

**ENVIRONMENTAL AND
SOCIAL MANAGEMENT**



**Diverse Expertise.
One Common Vision.**





We are Norda Stelo

In an ever-changing world, we serve as a proactive partner invested in the delivery of engineering consulting and construction projects since 1963. Deeply committed, we are the first major B Corp certified engineering firm in Canada, which underscores our desire to operate with a focus on the common good. Privately held by employee shareholders, our head office is located in Quebec and we carry out projects in some 50 countries.

Innovation and Sustainability at the Heart of Every Initiative

Whether dealing with new or existing facilities, Norda Stelo mobilizes collective ingenuity, and fosters innovation and sustainability. This capacity stems mainly from our distinctive expertise in long-term partnerships as well as brownfield engineering. Norda Stelo brings an integrated approach to the durability of static and dynamic assets, with sound practices to avoid their early replacement, optimize their operation, and thus reduce their environmental footprint.

In addition, we deliver comprehensive solutions that improve environmental performance and productivity. Norda Stelo is your partner of choice to address the unavoidable challenges that require a holistic, effective, and sustainable transformation.

Mobilizing our collective intelligence towards the sustainability of our partners' assets, our communities and the planet.

- Our Vision

Driving engineering through innovation. Together. Sustainably.

- Our Mission

Partners in Ongoing Innovation

Our Expertise

In a constantly changing world, we are a proactive and committed collaborator in the realization of consulting engineering and environmental projects.

We have been active on the international scene since 1977, developing a highly specialized expertise in Africa, Latin America, Asia and Europe. We have a track record of over 300 projects completed in the fields of environmental and natural resources management, infrastructure, transportation and industrial processes. We are specialized in the implementation of integrated projects with a sustainable vision, which implies a responsible management and a design that meets the latest standards and users' needs.

We have developed a wide network of partnerships with several local firms all over the world (Africa, Latin America, Europe and Asia) with proven track record of successful working relationships. Our success lies on our ability to meet client demands, by delivering quality services and innovative solutions, and our commitment to comply with local conditions.

" We strive to improving the quality of life by protecting human health, preserving the environment, promoting optimal use of resources and advancing long-term economic competitiveness. "

African Experience



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OUR EXPERTISE

Norda Stelo is proud of its uninterrupted presence in Africa since 1977. We have completed more than 200 projects completed in 31 Sub-Saharan Africa countries. In the recent years, we have been involved in projects located in Benin, Burkina Faso, Cameroon, Cote d'Ivoire, Liberia, Madagascar, Mauritania, Morocco, Niger, Togo and Tunisia.



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Services for Financing Institutions

Our activities comply with the strictest industry standards, whether in terms of applicable environmental laws and regulations or international best practices in social acceptability and environmental management.

Our experienced team of experts support our clients in carrying out environmental studies, obtaining relevant permits and authorizations, and implementing the environmental management of infrastructure projects.

Our Services

- / Technical and environmental due diligence
- / Independent engineer/ Implementation oversight
- / Review and advice, over the duration of the complete project cycle (pre-construction, construction, commissioning, defects liability period and close-out), for the financial, legal, technical, environmental and social components of the projects.
- / Approach based on the prevalent international norms and standards such as Project Management Institute's (PMI) Standards, IFC Performance Standards, and FIDIC Contracts.

Norda Stelo has conducted due diligence/independent engineer assignments for investments valued at close to \$4,5B USD.



Specialized Services in Environment

Our diversified expertise enables us to provide a precise and effective response to the specific needs of each client, through a wide range of services.

