Section speed

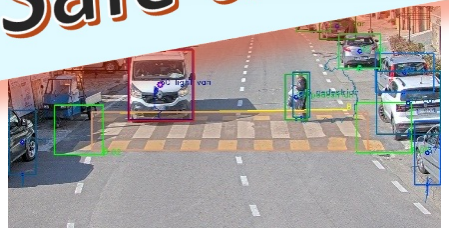
In-vehicle & Fixed Speed

ENGINE

One step ahead

Red Light Violation

Safe crossing



ANPR & ADR

Never stop innovating

- **EngiNe S.p.A.** is one of the most versatile and advanced company in the field of **enforcement**
- One of **EngiNe's mantras is to innovate and introduce new products** on the market every year or enhance/upgrade existing ones with the latest technologies.
- The ENG **R&D team** covers a wide range of skills.

Legal metrology

Big data management

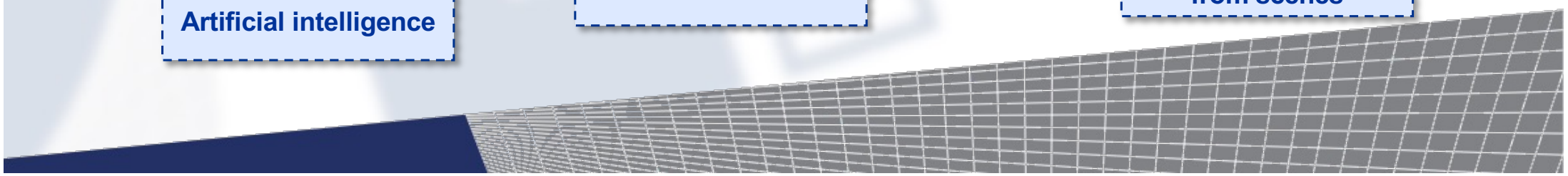
Signal analysis, and image/data processing

Device centralization

Artificial intelligence

Laser & radar devices

Features extraction from scenes



Innovating Milestones

- **2007 - EnVESRED: the world's first red light enforcement device 'Independent' - no physical connection with the traffic light controller is needed.**
- **2009 - CELERITAS: the world's first second-generation section speed enforcement system.**
- **2017 - 17025 accreditation: the first lab in Europe accredited for section speed system calibrations.**
- **2019 - Average Speed @ Venice: section speed enforcement for boats.**

CELERITAS MSE 2021

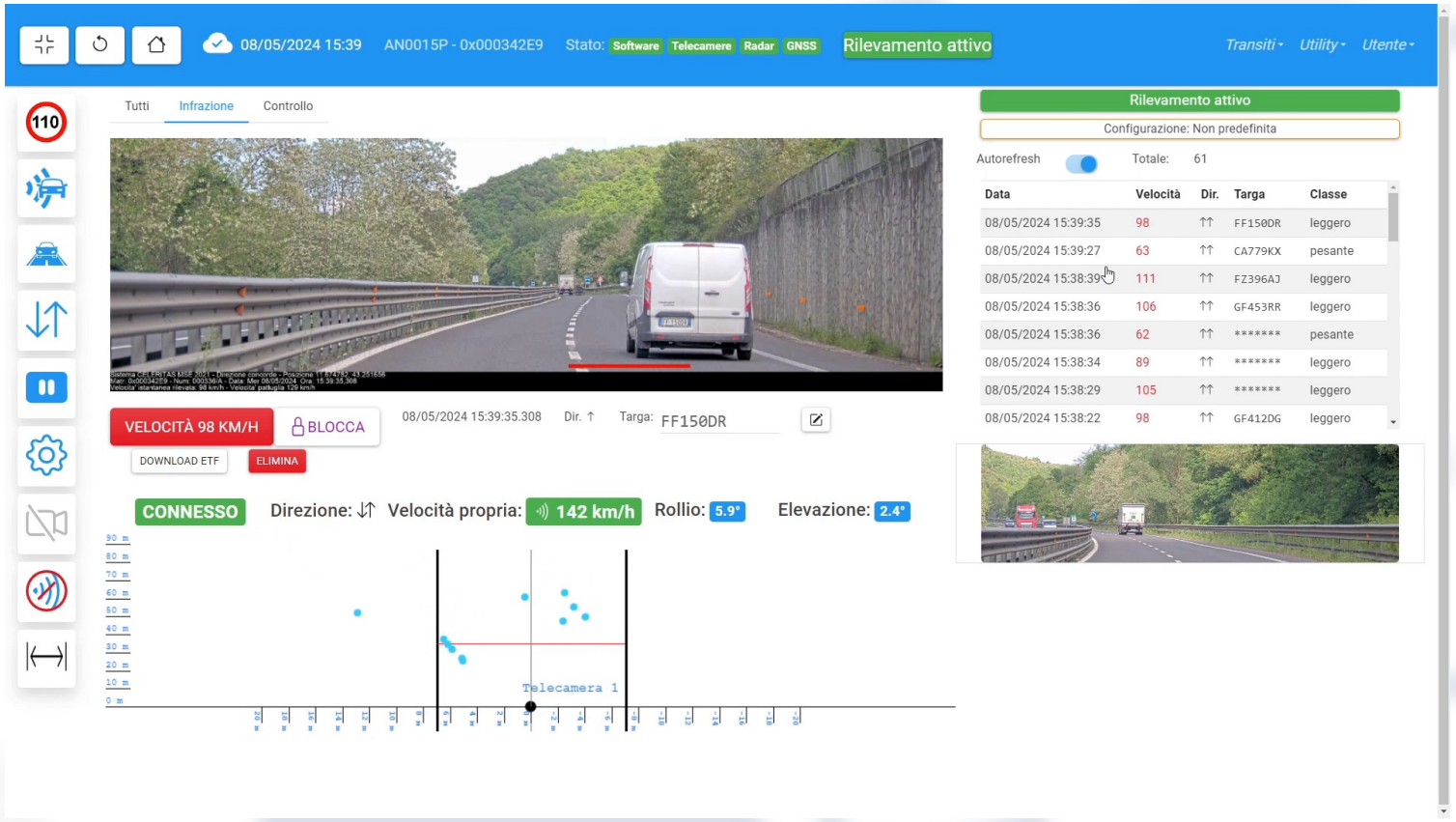
1. Automotive In-Vehicle speed enforcement

