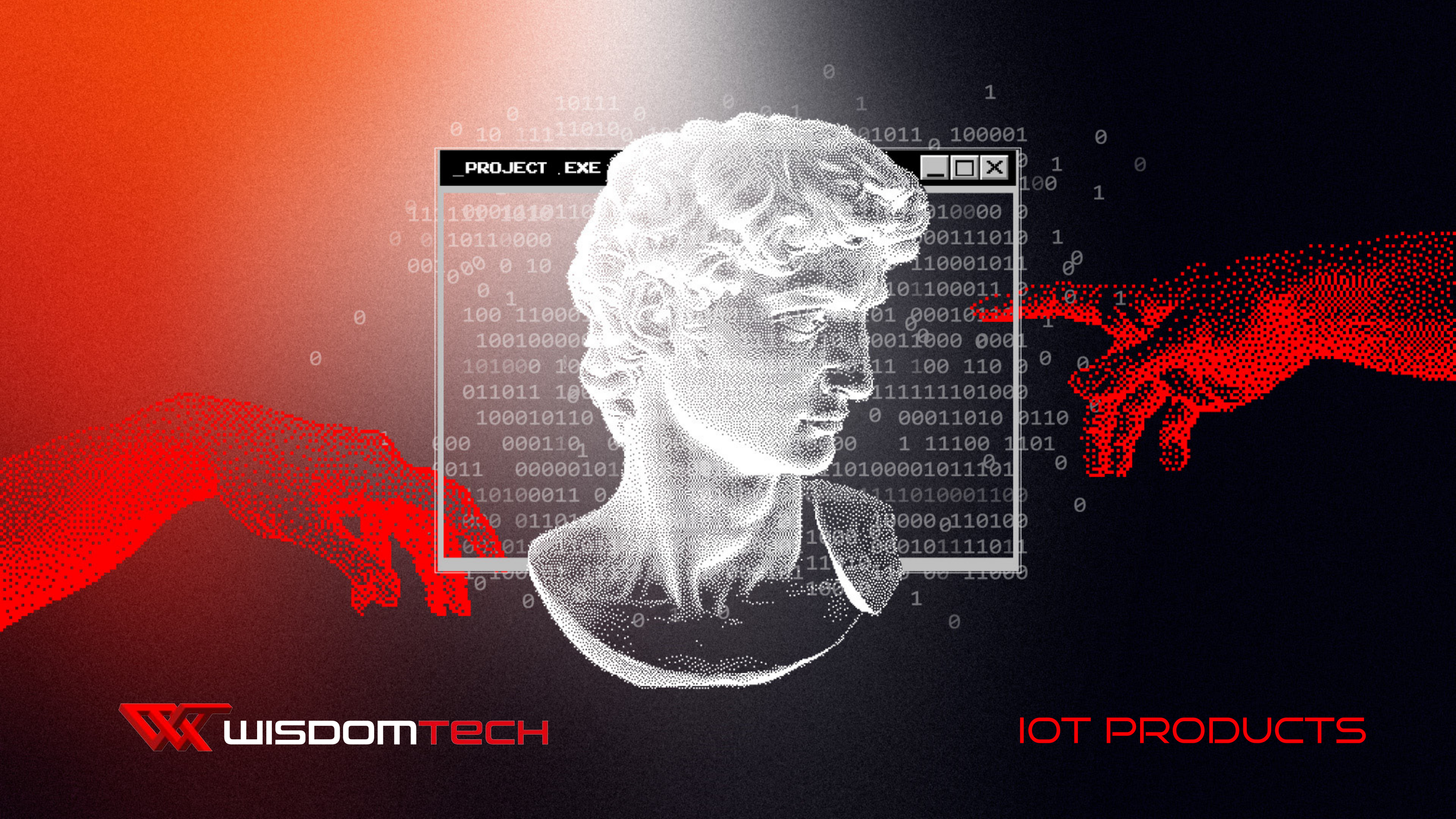
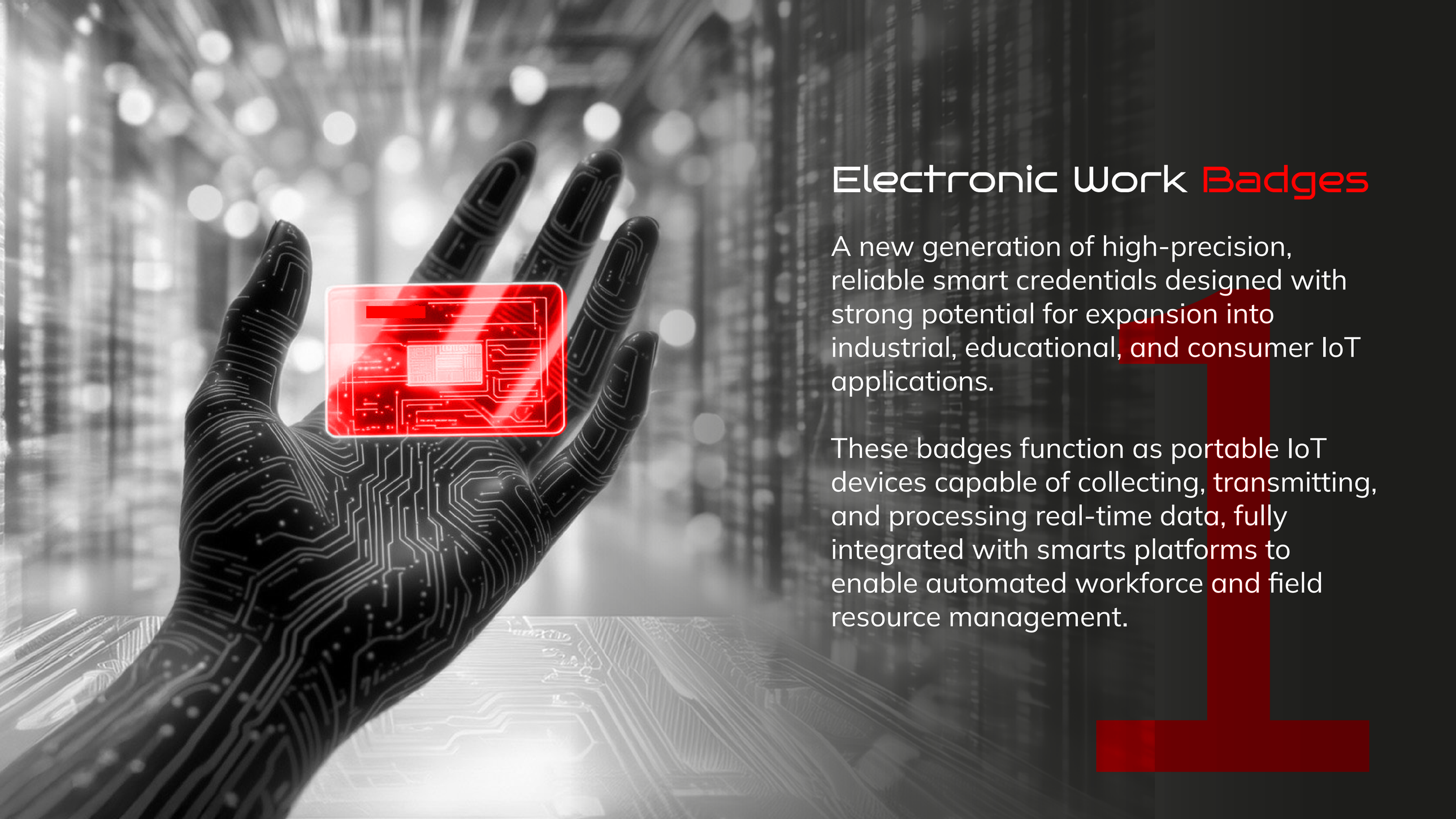


