

MAPYX LIMITED

Digital Mapping Solutions

Capability Statement



**Official GIS
&
Digital Mapping
Partner**

SARMAN™

Search & Rescue Management Solutions



www.mapyx.com

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Background

Mapyx Limited is a UK registered company specialising in Geographical Information Solutions (GIS).

Mapyx originated in Slovenia where it was a leading exponent of GIS solutions with 35 years experience of developing bespoke software for individual, commercial businesses, governments and military organisations.

In 2006, Mapyx was incorporated as a UK Company to market its successful 'Quo' digital mapping solution to personal users. Mapyx is UK owned and Mapyx headquarters is located in Surrey, UK, with part of its software development team being located in Slovenia.

Mapyx is best known in the UK for its successful 'Quo' software which has received numerous awards and recognition as the leading digital mapping software of choice for private individuals, commercial businesses and search professionals.

In March 2010, Mapyx became the Mountain Rescue England & Wales ("MREW"), Official GIS and Digital Mapping Partner.

Subsequently, Mapyx released its new software 'Sarman™ Search and Rescue Management Solution', a unique and ground breaking software solution to improve planning and management of operational search missions.

Mapyx continues to develop new GIS solutions on a world-wide basis and is increasingly recognised as a leading provider of specialist software solutions.

At its essence, Mapyx developed its Quo professional platform as a modular GIS solution that can be readily adapted and enhanced to provide fast-track solutions to Client demands. By example, the complex 'Sarman™ Search and Rescue Management Solution' went from initial briefing in October 2009 to Alpha version in

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November 2009, to Beta version in January 2010 to final working version in March 2010, a total of 6 months development time.

Mapyx has further developed its solutions by forming key partnerships with other commercial entities with complimentary products to provide a complete solution, whether it is software or hardware solutions and products.

[The Mapyx Philosophy](#)

Mapyx GIS Platform - the foundation of development

- Mapyx has its own GIS system named 'Quo Professional' that is designed as a flexible platform to enable speedy development of bespoke GIS solutions. It was designed with the concept of flexible modularisation to provide a consistent software platform for development of new bespoke solutions to Clients.

Mapping - the backbone of all GIS systems

- Mapping is our core business. We design and build GIS mapping solutions based on existing mapping data, database information or integrating real time tracking objects.
- We can process scanned or un-scanned maps, hand-drawn maps, site plans, photographs or even partial sections of maps and geocode/rectify every map detail with real-world co-ordinates based on map grid information. Even a simple hand-drawn map can be integrated into our systems to provide a manageable GIS solution. Any map, any data in any form from anywhere in the world can be integrated into our GIS platform.
- With modern communications available today, a map can be produced in the field, sent immediately by electronic communications, geocoded manually or

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automatically and then be used within our GIS systems in another part of the world within minutes.

Software & Hardware Integration - making systems communicate

- At Mapyx we understand that software and hardware must be effectively integrated as part of any successful mapping application.
- We work with proprietary or bespoke-designed hardware with multiple communications platforms including GPRS/GSM, GPS Microphone, GPS, Satellite, Tetra (Terrestrial Trunked Radio) or APRS (Automatic Position/Package Reporting System based on amateur radio frequencies).
- We will work with the hardware chosen or used by the Client, to minimise disruption or meet Client's equipment demands.
- With our understanding of software design and development together with our understanding of hardware, we are ideally suited to provide the ultimate 'turnkey' solution.

Consulting - not just another discussion

- Consulting to us is about communication. We listen, we question and then we consider. Don't expect an over-the-table detailed solution. Mapyx takes its time to consider all options, formulate the best solution for the Clients' requirements and then we present our solution.
- If the Client wants to proceed, we provide a timetable, a cost model, regular progress updates and then delivery, testing and sign-off. Further customisation and development is always an option for the Client. We are always available to

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assist and help our Clients improve performance or solutions; we are only a phone call away.

Don't reinvent the wheel

- If a Client uses different types of GIS systems such as 'ArcInfo', 'MapInfo' or any other system, we will work within these existing parameters and adapt these systems to specific Client requirements.
- Existing data of any kind can be integrated into new or existing systems, whether that data is in the form of text files, spread sheets, photographs, videos, scanned or even un-scanned maps, we can fully integrate them into existing or new systems.
- At Mapyx, we consider that it is unusual to build from 'scratch'; there is always data which forms a base of information to be developed. We understand this and seek to develop what already exists. On the rare occasions when only a concept is available with no supporting data, we define the Client's vision, the objectives and agree on the deliverables, cost and timetable.

Economics - offer viable cost effective solutions

- We deliver affordable solutions based on years of experiences of handling external or third party data. We are here to take all considerations into account and that always means financial parameters and targets to be met. Our flexible Quo professional system permits speedy development and therefore reduces costs to the Client.

