

WEIGH IN MOTION **SOLUTIONS**





GIRWIM solutions provide different control and sanction systems for road and citizen safety.

Achieving greater safety for citizens and preserving infrastructure is one of the main objectives of governments and authorities.



SOLUTIONS

- Weigh in Motion (WIM):
 - High Speed Weighing Control (HSW)
 - Medium Speed Weighing Control (MSW)
 - Low Speed Weighing Control (LSW)
- Portable weighing
- Classification and counter





About us

Girwim is the brand that comprises the technological solutions for weigh in motion in traffic and industries.

Giropes SL has always invested in research and technological development in the weighing sector. Girwim is the result of years of experience designing and manufacturing weighing instruments and know-how growth with highly qualified professionals.

What do we offer?

Aiming to be an integral solution for overload control on roads and industry, Girwim is designed with multiple possibilities that fit the needs for on-road control for a good maintenance of different industries and needs. Giropes is a solid and continuously growing company, resulting from the acceptance of our products and the trust our customers place in them.

What is our philosophy?

We continue to focus on excellence and innovation to provide integral top quality solutions. Commitment, innovation and quality have led the brand to work with highly qualified partners throughout Europe, Africa and America, trusting Giropes and the Girwim brand to continue growing hand in hand.



GIRWIM's solutions enable total management and control in all areas of road and urban safety.

In recent years, it has become essential to accurately capture multiple data from vehicles and other road users in interurban movements and in the cities themselves. Collection and analysis is and will be vital to make its use and management possible.



APPLICATIONS

**ROAD STATISTICS
AND MAINTENANCE**



**HIGHWAY TOLL
CONTROL AND PRICING**



**ENFORCEMENT OR CONTROLS
BY TRAFFIC AUTHORITIES**



**VEHICLE COUNTER
AT TROUBLE SPOTS**



**WEIGHT CONTROL FOR
SAFETY ON BRIDGES**



COUNTERS AND CLASSIFICATION





WEIGH IN MOTION (WIM)

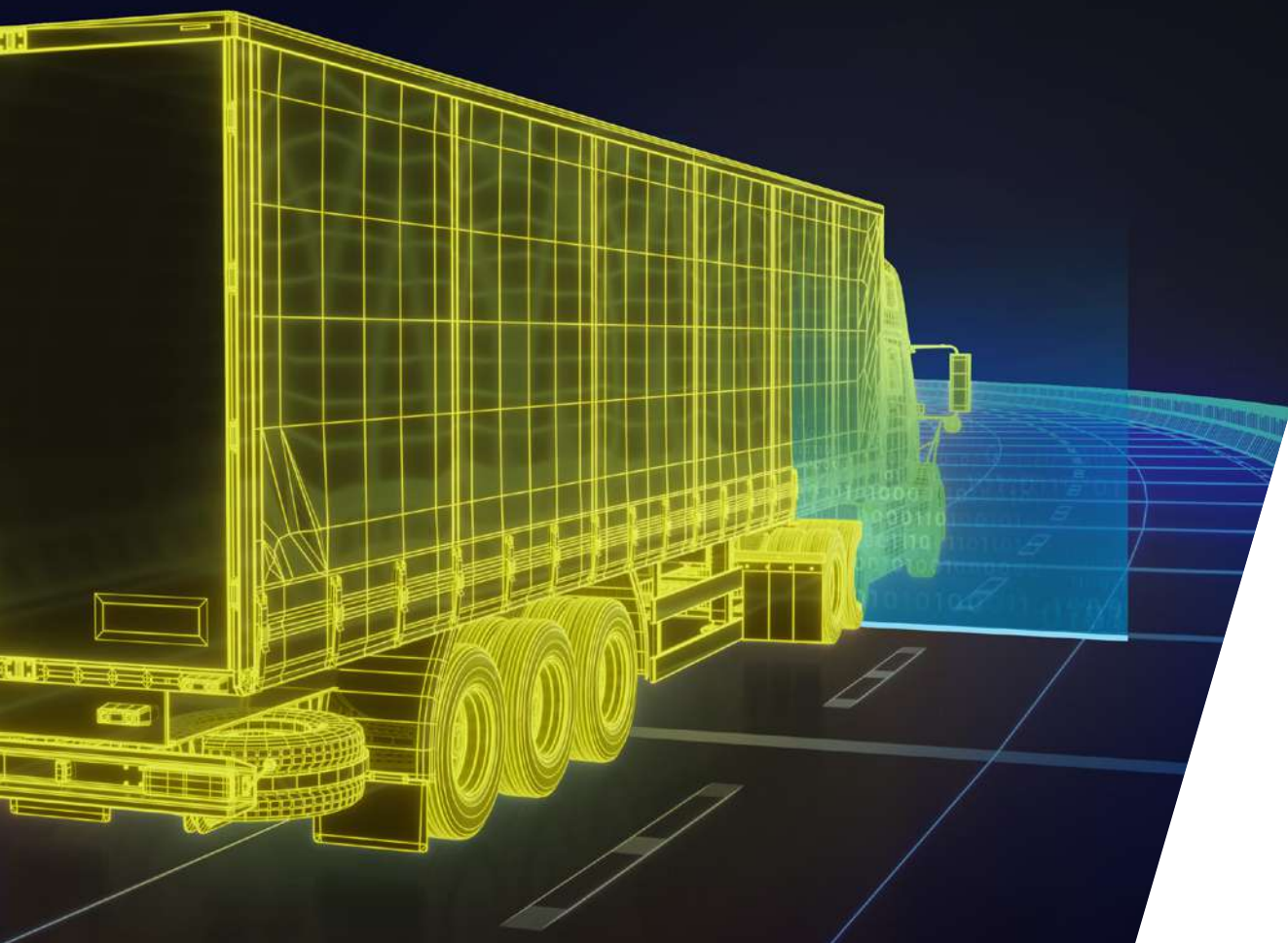
GIRWIM offers different weigh-in-motion solutions for total weight control on roads.