WISDOMTECH

IOT PRODUCTS

REAL PROGRESS COMES FROM CONSCIOUS INNOVATION.

We understand that every technological solution has a profound impact on people's lives, dignity, and future. That's why, we create adaptable solutions capable of meeting today's demands and tackling complex human challenges that technology alone cannot solve.



Electronic Work Badges

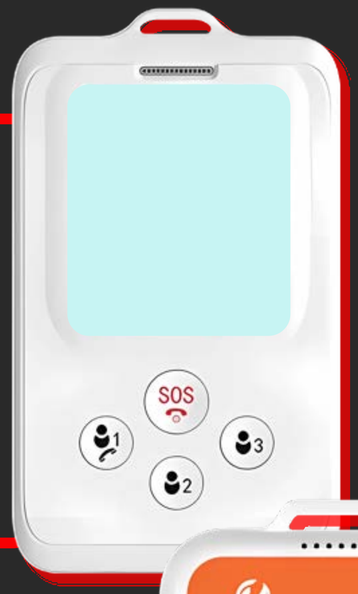
A new generation of high-precision, reliable smart credentials designed with strong potential for expansion into industrial, educational, and consumer IoT applications.

These badges function as portable IoT devices capable of collecting, transmitting, and processing real-time data, fully integrated with smarts platforms to enable automated workforce and field resource management.

Electronic Work Badges

Electronic Student ID

Provides attendance control, real-time location tracking, safety alerts, and school communication features.
It also enables recording of interactions, performance monitoring, and evaluation, enhancing both student management and institutional efficiency.



Cycling Performance Assistant

Tracks speed, distance, power, and overall performance metrics, while enabling communication and experience sharing among cyclists. This client-operated platform can also be leveraged to develop and expand related business opportunities within the connected sports ecosystem.

Electronic Work Badge

An intelligent, high-precision credential designed for the environmental sanitation sector, enabling automatic field-staff management through geolocation, communication, and digital logging.