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[Mapyx Directors GIS Selected Projects and Examples](#)

Emergency Management Systems

- Developed GIS Security System for Government Agency to monitor potential terrorist attack. A system build from scratch for a Client with clear idea about taking geocode measurement and presenting measurement in the form of operational intervention levels (OILS) on the map at Central Command Post using multiple communication channels (GSM, GPRS, satellite, UHF, Tetra network etc.). The system provides scenario planning, action plans, what if scenario testing and management of real-time problems. Real-time tracking and feedback, tracking of instruments and within vehicles.
- Developed system for managing emergency management response in nuclear incidents and disasters to improve nuclear safety for power plants and vehicles with nuclear energy - such as boats and submarines and transport of nuclear materials. Simulation of incidents data to enable Client to train on daily basis. System delivered to Canadian Navy, Holland and Germany. In total, 55 systems delivered.
- Developed a system for Slovenian Nuclear Safety Administration, Conversion of Slovenian Geographical Data into ROGIS System Conversion of data after Slovenia became part of EU - Rogis system serves nuclear safety process.
- Developed a system for Mobile Monitoring Unit (Institute Jožef Stefan), Geographic Informational System for on-line Surveillance of External Radiation Probes. GIS monitoring and mapping of radiation levels and transfer of data to database system and automated analysis.
- Developed a system for Avitech Ltd., Geographical Informational System for UAV Tracking. GIS mapping plus data transmission for unmanned aerial vehicle, plus development of system for video transfers etc.

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- Developed a system for the Ministry of Defence of Slovenia to provide real time tracking and navigation system for vehicles, vessels and helicopters. Provided manufactured boxes for vessels, vehicles and helicopters communicating via Tetra military secure network.
- Developed a 3D-digital moving map for Becker avionics for helicopter and other use.

Mapping Applications

- Developed a system called MapCAD, system for vectorisation of cadastral maps.
- Provided systems for scanning and vectorisation of maps for, Slovenian Ordnance Survey, The Surveying and Mapping Authority of the Republic of Slovenia and the Forestry Authority of the Republic of Slovenia.
- Developed in-house Quo Professional as the Mapyx GIS platform.
- Developed Quo digital mapping system for personal users and commercial users.
- Developed Sarman™ Search & Rescue Management Solution for private and commercial markets.

Waste Disposal

- Developed for Snaga, Ltd, an information system for waste disposal and collection point administration based on Quo Professional technology. The GIS system for collection of domestic garbage - 60,000 clients in capital city and 25,000 collection points containing one or more collection points. The system included invoice generation to collection points based on multi-

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facets - numbers of users, number of collections and size of collection (volume) based on gross area of floor footage.

- Developed a system for Cisto mesto Ptuj Ltd., Geographical Informational System for waste disposal and collection point administration similar to Snaga above.

Education

- Developed Interactive Atlas of Slovenia 2.0, Best Slovene IT product award at fair INFOS, 1998.
- Developed 3rd incarnation of mapping system - show tourist information - biggest Slovenian publishing company, atlas data geocoded film, browser plug-in pre-internet explorer, GPS of house codes and dialects playing, natural heritage and cultural heritage, etc.
- Developed Interactive Atlas of Slovenia 3.0, Upgraded version of the awarded product Interactive Atlas of Slovenia- Plug & Play, A new concept of the geographic informational system for consumer market.

Insurance

- Developed a system for Adriatic Insurance Company, Reconstruction of the informational system. New information system developed. Geocoded data, studying insurance business as a whole and next logical step for each part of insurance process, streamlining IT functions, - brokerage, sales, marketing , improved integration, cash flow management, revenue and sales forecasting, invoice closure.
- Developed a system for Slovenian Insurance Company, providing Client Database Administration with geographic components.

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- Developed system for Triglav Insurance Company, for reconstruction of the existing information system. Invited by biggest IT Company for a new insurance product with risk management - main role to develop the data model and correct prior assumptions - investment with risk management. Complete turnkey solution.
- Developed a system for Triglav Medical Insurance Company, Client Database Administration with geographic components, postcode analysis and a GIS system to manage clients.
- Developed a system for Gorenjska Bank, Client database administration with geographical components. Developed database with GIS technology for streamlining of process and collection of core data for analysis.
- Developed a system for Pioneer Ltd for a geographical informational system for the support of all business processes. Supports activities on a daily basis, such as how much was sold, to whom within specific geographic locations, measuring numerous parameters, mapping sales and trending over years.
- Designed a system for VGE Project, (Thrifty Energy Master Heating System Control Network) for data collection and analysis on a central server.

Vehicle Tracking Systems

- Logina Ltd., Geographic Informational System for Vehicle Tracking. GIS for tracking vehicles - hardware supplied by others - maps and software provided - marketed system via Logina.
- ESPRO Ltd., Geographic Informational System for Planning and Delivery Services. Building systems to manage storage within warehouses - develop GIS to support logistics for Clients.

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- Developed a system for Mobitel d.d., Geographic Informational System for vehicle tracking via NMT and GSM network. Designed GIS tracking system using GPS as a tracking device and network to central hub - data transfer. Offered tracking system for consumers - at the time - very unique product.
- Developed a system for Viator & Vektor d.d., as a geographic information system for Vehicle Navigation, Surveillance and Dispatching. Fleet of 200 vehicles driving all over Europe - needed tracking system and send messages over the satellite system and in car navigation.

Business

- Developed a system for SBRA (Slovenian Business and Research Association) to find 'your' R&D partner over the internet with real-time database integration and geographical display module. Provided CD and web application to promote Slovenian business.

Marine

- Developed a system for the Ministry of Food Agriculture and Forestry of Slovenia, for real time tracking of fishing boats in Adriatic sea over GPRS, SMS and Satellite network. GIS system for tracking boats, including various communications interface integrated into the software.