



sovereign  
SOLUTIONS

WHAT'S HAPPENING WHERE?

A GIS based information solution that goes beyond maps to provide real-time information.





## A GIS BASED INFORMATION SOLUTION THAT GOES BEYOND MAPS TO PROVIDE REAL-TIME INTELLIGENCE.

Sovereign Solutions transforms maps into powerhouses of information, rich with strategic insights that are invaluable to nations and organizations in strategy formulation and policy implementation. Our solutions are a combination of products and services that includes data collection, editing tools, storage, search and decision support systems on many platforms including desktop, web and mobile.

Get to know what's happening anywhere and everywhere, that matters to you. Know the resources at your disposal and understand what actions have been taken and what can be taken. Gain an instantaneous perspective that's exhaustive and detailed.





WE HAVE A SIMPLE WAY TO REPRESENT ANY BUSINESS OPERATIONS: ALL FIXED OBJECTS ARE PLOTTED ON A MAP. ALL MOVING OBJECTS ARE TRACKED. THE INTERPLAY OF THE ABOVE HELPS IN IMPROVING THE EFFICIENCY AND EFFECTIVENESS OF PLANS.

Now, everything is tracked. Everyone's accountable and there's nowhere for inefficiencies and excuses to hide.



OUR SOLUTIONS ARE TAILORED FOR YOUR NEEDS

**PURE GIS BASED SERVICE:** Location and tracking intelligence that are maps and maps-based solutions.

**COMBINATION OF GIS AND DEVICES:** Here map-based solutions are coupled with smart devices to provide extremely granular and multidimensional insights.

**BUILDING GIS-ENABLED INFRASTRUCTURE:** These are our nation-wide solutions for sovereign countries. In which we create entire GIS based government services for citizens.





## TRANSFORMING LIVES WITH OUR GIS-BASED SOLUTION

Normal maps are unidimensional, providing simple directions that help you get to your destination. On the other hand, a GIS based map goes beyond directions to provide strategic information at many different levels. From classifying shops, offices and businesses to measuring width of roads, right down to tracking heights of buildings. Everything that's relevant and can be used is recorded. So, while any location on a regular map is merely a landmark, in our GIS enabled map every point is a rich collection of data, covering location, name, average customers, area, product mix, turnover, employee names, storefront photograph and even includes a virtual tour of the facility.

## PARTNERING WITH GOVERNMENTS IN THE DEVELOPMENT OF NATIONS.

Sovereign Solutions' GIS is trusted by governments to develop and monitor systems that smoothen the lives of their citizens. We collect data using government resources and store the information for representation geo-spatially. This data is used seamlessly across different government institutions and aids in better understanding of a country at the smallest unit level, be it villages, counties or wards, thus ensuring scarce government resources are channelized to areas that need them the most.

Our solutions enable government bodies to share information with the public, monitor vehicle ownership and traffic efficiently, reduce accidents and run better citizen care services. It has proved to be of invaluable assistance in the areas of detection, risk assessment, mitigation, prevention, preparedness, response, and recovery. It vastly improves the emergency response service-ability of various government departments such as police, fire department and hospitals. With it, public safety personnel can analyse historical events, and predict future events and thereby plan for emergency response.





## PLOT, TRACK AND RUN YOUR BUSINESS PROFITABLY

Using a combination of our devices and map-based solutions, a business can elevate its operational efficiencies to the next level. Besides this, organizations can also unlock location information hidden in its database management system in which day-to-day information is stored. This provides invaluable data for planners to develop strategically advantageous business insights.

Our all-encompassing solution can help you profile your customers based on multiple parameters such as geography, behaviour and demography. Map your business assets, factories, warehouses, distributors, human resources, outlets and delivery routes and gain unique perspectives on how to utilize them optimally. Develop your strategies real-time and make instantaneous changes during roll-out. Eliminate information lag and sequential planning. When information is multi-fold and multi-dimensional, there's no reason your profits too shouldn't multiply.





## OUR PROPRIETARY TECHNOLOGY GIVES YOU THE POWER TO DO MORE

A combination of cutting-edge info recognition & gathering, contextual GIS, Big data processing, SMART search engine and user-friendly streaming. All of which is high-speed and scalable.



DISTRIBUTED  
FILE SYSTEM



BIG DATA  
ENGINE



MULTI-DEVICE  
PLAY



GIS CORE  
FRAMEWORK



MEMORY  
DATABASE



COMPREHENSIVE  
SOLUTIONS



SEARCH  
ENGINE

IMAGE/VIDEO  
RECOGNITION  
ENGINE







### MULTI-DEVICE PLAY

The technology can be seamlessly interfaced with existing systems through existing devices.



### IMAGE/VIDEO RECOGNITION ENGINE

Engine built with AI technology, can learn and provide many of function to recognition.



### GIS CORE FRAMEWORK

Framework that offers full support to all type of GIS data. Implements functions, problems solver and methods to process, quickly.



### DISTRIBUTED FILE SYSTEM

Combines hardware management and software low level operation system to support high availability and scalability for storage files.



