

<i>Area</i>	<i>Duration</i>	<i>Assignment name & brief description of the main deliverables</i>	<i>Name of Client & Country of Assignment</i>	<i>Approx. Contract Value</i>	<i>Role on the assignment</i>
FIDIC CONTRACT PROCEDURE	13/09/2018 - 14/09/2018	Training on Contract Management FIDIC Contract (module 1) for the Construction Supervision	Rwanda, Construction Industry Practitioners	USD 22,880	In Partnership with FIDIC International
	March 2017	Training on Contract Management FIDIC Contract (module 1 and 2) for the Construction Supervision	Rwanda, Construction Industry Practitioners	USD 34,800	In Partnership with FIDIC International