Fleet Management Solutions

TAGITALIA
RFID System & Technologies

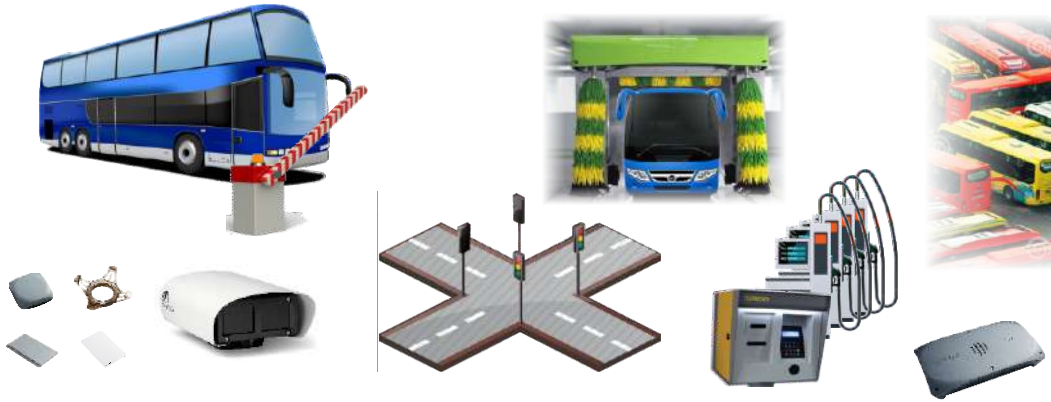
RFID FOR FLEET MANAGEMENT

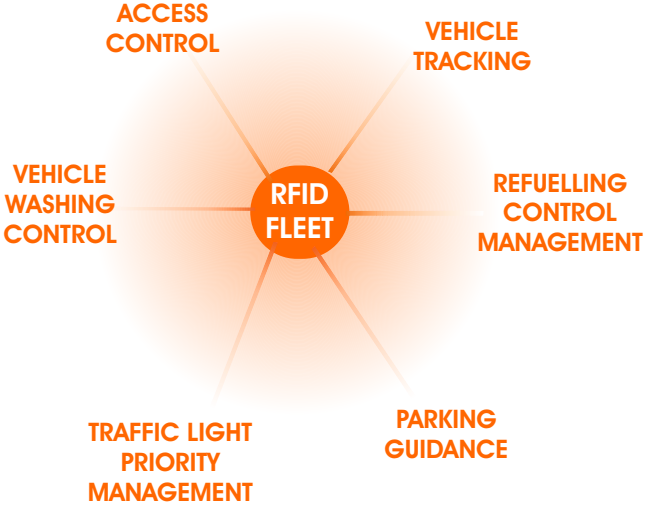
TagItalia is main solution provider for **Fleet Management** services and devices for public and private transport companies.

High level automation in procedures can be obtained using RFID and ANPR technology, can work at the same time or separately, for fleets from **access control** to **refuelling** management, from **parking guidance** to **vehicle washing** and **traffic light priority control**.

Thanks to TagMaster long range RFID technology each vehicle can be identifiead using an RFID tag and the detected ID and information data can be collected by Reader, put in the internal database and shared with external Host if requested.

TagItalia's Fleet Management RFID solution can help to increase the **system efficiency** and to increase the **system security**: all operation can be tracked and information data will be collected for on-line or off-line eleboration.





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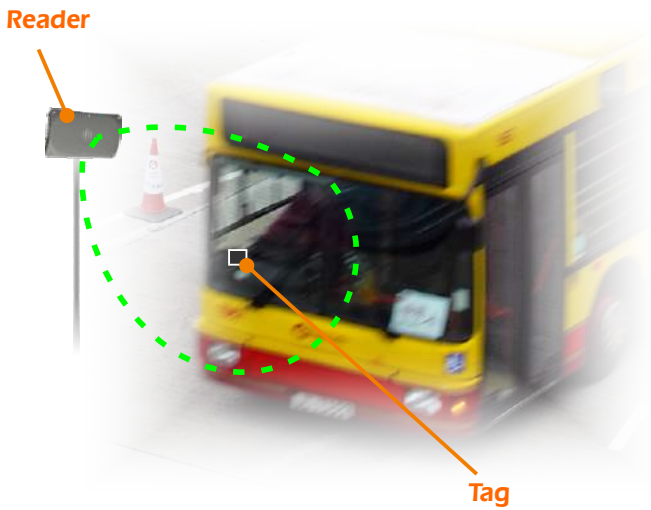
ACCESS CONTROL AND GUIDANCE MESSAGES

- LONG RANGE
- ID DATA COLLECTION
- TRACKING VEHICLE OPERATIONS



This solution using **TagMaster** RFID UHF technology with XT series Reader, Winshield Tags and **Citysync** ANPR camera is well suited for fleet management.

