PDS»

Infrastructure systems

WHO WE ARE

We are a technology driven solutions and service provider. We are an independently owned, UK-based company of professional designers, engineers and technical consultants, working for an enviable Blue Chip client list.

Our strength is the depth of our expertise and our ability to integrate data from any source, offering benefits to end users and contractors alike during project implementation and throughout the life of the asset.

Formed in 1988, we started life as a SCADA and Control & Monitoring systems business and we continue to deliver successful projects in that area. We have grown and evolved to now provide and support all aspects of infrastructure systems integration.

HOW WE DO IT

We are here to support you throughout the project lifecycle. Utilising our wide-ranging systems expertise, we can take a holistic view on project implementation which can enable a substantial reduction in timescale, cost and risk for all involved. Through being involved from the start we can save you time, materials and cost long before work commences.

WHERE WE WORK

We are proud to work in markets that need highly resilient / high availability systems where functionality is mission critical and continued operation is essential to prevent loss of life or revenue. We have infrastructure projects in transportation, roads, tunnels, airports, energy delivery, and infrastructure support. Working predominantly in the UK and Eire, we have also delivered in the USA, Europe and Australia.

"Reliable and Responsive"

Ron Henderson, Tunnel Manager, Tyne Tunnels

INTEGRATED TRANSPORT SYSTEMS

From small installations through to complete refurbishments, we provide fully integrated solutions for Strategic, Urban and City road networks, with innovative Intelligent Transport Systems and technologies from the road side to the control room.

Applications/Expertise:

Traffic Management Systems
Integrating multiple and diverse road-side traffic technologies and third party systems into a central management system for analysis and reporting of real-time and historical data. Providing a clear and concise operator interface enabling users to quickly identify any operational issues on the network and be guided through a workflow to quickly and safely resolve the situation.

Applications
Smart Motorways, Incident Detection, Flow Monitoring, All Lane Running, Journey Time Monitoring, Car Park Management, Civil Enforcement, Number Plate Recognition, Access Control, Environmental Monitoring.

Technologies
Including Automatic Incident Detection, Radar, ANPR, CCTV, Bluetooth, Signs and Signals, Lighting and Ventilation Control, Radio, Environmental Monitoring and Public Address Systems.

Communications
Including Fixed, Radio, Mesh or Cellular Communications.

AIRPORTS
We have delivered extensive infrastructure projects at Heathrow airport, including twice securing a role on the airport's long term HEART framework for remote telemetry: monitoring power and water systems crucial for the airports operation.

Our security cleared, airside licensed engineers and vehicles are available to deliver and support your projects.

ROAD TUNNELS
Since launch, we have increased our knowledge and we now provide and maintain almost every system used in a road tunnel project, and we can provide fully integrated systems from control room to field sensor device.

We have worked on major projects for Highways England and TfL, providing specialist sub-systems and support that stretches from concept to end of life.

We integrate with your design team to support you from proposal generation to design, build, install and test. We can train your operators and help you maintain the solution through life; as well as extended life, refurbishments, upgrades and obsolescence management.

UTILITIES
Our ability to work with a combination of technologies, and in working on both legacy and greenfield sites is an advantage that brings benefit.

With our security cleared and accredited engineers we can deliver and support your project and service needs.

Power
We have provided Control and Monitoring solutions to many of the recent projects where 400kv power lines have been "undergrounded" in London. We monitor and control the forced ventilation to keep the powerlines within their operating regime, also monitoring the gas and fire systems. Working across several projects we have deployed a standardised solution which has included back fitting features on earlier projects as the solution rolls forward.

Water
With our proven system integration services and capabilities, we apply our skills within both the regulated and non-regulated markets. Providing solutions based around any industry recognised manufacturers, with a very flexible approach, our services range from a complete end to end SCADA/Telemetry and PLC/RTU system, through to individual components and their maintenance.

"Systems designed by PDS are brilliant"

Julian Mitchell, Service Manager - Tunnels, South West, Highways England

From the control room with SCADA display and GIS mapping through specialist sub-systems, and from concept to obsolescence management, our solutions are designed for sharing of information with asset management and fault reporting tools, and will support your KPI or dashboard reporting.

Our **CONTROL & MONITORING SYSTEMS** solutions can be fully integrated with Video, Audio and Plant devices interfaced using IP technology and Open Architecture for high availability unified control and monitoring facilities, providing an effective Control Room and efficient management of your infrastructure asset.

