OCR CARMEN
QFREE TRAFFIC COUNTERS AND HSWIM
CCTV IN ROADS PEEKTRAFFIC
INTERNATIONAL INSTALLATION
MATRIX ORIGIN / DESTINATION BY BLUETOOTH
OFFICE FOR SOUTH AMERICA (PERU)
WEIGHING AT LOW, MEDIUM, AND HIGH SPEED
IDENTIFICATION OF CONTAINERS (ACCR) SICK
SOS POST WEB MANAGEMENT SYSTEMS FOR CONCESSIONAIRES
DIMENSIONAL CALCULATION BY LASER CAPTELS
ITS INTEGRATION ANPR INTERNATIONAL
(PERU, SENEGAL, PORTUGAL,
MEXICO, KUWAIT, INDIA,
CHILE, etc...)

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WEIGHING SYSTEMS

Fixed and portable.

- STATIC AND DYNAMIC WEIGHING:
  - LOW SPEED (5-8 Km/h) WITH LOAD CELLS.
  - MEDIUM SPEED (40-50Km/h) BENDING PLATE OR PIEZOS.
  - HIGH SPEED (UP TO 200 Km/h) WITH PIEZOELECTRICS.
- DESIGN AND INSTALLATION OF WEIGH STATION.
- MODULAR CONTROL SOFTWARE FOR WEIGHT STATIONS.
- WEIGHING LARGE TONNAGE (STATIC AND DYNAMIC DUMPERS).
- WEIGHING OF AIRPLANES AND HELICOPTERS.
- DYNAMIC WEIGHING OF RAILWAY CARS.

High-speed weighing HSWM (A2 Zaragoza).

Weigh station integrated with toll station (Uyuni-Bolivia).

Weighing lane with mobile platforms (Álava - Spain).

Low speed weighing in Valencia Port access.

Dynamic weighing of railways.

Mobile LSWIM control in a toll station.

Airbus weigh-scale A400 M (Seville).

CUSTOMERS

MINISTRY OF TRANSPORTS OF PERU, SACYR, INDRA, SICE-HELIOS, ABC BOLIVIA, CAPUFE (MEXICO), AIRBUS (EADS-CASA), REGIONAL GOB. OF NAVARRA, MURCIA, MADRID, CANTABRIA, VIALIDAD MOP (CHILE), VARIO A32 CONCESSIONAIRE, MINISTERIO DE FOMENTO, ACCIONA, FERROVIAL, AZVI, BSOL, VALENCIA PORT, COSAPI, CASA CONTRATISTAS, JOHESA, AUTOVIA DE ARAGÓN, SOCIEDAD CONCESIONARIA, TELVENT, COVIIHONDURAS, MOTA ENGLISH, ETC.

72 OPERATIONAL REFERENCES IN SPAIN, PORTUGAL, KUWAIT, COLOMBIA, MEXICO, BOLIVIA, ETC.

INTERNATIONAL DESIGN AND INSTALLATION OF WEIGH STATIONS
COUNTING

AND CLASSIFICATION

Intrusive and non-intrusive.

- INDUCTIVE LOOP AND PIEZOELECTRIC.
- PNEUMATIC TUBE.
- LASER.
- RADAR, INFRARED AND ULTRASOUND.
- TRIPLE TECHNOLOGY.
- BLUETOOTH (ORIGIN/DESTINATION).
- VIDEO ANALYSIS AND AID.
- COUNTER FOR BICYCLES AND PEDESTRIAN.
- REPORTING WEB SOFTWARE.

Installation of piezo-loop-piezo counters in Rajasthan (India).

Gantry with laser classification, RFID and LPR. Lamacs (Peru).

Traffic counters Mª de Fomento (Spain) and Bielsa tunnel.

Automatic incidence detection (AID) in tunnel (A 24 Portugal).

Installation of counters and HSWIM on the Portuguese A4.

Triple technology classifier at the Port of Valencia (Spain).