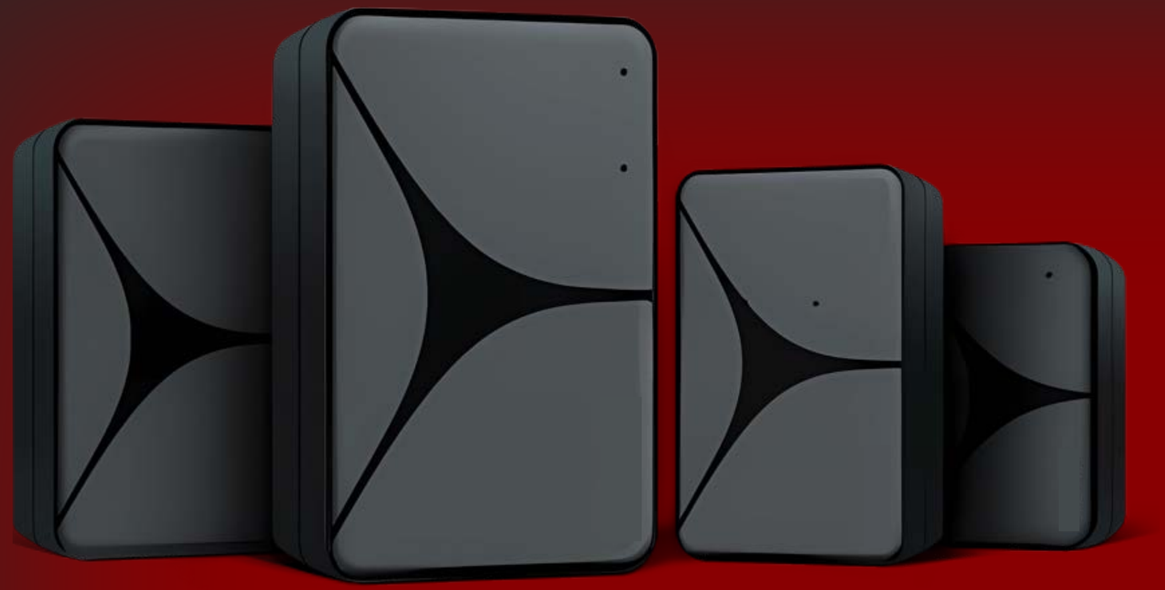
Vehicle GPS units

IoT-enabled vehicle-mounted positioning terminals provide real-time visibility of each vehicle, improving tracking, routing, and resource use. They transmit key data such as location, speed, and fuel status, allowing companies to monitor operations with greater accuracy.

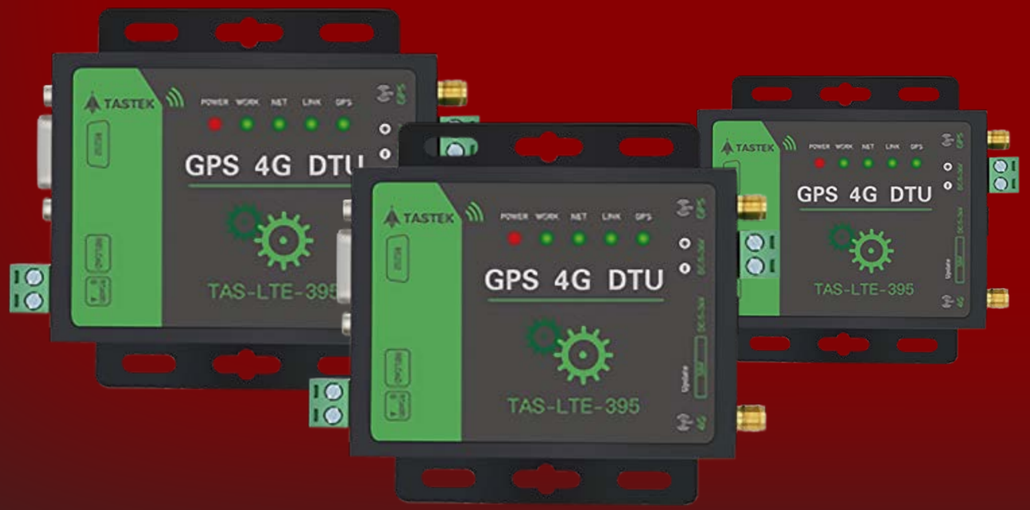
With continuous IoT connectivity, fleet management becomes faster and more responsive. Dispatchers can react immediately to changes, optimize schedules, reduce costs, and enhance overall safety and reliability in transportation.

2

Vehicle GPS units



- Small device used to monitor the real-time location of a vehicle or asset. It has a strong built-in magnet, so it can be attached quickly to any metal surface without installation. The device includes a rechargeable battery and uses mobile networks to send its location to an app on your phone. This allows you to check where a vehicle is, review its movement history, and receive basic alerts. It is designed to be easy to use, portable, and suitable for cars, motorcycles, or equipment that needs simple location tracking.



- Compact device that wirelessly transmits data from machines, vehicles, or remote equipment using 4G networks, similar to a mobile phone. It also includes GPS, allowing the precise location of the equipment to be monitored at any time. By connecting directly to a machine’s communication port, it sends operational information to the cloud for real-time oversight. Designed to be reliable, energy-efficient, and suitable for harsh environments, it is ideal for managing vehicles, industrial machinery, sensors, containers, and other distributed assets.

Indoor positioning beacon

IoT-enabled indoor positioning beacons deliver precise, real-time location data inside buildings, improving tracking and navigation of people, assets, and equipment. These beacons emit continuous signals that let organizations monitor movements and optimize space use with greater accuracy.

With constant IoT connectivity, indoor management becomes faster and more efficient. Teams can locate resources instantly, streamline workflows, boost safety, and reduce delays, creating a more responsive and intelligent indoor environment.