High, medium and low speed weighing systems allow total control of traffic and its weight for safety on highways, bridges and roads with trouble spots.

■ HIGH SPEED WEIGHING (HSW)

High speed GIRWIM solutions are ideal for weight control on roads and highways.

Controlling the weight of vehicles at high speed allows total control of the weight supported by the roadway without having to influence traffic flow.





HSW system records telemetric information from vehicles traveling on expressways at high speeds.

A perfect solution for high-speed roads such as highways and freeways, it allows total control of the weight supported by the roadway to manage maintenance and ensure user safety.

INTENDED USE

- Preselection
- Statistics
- Traffic counters



HSW
HIGH SPEED
WEIGHING

SIGN ON ROAD

A traffic light or a variable messages sign, placed after the scale automatically advises the offenders to deviate or to go to the place where they are going to receive their fine or the traffic agent is going to make a further revision. On the other hand, the vehicles which are travelling without overload and which do not have done any type of infringement are immediately directed to the exit.

DATA MANAGEMENT

GEDDYN software allows to collect and manage the data set recorded. It also allows the imposition of penalties on vehicles that do not comply with the regulations established by the competent authorities.

GEDDYN allows to differentiate weights by each of the vehicle's axles or by axle tandems. For tandem calculation the software allows to set the distance between the centers of the axles depending on the legislation of each country.

SOLUTION FOR ROAD AND BRIDGE SAFETY

STATISTICS AND MAINTENANCE

Vehicle number and weight control recorded and analyzed at these speeds allows for an unimpeded traffic flow.

Road and bridge maintenance is vital for safety. Their pavements or structural hazards can be monitored by the traffic and use given to them. Girwim solution offers data collection, storage, analysis and transmission that allows to determine and plan their maintenance and cost over time.





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MEDIUM SPEED WEIGHING (MSW) LOW SPEED WEIGHING (LSW)

GIRWIM medium and low speed solutions are ideal for weight control at tolls.

Controlling the weight of vehicles accessing the highways is vital for their proper maintenance and, when necessary, applying penalties to overloaded vehicles.





MSW
MEDIUM SPEED
WEIGHING

MSW
MEDIUM SPEED
WEIGHING

The MSW system records information of vehicles at up to 50 km/h. It is an ideal solution when installed on toll booths or moderate speed roads such as inside municipalities.

LSW
LOW SPEED
WEIGHING

LSW
LOW SPEED
WEIGHING

Vehicles pre-selected in the previous control zones are diverted to the third and last Low Speed Weighing (LSW) station, up to 15km/h, or to a static weighing system, in order to perform precision weighing.

The sanctioning process is only valid if it has been carried out with industrial weighing devices that have the relevant metrological certificate.

B615
DATA LOGGER



*HOMOLOGATION WITH AXLE PLATFORM BPPPEM
0,5B dynamic · Up to 10 kph

SOLUTION FOR WEIGHING
AT TOLLS

FLOW AND WEIGHT CONTROL IN ACCESS TO ROADS AND
HIGHWAYS

Girwim's solutions for tolls allow to have a total control of traffic flow, create eco-friendly and safer road networks and have a complete monitoring of the vehicles passing through the road control.

These weighing systems are adapted to medium or low speeds at the toll booths so as not to interfere with vehicular flow, thus avoiding influencing their speed and keeping the flow of vehicles at the toll booths.