CUSTOMERS

INDRA, FERROVIAL, ESTRADAS DE PORTUGAL, MINISTRY OF DEVELOPMENT, ISOLUX, ACCIONA, FCC, AZVI, ALVAC, OHL, VIARIO A3 CONCESSIONAIRE, VALORIZA, ARAGON HIGHWAY CONCESSIONAIRE CO., PORT OF TARRAGONA, OHL, CHM, ETRA GROUP, GERTEK, ETRA, TELVENT, INNOVIA COPTALIA, IPARAGSA, PORT OF VALENCIA, UNIVERSITY OF SEVILLE, SPANISH CENTER OF METROLOGY, CINTRA, EGIS, SICE, MOTA ENGI, GOVERNMENT OF HONDURAS, GOVERNMENT OF EL SALVADOR, EUROCONSULTING, TARYET, ETC.
ACCESS CONTROL
Global Platform of identification and access control.

- Licence Plate Recognition.
- Container Code Recognition (ACCR).
- Radio Frequency (Tags, Cards, etc.).
- Priority of Access and Transit.
- Biometric Systems.

INTERNATIONAL EXPERIENCE WITH READING LICENSE PLATES AND CONTAINERS

Cáceres Parking (Lima).
Speed control in the Port of Valencia access.
Access Control with RFID and license plate reading at Cimpor Group.
Reading of front and rear license plates.
Audit and identification system (Lima).
Example of monitoring access software.
LPR and lane management LAMSAC (Peru).

CUSTOMERS
TIS-TELEFONICA, TAP PORTUGAL, MUNICIPALITIES OF CORUÑA, ZARAUTZ, AND BALMASEDA, SETELSA, PROSECUR, LAP (PERU), LAMSAC (PERU), CIMPOR - COSMOS CEMENT, TRANSPORT OF CANTABRIA CITY, PORT OF VALENCIA, MUNICIPAL POLICE OF VALLADOLID, BUSINESS PARK CABECICOS BLANCOS (Murcia), TOWN HALL OF VELEZ RUBIO (Almería), FINANCIAL CITY OF SANTANDER BANK, PORTALES PARKING LOTS (PERU), UNIVERSITY OF CANTABRIA, TOWN HALL OF RIANYO. Access control in factories, campsites, community garages, etc., up to 294 installations of this type.
KINEO ACCESS CONTROL

Characteristics and applications.

Characteristics:

- PLUG & PLAY INSTALLATION.
- CLIENT/SERVER ARCHITECTURE AND WEB ENVIRONMENT.
- FLEXIBLE AND SCALABLE SYSTEM.
- CAN BE INTEGRATED WITH CONTROL AND/OR SAFETY SYSTEMS OF THIRD PARTIES.
- UNLIMITED NUMBER OF LANES.
- REVERSIBLE AND BI-DIRECTIONAL LANES.
- SIMULTANEOUS MANAGEMENT OF BLACK AND WHITE LISTS.
- INTEGRATION OF LPR (License Plate Recognition), RFID, AND BIOMETRIC TECHNOLOGY, ETC., IN THE SAME APPLICATION.

Applications:

- PUBLIC AND PRIVATE CAR PARKS.
- CORPORATE BUILDINGS, INDUSTRIAL AREAS, CAMPSITES, HOTELS, SERVICE STATIONS, ETC.
- ACCESS TO RESIDENTIAL AREAS AND TOWNS.
- BORDERS AND TOLL LANES.
- SECURITY AND PUBLIC CONTROL.
- ANY ENVIRONMENT IN WHICH IT IS NECESSARY TO MANAGE THE ENTRANCE/EXIT OF VEHICLES.

- Powerful global platform that allows the management of access control systems by means of license plate recognition with the ability to integrate RFID systems, biometric sensors (fingerprint, facial recognition, etc.), context-sensitive cameras, etc.

- Open software that enables integration with access control solutions from third parties.

- Graphical interface, both easy and intuitive for the different user profiles, simplifying both start-up as well as the use of access control.

- Multiparking. Allows the control of multiple car parks from the same system.

- Management of traffic lights, barriers, bollards, etc. both entering and leaving, and the management of special vehicles (simultaneous opening of both barriers in wide accesses).

- Unlimited white and black lists differentiating between types of user/client of parking/access on the basis of schedules, position, places, access permissions, etc.

- Control of the travel direction for narrow lanes or with the possibility to open them up.