Environmental Studies

- / Assessment of environmental effects
- / Environment and social scoping study
- / Environmental and Social Impact Assessment (ESIA)
- / Comparative analysis of project and route options
- / Toxicological and ecotoxicological risk analysis
- / Hydrological and geomorphological studies
- / Strategic environmental and social study
- / Cumulative effect evaluation

Environmental and Social Management

- / Environmental management plans
- / Environmental and social monitoring

Contaminated Lands Management

- / Evaluation and characterization of contaminated sites
- / Management procedure for contaminated soils and water
- / Development of scenarios and estimation of rehabilitation costs

Human Environment and Community Relations

- / Stakeholder analysis and community relations
- / Characterization of human environment and land use
- / Socio-economic study
- / Public consultation support
- / Resettlement

Air

- / Air quality and dust emissions monitoring
- / Atmospheric emissions management and modeling
- / Quantification of greenhouse gases
- / Preparation of grant application for the eperformance energy transition program

Water Monitoring and Management

- / Surface water, stormwater and groundwater quality monitoring
- / Development and set up of groundwater observation wells
- / Groundwater vulnerability analysis
- / Monitoring the quality of domestic and industrial effluent



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Fish Habitat, Wetlands and Biodiversity

- / Baseline conditions and monitoring
- / Compensation of fish habitat and wetlands
- / Special status species (e.g. species at risk according to the SARA)
- / Natural resources and biodiversity management
- / Development of wildlife crossings

Others Services

- / 3D modeling by photogrammetry
- / Drone surveys (advanced certificate)
- / Geographic information systems

Taking Responsibility

We sincerely believe that we are part of the solution to the climate and social challenges of our time.

" Norda Stelo is helping industry decarbonize its operations in a cost-effective manner and support achievement of their 'net zero' goals including through ensuring superior asset performance. We also are enabling the energy transition through providing infrastructures (bridges, roads, coastal lines, etc.) that are climate resilient and incorporate new energy technologies for low carbon transportation. Through our consulting services we help our clients understand and improve their ESG performance and help make the best decisions possible prior to supporting execution. "

– Matt McCulloch,
Director ESG and Decarbonization

Our Solutions

The solutions developed at Norda Stelo bring together the expertise necessary to meet the major challenges of our time and thus offer turnkey support to our clients.

Asset Durability

Reducing the carbon footprint by intelligently extending the life of physical assets while managing risk.

ESG and Decarbonization

Helping clients become carbon neutral faster, while maximizing their ESG performance.

Energy Transition

Reduce greenhouse gas emissions, combat climate change, and create a more sustainable and resilient energy system.

Digital Transformation

Improve productivity, reduce costs, increase efficiency, enhance safety through technologies, automation and connected systems.



Innovative products

Norda Stelo's experts develop cutting-edge technological products. Stellar, the first product to be developed and marketed, has become the essential decision-making tool for any asset manager.

