



APOGEE GEOSPATIAL

Unlock the power of geospatial information for informed decision-making and harmonious, sustainable growth...

1. WHO WE ARE

Apogee Geospatial, operating under the brand APOGEO, is a pan-African geospatial advisory and technical firm established in 2023, with offices in Lomé, Togo and Ouagadougou, Burkina Faso. APOGEO is dedicated to strengthening geodetic infrastructure, modernising national mapping systems, enhancing border governance, and supporting sustainable territorial development across Africa.

Though recently established, APOGEO brings together high-level institutional expertise and strong technical execution capacity built by its founder and a network of senior geospatial professionals. APOGEO bridges the gap between high-level political mandates and the technical systems required to achieve them.

APOGEO supports governments, regional organisations, and development partners in designing and implementing robust, scalable geospatial systems aligned with continental and global standards.

APOGEO positions itself as:

- **An institutional advisory firm** with deep governance understanding
- **A geodetic infrastructure specialist** with continental reach
- **A border governance expert** supporting territorial integrity
- **A national mapping modernisation partner** driving digital transformation
- **A development-partner-ready consultancy** aligned with international frameworks

Apogee Geospatial is a new and ambitious geospatial firm powered by seasoned professionals whose expertise has been shaped through more than twenty years of engagement with national agencies, regional institutions and international organizations. This blend of proven individual experience and entrepreneurial drive allows us to offer clients the responsiveness of a dedicated partner together with the insight and professionalism expected from experienced practitioners.

We believe that trust is earned through competence, integrity and results. As we build our own institutional track record, we are committed to delivering innovative, reliable and impactful geospatial solutions and to forging long-term partnerships that contribute to sustainable development and digital transformation across Africa and beyond.

2. OUR VISION

To become a leading African advisory and technical firm in geodetic infrastructure, geospatial governance, and integrated territorial development, recognised across the continent and by international development partners for excellence, integrity, and impact.

3. OUR MISSION

To support African governments, regional institutions, and development partners in building sustainable geodetic foundations, modern mapping systems, integrated border governance frameworks, and data-driven territorial development strategies that enable informed decision-making and long-term resilience.

4. OUR STRATEGIC POSITIONING

APOGEO is not a conventional GIS services provider. It is a strategic geospatial advisory firm operating at institutional, national, and regional levels, delivering:

- **Policy-level advisory & Institutional reform support**
- **Technical system design**
- **Infrastructure deployment supervision**
- **Capacity development**
- **Strategic planning and master plans**
- **High-level technical negotiations support**

APOGEO's interventions align with the major continental and global frameworks that govern geospatial development such as AU Agenda 2063 and all AU strategies and policies, UN Sustainable Development Goals (SDGs), UN-GGIM Africa's Action Plan

5. OUR CORE AREAS OF EXPERTISE

APOGEO's service portfolio is organised around four strategic pillars, each addressing a critical dimension of Africa's geospatial development agenda. These pillars are mutually reinforcing and APOGEO's integrated approach across them is a defining strength.

Pillar 1: Geodetic and Reference Infrastructure

APOGEO provides high-level advisory and technical services in geodetic infrastructure development, including:

- Design and densification of national geodetic networks
- Planning and deployment of CORS networks
- GNSS system design and supervision
- Reference system harmonisation and migration
- Vertical datum establishment and levelling network rehabilitation
- Integration into AFREF and IGS frameworks
- Technical specifications drafting (ToR)
- Tender evaluation and procurement supervision

APOGEO supports governments in establishing the foundational infrastructure required for reliable mapping, land administration, infrastructure development, and national security.

Pillar 2: Integrated Border Governance

APOGEO delivers specialised advisory services in boundary delimitation, demarcation, reaffirmation, and integrated border management. Our services include:

- Technical support to Joint Boundary Commissions
- Satellite-based boundary demarcation methodologies
- Budget evaluation and cost modelling for border programmes
- GIS for border monitoring and cross-border planning
- Capacity building for national boundary institutions

- Policy advisory on integrated border governance
- Support in preparation of technical documentation for international dispute mechanisms

APOGEO contributes to strengthening territorial integrity, cross-border cooperation, and geospatial security frameworks.

Pillar 3: National Mapping and Geospatial Modernisation

APOGEO supports National Mapping Organisations (NMOs) and geospatial agencies in institutional and technical transformation, including:

- National mapping master plans
- Production chain modernisation
- Map standard development
- Satellite imagery acquisition strategies
- Technical specification development for large-scale mapping
- Monitoring of donor-funded geospatial projects
- Institutional reform and restructuring advisory
- Development of geospatial governance frameworks

APOGEO assists countries in transitioning from legacy cartographic systems to modern, digital, interoperable geospatial ecosystems.

Pillar 4: Land Administration and Territorial Development

APOGEO integrates geospatial technologies into sustainable territorial management, including:

- Land-use planning frameworks
- Digital cadastre design
- Infrastructure mapping and GIS systems
- Natural resource monitoring
- Urban expansion and land regularisation support
- GIS for public infrastructure management
- Local development planning support
- Spatial decision-support systems
- Urban addressing systems, street naming, and geospatial numbering frameworks

APOGEO's approach combines technical rigour with governance-sensitive implementation.