- Local or remote management without limitation of the number of accesses and identifying the access.

- In the case of remote control, it incorporates the management of incidents.

- Reading of the license plate and RFID in Parking and Freeflow mode.

- Management of business units (companies, homes, land plots, etc.), associating vehicles and establishing access permissions.

- Occupancy control and management of spaces. The system allows control of the occupation volume of the carpark as well as the management of the spaces. Even the generation of access vouchers with information on the use of the vouchers via SMS and e-mail.

- Management of visits associated with existing business units.

- Allows information of movements that have taken place in an access, permitting a search by type of access, business unit, license plate and driver, between certain dates, etc., with the ability to print the obtained results.

- Image associated with each license plate reading, allowing a rapid recovery of the vehicle movements both entering and leaving.

- The license plate is obtained, with up to two digits not visible, with a reliability of 99%, if it belongs to an authorized vehicle. Reading of international license plates with operating experiences in Peru, Mexico, Senegal, Portugal, etc.

- BBDD (databases) compatible with all the standards.
INTERNATIONAL EXPERIENCE

Installation of weigh station in Colombia.

Installation of bending plate for the Transmilenio (Bogota).

Installation of counting and high-speed weighing in Kuwait.

Installation of counting and classification station in Lima.

Installation of weigh scales in Chile. Counting station in the Azores.

- **KINEO IS PRESENT IN PERU WITH KINEO ITD SAC SINCE 2012 AND IN PORTUGAL SINCE 2013.**
- **WE OFFER OUR DESING, INSTALLATION AND COMMISSIONING SERVICES FOR WEIGH STATIONS, AS WELL AS FOR COUNTING, CLASSIFICATION, AND ITS SYSTEMS IN GENERAL, AND FOR ACCESS CONTROL PROJECTS AND INDUSTRIAL PROCESS AUTOMATION PROJECTS IN ANY PART OF THE WORLD.**
- **WE HAVE DEVELOPED PROJECTS WITH INSTALLATION SERVICES IN INDIA, PERU, COLOMBIA, CHILE, BOLIVIA, PORTUGAL, THE MIDDLE EAST, MEXICO, KYRGYZSTAN, ETC.**
- **WITH OUR OFFICES IN EUROPE AND SOUTH AMERICA, WE OFFER ON-SITE OR REMOTE SUPPORT VIRTUALLY 24 HOURS A DAY.**
- **OUR USUAL CUSTOMERS OVERSEAS ARE THE LARGE TRAFFIC ENGINEERING FIRMS, CIVIL WORKS BUILDERS WITH DEVELOPMENT IN INTERNATIONAL BUSINESS AND GOVERNMENTS TO WHOM WE OFFER OUR PORTFOLIO OF SPECIALIZED SOLUTIONS AND A VERY HIGH LEVEL OF PERSONALISED SOFTWARE APPLICATIONS DEVELOPED BY KINEO, INCLUDING MULTILINGUAL CAPACITY.**
- **SOME OF OUR INTERNATIONAL PROJECTS INVOLVED VARIOUS MONTHS OF WORK WITH PERSONNEL OUT IN THE FIELD.**
- **WE WORK WITH ASSOCIATED COMPANIES THAT GIVE US LOCAL SUPPORT AND GENERATE BUSINESS COUNTING IN SOME COUNTRIES OF LATIN AMERICA, AFRICA, THE MIDDLE EAST, ETC. THAT GIVE US LOCAL SUPPORT AND GENERATE BUSINESS COUNTING ON KINEO AS ITS ENGINEERING DEPARTMENT OF EXTERNAL TRAFFIC.**
CASE STUDIES

MAINTENANCE SERVICE OF THE COUNTER NETWORK OF THE MINISTRY OF DEVELOPMENT (SPAIN).

Kineo performed the maintenance on the state counters network in the north half of Spain with close to 2000 counters on 2 to 30 lanes between permanent, secondary and general coverage stations. Kineo is also responsible for the repair of nearly 1000 PeekTraffic ADR counters that the Ministry has deployed between permanent stations and temporary counting equipment. In parallel, Kineo installs dozens of new counters for civil works companies building new highways or renovating existing ones.

