About TrafikSol

TrafikSol is competent and technically sound in solving biggest problems in traffic-related issues. Traffic Safety is the biggest priority for many, but getting a solution has always remained as a question mark. TrafikSol is committed to resolve the issues through technology, solutions, and products for sustainable solutions for various road classifications/classes.

1. TrafikSol’s first level goal: Sustainable prevention of serious injuries and death crashes
2. TrafikSol’s second level goal: Real-time risk reduction which involves providing users at severe risk with a specific warning to enable them to take mitigating action.
3. TrafikSol’s third level goal: Reducing the crash risk which involves design application, standards and guidelines for improving driver behavior and enforcement.

Throughout the history of business, people use data to make more informed decisions, but we aim to use our research data be used to ensure traffic safety / prevent traffic hazards.

MISSION STATEMENT

Design & develop best products and effective solutions to ensure best services are rendered in the field of Traffic engineering.

AIM OF TRAFIKSOL

Unconditional Customer satisfaction is the first and foremost fundamental principle.

VISION

To provide products & solutions to increase mobility and instrumental to the bets and highest level of traffic safety

Customer Commitment
We develop relationships that make a positive difference in our customers’ lives.

Quality
We provide outstanding products and unsurpassed service that, together, deliver premium value to our customers.

Integrity
We uphold the highest standards of integrity in all of our actions.

Teamwork
We work together, across boundaries, to meet the needs of our customers and to help the company win.

Respect for People
We value our people, encourage their development and reward their performance.

Good Citizenship
We are good citizens in the communities in which we live and work.

A Will to Win
We exhibit a strong will to win in the marketplace and in every aspect of our business.

Personal Accountability
We are personally accountable for delivering on our commitments.
ADVANCED TRAFFIC MANAGEMENT SYSTEM

The Advanced Traffic Management System (ATMS) integrated solution of multiple technologies to improve the flow of vehicle traffic improve safety and minimize the road accident on highways using some highly advanced equipment like ECB, VMS, ATCC, MDS, VIDS and MRCS etc. Real-time traffic data from a traffic detection system flows into a Traffic Control Centre (TCC) where it is integrated and processed and may result in actions (e.g., traffic routing, VMS messages) with the goal of improving flow of traffic and minimizing losses.

FEATURE OF ATMS
- Smooth and Uninterrupted Traffic flow
- Increase in transportation system efficiency
- Smart Mobility
- Reduce Journey time and inconvenience
- Enhance Road Safety
- Alerts for abnormal road and weather conditions

EQUIPMENT OF ATMS
- ECB (Emergency Calling Box)
- VMS (Variable Message Sign)
- ATCC (Automatic Traffic Counter Cum Classifier)
- MDS (Meteorological Data Station)
- VIDS (Video Incident Detection System)
- MRCS (Mobile Radio Communication System)
- ATMS Control Room

SPEED ENFORCEMENT & E-CHALLAN SYSTEM

SEES was introduced to ITS by considering the number of accidental deaths on highways causing by over speeding of vehicles. Speed Enforcement & E-Challan System will be working as a violation warning for those vehicles which crosses the maximum allowed speed on that route. This system will be capturing the Speed of each vehicle and also will capture the Image for those vehicles which crosses the speed limit on that route and find the details from vahan.nic.in and penalize the person to restrict them from repeating the same.

FEATURES
- Awareness for the road user about their speed.
- Displaying the vehicle speed on bigger display.
- Online Penalty impose on speed violation.
- Reducing the number of over speeding vehicle
- Increasing Road-Safety.

EQUIPMENT OF SEES
- VMS.
- Ladder based speed camera with
- ANPR.
- PTZ camera.
- Wireless modules (3G/4G).
- Local Controller. SEES Control Room

TUNNEL MANAGEMENT SYSTEM

Considering the safety measures which are to be taken care of inside a tunnel to provide an automated and safe environment for the worker who are working around or inside it, Tunnel Management System is introduced to market. This system will be keeping track of following safety measures:
- Level of individual gases (Oxygen, Carbon Dioxide, Hydrogen etc.)
- Visibility level at individual point.
- Live temperature status at individual point.
- Ventilation System.
- Live streaming of tunnel status through HD cameras.
- Detection of multiple incident and Alarm System (Fire, Collision, Sliding etc.)
- Public announcement system.
All these details will be monitored from the control room, so that appropriate action can be taken in case of any emergency. The user can be notified both by visual display and audio announcement in case it is required for passing information. Along this user will also be avail with emergency calling box in case they want to pass any information to the control room.

FEATURES OF TUNNEL MANAGEMENT SYSTEM
- Appropriate action plan in-case of any variation in the important gas levels.
- Appropriate action plan in-case of any low visibility emergency.
- Appropriate action plan in-case of temperature dis-balance in tunnel.
- Live tracking of each point inside the tunnel.
- Incident tracking from single point.
- Announcement and Displaying of messages in-case of emergency.
- Tracking of user entry and exit from tunnel.
- Safety measurement for user as well as environment.
- Single point tracking from control room.