6. OUR SERVICES

Across its four pillars, APOGEO provides the following categories of service:

Strategic Advisory

- Policy development
- Institutional diagnostics
- Reform roadmaps
- Regulatory framework drafting

Technical Design and Implementation

- Infrastructure planning
- System architecture
- Network deployment supervision

- Quality assurance and control

Project Cycle Management and Advisory

- Terms of Reference (ToR) drafting
- Technical specifications
- Bid evaluation participation
- Donor-compliant documentation

Capacity Development

- Executive-level training
- Technical workshops
- On-demand institutional training
- Curriculum development

Representation and Partnerships

- Representation of geospatial technologies and standards
- Technical partnerships with regional and international bodies
- International coordination support

7. OUR APPROACH

APOGEO operates through a consistent methodology that prioritises sustainable outcomes over short-term outputs:

- **Institutional understanding:** analysing governance structures and mandates before any technical intervention
- **Standards alignment:** ensuring compliance with continental and global frameworks throughout every assignment
- **Sustainability focus:** building long-term national capacity rather than creating dependency on external expertise
- **Knowledge transfer:** ensuring local ownership of systems, tools, and methodologies
- **Multi-stakeholder coordination:** bridging technical experts, policymakers, and development partners

8. RESOURCE MOBILISATION

APOGEO is structured to respond flexibly to complex, multi-disciplinary mandates. For assignments requiring specialised expertise beyond its core team, APOGEO mobilises resources through the **Apogeo Senior Geospatial Experts Pool (ASGEP)**, a curated, on-call network of senior African and international geospatial professionals.

ASGEP allows APOGEO to rapidly compose project teams matched precisely to the technical profile required by each assignment — drawing on pre-vetted experts in geodesy, boundary governance, national mapping, land administration, GIS, remote sensing, international law, and related disciplines. Pool members are mobilised under short-term consultancy agreements on a case-by-case basis, enabling APOGEO to scale seamlessly from a lean advisory firm to a fully staffed project unit without compromising quality or speed of delivery.

This mechanism means that clients and development partners working with APOGEO benefit not only from the firm's institutional leadership and technical core, but from a deep, flexible bench of verified senior expertise available across the full spectrum of geospatial domains.

Full details on ASGEP's structure, membership categories, thematic areas, and operating principles are set out in the **ASGEP Concept Note**, available as a companion document to this profile.

9. LEADERSHIP

Founder and Chief Executive Officer

Surv. Abdoulaye BÉLEM, Surveying Engineer and geospatial information management specialist, is the founder and Chief Executive Officer of APOGEO. He brings more than twenty years of professional experience spanning technical geodesy, national geospatial infrastructure development, international boundary governance, and geospatial policy reform at national, regional, and continental levels.

Prior to founding APOGEO, Mr. Bélem held a series of senior institutional roles that established him as one of Africa's foremost geospatial experts:

- **Director General, Institut Géographique du Burkina (IGB), 2014–2018:** led the institutional modernisation of Burkina Faso's national mapping agency, including strategic planning, technical infrastructure investment, and international partnerships.
- **Deputy Executive Director, AFRIGIST (African Regional Institute for Geospatial Information Science and Technology):** contributed to the governance and programmes of the continent's premier geospatial training institution.
- **First Vice-President of the Executive Board, UN-GGIM: Africa:** served at the highest governance level of the continent's principal intergovernmental body for geospatial information management.
- **Rapporteur, UN-GGIM Global Bureau:** represented Africa's geospatial agenda at the global level within the United Nations framework.
- **Technical contributions:** active involvement in the African Geodetic Reference Frame (AFREF), the UN Global Geodetic Reference Frame (GGRF), GNSS/CORS network development, and international boundary delimitation and demarcation missions across Africa.
- **Development partner experience:** direct engagement in projects funded by the African Development Bank (AfDB), the Millennium Challenge Corporation (MCC), the European Union, JICA, GIZ, and UNDP.

It is this depth of personal experience — accumulated over more than two decades — that Mr. Bélem brings to APOGEO's leadership and to every client engagement. APOGEO as an institution is young; the expertise it channels is not.

10. WHY APOGEO?

APOGEO occupies a distinctive position in the African geospatial advisory landscape. Several factors set it apart:

- **Exclusive African focus:** APOGEO works only in Africa, only in the geospatial domain. It is not a global generalist firm with an Africa desk, but a firm built from within the African institutional context, with full regional literacy and deep knowledge of the continent's regulatory, political, and development landscape.
- **Institutional depth:** The expertise at APOGEO's core has been formed at the helm of national and regional geospatial institutions. APOGEO understands how these institutions actually work — their constraints, their dynamics, and how to achieve lasting results within them.
- **Technical and policy integration:** APOGEO integrates technical rigour with policy and governance expertise. It can simultaneously advise on a geodetic network architecture and draft the legal framework for its management, or conduct a boundary assessment and advise on joint commission governance.
- **Flexible expert capacity:** Through ASGEP, APOGEO can staff any assignment with the right combination of senior, pre-vetted experts matched to the specific requirements of each mandate, rapidly and at international quality standards.

- **Bilingual proficiency:** APOGEO operates with full professional fluency in English and French, the two principal working languages of African geospatial institutions and development partners. Portuguese-language engagement is also supported.
- **Development partner alignment:** APOGEO's team understands the procurement rules, reporting formats, results frameworks, and institutional cultures of major development partners, reducing the administrative burden and risk for clients.

11. OUR VALUES

- **Excellence:** delivering superior technical solutions that meet and exceed client expectations and international standards.
- **African Leadership:** championing African expertise in global geospatial initiatives and continental development agendas.
- **Innovation:** leveraging cutting-edge technologies and methodologies to address complex territorial and governance challenges.
- **Integrity:** maintaining the highest ethical standards in all professional engagements and partnerships.
- **Sustainability:** building lasting institutional capacity and ensuring knowledge transfer for long-term impact.

12. OUR COMMITMENT

APOGEO is committed to:

- **Transparent project delivery** with clear milestones and regular progress reporting
- **Capacity building** that ensures sustainable local ownership of implemented systems
- **Continental integration** through alignment with African Union frameworks and regional initiatives
- **Global standards compliance** while respecting local contexts and governance structures
- **Partnership** that values long-term collaboration over transactional engagement

13. CONTACT

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