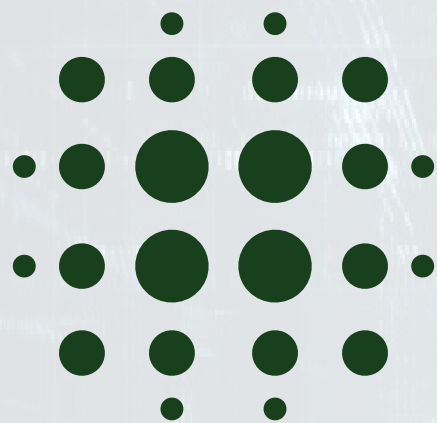




**TPKIN**  
**Tecnologie**  
PTY LTD

**We keep fleet, plant and workers on the  
ground and help operations run efficiently**

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# ABOUT US

## **“Real Support Real Professionalism”**

TPKIN came into existence in January 2013. The organization was established with the objective of providing high quality automation, process control solutions and a variety of complete instrumentation products and services to South Africa's rapidly expanding process industries.

Our clientele includes power, oil and gas, automotive, mining, manufacturing, FMCG, paper, and chemical industries.

Our services include supply, design, detailed engineering, training and after sales support. Application software development, project execution and management, integration of hardware and software, site installation, commissioning and support. PLC's, SCADA Systems, and Industrial IT, ICT electrical and a wide range of field and control room instrumentation products for a variety of automation / mining systems.

The company boasts a team of highly qualified professionals with over 35 years combined experience in engineering, finance and administration.

With the vast engineering experience gained over a period of twenty years by our Technical Manager having worked for ISO Certified companies and in some instances having played a major role in the ISO 9001 Certification process of some of the companies, we pledge to give our customers services that are ISO 9001 compliant while we work towards our own certification.

## **Vision**

Our vision is to be the preferred systems integrator to manage the implementation of Industrial Process Control and Protection Systems. We will offer exceptional functional and technical expertise coupled with extensive Industry knowledge.

## **Mission**

Our goal is to exceed the expectations of our clients by offering outstanding customer service, increased flexibility, and greater value, thus optimizing system functionality and improving operation efficiency.

## Mining Systems and Auto Electrical

We provide onsite auto electrical work on light vehicles and heavy equipment.  
 Installation of safety systems to maintain mine safety. (Collision avoidance systems, Cameras, Fleet and Fatigue management systems).  
 Electrical system diagnostics.  
 Supply of electrical components.  
 We provide skilled and certified technicians with industry experience.



## IOT Technology

We provide industrial connectivity by leveraging on multiple connectivity technologies which provides profound value, improved ROI as well as creating new customer experiences and unparalleled economic value chain.



## Air Conditioning

Supply and installation of air conditioning units.

Preventive Maintenance Programs.

Scheduled service visits or unscheduled service calls.

We provide a complete service report to the client for review and record which includes all adjustments made or action taken, with a clear indication of the final outcome and any adverse effect on the energy savings.



## Engineering Workshop

We are a medium to heavy engineering company specialising hydraulics and general engineering; and we offer a full range of services covering the following:

on-site repairs to all types of centrifugal, submersible pumps, electrical motors and valves

Repairs, maintenance and servicing of all mining and industrial machine

General engineering services and machining of mining and industrial

Components

Shutdown maintenance services

Planned Preventive Maintenance (PPM)

Fabrication works



## Control systems and process automation

Provide complete solutions including supply and installation of PLC's, SCADA System, MES (Manufacturing Execution Systems).  
 Electrical and instrumentation products based on specific customer requirements.  
 We maintain modern Industrial plants that utilize sophisticated control systems for automation and information reporting.  
 Our experienced control system engineers have the necessary expertise to modernize your older plant or build a new system.  
 Telemetry System design.  
 Energy Management Systems.  
 PLC-PLC and PLC-SCADA communication networks.



## Control System Audit and Risk Assessments

PLC systems design, including Panel Designs.  
 Preparation of Functional Specifications.  
 PLC programming, configuration and commissioning.  
 Supervisory Control System (SCADA) Configuration.  
 As-I, ProfiBus, ProfiNET, Implementation, Configuration and Programming.



## Electrical

Installation and commissioning of electrical equipment (Switchgear, Instruments, Transformers and Power Transformers).  
 Design, panel building and wiring of electrical control and protection schemes and integration of automation equipment.  
 Electrical Certificate of Compliance (C.O.C) for new and existing installations.  
 Supply of spare parts.  
 Preventative and corrective maintenance on power equipment.  
 Electrical maintenance



## Fleet Solution

The system helps to operate the whole chain of mine costing. It brings the management of a particular process to complete control over all technology on the mine. We achieve it by creating a single control center and analysis of production efficiency with the help of predictive analytics and expert systems.

Dispatch and mining works optimization for open pit and underground mines.

Phase utilization and tracking of loaders and dump trucks. Informational and analytical system for mining holdings and management companies, allowing to analyse production information about the operation of the mine in real time. Turning raw data into real actionable packets of information. Reducing time spend entering data. Truck cycle. Utilization and availability. Operators and shift KPI's reporting. Payload weighing for wheeled loaders and LHD's. Under load and over loads. Hourly production.