FOUR WEIGHING STATIONS ON THE DESERT ROUTES R1 AND R16 IN CHILE. MINISTRY OF PUBLIC WORKS - SACYR-INDRA.

Between 2014 and 2015, Kineo installed weighing stations with two selective lanes each, with bending plates and axle discrimination for weighing at medium speed, and a control scale for axles at low speed. This includes the reading of license plates and control of the electronic signalling panels. For this project, a local management software was developed according to the Chilean regulation and a reporting application in web environment. In addition, three counting and classification stations were installed with piezos and loops. The systems are in operation and have been certified by the MOP (Ministry of Public Works) of Chile.

CORUÑA SMART CITY: CONTROL OF RESTRICTED PEDESTRIAN ZONE, RED LIGHT PHOTOS, COUNTING, CLASSIFICATION, AND TRACKING BY VIDEO OF ILLEGAL PARKING (DOUBLE PARKING, LOADING AND UNLOADING, AND BUS STOP).

Project focused on improving the traffic in Coruña through the use of non-intrusive technology such as the detection by video analysis of illegal parking (VPV - Velocity Profile Viewer) at 39 points, the counting, classification, and tracking of vehicles by video and ANPR at 5 points, and the detection of jumping traffic lights at 4 points. In addition, different restricted pedestrian areas are controlled (ZPR) through license plate recognition to identify authorized vehicles according to different access profiles in free-flow mode (without bollards, for example). There are 36 ZPR zones each of which has a license plate camera and a context camera to generate valid evidence to justify a fine for infractions, similar to the VPV and Red Light Photo zones. This evidence is managed from a web application.

ORIGIN/DESTINATION MATRIX USING LICENSE PLATE READING IN LIMA (PERU).

Kineo often carries out traffic photo campaigns for the creation of origin/destination matrix. Depending on the country, we use license plate reading or the detection of Bluetooth signals. For the reading of license plates, we have autonomous teams composed of pairs of cameras in an adjustable frame and a processor in a watertight cabinet. With this system, we can read license plates in up to 4 lanes. We use bridges, traffic lights, street lights, etc. as supports. Where the Bluetooth has greater penetration, we use Bluetooth MACs detectors, and WiFi networks with a range of up to 25 meters, discriminating between the detection of a signal from a telephone or a vehicle and encrypting the detected ID.

LPR (13 lanes) AND REMISSE TAXI CONTROL IN THE LIMA AIRPORT FOR LAP (LIMA AIRPORT MANAGER).

Kineo has developed a complete web application for the management of the remisse taxi fleets that access the Lima airport. At the entry and exit of the circuit, Smartcam type license reading cameras have been installed that automatically process the license plate data and send it to the LAP virtual server. Thirteen LPR lanes were installed in 2017 during the remodeling of the vehicular control system.
WEIGHING STATIONS ON THE RUTA DEL SOL TRAMO 1 (COLOMBIA). KORAN AND GAUDUAS.

Installation with pre-selective bending plate type weighing, penalty weighing, overweight, license plate readers, electronic panels of directionality, signal lights, etc. This includes the application of station management adapted to the Colombian legislation, and implementation of operational reports in a web environment. The provision includes a portable CET 10-68 dynamic weighing scale to carry out mobile controls for all the concession. The installation was made entirely by Kineo technicians on the civil works constructed by the customer 2014, and 2016.

LA PLATA HIGHWAY CONCESSIONARY COMPANY S.A.: COUNTER NETWORK WITH CCVT, SOLAR POWER AND WIRELESS COMMUNICATIONS. A66 BENAVENTE-ZAMORA.

Kineo has installed the counter network with ADR5000 loop-loop equipment, with GPRS/3G communication. Each ETD is associated with a CCTV dome camera on 35-meter columns and a solar power supply for all the equipment. There are three panels of 380 watts per point with 4, batteries of 230 amps. These autonomous systems permit monitoring the road with sufficient counting capacity and a minimum cost of communications infrastructure and power supply.

TRANSMILENIO (BOGOTA): TYPE BENDING PLATE WEIGHT SYSTEM (UP TO 60 KPH) FOR WEIGHING OF BUSES INTEGRATED WITH SYSTEMS TO MEASURE PAVEMENT DEFORMATION.