The RFID Reader manages barrier control using a specific emebedded relay output and send guidance messages for vehicles to LED external displays and collected data to Central Host using TCP/IP communication.

- **Long Range** vehicle detection to get immediately gate opening in any weather conditionwith RFID readers and ANPR camera, can work at the same time or separately.

- **Data collection** with vehicle and user ID, Time and date in the internal or external database Linux based application and available for exportation to external Hosts.

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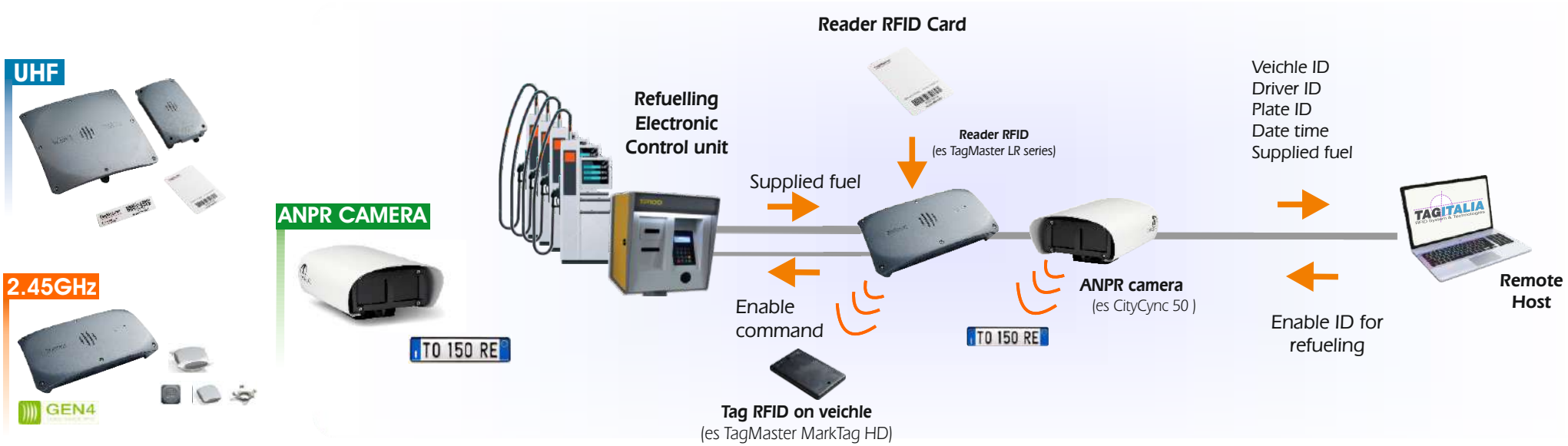
REFUELLING MANAGEMENT AND CONTROL

- AUTOMATIC CONTROL OF REFUELLING AUTHORIZATION
- REAL TIME DATA COMMUNICATION

Thanks to **RFID** and **ANPR** technology, work at the same time or separately, high level automation and efficiency can be obtained for **refuelling management** and control for fleets.

This solution uses a **TagMaster LR series** 2.45GHz RFID reader and **Citysync** ANPR camera interfaced to refuelling system electronic control unit. When and RFID Tag is detected, or the plate is identified by the ANPR camera, the access authorization ID is checked on the internal database: if the ID is enabled an enable command will be sent to the refuelling electronic control unit. In order to increase security level for the refuelling operation the Driver ID can also be checked too.
All the collected data in the internal database application running on Embedded Linux OS can be exported on to a Central Host using TCP/IP communication.