Indoor positioning beacon

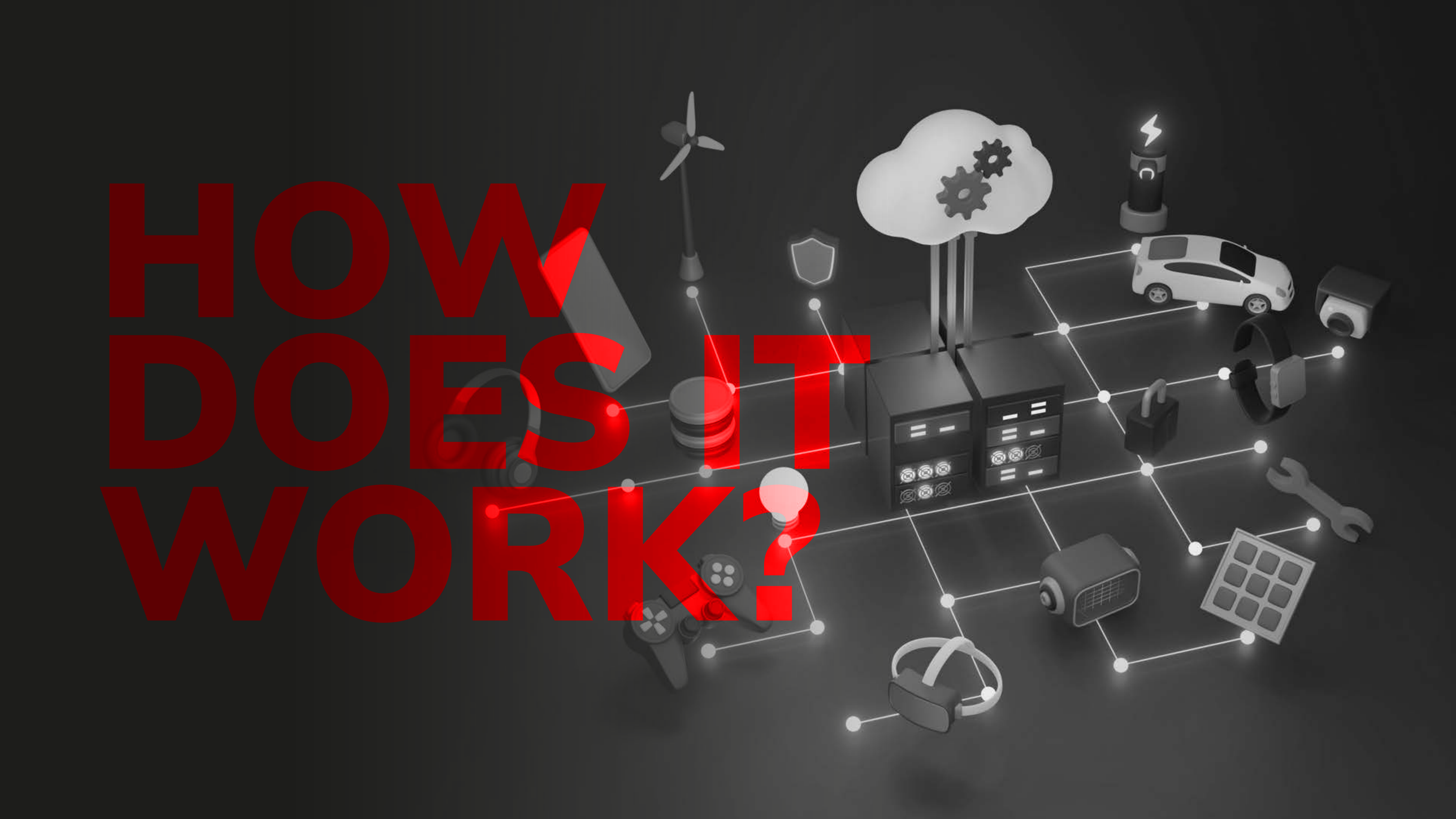
- This small device is a Bluetooth beacon that helps you know where things or people are inside a building. It sends out a short wireless signal every few seconds, allowing a phone or a tracking system to detect its location. You can attach it to equipment, boxes, keys, or even carry it with you so it can be found quickly when needed.

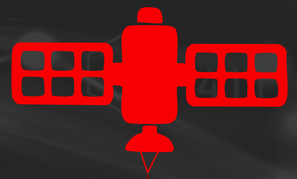
  It’s lightweight, battery-powered, and built to last in everyday or work environments. The battery can last many months, and the device can sense movement, making it useful for monitoring whether something is being moved or used. Overall, it helps companies keep track of important items and improve safety and organization without needing complicated technology.

Software development

We develop intelligent IoT platforms that provide real-time positioning and digital management for people, vehicles, assets, and operational processes across environments such as urban sanitation, hospitals, logistics hubs, and industrial warehouses. They combine 4G, GPS, and Wi-Fi positioning with deep-learning data processing and a low-code framework to enable fast customization for diverse business needs. By collecting and analyzing real-time data from IoT terminals—including electronic badges, sensors, beacons, and vehicle units—they deliver a clear, comprehensive view of all operational resources in motion.

HOW DOES IT WORK?



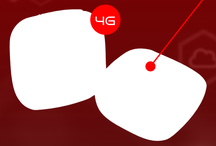


GPS / BD_GPS

Terminals receive satellite positioning signals:
GPS (U.S.) - BD_GPS / BeiDou (China)
This enables accurate geolocation.

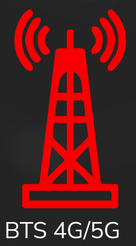
Electronic Work Badges

Vehicle GPS units



Indoor positioning beacon

terminal



BTS 4G/5G

BSC

Switch

public mobile network

This is the path through which data travels from devices to the Internet.

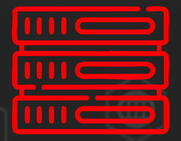
Components:

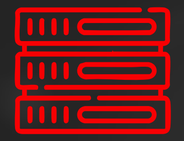
BTS (Base Transceiver Station): 4G/5G communication towers that receive signals from the devices.

BSC (Base Station Controller): Manages multiple BTS towers. Handles traffic, cell switching, signal quality, and network coordination.