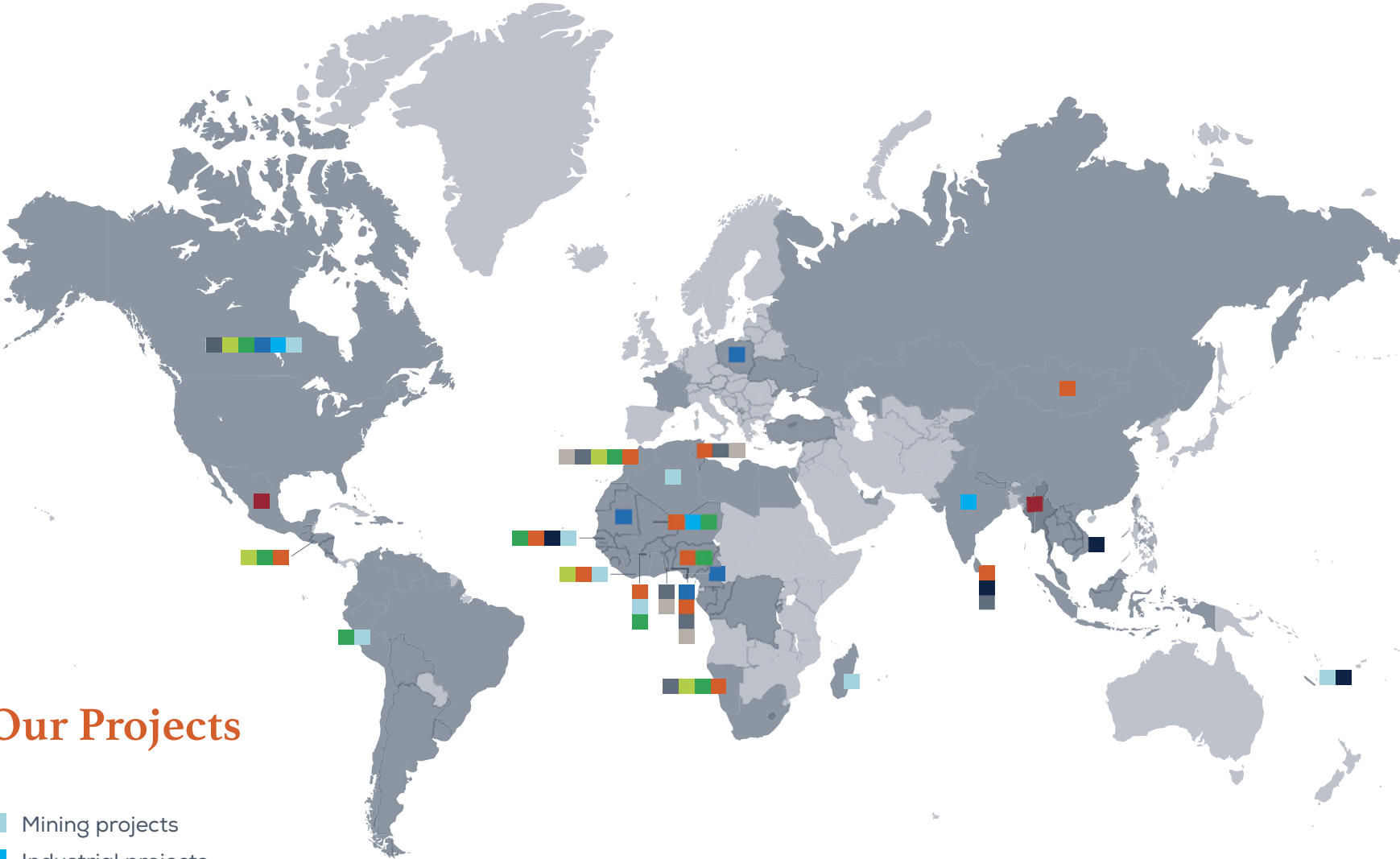


Push Decision-Making Forward

A powerful tool that combines human knowledge and data intelligence.

DISCOVER STELAR.AI





Our Projects

- Mining projects
- Industrial projects
- Port and marine projects
- Water resource management projects
- Natural resource and biodiversity management projects
- Technical, environmental and social due diligence
- Roads projects
- Buildings
- Industrial Parks
- Special Economic Zones

Knowing. Doing. Innovating.

Sample Projects Environmental and Social Management



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Algeria

Client: Ministry of Industry and Mines
Project cost: 340k USD

Environmental assessment
of the mining sector.

Benin

Client: MCA-Benin
Project cost: 720k USD

Environmental studies for the
Cotonou port expansion project.

Benin

**Client: Ministry of Housing,
Urban Planning and Erosion Control,**
Project cost: 6.4 M USD

Management and supervision of
coastal protection works at Cotonou.

Benin

**Client: Petrolin Group, Switzerland/
Pic Network Ltd, Benin, Project cost: 900
M USD**

Preliminary Design and ESIA
for the construction of a deep
water port in Sèmè-Podji.

Benin

Client: Confidential
Project cost: 850k USD

Environmental studies for an oil
exploration campaign in Sèmè-Podji.

Burkina Faso

Client: MCC
Project cost: 480 M USD

Independent engineering services
(technical, environmental and
social due diligence) for road and
hydro-agricultural projects.