### MEMORY DATABASE

The database has full integration with GIS core framework. Provides high speed process, load and stability.



### BIG DATA ENGINE

The engine can support Big data, can work with GIS data. High availability, scalability and supports real-time processing



### SEARCH ENGINE

The full-text search engine, supports multiple languages.



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DATA  
CONSTRUCTION  
PROCESS





The building block of all great strategy is a robust data gathering system. At Sovereign Solutions, our greatest strength is our ability to identify, source, gather and organize data.

### COLLECTING VITAL INFORMATION:

Our data-gathering process is multi-pronged and can be moulded to suit local conditions and client needs in the most cost-effective method possible.

**Data can be sourced from existing records.** Quite often, governments and businesses already have a treasure trove of data and information in their system. Our expertise lies in sourcing, analysing, organizing and presenting, this existing information in a ready-to-use format.

**Using existing public infrastructure.** With our deep understanding of countries, governments and local geographies, we have a repository of knowledge about regions and their existing infrastructure. We use existing public infrastructure such as bus-routes to quickly build extensive on-ground information.

**Greenfield information gathering program.** In a situation where no data or information exists or if the task is completely new, we have the ability to build, set up and execute a data-gathering fleet in a matter of days.

### DATA THAT'S MULTI-LAYERED AND RICH WITH INSIGHTS.

Our information goes beyond maps. We record everything. From width of roads, to heights of buildings, to flats per floor, to business establishments on every street etc. This proves to be invaluable, because strategies can now be planned to suit local conditions, e.g. in case of a fire, the fire-department can send the right-sized response vehicle and efficiently tackle the hazard.

### DATA THAT'S DYNAMIC, LIKE STRATEGIES OF TODAY.

Our data is regularly updated to ensure relevance to business strategy. Our regular beat plans ensure that a route once mapped is revisited at a fixed beat interval. Any change is revised in the source itself and alerts sent.

### DEVICES, OUR STRATEGIC DIFFERENTIATORS.

Our range of devices are flexible and can be easily attached to vehicles, hand-held or body-mounted. They capture visual and audio information, can be plugged online and enable conversations. What's more, these devices easily integrate into your existing system through existing organization applications. Thus, cutting down service time and saving governments and organizations millions of dollars.



# OUR TECHNOLOGY POWERED SOLUTIONS PLATFORM

Broad-based solutions



Land administration,  
planning and land use



Socioeconomic



Natural resources and  
environment



Infrastructure management



Security and defense



Monitoring





## FOCUS SOLUTIONS

### **BUSINESS INTELLIGENCE**

No longer do people have to travel distances to get updates about happenings in different parts of the world. Real-time studies can be actioned sitting at one's desk. Information stored at different libraries and research centres can be accessed without the need for lengthy approvals. Teaching and education become democratized as access to information is made through simple clicks.

### **EMERGENCY RESPONSE SYSTEMS**

Very often the difference between life and death is the quality of information that's fed into the Emergency Response systems. Here is where our superior intelligence comes into play, often being the decisive factor in saving life and property.

### **TRACKING AND MONITORING**

From storm warnings to global consignments, GIS empowers individuals. Geriatric care is made easier using GIS enabled devices that track, monitor and provide continuous updates on the whereabouts of senior citizens living alone.

### **SECURITY AND ALERTS**

Intelligence is pre-emptive. It understands and plans for unforeseen circumstances. Our technology understands areas that can be compromised and builds security measures that send immediate alerts when a threat looms close. GIS is revolutionizing the way we consume information and the way we live. And it's all for the better.





## BETTER GOVERNANCE, EFFICIENT ORGANIZATIONS AND HAPPY PEOPLE WITH OUR SOLUTIONS

Our GIS enabled maps empower decision makers across various streams to design effective strategies for their stakeholders. From government officials to representatives of local bodies. From CXOs to business and country managers, from educationalists, to town-planners, from healthcare workers to police and fire-security personnel and finally right down to individuals, the opportunities that our solutions offer are limitless.





***Domain Solutions for Governments:***

National, State, and Local Government - Military Defence - Fire Emergency - Medical Services - Disaster - Law Enforcement - Health - Transportation

***Government Sector wise Specific Solutions:***

Electricity, Power & Gas - Telecommunications - Water management - Agriculture & Forestry - Mining & Natural Resources - Science & Education - Environment Conservation - Land & Oceanographic Studies

***Enterprise Level Solutions:***

Banking & Insurance - Logistics - Media & Entertainment - Real Estate - Retail - Automotive & Transport







The background features a light blue and white color palette. It is decorated with a pattern of semi-transparent hexagons of varying sizes and shades of blue. Overlaid on this are thin, dark blue lines that resemble circuit traces or data paths, some of which are thicker and more prominent. The overall aesthetic is clean, modern, and technological.

### ABOUT US:

Sovereign Solutions has over two decades of expertise in the management of complex intelligence systems. Headquartered in Singapore, with a team of highly qualified experts on GIS and other computer science disciplines, along with a team of collaborators spread across the world, Sovereign Solutions has become a leading provider of GIS solutions.





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