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EPSILON is a Technology Resources Engineering & Consulting Group with expertise in: **Aerospace, GeoInformatics, Water & Environment, and Economics & Management.**

EPSILON was established in 1985 in Boston, Massachusetts, USA. Today it operates worldwide as a Group of legally independent companies with Head Offices in Greece (photo), Bulgaria, Cyprus, Germany, Italy, Malta, Russia and allied offices in most European countries, and well-built links with foremost world technology organizations.



EPSILON delivers engineering & consulting services, outsourcing & R&D commodities, training, and state-of-technology products as geospatial database infrastructures and up-to-the-minute navigation & environment technologies.

Aerospace/Aviation

Offered expertise in space- aviation- avionics- mobile- wifi- & satellite telecoms by using state-of-the-art geoinformatics, earth observation & remote sensing for aerospace- aviation- products and earth resources planning; services also supported by our allied company [Aviontek GmbH](#).



Delivered expertise in engineering & consulting, modelling, R&D, databases, products development, aviation apps, training and wide capacity of solutions to agencies, organizations, airports-aerodromes and aviation authorities, and aircraft certification consulting:

- **3D-aerodrome geodatabases:** 3D-aviation navigation aids (h/w, o/s, s/w, data); aerodrome-SDIs based on ARINC and commercially available technologies; Turn-key systems based on space components as satcom, navigation (photo) and earth observation. Experience with object oriented programming languages (C++, Java, C#, IDL), Procedural Programming languages (C, FORTRAN 77/90/95, Pascal), Libraries (OpenGL, Qt, MFC, .NET), Script Languages (Perl, Tcl/Tk), Document standards (XML, XSL, XHTML), Geodatabases (Oracle, mySql).
- **Aviation Applications:** Google Earth™, MS Virtual Earth™, and ESRI ArcGlobe™ and Aeronautical Solution™ technologies, as supported by terrestrial satellite and web-technologies.
- **Design of microwave systems:** Components for space and ground applications; Development of numerical electromagnetic models and software tools for the design of microwave systems and components, also via [Epsilon-Italia, srl](#).
- **Aircraft certification:** Experience in turbojet, turboprop and seaplanes aircraft programs via [Aviontek GmbH](#) and Epsilon-BG doo

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- **Management of agreements:** Technical operational services for operators-providers; support for marketing and pre- & post-sale technical assistance to the customers.
- **Project facilitation:** For civil, military, cargo operations, passenger operations, and airports, civil protection & security, environment, Consulting for Seaplane operations; and other for the General Aviation.

Geoinformatics

Services for the entire spectrum of SDI/GIS/IST technologies as geodata capture, geo-statistics for INSPIRE/OGC geodatabases, geo-systems integration, geo-marketing products via IST/ICT technologies:



- **Video mapping:** Terrestrial and mobile video mapping, LIDAR, space lasers, remote sensing, aerial mapping and high resolution imaging & processing for its applications, ranging from environmental management to security and safety systems, to global monitoring, to a full range of surveying technologies, and industry applications as health systems, and marine vessels tacking (photo).
- **Geodatabases:** All types of geodatabases based on ESRI technologies, for land- water, air, sea/marine, ecosystems/nature, health, utilities, transport and multiple sectors, based on INSPIRE, OGC, ISO and other standardization systems.
- **GIS & remote sensing:** Application via web-technologies for nature, earth observations, 3D-cities, remote sensing for territorial control, environment monitoring, management of natural and anthropogenic resources, customise apps, based on SDI compliant to the INSPIRE Directive
- **Services & Applications:** Development of Geodatabases, web-GIS, IST/ICT systems on state-of-technology or GRID computational systems for natural resources & environment management, water resources, disasters, transportation, geotechnics, geology, civil engineering CAD/CAM/GIS systems, health, e-cities, e-government, and info-society and information communication sectors, for any type of IST/ICT/SDI demands.
- **Products & apps developed:** for air-, land-, marine-navigation, fleet management, vehicles and vessels tracking, non-ILS aircraft landing, health systems, iPad and Android applications of LBS, environment and forest fires management platforms, civil protection CCC (control command centre) and other.