EQUIPMENT OF TUNNEL MANAGEMENT SYSTEM
- Environmental Sensors (GAS, Visibility, Temperature)
- Variable Message Sign board.
- Video Incident Detection System.
- Meteorological Data Station.
- Automated ventilators.
- Signal System.
- Public Announcement System.
- Alarm System.
- Control Room.

RED LIGHT VIOLATION DETECTION SYSTEM
RLVD was introduced to ITS by considering the number of accidental deaths on traffic congestions causing by over speeding of vehicles. Red Light violation detection system will be working as a violation warning for those vehicles which will try to violate the traffic signals at traffic junctions. This system will be capturing the image for those vehicles which violates the traffic Signal and find the details from vahan.nic.in and penalize the person to restrict them from repeating the same in future.

FEATURES
- Awareness for the road user about traffic safety.
- Generating Alarm on Red-light Violation.
- Online Penalty impose on Traffic Signal violation.
- Reducing the number of accident on Traffic Congestion.
- Resulting Better and Smoother Traffic flow.
- Increasing Road-Safety.

ADAPTIVE TRAFFIC CONTROL SYSTEM
An Adaptive Traffic Control Systems usually includes algorithm that helps or plays the key role in the adjustment of Splits, Offsets, Phase Sequence to further diminish delays, decrease the number of stops, along with reduction in the travel time. In fact, it is one of the new concepts which can be well utilized to further synchronize the traffic signals as per the current traffic scenario. Some of the prominent techniques that we make the best usage to synchronize the signal are:
- SCOOT
- SCATS
- OPAC
- RHODES

EQUIPMENT OF RLVD
- ANPR Camera.
- PTZ camera.
- Wireless modules (3G/4G).
- Local Controller.
- RLVD Control Room
We are one of the few names in the industry to offer Adaptive Traffic Control system featured with the most advanced Composite Signal Control Strategy technology that assists in the synchronization of the traffic signal. The striking aspect of the system is that it gets the required input from the sensor entrenched in road and then it try to coordinate the group of signal consequently.

**URBAN TRAFFIC MANAGEMENT SYSTEM**

Traffic jams at congestion is the major problem in urban area, which causes increase in travel time and sometime accidents and rages. The key problem which causes this situation is the manual interference in the traffic signal and sometimes users purposefully does this. UTMS was introduced to ITS to manage the traffic flow and traffic signaling in the urban area to manage the traffic flow and penalize the persons who tries to break the signals. This system will also indicates the road users about the traffic status through the variable message sign placed through the urban area. It will also have the incident detection system which will identify any kind of accident, unwanted objects and rages and notify to the control room which can be communicated to the users through radio and VMS. All the major areas will be covered by the CCTV surveillance system to provide live status view at UTMS control rom. UTMS will also have RLVD included within it.

**FEATURES OF UTMS**

- Radio and Visual messages to the road users about traffic status.
- Managing traffic signals in synchronization.
- Video Monitoring of Urban traffic network.
- Urban Traffic Radio System.
- Generating Alarm on Red-light Violation.
- Online Penalty impose on Traffic Signal violation.
- Reducing the number of accident on Traffic Congestion.
- Resulting Better and Smoother Traffic flow.
- Increasing Road-Safety.

**FEATURES OF UTMS**

- ANPR Camera.
- PTZ Camera.
- Wireless Modules (3G/4G).
- VMS
- LED Signal System
- Local Controller.
- UTMS Control Room

**PUBLIC TRANSPORT TRACKING SOLUTION**

PTTS is a solution to the travel time estimation for public transport which will be communicated to the users by various media to make the travel easier. It will let people know about the arrivals and departure of public transport under PTTS and will also be indicating the current position in respect to individual stops/ stations. User will be able to track their respective vehicle through mobile app also to know the exact position of vehicle on MAP. A common payment card will be provided to user which they can use at any public transport under PTTS. Along with this people can also take token for their travel from ticket vending machine at every stop/ station. All the movement of public transport will be monitored from the control room by GPS on MAP. Along with the GPS, every public transport will have few surveillance camera integrated with and every stops will have one/two surveillance camera for visual tracking of all PTTS.

**FEATURES OF PTTS**

- Travel time estimation.
- Real time transport tracking.

**EQUIPMENT OF PTTS**

- GPS Tracking Devices.
- LED display.
- Public Announcement System.
- Automatic Ticket Vending Machine.
- Closed Gate.
- Dome Camera
- PTZ Camera.
- Wireless Modules (3G/4G).
- Local Controller.
- PTTS Control Room
SMART CITY SOLUTIONS

The smart cities initiative has been launched in many cities all across the world. The concept focused on IT connectivity, efficient public transport and assured water and power supply. Being an expert in this industry, our domain knowledge covers, vehicle tracking, and smart metering, a smart lighting, and medical wearable’s, amongst others.