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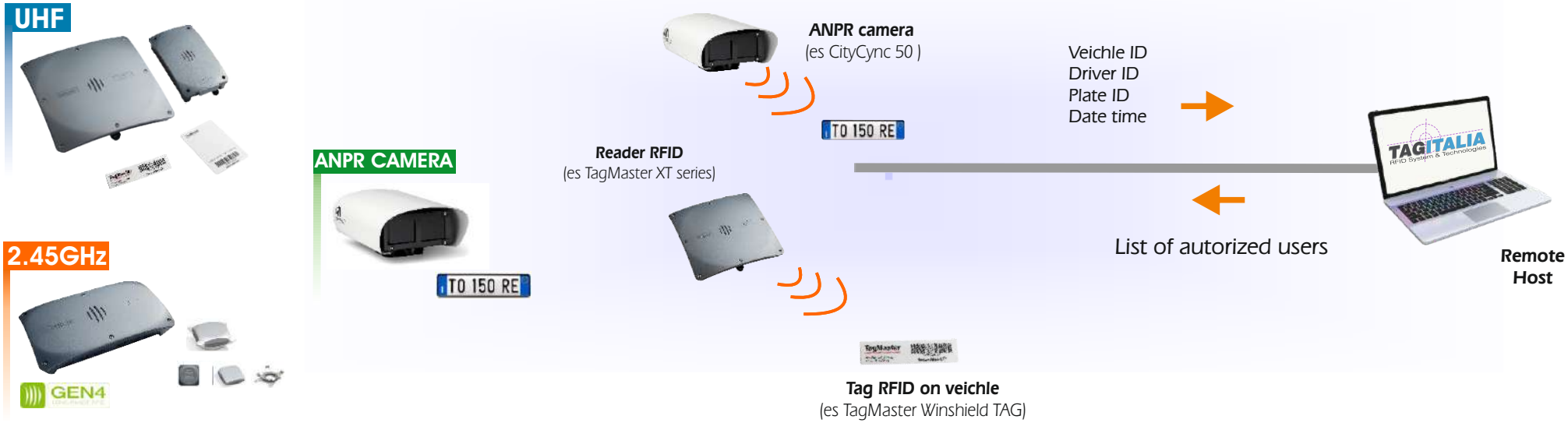
AUTOMATIC WASHING CONTROL AND MANAGEMENT

- VEHICLE TRACKING FOR AUTOMATIC WASHING OPERATION
- REAL TIME COMMUNICATION

Thanks to **RFID** and **ANPR** technology, work at the same time or separately, high level automation and efficiency can be obtained for **automatic washing vehicle management** operations for fleets.

This solution uses a **TagMaster XT series** UHF RFID Reder and **Citysync** ANPR camera to track automatic washing control operations for fleets and manage usage statistic data. The Reader or the camera can be installed at the entrance of the tunnel of the automatic washing system.
When a Tag is detected authorization can be checked and the Tag ID is stored in the internal database. All the collected data can be managed by the Embedded Linux OS application and can be sent to an external Host using TCP/IP comunication protocol. This is to improve efficiency on the management of automatic washing procedures and scheduling for fleets.



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TETRIS PARKING - PARKING GUIDANCE SOLUTIONS

- PARKING MANAGEMENT AND VEHICLE GUIDANCE
- LONG RANGE RFID

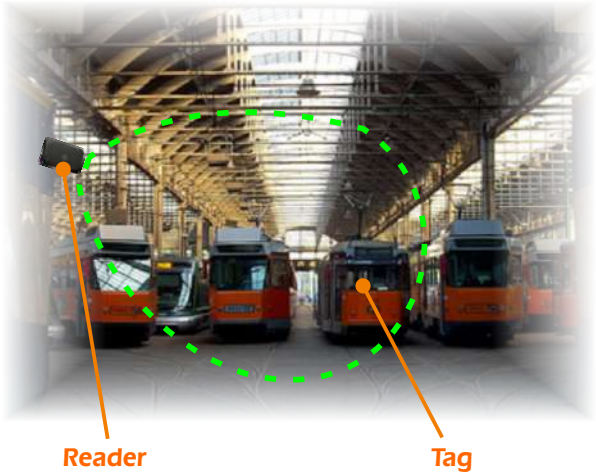
This solution uses **TagMaster** LR series 2.45 Ghz RFID Reader, MarkTag HD ID Tags and **Citysync** ANPR camera for plate identification.