Our specialist sub-system solutions include:

Our dimmable addressable **LIGHTING CONTROL SYSTEM**, SCANLIGHT Eco, is designed to provide exactly the light levels needed in a changing environment, and at the minimum energy cost. SCANLIGHT Eco is a PLC based solution able to control SON, LED and Hybrid installations, and can be provided with a low cost net based control version or our fully configured dual redundant "PLUS" version. SCANLIGHT is installed in many major tunnel projects and widely across Heathrow Airport.

Utilising class leading components our **PA/VOICE ALARM SYSTEMS** can be part of an overall system installation or a standalone package.

Our **DETECTION SYSTEM SOLUTIONS** include Video and RADAR solutions. Adding to ANPR, VAID and speed detection

solutions, Thermal Cameras now offer benefits in low light/no light conditions. RADAR is an important component for Smart Highways and site perimeter security with its accurate detection of physical objects. PDS is the first company to be trained in deploying Navtech RADAR systems with trials on the M62 and M25, and the first tunnel RADAR AID system in the Hindhead tunnel.

Our **INTELLIGENT TRANSPORT MANAGEMENT SYSTEMS** provide a suite of tools, enabling real time management of traffic in a control room environment. Gathering data seamlessly from disparate assets along the Strategic Road Network, within road tunnels, inter-urban and city based environments.

Provided by a dedicated team our **SERVICE SUPPORT SOLUTIONS** cover all sub-systems for a cost effective solution. From routine maintenance to remote dial in for diagnostic support, we offer 24/7 help desk / emergency call out, upgrades and enhancements, in agreements covering concept through to obsolescence management.

Our battery based, backup power **UNINTERRUPTIBLE POWER SUPPLIES (UPS)** solutions provide protection of critical loads against unexpected power outages which otherwise could have serious operational consequences and loss of service. We cover power ratings from 1 to 600kVA, and have options for single or three phase inputs and outputs. We use an Open Protocol, which has the benefit of vendor independence

Our Service

CONSULTATION

We offer to share our expertise with you to support and deliver a buildable and effective asset. This can be an informal and flexible approach or to a structured path.

DESIGN

Projects that are designed well will be built well and function well and will be supportable for a longer period. The results of getting the design right will flow through the project.

PROJECT MANAGEMENT

We believe that successful projects are based on a clear understanding of the requirements, working to a structured approach, and delivered through open communication and the sharing of information to enable informed decision making for all involved.

BUILD & TEST

The secret to successful implementation of a project is extensive testing of the solution before it is deployed at site. This can reduce the implementation time at site which is usually a critical path activity, and save time and cost to all involved.

INSTALL & COMMISSION

Our engineers will ensure that the installation is delivered successfully and fully supported. We will provide design details, installation methodology and risk assessments for our work and use trained engineers with all necessary licenses and accreditations.

TRAINING

An implementation doesn't become an asset until the operations are fully effective. We will engage with your team from early stages of the project to understand their needs and their buy-in to the proposed solution.

MAINTAIN & SUPPORT

We are well proven at maintaining control room SCADA systems and specialist core sub-systems. In recent years we have focused on training our engineers to be able to support all the related sub-systems in our arena and we are now trained and certified maintainers for many of our specialist system partners.

SURVEY & ENHANCE

Our service engineers keep regular contact with operational sites and we understand the features and benefits needed as we move forward.

MISSION

To use our proven expertise to safely and sustainably deliver resilient solutions, working in collaboration with our clients' partners and supply chain.

VISION

To lead the infrastructure market, providing innovative integrated solutions with exceptional service.

OUR VALUES

Safety and sustainability, integrity, collaboration, service and innovation.

Safety and sustainability

We are committed to the safety of our staff and the sustainability of our project delivery methods.

Integrity

We will work with integrity and honesty.

Collaboration

We will work in an open and flexible way sharing information.

Service

We aspire to lead the market and provide exceptional service.

Innovation

We will embrace innovation in our solutions.

"Well done to all at PDS for your efforts, and we look forward to continue having you on board"

Peter Apicella, Principal Engineer

CONTACT US

If you would like to discuss an upcoming project with us, please give us a call, no cost, no commitment, we are willing to share our expertise to explore whether we can help you or work together for mutual benefit.

Contact the experts on 01332 280195

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