We are one of the leading names in this domain to offer solutions with a commitment to deliver high performance through unique silicon-to-software capabilities. In fact, our experts conduct extensive research and development initiatives, innovation and give best to design, build and manage challenging projects. We have successfully executed some of the best and successful Smart City implementations in different states. Adding to that, we even try to address the interests of diverse communities by implementing most advanced integrated solutions where we include fibre backbone, Internet of Things (IoT) platform, sensors and applications. This exclusive amalgamation reassures the unified and sustainable conversion of the unconnected to the hyper-connected city.

STUDENT HELPLINE SYSTEM

By considering the no of suicide and suicidal attempt by student in recent we developed this ERS solution to minimize this kind of situation and provide harass fewer environments for students. ERS works as a communication medium for student where the students can share their problems and difficulties in isolation with related department through the control center agent with just one push of button. This can also be the emergency contact point for any type of situation like: Medical, fire, rage etc. There will be few emergency agent at the control room who will analyze the problem and forward it to the related department. These call can be referred if needed as all the call recording will be stored to the server with all details.

FEATURES OF STUDENT HELPLINE

- Minimize the cases of Harassment.
- Can be used in any emergency cases like: Medical, fire and rage etc.
- Call recording and user tracking.
- Isolated medium for sharing problem.

EQUIPMENT OF STUDENT HELPLINE SYSTEM

- Emergency Calling Box Unit.
- Surveillance camera.
- Solar Power System.
- GSM Module 3G/4G
- Student Helpline Control Room.

EMERGENCY CALL SYSTEM

Emergency call systems are more like designated terminals that are primarily used for the calling and transmitting information that requires an immediate attention. In different parts of the word, many refer this Emergency call system as panic alarms, or even personal emergency response systems. It is one of the latest outcomes of modern technologies that help occupants who are a desperate need of emergency assistance and try to pass the alarm to the neighboring occupants or nearby occupants by triggering conveniently located pull-cord switches, or call transmitters, wireless pendants, or other emergency switches.
APPLICATIONS
Our Emergency call system is operational in any adverse conditions or anywhere within a facility that includes exercise rooms, dining rooms and resident apartments or even at health care centers. Moreover, our installation specialists or technicians also ensure that every component of emergency communication system gets properly installed and functions in an adequate manner. With our Emergency Call System activated, we can assure that you will get to see an enhancement in response time.

VARIABLE MESSAGE SYSTEM
Variable Message Systems (VMS) are systems that make use of traffic LEDs and graphic-based writings, figures along with pictures to convey message to road passengers driving vehicle on the road. It is very useful to drivers in informing about the traffic density, accidents, or any adverse weather and road conditions, and if required, even familiarizing them with any alternative routes and controlling the traffic congestion. Our designed VMS can effectively display all sorts of uses in transport, such as:

- Road signs
- Speed control
- Jamming due to different events
- Dangerous Road Conditions
- Vehicle line up
- Information regarding car parking
- Customs information
- Other changing requirements

SURVEILLANCE SYSTEM
We offer turnkey surveillance solutions to our clients and thus assist them in the effective management of resources and physical infrastructure more efficiently. We facilitate you with surveillance & security systems and workforce applications. We have a team of experts who can assist you in setting up and secure your business premises through excellent capabilities in system integration.

We provide high advance surveillance products. Today right from big corporate houses to critical government institutions such as defense, infrastructures, and military, are using our turnkey surveillance solutions. In fact, our services are now recognized and chosen across all size of businesses. Also, our dedicated research & development team always keeps a close eye on market trends and request, which had helped us introduce more advanced solutions for the clients.

- Defence Surveillance
- Port Surveillance
- Mining Area Surveillance
- City Area Surveillance

SMART PARKING SOLUTION
Smart Parking Solution was introduced by considering the number of increase of vehicles (two and four wheelers) and the shortage of space for their parking resulting in blockage of roads and sometimes accidents and rage. Smart parking solution will be a dedicated place for parking of vehicles on payable basis and vehicle will be guided towards the allotted parking spot by vehicle guidance system. It will also be chargeable according to the time period used by specific vehicle for parking. The users can be notified by the availability of separate parking space at different point of city and can also be able to book parking space online. This Smart Parking Solution is a Semi-automated system with minimum manual interference.

VARIABLE MESSAGE SYSTEM

- Efficient management of parking space
- Avoiding unwanted blockage on roads due to parking.
- Notification of availability of parking space
- Ease in traffic management
- Pre-booking of parking space online (WEB/Mobile App)
EQUIPMENT OF SMART-PARKING SOLUTION
- ANPR Camera
- PTZ camera
- Field Sensors
- LED Display Boards (Variable Sizes)
- Boom Barrier
- Cash-Collection Module
- Automatic Ticket Dispenser
- Vehicle guidance System
- Local Controller
- Barcode/ QR code Reader

OTHER SOLUTIONS
- Mining area surveillance with wim
- Electrical-Power Distribution
- Electrical-Power Generation
- PLC
- SCADA
- I/O System
- Industrial Pcbs
- Industrial Switches
- Solar Energy
- Wind Energy
- Waste Management
- Water Management
- Industrial: Steel Industry
- Industrial: Cement Industry
- Process Engineering
- Aviation
- PORT

Thank You!
Your Safety is our Priority

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