Switch (Network Switch): a device that routes traffic toward the Internet. It acts as the gateway between the mobile network and the global network.

Cloud server





Local server room

servers

Cloud: remote servers where data is stored and processed. Ideal for large data volumes and global accessibility.

Local server room: on-premise company infrastructure. Provides higher control, privacy, and operational stability. Device data can be directed to either environment.

IT staff

Operation manager

User

Workerself

users

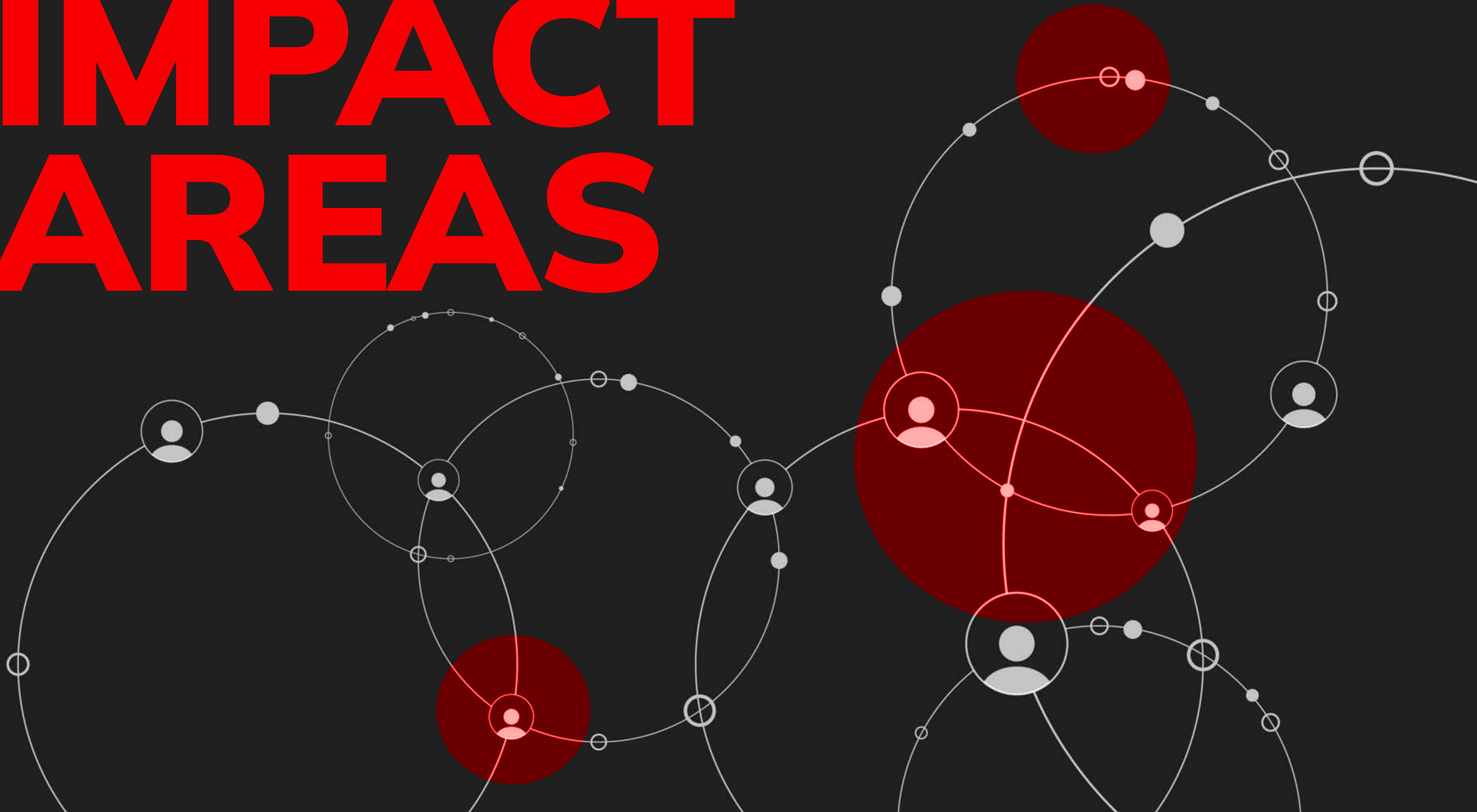
IT Staff: manages infrastructure, software, and security.

Operations Manager: oversees overall system performance and makes data-driven decisions.

User: general user—could be a worker, supervisor, or customer.

Mobile Worker: a field user with a smartphone running an app for tasks, reporting, or monitoring.

IMPACT AREAS



HOTEL

Real-time staff tracking.

Smart task assignment.

Tracking of carts and equipment.

Faster response to guest incidents.


HOSPITAL
Location of doctors and
Tracking of medical equipment.
Optimized ambulance dispatch.
Faster emergency response.

SCHOOL

Campus-wide visibility of students and staff.

Real-time bus tracking.

Safety alerts in restricted areas.

Automated attendance.

Space usage insights.

Smart access control.

Staff and device tracking.

Vehicle monitoring and fleet visibility.