PORTABLE SOLUTIONS

Portable weighing solutions are designed for mobile weighing stations.

They consist of wired or wireless wheel weighing platforms and different components used to analyze and read the results, and can be adapted to the needs and peculiarities of the area.

CONTROLS AND PENALTIES BY TRAFFIC AUTHORITIES

Portable weighing systems have the option of wired or wireless connection.

These solutions are ideal for traffic authorities to set up random checks at different trouble spots and perform a vehicle weight control.



PORTABLE SOLUTION FOR CONTROL STATIONS

ROAD SAFETY

Girwim offers a set of portable solutions to provide mobile weighing stations to authorities in order to perform random roadside checks and detect vehicles with axle loads above the regulations.

Thanks to this solution, the weight of vehicles can be individually controlled and thus penalize those that are not within the limits and jeopardize the state of the roads and the safety of other users.

CERTIFIED WIRELESS SYSTEM

It can be connected to the weighing platforms through a wireless or wired system, being able to connect directly with the GESDYN software or also using the GI620 portable indicator.

It allows both static and dynamic axle weighing thanks to its specialized firmware. The addition of a printer allows to print a ticket with the weight of each axle and the total weight of each axle, and to make a copy for the offender if necessary.



OUR SYSTEMS AND SOFTWARE

This solution allows the variation of components according to data collection needs. The weighing platforms themselves can also be chosen with wireless or wired transmission. Starting from the weighing element, the system can be configured with a GI620 portable indicator and/or the Gesdyn PC software for data management. It may be complemented with multiple peripherals such as cameras and other sensors depending on the requirements.

GESDYN/GI620

*HOMOLOGATION WITH BPRG MOBILE PLATFORM
Classe IIII · Up to 5 kph



PORTABLE STATION SOLUTION

- Approved static and dynamic **SYSTEM**.
- On-road **INSTALLATION** in less than 10 minutes.
- Light **WEIGHT** of platforms.
- Maximum **RELIABILITY**.
Our equipment is used by traffic authorities all over the world.



WEIGH IN MOTION

COUNTING AND CLASSIFYING TRAFFIC

Better decisions need more accurate data.

Girwim technology provides a complete system to collect, storing and share in real time data of any movement of vehicles or cycles.





KNOWLEDGE OF THE STREETS FLOW

Streets and cities are becoming more and more dynamic and require a greater knowledge of their use in order to improve circulation and safety of different traffic agents.

The main data in its key points is the number of users and their classification

DATA SECURITY AND ACCURACY

Girwim offers a robust system extensively tested to ensure encrypted data transmission over multiple connections.

The system architecture has been designed to support and integrate with third-party equipment and software.

Even so, a comprehensive solution is offered for the collection, transmission and exploitation of the data obtained.

B612 DATA LOGGER

GIRWIM DYNA B612 Data Logger is a unit of processing of data specifically designed to interact with GIRWIM systems. It allows the control of the traffic in real time and collects the key data of the vehicle such as the weight of the vehicle, loads per axle and with optional mode, the distances, the speed of the vehicle and much more. And now allows counting and classifying users of cities.

The key is to improve the processing of data and prepare the signals of the weighing platform to achieve a better accuracy and weighing in low speed with the maximum reliability or loops for counting purposes.

GIRWIM DYNA B612 Data Logger is suitable to be used in applications such as traffic data collection, toll collection depending on the weight or counting and classifying vehicles and more.





OUR R&D AND MANUFACTURING EXPERTISE

Our best guarantee is our philosophy and years of experience in the market.

Giropes continues to grow year after year, building a specialized team in each area.

Girwim is a young brand but with a growing know-how and solutions with projects all over the world.

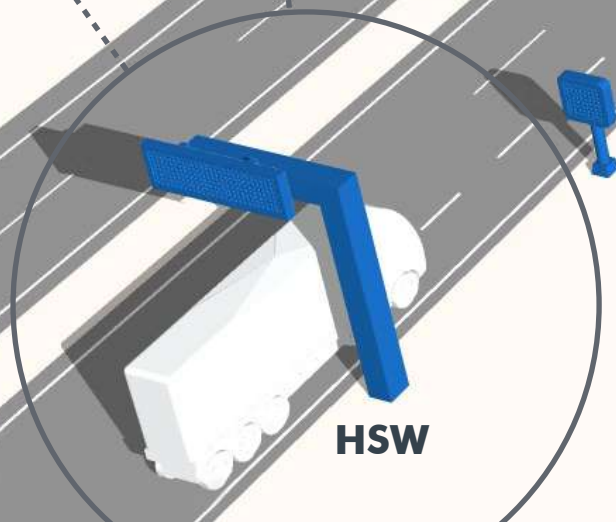
Our team and philosophy of improvement allow us to develop our solutions with the latest technology on the market.