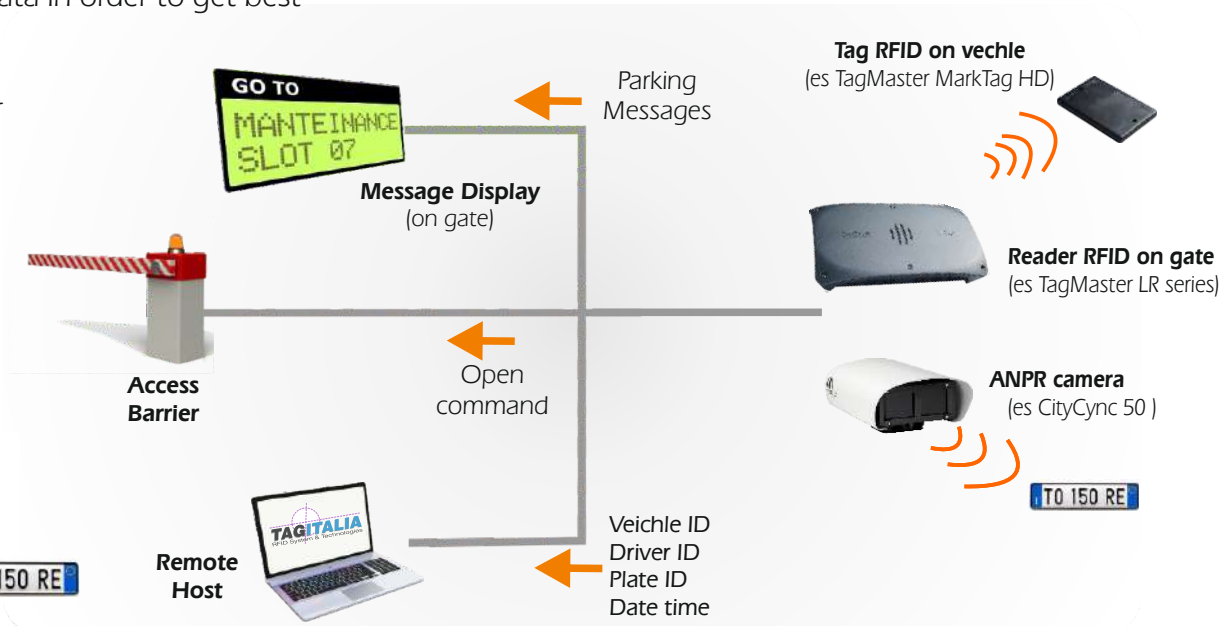
The Reader or the Camera checks for authorization on detected RFID Tags ,or plate detection, and if ok enables access barrier opening via an embedded output relay. The system send parking guidance messages to Display using TCP/IP communication protocol. Statistic and usage data can be collected by a Central Host interfaced via TCP/IP.

- **Long Range** vehicle detection to get immediately gate opening in any weather condition with RFID readers and ANPR camera, can work at the same time or separately..

- **Real Time** parking guidance signaling for vehicles using collected data in order to get best parking management solution.

- **Datetime and Vehicle Tag ID** information collection on internal or external application running on Embedded Linux OS.





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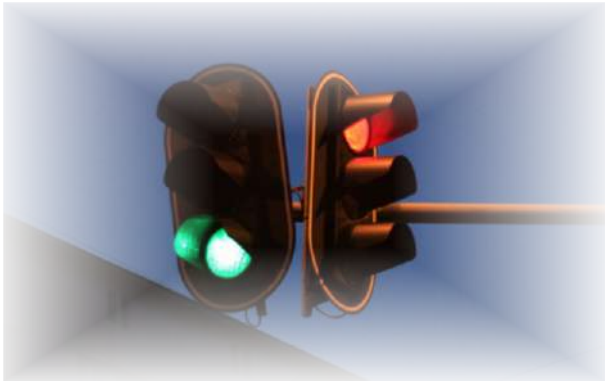
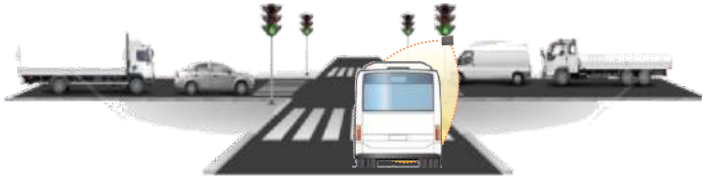
TRAFFIC LIGHT PRIORITY MANAGEMENT

- TRAFFIC LIGHT PRIORITY REQUEST MANAGEMENT FOR FLEETS
- PRIORYTY REQUEST BY RFID TAG DETECTION



This solution is well suited to manage Traffic Light priority requests for fleets using : **TagMaster** XT series UHF RFID Readers, MarkTag HD and **Citysyn**c ANPR camera. The Reader and the camera will be mounted near the traffic light. Each Tag is installed on vehicles.