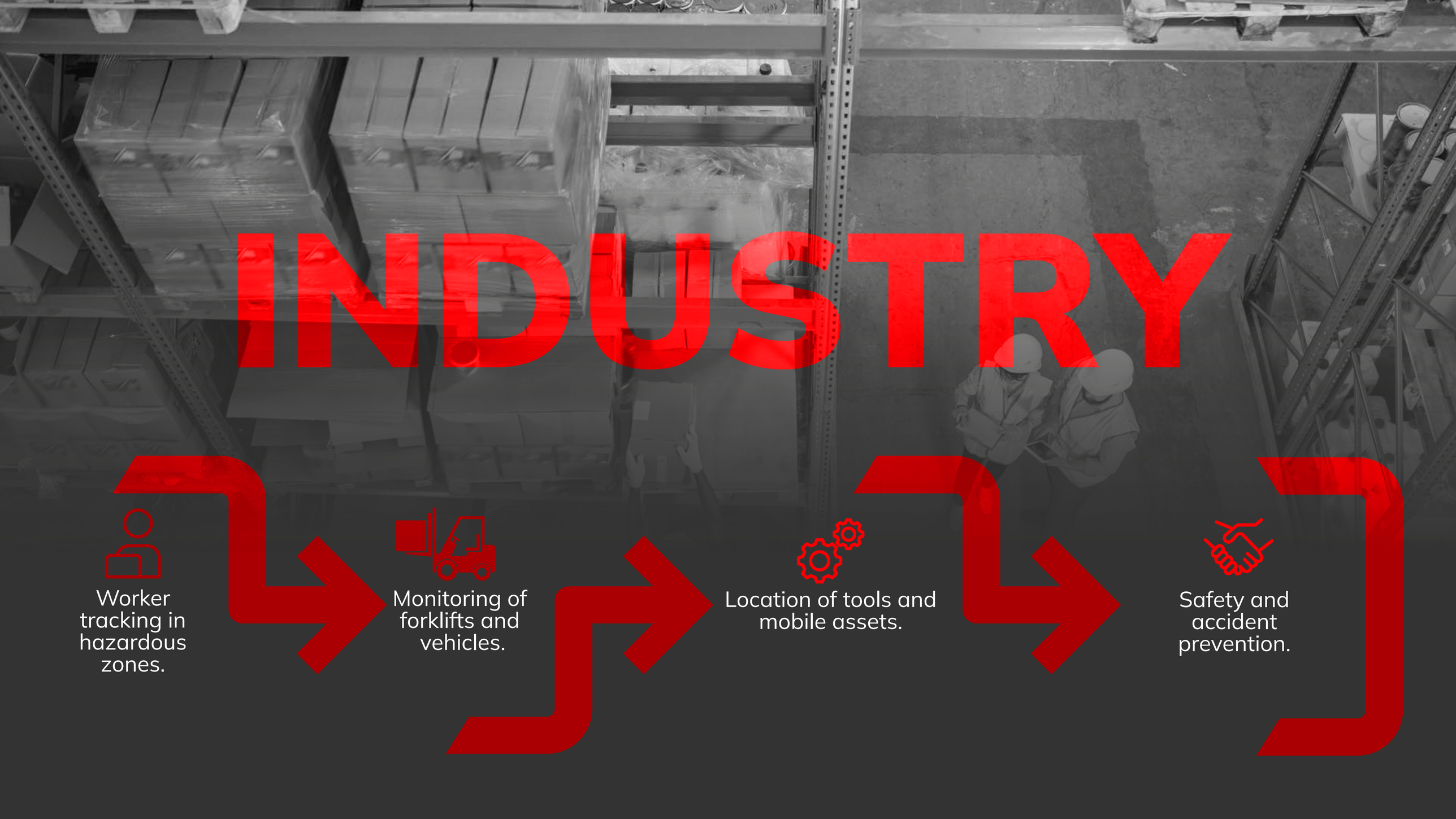
AGRICULTURE

Tracking of tractors and field vehicles.

Worker visibility across farms.

Location of tools and equipment.

Optimized harvesting routes.