**STRAIN GAUGE
SENSOR**



**DATA LOGGER -
DATA COLLECTION**



HSW



**INDUCTIVE LOOPS,
INFRARED CURTAIN**



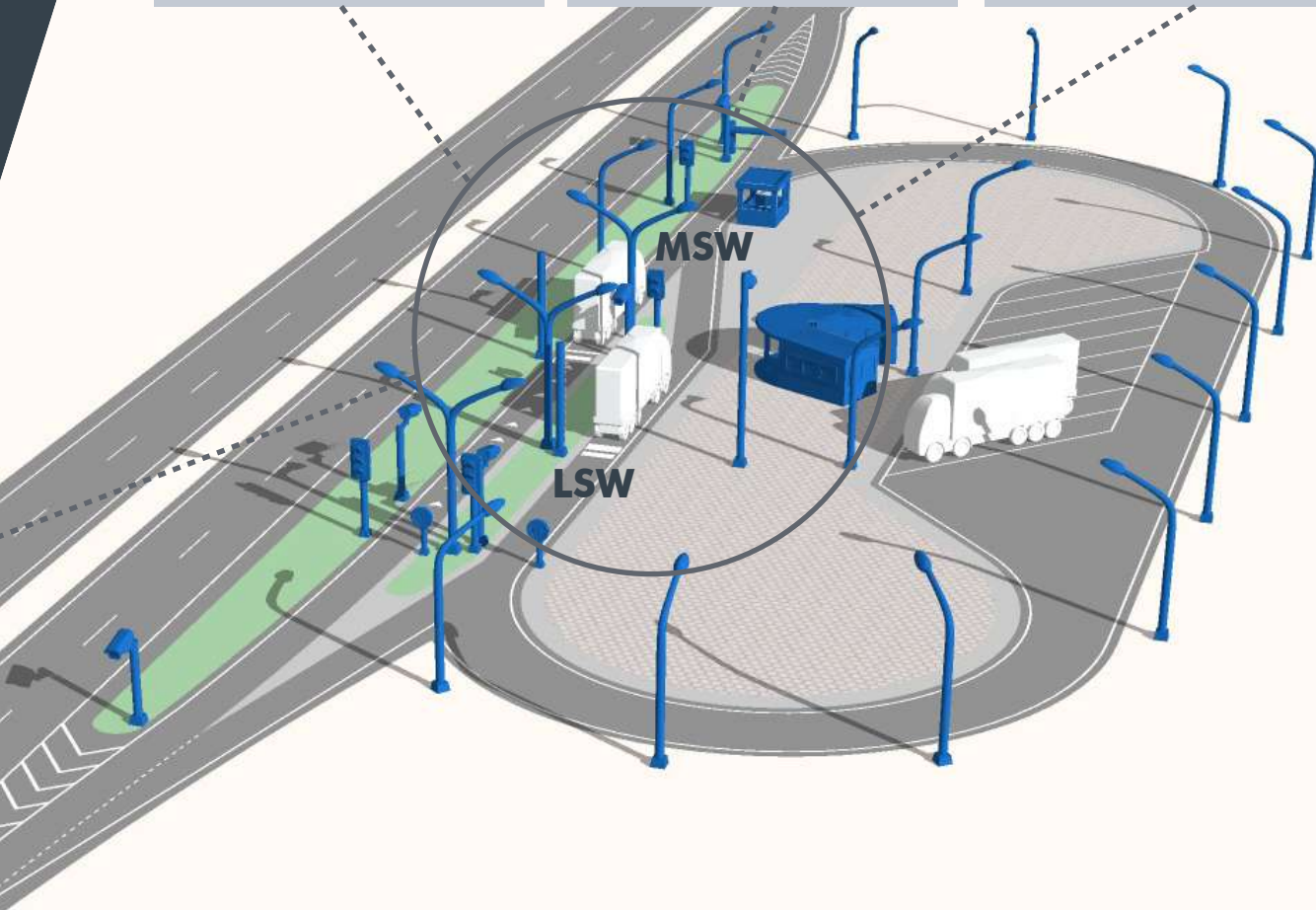
BENDING PLATE



**BPPEM - AXLE
WEIGHING PLATFORM**



**BPRG - MOBILE AXLE
WEIGHING PLATFORM**



**CONTROL AND DETECTION ELEMENTS OF THE VEHICLES.
DATA COLLECTION AND MANAGEMENT.**



**BARRIERS
TRAFFIC LIGHTS**



**CCTV AND ANPR
CAMERAS**



**GESDYN -
DATA MANAGEMENT**



is a trademark of

GIROPES)

#weighingsolutions

