Power Portfolio

GIS, remote sensing, photogrammetry and data management technologies to derive insight from location information
Across myriad industries, digitalisation is transforming the way business is done and decisions are made, and in this time of uncertainty around the world, dealing with this transformation can be daunting.

**Governments** need to maintain safe communities, deliver effective services and manage critical infrastructure, all while engaging transparently with citizens.

**Transportation** agencies are dealing with challenges of aging infrastructure, improving safety, increasing traffic and freight and decreasing budgets.

**Defence** organisations need to stay ahead of threats. More and better information is key, but making the best use of mission-critical data can be a challenge.

**Utility** companies must handle sudden disruptions, provide prompt information to their customers and monitor network infrastructure both above and below ground.

Is it possible to save both time and money, leverage existing data investments and improve your analysis capabilities? Yes, it is.

Our **Power Portfolio** enables you to understand change and derive information you require to make mission- and business-critical decisions. With creative and intuitive interfaces, smart workflows and automated technologies, the Power Portfolio enables you to transform multi-source content into actionable information. It allows you to:

- Harness data production and big data management
- Customise and easily interpret geospatial analytics
- Deliver context and industry-specific information through the cloud to the online, digital and mobile world
What is the Power Portfolio?

The Power Portfolio combines the best photogrammetry, remote sensing, GIS and cartography technologies available. They help organisations collect, process, analyse and understand geospatial data; organise geospatial and business data into centralised libraries for easy sharing; and deliver information through web and mobile applications – including through custom apps and solutions.

Flowing seamlessly from the desktop to server-based solutions, these technologies specialise in data organisation, automated geoprocessing, spatial data infrastructure, workflow optimisation, web editing, and web mapping. With this united approach, you are able to see the big picture and make sense of all the change.

Who is it for?

- Imagery analysis and mapping for defence organisations
- City planners, police and fire departments, emergency services
- City officials can share information, maps and more with the public in an online database
- Field crews who need remote access to their organisations’ GIS
- National mapping agencies and map production agencies
- Safety analysis and traffic tracking for transportation agencies
- Traffic light and bridge inspection for transportation authorities
- Network inspectors in utility companies
- Project tracking, work scheduling in utility companies
- Pole or vegetation inspection for utilities or public works
- Cell or mobile tower site inspection for communications companies
- Forest monitoring for fires, tree health and wildlife

We know and understand that every business has different needs, and so we provide the flexibility for you to hone in on the tools you require.
GIS, remote sensing and photogrammetry

Our desktop-based GIS, remote sensing and photogrammetry offerings to help you:

- Process large quantities of raw spatial information
- Unearth insightful information from imagery, terrain, radar and LiDAR data sources
- Create, update and analyse valuable geospatial information
- Deliver dynamic analysis and mapping products

GIS

Our complete geographic information system (GIS) package is a flexible solution for creating, updating, managing, and analysing your organisation’s valuable geospatial information. Highly specialised functionality makes it ideal for extracting information from an array of ever-changing data. With our GIS products, you can:

- **Generate** and update vector layers, perform dynamic spatial analysis and reports, and automatically create and update maps while managing data and map production more efficiently
- **Exploit** the power of your corporate database with support for extensive native spatial datatypes, and with no middleware required
- **Leverage** a high degree of performance while reliably meeting your demands through our flexible architecture
Photogrammetry

Connect large quantities of raw spatial information to locations on the earth’s surface, and transform that data into actionable formats with our photogrammetry products, which allow you to:

- **Collect** and **update** features for your enterprise GIS using photogrammetric techniques
- **Employ** a single, seamless, process-driven workflow for triangulation, terrain generation and editing, ortho-mosaic creation, and 3D feature extraction
- **Leverage** our photogrammetric expertise with extensions for real stereo visualisation and precise 3D feature and terrain collection within other geospatial environments (such as MicroStation, Esri and more)

Remote sensing

Deploy the world’s most widely used remote sensing software solution, combining imagery, terrain, radar and point cloud data sources to extract rich information that cannot be detected through visual inspection alone. Our remote sensing software enables you to:

- **Create** remarkable value-added products seamlessly and simply through automated and wizard-driven workflows
- **Combine** our next-generation Spatial Modeler with your ingenuity and greatly expand your problem-solving capabilities
- **Optimise** your hardware investment by distributing batch processes across a network of computers, saving time and money

Utility organisations use GeoMedia to better plan, operate and manage assets using geospatial intelligence and smart workflows.