The BUS lanes of the Transmilenio in Bogotá suffer a high degradation of concrete paving. To measure the resistance of the new compounds, various sensors have been installed to measure the deformation of the concrete, with a bending plate type scale to weigh the passing buses since it is necessary to relate the weight of the vehicle to its impact on the pavement.

COUNTING NETWORK IN LIMA (PERU): ELEVEN COUNTING STATIONS FOR 72 LANES LOOP-LOOP.

During the first phase in December 2014 and the second phase in July 2015, 72 counting lanes were installed on the main avenues in different areas of Lima, with locations of between 3 and 11 lanes. An average of 45,000-50,000 vehicles is registered by counters with volumes up to 120,000 vehicles/day at some of the points. All points are powered with solar energy, and they communicate using GPRS/3G modems that automatically upload the data from each site to a web environment for the utilization of the data in tables, graphs, export to PDF and Excel, etc. HITRAC, EMU3, and HITRAC UTCL traffic counters are used. The latter units are very compact, IP68, and with an integrated modem, for use on small pillars 75 cm in height, complete with a solar panel. Because of their size and appearance, they go completely unnoticed in the urban environment, preventing vandalism.

KUWAIT TRAFFIC MANAGEMENT SYSTEM: 32 COUNTING AND CLASSIFICATION STATIONS, AND 11 HSWM UNITS. TOTAL 220 LANES. SUPPLY, INSTALLATION, AND COMMISSIONING WERE COMPLETED BY KINEO

In 2016, KINEO completed a "turnkey" project for INDRA and PWD, its local partner. Between two and six KINEO employees worked there during four months to obtain the complete certification of the two counting and dynamic weighing systems. KINEO supplied all the components of hardware and consumables and carried out the integration of the databases in the project operating environment. The system classifies according to the FHWA (Federal Highway Administration) and weighs according to class B10 of the COST 232. The Government of Kuwait contract requires the total integrity of the data, for which reason the system generates alarms for the malfunction of sensors, ETD, battery status, alarm for on/off switch, etc. The communications are through a GPRS/3G unit, and the data is downloaded every minute by VBV.
CASE STUDIES

LOS PORTALES PARKING LOTS (PERU).
Reading of license plates on 102 lanes at mega-lots, micro-lots, commercial centers, and airports. We highlight the Plaza San Miguel mall, the airports in Lima and Cuzco, and the parking lots at Cáceres, Camino Real, Ovalo Gutierrez, Parque kennedy, etc. We also installed "find your car" system guides. In addition, a management system was developed for mini-lots to identify subscribers with a count of entrances and exits to audit the operations in parking lots without barriers. Integrated systems in the corporate management of parking lots.

VIARIO A31. CONCESSIONARY OF ALICANTE SECTION OF THE A31 HIGHWAY.
Concessionary shadow toll system with 36 counting and classification stations, several of them prepared for the collection of data with piezoelectrics and one with high-speed weighing. All the stations upload their data to a publication server via GPRS for decentralized management of the concession management parameters in the web environment.

SIMILAR PROJECTS: Murcia Road Authority: a new loop-piezoloop counting network with automatic data upload to the territory web page.

MANAGEMENT OF THE DIRECTIONALITY OF THE BIELSA-ARAGNOUET TUNNEL, PYRENEES.
Cross-border tunnel of Bielsa-Aragonouet, 3,070 meters long and located at almost 1,800 meters elevation. Management of the unidirectional capacity of the tunnel (narrow lanes of 2.60 m) depending on the type of traffic recorded by eight data measurement points at 5 km, 300 m, 30 m, and 90 m inside the tunnel on both sides. With this data, the system manages the ventilation, traffic lights, indicator panels, etc. A piezo-loop-piezo system for data collection in any environmental condition controls the flow in seven areas inside the tunnel to determine the position of stopped vehicles.

SIMILAR PROJECTS: Cotefabio Tunnel on the N-260 in the Huesca Pyrenees. 690 meters long with 2.5 m wide lanes and at 1,420 meters elevation. This includes the management of traffic lights. This system is also installed in the FEVE Corrales tunnel (Cantabria).