Key strenghts

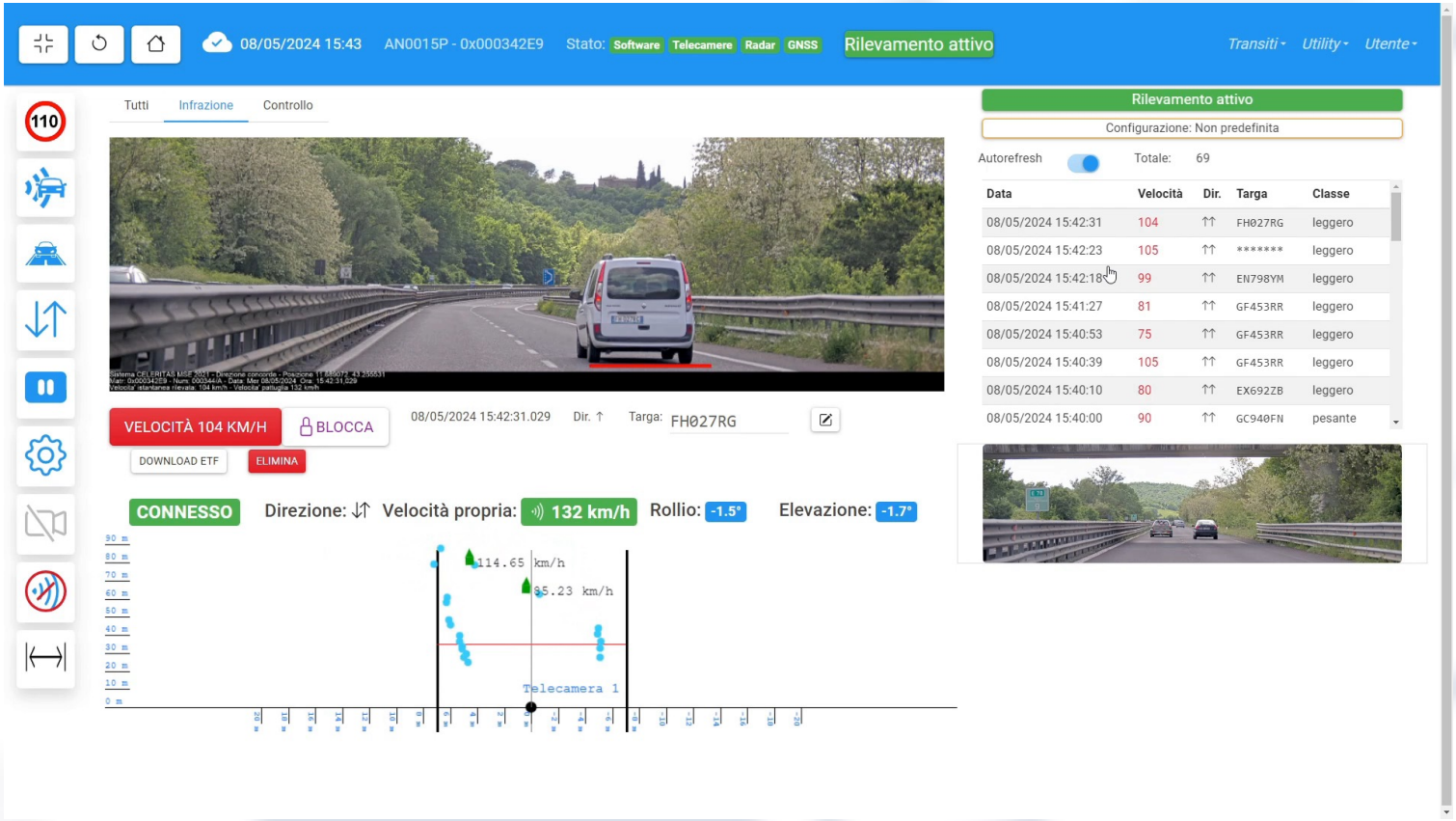
- **No calibration** required and easy installation.
- **Enhanced reliability,** bolstered by AI technology.
- Suitable for up to **three** lanes in **both** directions.
- Improved performance with **artificial intelligence.**
- **Plug** and **play** functionality.