Power Portfolio

- **GIS**
  - GeoMedia
- **Remote sensing**
  - ERDAS IMAGINE
  - ERDAS ER Mapper
- **Photogrammetry**
  - ImageStation
  - IMAGINE Photogrammetry
  - ERDAS Extensions for ArcGIS
Data management and compression

Manage and deliver your data to others. Our data management and compression solutions allow you to:

- Organise file-based, database and web-enabled geospatial and business data into a centralised library
- Distribute data from the cloud or on-premises across desktop, web and mobile applications
- Proliferate geospatial data within and across large, disparate organisations
- Optimise disk space requirements, reducing total cost of ownership
Data management
Organise vast amounts of distributed geospatial and business data into a centralised and comprehensive human-readable library. With our data management solution, you can:

- **Provide** a central data repository for all geospatial and business data while minimising infrastructure needs
- **Enable** complex searches of assets against rich metadata
- **Distribute** massive amounts of data to thousands of users efficiently and quickly, in a variety of delivery protocols
- **Empower** your end-users to create value-added data products, so they can make sense of change

Compression
Alleviate pressures associated with expanding imagery data holdings and the requirements of an increasingly demanding and diverse user base. Our proprietary Enhanced Compression Wavelet (ECW) file format is the best in the business, and our industry-leading ISO JPEG200 support satisfies all geospatial image compression needs. With our compression products, you can:

- **Capitalise** on the fastest, lowest-load and lowest-cost image compression and decompression available on the market today
- **Deploy** a visually lossless file format that can curtail disk space requirements by up to 95%
- **Reduce** the cost of storage and associated management tasks through the tremendous efficiency of ECW technologies

Raster images are served with lightning speed in ERDAS APOLLO.
WebGIS

Our WebGIS solutions enable you to deliver information through the development of a web, mobile or cloud solution. Information derived from the WebGIS technologies enable you to derive reliable, context-specific information necessary for making informed decisions and allow you to:

- Build customised geospatial apps and solutions with a sophisticated set of developer-focused technologies
- Extend geospatial functionality where you need it – in the cloud or on web, desktop and mobile devices using modern and dynamic toolkits

Smart workflows

Empower end users without a significant geospatial background to leverage advanced geospatial functionality in their workflows. With smart workflows, you can:

- Integrate geospatial information and focused business processes
- Construct powerful, highly constrained, map-based processes that guide the user step-by-step through creating and attributing geospatial data
- Avoid the cost and complexity of desktop GIS by utilising supporting high-end functionality and disconnected workflows in a web-based client application
**WebGIS**

Bring real-time enterprise data access and sophisticated analysis to the web with a fully scalable and customisable server solution that deploys high-end web services and websites. WebGIS allows you to:

- **Deploy** a flexible solution for managing secure information and serving it to a wide variety of desktop, web and mobile applications

- **Provide** secure integration with existing GIS, CAD environments, and business systems with our interoperable platform built on proven technological standards

- **Customise** your web interface, create user-defined queries and provide direct access to your geospatial data

- **Ensure** firm adherence to Open Geospatial Consortium (OGC) and International Standards Organization (ISO) standards for web services and metadata compliance

**Mobile**

Embracing the ever-broadening capabilities of today’s mobile devices, we provide several pre-packaged, yet easily customisable, mobile applications. With our mobile applications, you can:

- **Access, review** and **update** geospatial data and asset information in real time in the field

- **Tap** into data and analytics to support specific business workflows

Better understand your GIS data by placing it in the appropriate geographical context.
Your complete geospatial solution

Hexagon’s Power Portfolio provides a simple, sophisticated, integrated approach to harnessing the traditional domains of GIS, remote sensing, photogrammetry and mapping with applications across the enterprise.

As change happens, you can derive real-time information. Providing the utmost flexibility, the Power Portfolio provides a complete solution and the building blocks to develop customised applications to meet your needs.

We provide software products and platforms through direct sales, channel partners and Hexagon businesses. Hexagon’s geospatial technology plays a key role in Hexagon’s multi-industry focus, leveraging the entire portfolio for a wide variety of geospatial needs.
Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications. Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon’s Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world’s critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at hexagon.com and follow us @HexagonAB.