Cote d'Ivoire

Client: Confidential
Project cost: 163 M USD

Independent environmental and social
compliance reviews of a port.

Cote d'Ivoire

**Client: Ministry of Environment, Urban
Sanitation and Sustainable Development**
Project cost: 45k USD

Preliminary coastal protection
studies at Lahou Beach.

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Guinea

Client: Ministry of Mines and Geology
Project cost: 365k USD

Study of the cumulative impacts of mining projects in the Boké region.

Liberia

Client: Ministry of Public Works
Project cost: 15 M USD

Management and supervision of the construction of a new jetty at the Port of Monrovia.

Mali

Client: Niger River Basin Agency
Project cost: 715k USD

Environmental and Social Safeguard Studies.

Mexico

Client: Canadian International Development Agency
Project cost: 4 M USD

Pre-feasibility study for the integrated development of hydrographic basins of the Federal District of Mexico.

Mauritania

Client: Ministry of Fisheries and Maritime Economy
Project cost: 56M USD

Technical and environmental studies for the construction of a fishing port at Tanit.

New Caledonia

Client: Falconbridge Inc.
Project cost: 8.2 M USD

Environmental and social impact study of the Koniambo Mining Project.

New-Caledonia

Client: French Development Agency
Project cost: 130k USD

Development of a sanitation master plan.

Niger and Benin

Client: MCC
Project cost: 5.2 M USD

Support to the Regional Integration Compact Development and Implementation: technical, environmental and social due diligence.

Niger

Client: Ministry of Planning
Project cost: 356k USD

Strategic environmental assessment of the extractive industries sector.

Salvador

Client: MCC
Project cost: 470 M USD

Independent engineering services (technical, environmental and social due diligence) for water, energy, transportation and community infrastructure program.

Senegal

Client: AGETIP
Project cost: 130k USD

Supervision of coastal protection works at Diokoul.

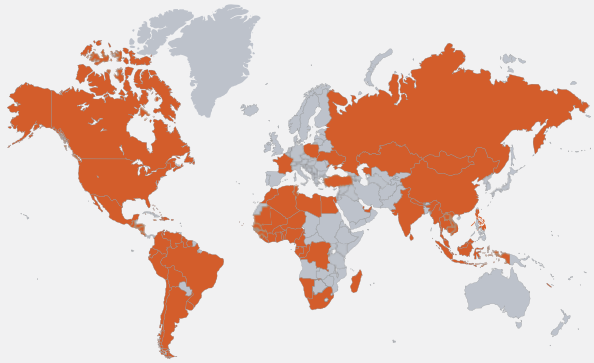




Some of our Clients

Norda Stelo aims to develop lasting partnerships based on trust. To do this, we develop thematic expertise and train our teams to meet the needs and constraints of each client and each project. The success of our many large-scale partnerships with several major clients is a testament to this. Thanks to long-term partnerships, Norda Stelo carries out Brownfield and Greenfield engineering projects to support its clients and accompany them throughout the life cycle of their project.





Norda Stelo

16
Offices

+700
Professionals

8
Business Sectors

- / Energy
- / Manufacturing and Processing
- / Railways
- / Mining and Metals
- / Ports
- / Roads
- / Public Transit
- / Foreign Markets

Our Commitments

Sustainable Practices

Incorporate notions of positive impacts on our stakeholders and contribute to the development, consolidation and promotion of a culture of social responsibility (CSR) within the organization.

By being certified by B Corp, we demonstrate that we meet the highest standards of social and environmental impact, ethical governance and public transparency.

Ethics and Integrity

Ensure to uphold the highest standards of ethics and integrity.

Quality

Provide our clients skilled resources, ongoing search for the most effective solutions, and rigorous control over their projects.

Health and Safety

Work to be recognized in the industry as the top firm when it comes to integrating sound occupational health and safety management.

Our Values

Adaptability
Excellence
Innovation

Integrity
Respect
Trust





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