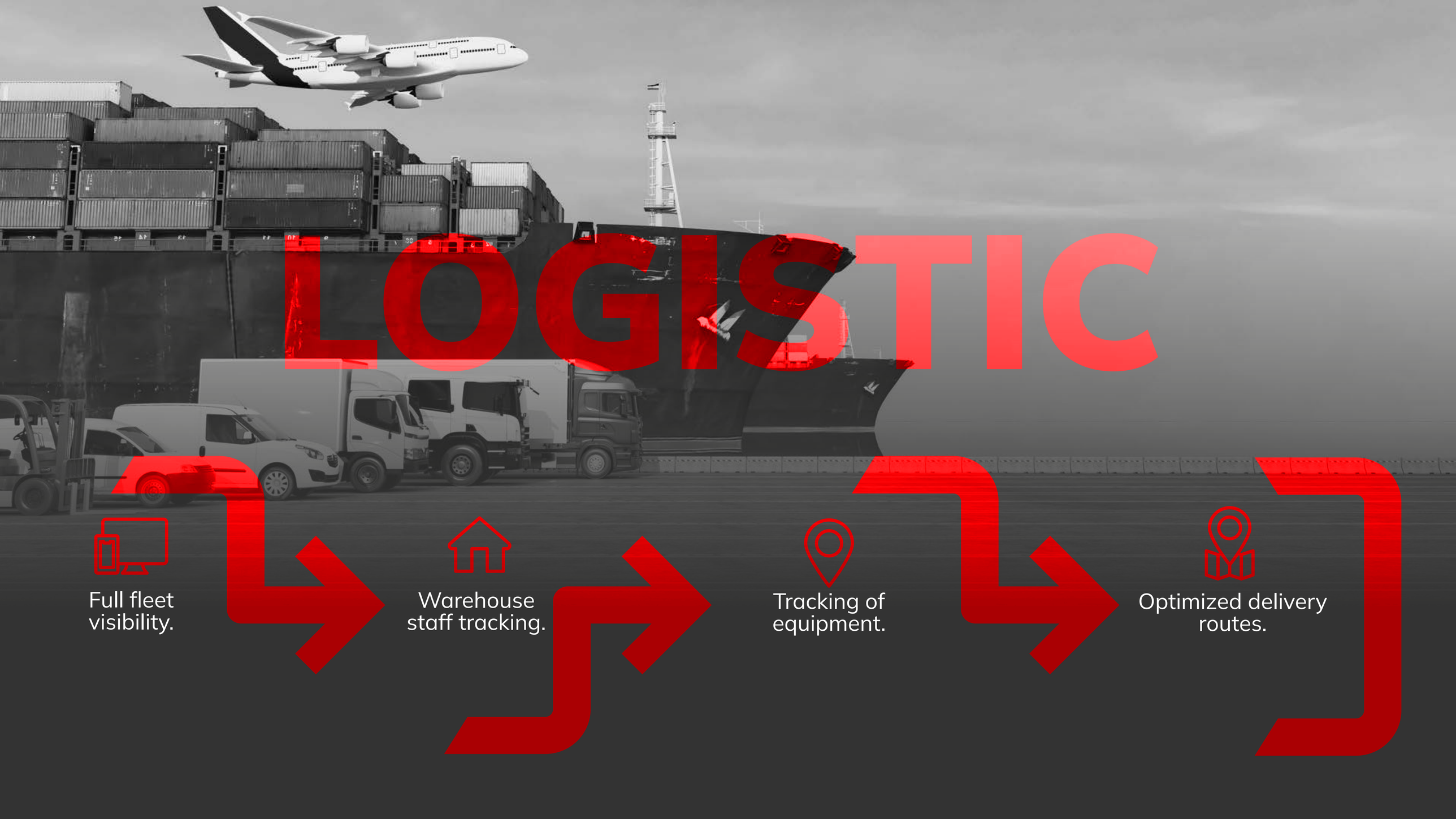
INDUSTRY

Worker tracking in hazardous zones.

Monitoring of forklifts and vehicles.

Location of tools and mobile assets.

Safety and accident prevention.



LOGISTIC

Full fleet visibility.

Warehouse staff tracking.

Tracking of equipment.

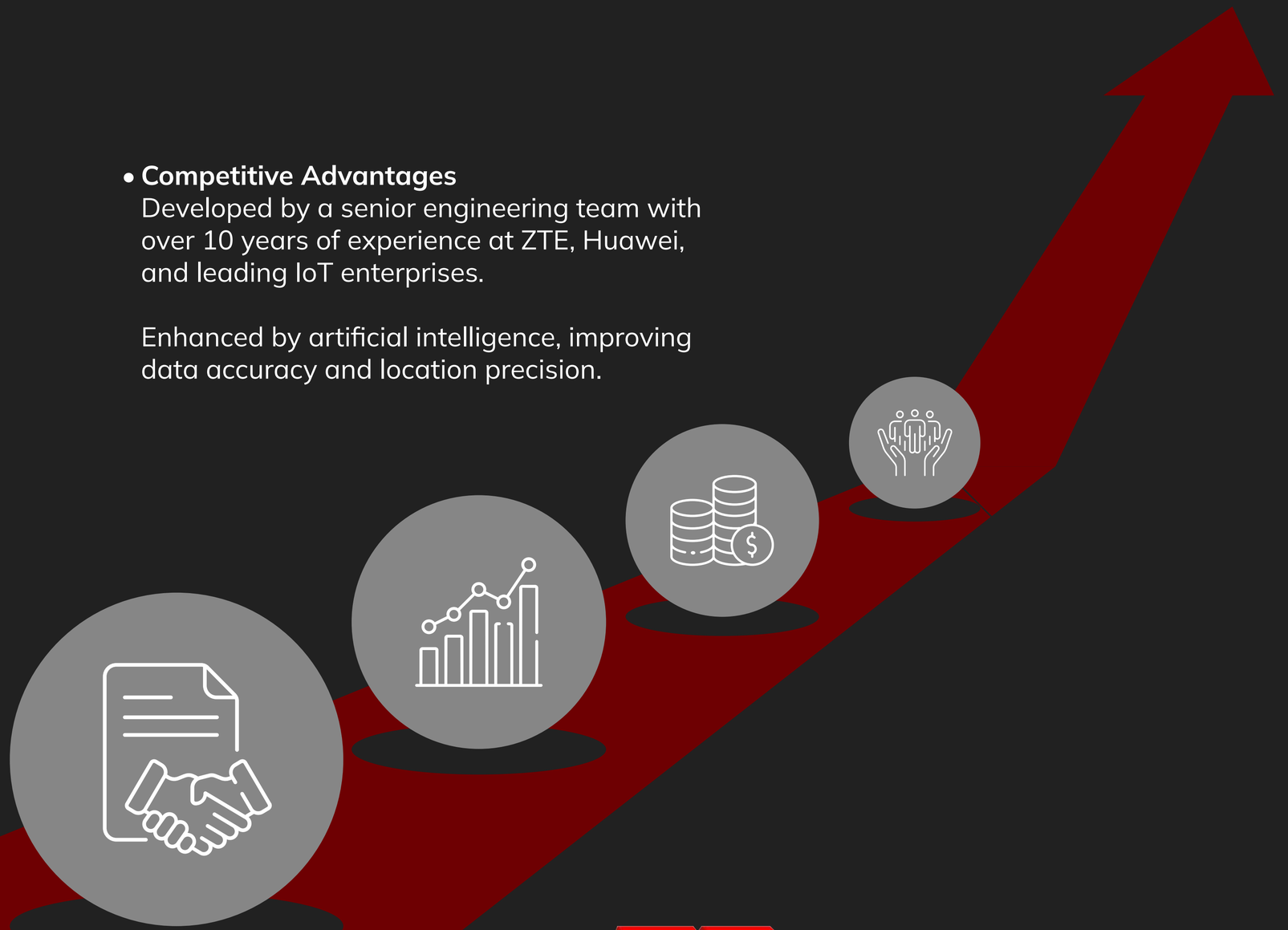
Optimized delivery routes.