Water & Environment

EPSILON covers the entire spectrum of civil-, water-, wastewater-, waste-, environment-, nature- in sciences & engineering services as: climatology, hydrology, hydrogeology, water resources, water supply, water uses, wastewater & wastewater treatment (photo, CY), irrigation & drainage systems, marine & coastal waters, waste, EIAs, SEA, SCP, LCA, environmental monitoring (water quality, groundwater, surface water, soil, bio-monitoring), wetlands- ecosystems- and NATURA 2000 management plans, biodiversity analyses, coastal zone management, statistics, INSPIRE enviro-info systems (SEIS, EiONET), geoSDI, mathematical modelling (all media), public health, enviro-law and regulations, EU Directives, envirometrics, enviro-policy & sustainability, training and environmental awareness:



- **Water resources:** Basin & catchment management, climatology, hydrology, water forecasting, erosion & sedimentation, floods, groundwater, EU WFD 2000/60, limnology & lake sciences, reservoir optimization & management, river & coastal sedimentation, delta, estuary, basin storm water management, urban water management, water supply & demand, social & economics, water quantity, resources systems optimisation, Law and Directives.
- **Water & wastewater engineering:** Irrigation, drainage, aqueduct, water tunnelling, water supply, distribution & pipeline engineering, dam, reservoir, hydropower engineering, desalination & water purification, drainage engineering, flood control mitigation systems, water works, pipeline engineering, water distribution, river engineering, storm & urban water systems, transport hydro-systems, wastewater and treatment, water reclamation and reuse, sewerage systems, CAD/CAM/GIS/SCADA engineering.
- **Waste:** Engineering design, solid waste technologies, sustainable consumption production (SCP), underground storage tanks, urban waste (planning, collection, treatment, reuse, landfills, technologies, management plans, monitoring), waste and hazardous waste management, waste recycling & recovery, laws & Directives, RTD.
- **Nature:** NATURA 2000 plans (photo, 2013), biotopes, wetlands, ecosystems modelling & risks, emergency management, flora, fauna, forestry management, mapping & classification systems, silviculture and fisheries sustainability, geochemical cycles, CORINE Landcover & soil resources mapping, wetlands-health, EnviroLaw, Directives, web-mapping, public dissemination and policy.
 
- **Policy:** Analyses of change, C/B analyses, economics hygiene and safety plans, economics of impacted environmental media (air, water, soil, nature), economics of public health & risk assessments, environmental regional and local economic analyses, EIA/EIS/SEA, legal and regulatory support of agencies and organisations, training in ISO, EMAS, awareness raising and organisation of public hearings, drafting of regulations, laws, acts, environmental audit and compliance plans, policy analyses, public-industrial policy, risk analyses & quantification.
 
- **Operational tools:** GIS & webGIS technology (photo), remote sensing facility, CAD/AFM s/w, mathematical models, chemical associated laboratory for environmental analyses (air, soil, water, marine, bio), envirometrics database, INSPIRE technology, OR models for decision making, visualization systems, wifi real time data analysis and telemetric installations, forest fire cameras and wifi systems, environmental aquis & legislation database.

Economics & Management

Offered expertise and R&D in: economic- administrative- and technical parts of complex projects, techno-economics, market research, business planning, laws & regulations, technical assistance & research studies in business & geo-information statistics (photo), business planning and strategy formulation, engineering impact analyses, feasibility studies, market research in the fields of GIS-informatics- water- environment- - transport- aviation- statistics- (photo) marketing- space-telecoms-, viability & sustainability analyses for business portals, regional & environmental economics:

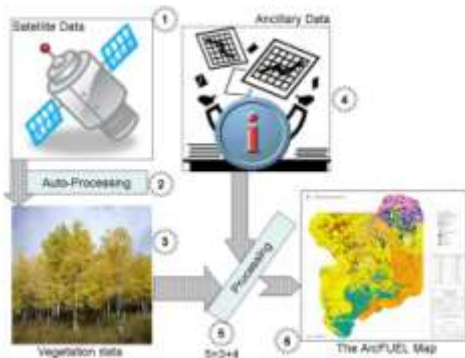
- **Business planning:** Analysis of any existing or future competition, Business financial position and any funding requirements, Business marketing strategy, Business ownership and management, Business target market, Operational details, such as location, premises, governing legislation, and personnel requirements etc.
- **Market research:** Acting & defining execution of strategies and practical implementation for innovation and renewal by applying state-of-the-art research and management methods as well as tools; Analysis & understanding of why and how innovations, technical and scientific information and knowledge interact with market and economic forces, Lead, interact and communicate with qualified professionals inside and outside the Epsilon Group and/or their own knowledge field; Solving problems related to innovation and renewal activities involving technological, economic, organizational, and institutional change.
- **Project management:** Administration systems public & private, industry business management plans [via Epsilon Consulting Ltd, CY], business & profitability plans, engineering project management, economics & viability strategies, EC & international policy, economics & impacts of development, educational material for training, legal services, ISO- EMAS certification, legal environmental database (EnviroLaw™), modelling of economic and social impacts, operations research optimisation, Permitting programmes, Quality Assurance, ISO, EMAS plans, Socio-economic policies, Statistics and statistical indicators, Tender and procurement documentation, Tender documents and procurements, Tourism & industry social and economic impacts



Aerospace: 3D-Pilot Navigation system (2013)



Geoinformatics: 3D-City/Island (iPad, 2014)



Environment: Forest Fuel Mapping (2014)



Management: EnviroLaws (EU vs. USA, 2014)