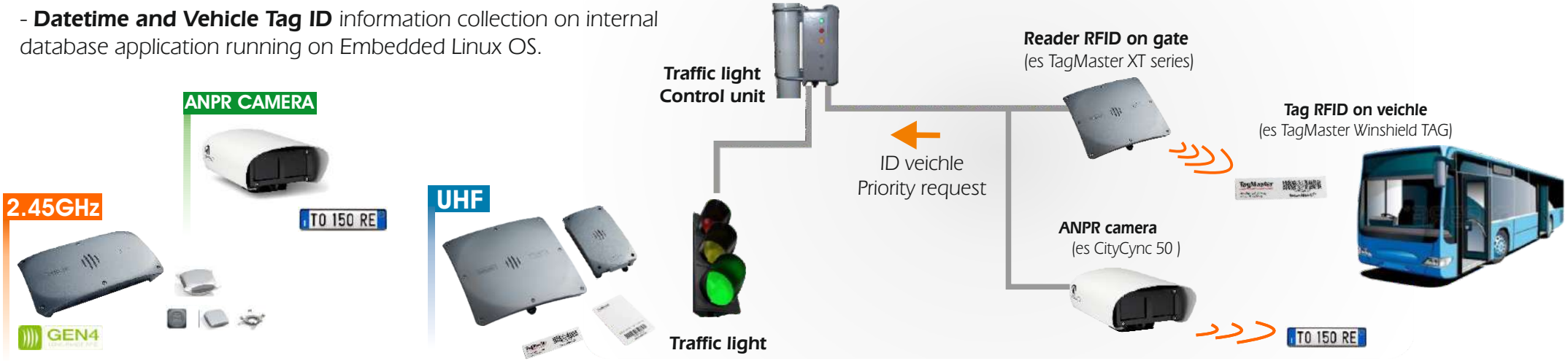
When an authorized Tag is detected the Reader, or the plate is detected by ANPR camera, sends the enable message to the traffic light management electronic control unit or uses a relay output to send the priority request.
The list of authorized users and collected data can be sent and received by Central Host using TCP/IP communication protocol.



- **Long Range** detection for vehicles and driver to obtain maximum efficiency in any weather condition with RFID readers and ANPR camera, can work at the same time or separately.

- **Embedded Database** for authorized users and remote update by Central Host on TCP/IP link.

- **Datetime and Vehicle Tag ID** information collection on internal database application running on Embedded Linux OS.



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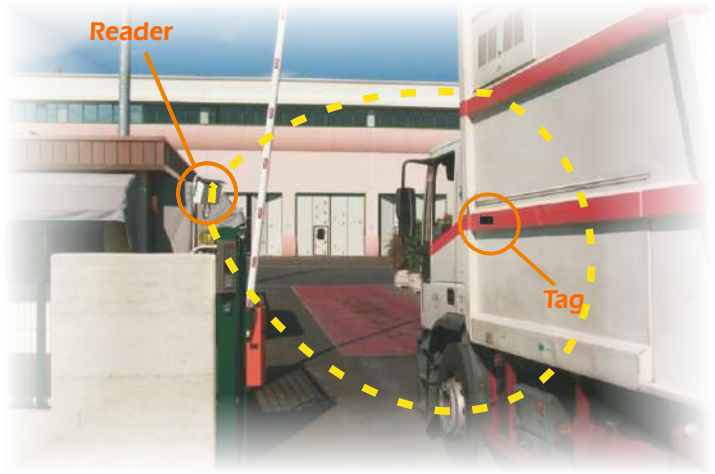
WEIGHT CONTROL SYSTEM

- LONG RANGE
- DATA STORAGE
- TRACKING OPERATION

Thanks to **RFID** and **ANPR** technology, work at the same time or separately, high level automation and efficiency can be obtained for bridge weighing systems.

TagMaster XT series readers and **Citysync** ANPR camera can be interfaced with the Weight Detection System. It is possible to automatically save weight information to the Internal Database to the Reader or Remote Host and to associate it instantly with the Vehicle ID. Thanks to the powerful Linux operating system, the operation is performed in real time, allowing the veichle to resume in few seconds.



UHF

2.45GHz

ANPR CAMERA