Key Benefits

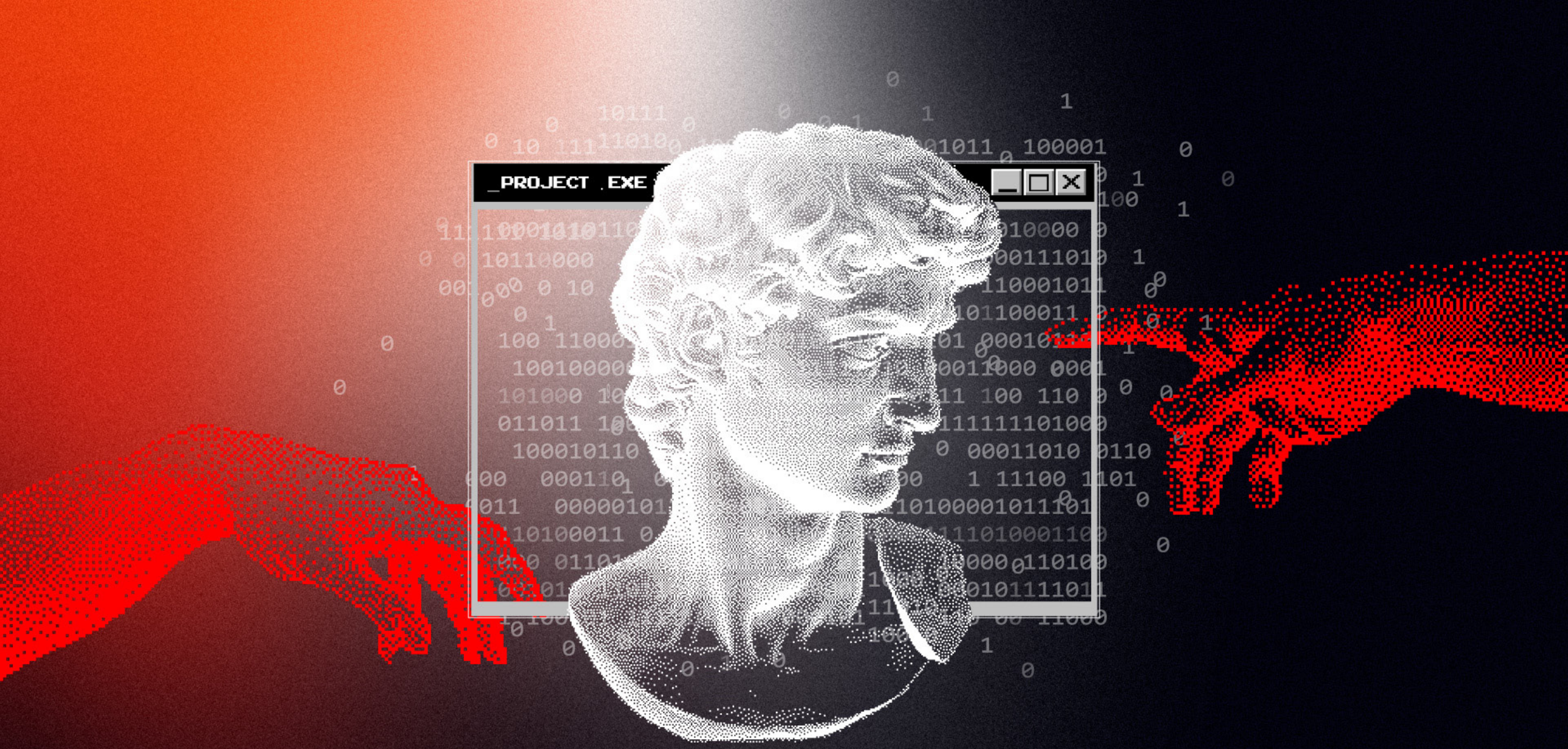
- **Full automation** of attendance tracking and field performance management.
- **Reduction of human errors and labor disputes** through traceable, verifiable data.
- **Higher precision and reliability** compared to standard consumer devices.
- **Seamless integration with intelligent platforms across sectors** — including sanitation, transportation, education, and sales.
- **Optimization of human and operational resources** through real-time data analytics.
- **Multisector scalability,** adaptable to a wide range of IoT-driven industries.

- **Competitive Advantages**
  Developed by a senior engineering team with over 10 years of experience at ZTE, Huawei, and leading IoT enterprises.

  Enhanced by artificial intelligence, improving data accuracy and location precision.



WISDOMTECH



WISDOMTECH

IOT PRODUCTS