

The logo for Signal One International, LLC features the word "Signal" in a black serif font, followed by "One" in a white sans-serif font inside a circular gradient that transitions from blue on the left to green on the right. Above the "One" is the acronym "SOI" in a small black sans-serif font. To the right of the circle, the word "International," is written in a black sans-serif font, followed by "LLC" in a smaller black sans-serif font.

Signal One International, LLC

Projects Proposed for The Republic of Angola

*A Team Approach for Innovative and Sustainable Development in
The Republic of Angola, Africa*

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Using Earth's Resources in Environmentally Sustainable Development
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**A Team Approach for Innovative and Sustainable Development in
The Republic of Angola, Africa**
Addressing the Interconnection of Economic, Environmental, and Social Variables

Prepared for: The Republic of Angola
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The following paragraphs are excerpts from The Executive Summary

Executive Summary

A Team Approach for Innovative and Sustainable Development in
The Republic of Angola, Africa
Addressing the Interconnection of Economic, Environmental, and Social Variables

Introduction

Economic and social growth of a nation is closely linked to the efficiency of its infrastructure. Signal One International, LLC (SOI) presents a way in which Angola can forward vital infrastructure development, maximize its natural resources, and generate sustainable revenue for the Angolan government.

Modern GIS technology, a state-of-the-art seaport complex & national carrier line, an oil refinery, a cutting edge LNG processing plant & terminal, and maritime security services -- all are vital to trade, productivity, growth and the improvement in living standards for the people of Angola. These technology-based infrastructure systems open the way for abundant opportunity and productivity for the Angolan people. Benefits of these infrastructure systems are not limited to the oil industry, but extend to all economic sectors. However, a sustainable path forward in modernization must also consider the interconnected balance of the economic, environmental, and social objectives of the nation and its people.

Some Material is Omitted

This pre-proposal outlines SOI's teaming approach to development and prosperity that is economically, environmentally, and socially sustainable. Our plan utilizes Angola's natural resource revenue for infrastructure development projects. The projects described in this summary are designed to help advance many of the goals outlined in Angola's strategic development plan, *Angola2025*, including: improved access to basic services, economic diversification, poverty reduction, gender equality, and equitable opportunity for all citizens. For example, implementation of our GIS project package provides fundamental infrastructure development that improves basic services for Angola's citizens. This GIS infrastructure development project benefits the oil industry as well as all non-oil economic and social sectors, including small to medium businesses and agriculture. As newly generated businesses expand, greater economic diversification and job creation can be actualized, thus alleviating poverty. The ongoing revenue generated by the GIS can fund other projects.

This summary outlines an action plan to advance economic, environmental, and social progress through infrastructure expansion projects that complement Angola's development objectives. The projects we propose: the revenue-generating GIS, the technologically advanced oil refinery, sophisticated seaport and vessels that will facilitate Angola's shipping and trade, the LNG plant & terminal, security, and connections to global markets - all combine to generate an expansion of overall productivity and prosperity for Angola.

SOI's Pre-Proposal Opportunity

SOI proposes an opportunity for innovative and sustainable development in Angola. This opportunity involves a team approach comprised of members from SOI, the IFC, and SOI²-Angola (see Partnering Team page 13). Our plan encompasses several essential infrastructure development projects aimed at

strengthening Angola's economy. Improving basic services for Angolans through GIS implementation will lead project development, followed by improving the refining, storage, and shipping of petroleum & LNG, establishing a national carrier line, and maritime and national security

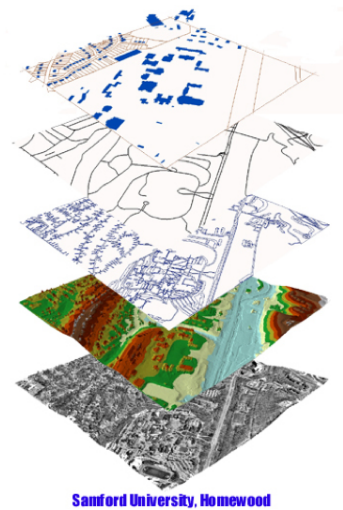
Proposed Infrastructure Projects

Initial projects include:

1. GIS Design and Development

Development and implementation of a GIS (Geographic Information System) will enable optimal analysis, planning for phase development, safety, security, and on-going decision-making. GIS is the preeminent planning tool in technology that supports the ability to plan in three dimensions. The GIS developed and implemented by SOI will support the administration of government in Angola with respect to planning across a number of sectors. SOI's GIS package can establish over 28 layers (collections of specific elements such as water, roads, waste management, etc.) of geographic information with their relational databases to provide an orderly approach to land use and development. Our GIS also provides the ability to syndicate use of the GIS for Angola's benefit.