## Predictive Repairs and Maintenance of Equipment and Appliances

The system of predicting failure of mining equipment (dump trucks, trains and mining machinery) is based on the data analysis and settings of expert restrictions on the operation of units and equipment assemblies.

## Onboard Systems

Black box for all telemetry data 1sec data sampling rate for more than 15days.

iPanel platform manages data to the central server for reporting.

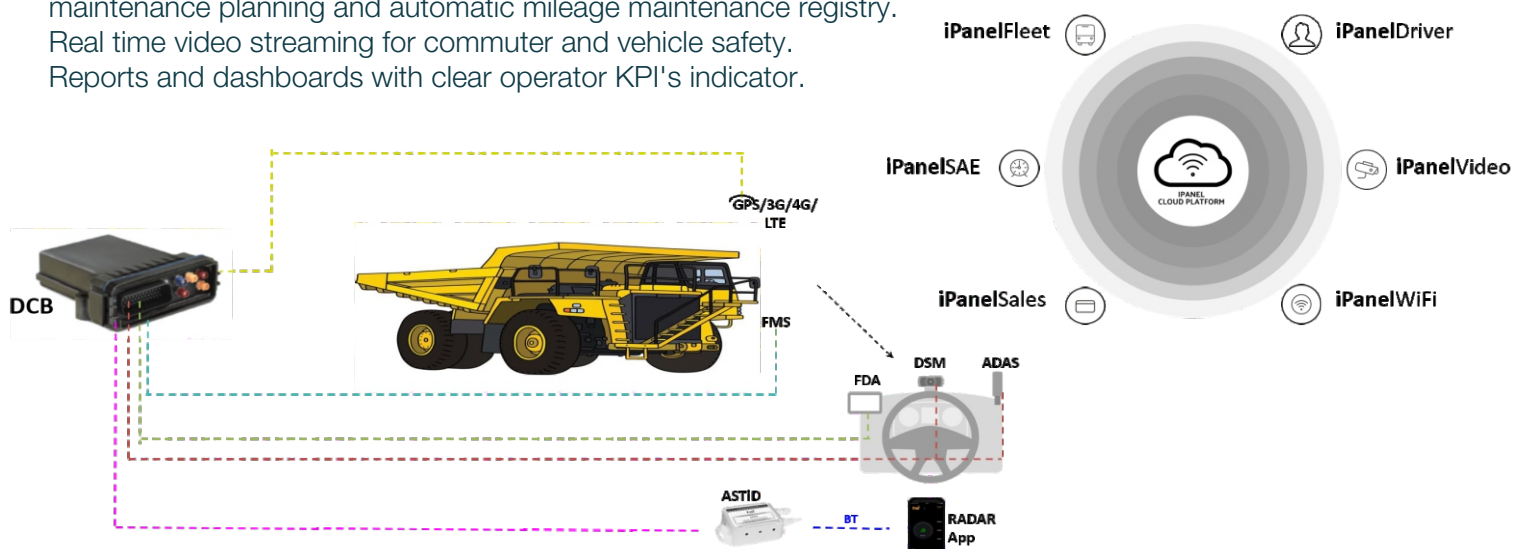
iPanel is a cloud based integrated solution for mining trucks and public transport, which hosts a number of applications.

Automatically calculate potential saving for each operator by comparing fuel consumption of each vehicle.

Auto - route matching of vehicles based on their GPS location. Vehicle health monitoring in real time for preventive maintenance planning and automatic mileage maintenance registry.

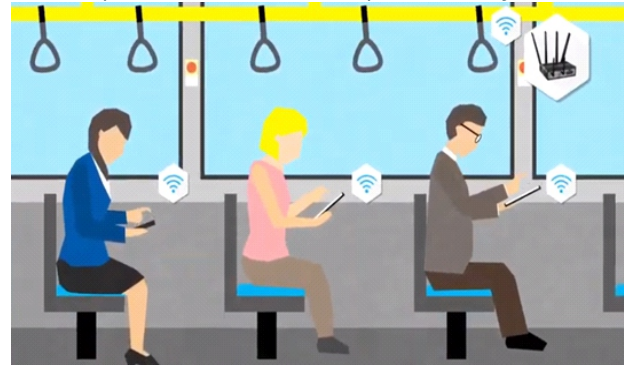
Real time video streaming for commuter and vehicle safety.

Reports and dashboards with clear operator KPI's indicator.



## Advance LTE

High performance LTE router with dual redundant communications for complex transit and transportation systems.  
Giga ethernet for onboard systems.  
Access point for passenger Wi-Fi.  
Video and vehicle data streaming.



## PDS System (Proximity Detection Systems)

Latest technology in the detection of personnel around the perimeter of equipment and offers operators a 360° visibility around equipment.

### Excavators



### Dump Trucks



### Hauling Trucks



### Loaders



### Tyre Handler



## Service and Parts

- 24/7 onsite support if required
- Highly skilled technicians
- Competent account managers to look after your needs
- OEM parts replacement
- Training

## Safety Mission

TPKIN Technologie (Pty) Ltd is dedicated to providing a safe working environment for all and as such, we consider safety to be an important part of our company. We will at no time sacrifice safety for production. There is no project so important that we cannot take time to work safely. We insist on safe methods and practices at all times. Every reasonable effort will be made to achieve our goal of accident prevention.

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