THE MEXICAN GOVERNMENT: GENERAL CUSTOMS ADMINISTRATION WITHIN THE PROGRAM "SIAVE" (Control System of Vehicular Characteristics):
Equipment on 200 light-vehicle lanes with license plates recognition, dimensional calculation by laser, and dynamic weighing. The purpose is to register indicators of possible fraud in lanes of 'nothing to declare' instead of relying on random inspection systems. KINEO participated in the selection of technologies and suppliers, and in the in-situ integration of the license plate recognition with the weighing system.

TRANSPORT AND COMMUNICATIONS MINISTRY OF PERU: SUPPLY OF 13 PORTABLE WEIGH SCALES AT LOW SPEED WITH A COMPLETE SOFTWARE SYSTEM FOR CONTROL AND REPORTING OF DATA TO THE CENTRAL SERVER OF SUTRAN (Superintendence of Transport)
CAPTEL5 CET10-68 systems with portable signal-lights and speakers to manage control at a low speed (5-8 km/h). These systems are in operation throughout Peru, both in subtropical, mountain, and montane climates. The weighing software was customized according to the needs of the Peruvian government.

SIMILAR PROJECTS: 16 road maintenance contracts in Peru have Kineo portable weighing systems, and Acos-Chancay has one weigh station, the Ruta del Sol Stage 1 has two complete weigh stations installed for SICE-HELIOS, and ABC Bolívia has a weigh station in Uyuni and 4 more in Guasqui, Monteagudo and Abapo.
CASE STUDIES

PORT OF VALENCIA INTEGRATED CONTROL SYSTEMS AT THE ENTRANCES (WEIGHING, COUNTING AND SPEED CONTROL).

Nine weigh scales are installed in the south access of the Port using axles on speed weight systems, six lanes have a triple technology TT298 (8+1 classifications) non-intrusive traffic counter, and three entrance lanes have speed indicator panels (limit 8 km/h) that also report the speed in real time to the Port police. All the data are integrated into the Port SCADA using a gateway developed by Kineo.

NETWORK OF DYNAMIC WEIGH STATIONS FOR THE ADMINISTRADORA BOLIVIANA DE CARRETERAS (Bolivian Administrator of Highways)

KINEO has installed five dynamic low speed weighing stations between 2016 and 2018 for the Government of Bolivia in various parts of the country. The stations are automatic, with access and exit control, dynamic electronic signaling, license plate identification and CCTV, calculation of height and weight, classification by axles and types of axles, etc. The client works with a fully customized software platform that manages the collection of data, the generation of the fine, and the report of data to a remote control center in a web environment.

SIMILAR PROJECTS: Weighing stations in operation in Spain, Colombia, Chile, Peru, etc. 72 facilities with HSWIM, MSWIM, LSWIM or statics scales.

INTERNATIONAL INSTALLATION OF TRAFFIC COUNTERS: A4 IN PORTUGAL, EUROSCUT AZORES, CHILE, PERU, KUWAIT, AND AJMER-BEAWAR HIGHWAY IN INDIA.

Kineo has installed more than 860 lanes in the last four years with loops and piezos for Indra in Kuwait, Chile, and India, FCC in Portugal, OHL in Peru, and Indra and Ferrovial in the Azores, etc. Of these, 88 lanes were for weighing at high-speed. Kineo used its human resources and tools to guarantee the best result and useful life of the sensors.

FINANCIAL CITY OF SANTANDER BANK: LICENSE PLATE RECOGNITION ON 21 ENTRY/EXIT LANES.

Kineo installed 21 lanes for reading license plates, integrated into the bank’s corporate access management system. The system sends the data through a TCP/IP protocol. The hardware were installed in 2010 and 8 years later is fully operative.

SIMILAR PROJECTS: Cabecicos Blancos business park in Murcia control access to seven entrances of two lanes each with autonomous systems at each point to make the system as robust as possible. The A7 crosses the area so that all communications with the control center, seven km away, are made using WIMAX (Worldwide Interoperability for Microwave Access), with a synchronous or asynchronous update of the information. We also have accesses with the reading of licenses and active tags in Cementos Cimpor for habitual vehicles, with a remote monitoring system of barriers, traffic lights, etc., and authorization against the Kineo database.