This system not only generates revenue from land use tax collection, but from the provision of services such as water, electricity, gas, and toll roads. SOI's GIS system also offers different land titling opportunities for use by banks, and provides a number of different applications for use by cellular telephone networks, and 911 emergency calls. SOI is currently the only company specializing in the development of *revenue-generating* GIS programs, and our GIS system can be positioned not merely as a technological tool, but as a valuable profit center for Angola. We are able to integrate city and social services with GIS technology to establish an efficiently operating taxing system that provides on-going revenue for the Angolan government. SOI's GIS package will be designed for compatibility with the societal needs of Angola and provide numerous benefits in land registration.



The sustainability of a GIS program in Angola is made possible by the “for profit” and “revenue generating” attributes of the planned GIS operations. The resulting GIS revenue model provides for the necessary debt service and principal repayment requirements for proposed GIS development funding, to be provided by the IFC.

Some Material is Omitted

2. Oil Refinery with Storage Facilities

SOI's extensive experience in the oil and gas industry, combined with the IFC's sophisticated financing capabilities can provide state-of-the-art development of modern oil and gas infrastructure. Cutting edge improvements to update Angola's existing oil refinery, as well as construction of a new, modern oil refinery with storage facilities, will facilitate an increase the country's oil



production capacity to 200,000 barrels per day or better within approximately two years following project initiation.

The refinery will process Angola's light and medium-gravity sweet crude (with capacity to process heavy and acidic crudes) supplied by subsea pipelines to the refinery. Refined petroleum products production would include gasoline, diesel oil, kerosene, LPG, fuel oil, and naphtha, etc.

————— *Some Material is Omitted*

3. National Carrier Line (A) & Deep-water Seaport Complex (B)

A. Angola's growing export of petroleum, LNG, and other natural resource products necessitates a national carrier line with vessels to serve various import markets around the world. SOI will assist the government of Angola in establishing a national carrier line with ships sailing under the Angolan flag, carrying Angolan products, and adhering to trusted business practices that earn a reputation of integrity. Initial estimates for the carrier line would include approximately six vessels: two supertankers, three container ships, and one vessel for LNG. A national carrier line will bring greater marketing opportunities, flexible shipping capacity, and thus, improve profitability for Angola.



B. A modern, efficient seaport, from which the national carrier line will operate, is critical to Angola's future economic development. Our proposed deep-water seaport complex will utilize cutting edge technology in design and advanced engineering in operations and equipment to meet Angola's rapid economic development. The seaport's deep-water harbor and entry channel will accommodate the newest, Triple-E class vessels (Economy of scale, Efficiency, and Environment), ultrafast loading and unloading gantry cranes, warehouse facilities, and related seaport infrastructure with sophisticated land equipment including IT systems, and GIS.

Our design for the new seaport complex addresses many of the goals set forth in the *Angola2025* agenda. SOI will work closely with the Angolan government to ensure that Angola's seaport objectives are met and that the right development strategy is implemented for achievement of Angola's outlined objectives.

Thousands of direct and indirect jobs will be created, as the new port will require trained workers during various stages of construction and operation. The seaport will also facilitate the development of small business, larger-scale commercial and industrial development, and will promote desired agro-industry expansion and export. The port will be a significant hub for trade throughout the region as well as internationally, and will accommodate the increasing volume of cargo entering the country.

Single point offshore terminal facilities [Single Point Mooring (SPM)], will be established to provide both mooring and transferring of product to and from very large crude oil carriers (VLCC). SPM systems deliver significant cost advantages. 1) SPM's provide an instant port, as they can be installed in deeper waters without the need for construction of jetties, and 2) by relieving port congestion, SPM systems facilitate rapid turnaround of vessels.

Conclusion

With a dedicated, unified team of skilled specialists and a well-planned agenda for sustainable development, Angola's wealth of natural resources can provide funding for comprehensive infrastructure expansion and improved living standards for its people. Development of GIS, an oil refinery, a national carrier line & seaport, and maritime security, as well as an LNG plant and terminal, will enable sustained progress. Angola's natural resources can supply the required guarantee that enables the IFC to underwrite funding for large infrastructure projects.

Our teaming approach for progress in Angola offers:

- An organized plan for large infrastructure development proven in nearby African countries and other developing countries throughout the world [Dakar (toll road) and Lome, Togo (seaport and power plant)].
- Projects underwritten by the IFC, a member of the World Bank Group and whose bond issues have been given a rating of AAA (Triple A) by Standard and Poor's and Moody's.
- Contractors and technicians carefully screened for quality and integrity.
- Projects designed for economic, environmental, and social sustainability.

Our team offers an effective, proven plan for infrastructure development and microcredit services that bring meaningful improvement to communities. Such an agenda is the foundation for increased productive capacity for Angolans and sustained economic prosperity for The Republic of Angola.