WEIGH STATIONS (PUNISHMENT SCALE, PRE-CLASSIFICATION SYSTEM, AND VEHICLE IDENTIFICATION SYSTEM)

Kineo has equipped weigh stations of the Ministry of Development and regional governments with enforcement scales by axles (models R125, R300 and CET10-58), as well as systems of high-speed preclassification with piezoelectrics, a management system of traffic lights, and identification system by PHOTOIMAG image. Operating facilities are located on the A23 in Huesca, A44 in Jaén, N240 in Teruel, N1 in Zaragoza, and RM 2 in Alhama de Murcia.

SIMILAR PROJECTS: Areas of low-cost weighing using portable platforms in fixed frames to have the best weighing lane and the advantages of mobile scales. Ensures a quality weight measurement at low cost with no risk of theft or vandalism. We currently have four weigh areas on the SuperSur A-8 (at four toll booths), and two weigh areas in Álava.
KINEO ENGINEERING was born in the year 2000 dedicated to computer engineering. The company was reformed in 2006 with the aim of resolving needs in the world of traffic, considering that there were many operating vehicles that required traffic management solutions. Whether on a highway, at an access to a port or factory, or in the parking lot of a shopping center.

KINEO ENGINEERING develops its activity in three major areas: the world of ITS with special expertise in counting systems and vehicular classification; the world of weighing both in an industrial environment as a part of logistical processes as well as in the world of transportation control and, finally, the access control with a wide range of solutions for the identification and management of authorizations.

KINEO ENGINEERING has developed many projects around these three major areas of operations in which the integration of systems and the development of software for the management and exploitation of data have positioned us as a "small" world reference beside the sectoral giants. Proof of this is our presence in South America with offices in Peru since June 2012 and in Portugal since May 2013, and the projects that we have completed in Portugal, India, Mexico, Peru, Ghana, Colombia, Bolivia, Kuwait, Chile, etc.

KINEO ENGINEERING applies engineering solutions that are more or less complex according to the needs of the customer, but always with the maxim that a simple solution is more robust and normally more economical. And this is our principal competitive advantage: we handle a wide range of technological solutions to find the most suitable option for the client, from a few simple coils to determine transit priorities in a parking lot, to the fixed weigh system and calculation of the center of gravity of the assembly factory of the Airbus A400M, an integrated system in the aircraft development platform which is critical in its production.

In summary, KINEO ENGINEERING offers a great capacity for integration and customization, and a set of modular platforms for access control, the management of vehicle control systems (weighing, dimensions, speed, etc.), and a traffic information management platform in a web environment.
Counting and classification system
Intrusive and non-intrusive.
- Inductive loop and piezoelectric sensor.
- Laser classifier.
- Radar, Infrared, and Ultrasound.
- Counting for bicycles and pedestrians.
- Video detection.
- Bluetooth (origin/destination matrix).
- Pneumatic Tube.

Weighing systems
Fixed and portable.
- Fixed and Portable.
- Static and Dynamic Weighing.
- Dynamic at Low (5-8Km/h), Medium (40-60 Km/h) and High Speed (Up to 200Km/h).
- Weighing Large Tonnage (Static and Dynamic Dumpers).
- Weighing of Aircraft and Helicopters.
- Weighing of Railway Cars (Fixed and Portable).

Identification and access control
Global platform for identification and access control. **Kineo Access Control.**
- License Plate Recognition (Parking and Free Flow mode).
- Container Code Recognition (ACCR).
- Radio Frequency (Tags, Cards, Etc.).
- Biometric Systems.

Other systems
- Dimensional Calculation of Vehicles by Laser and Infrared.
- Systems of Access and Transit Priority.
- Control systems: over-speed, red-light photo, illegal turn, oversizes, double parking and intrusion through video analysis, etc.
- SOS posts, electronic panels, meteorological and environmental probes.

TRAFFIC ENGINEERING
INTEGRATION OF SYSTEMS AND ITS EXPERIENCE WITH INTERNATIONAL INSTALLATIONS COUNTING, WEIGHING, AND ACCESS CONTROL OFFICES IN SPAIN, PERU AND PORTUGAL