How system works: easy setup

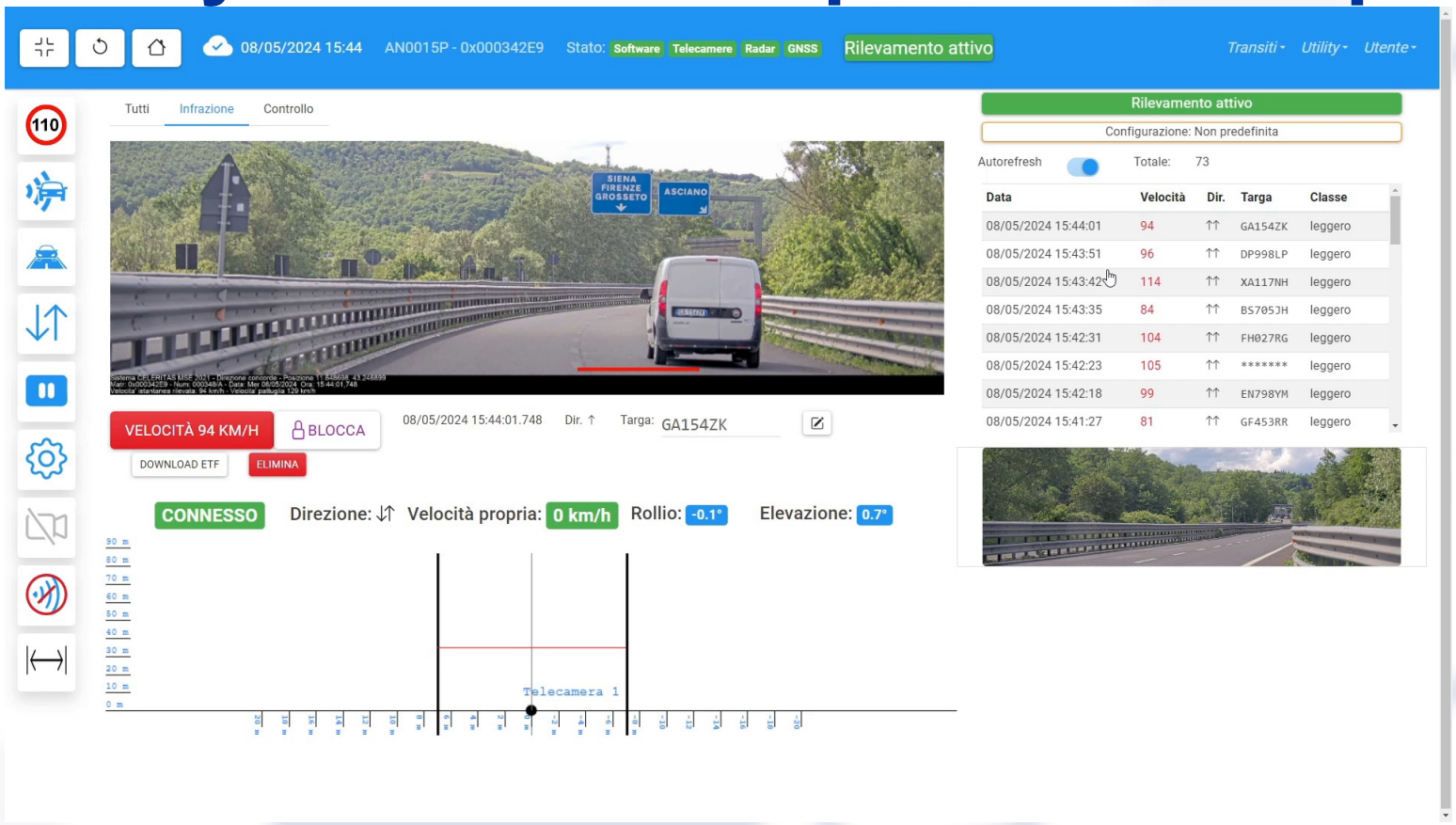
How system works: operative samples



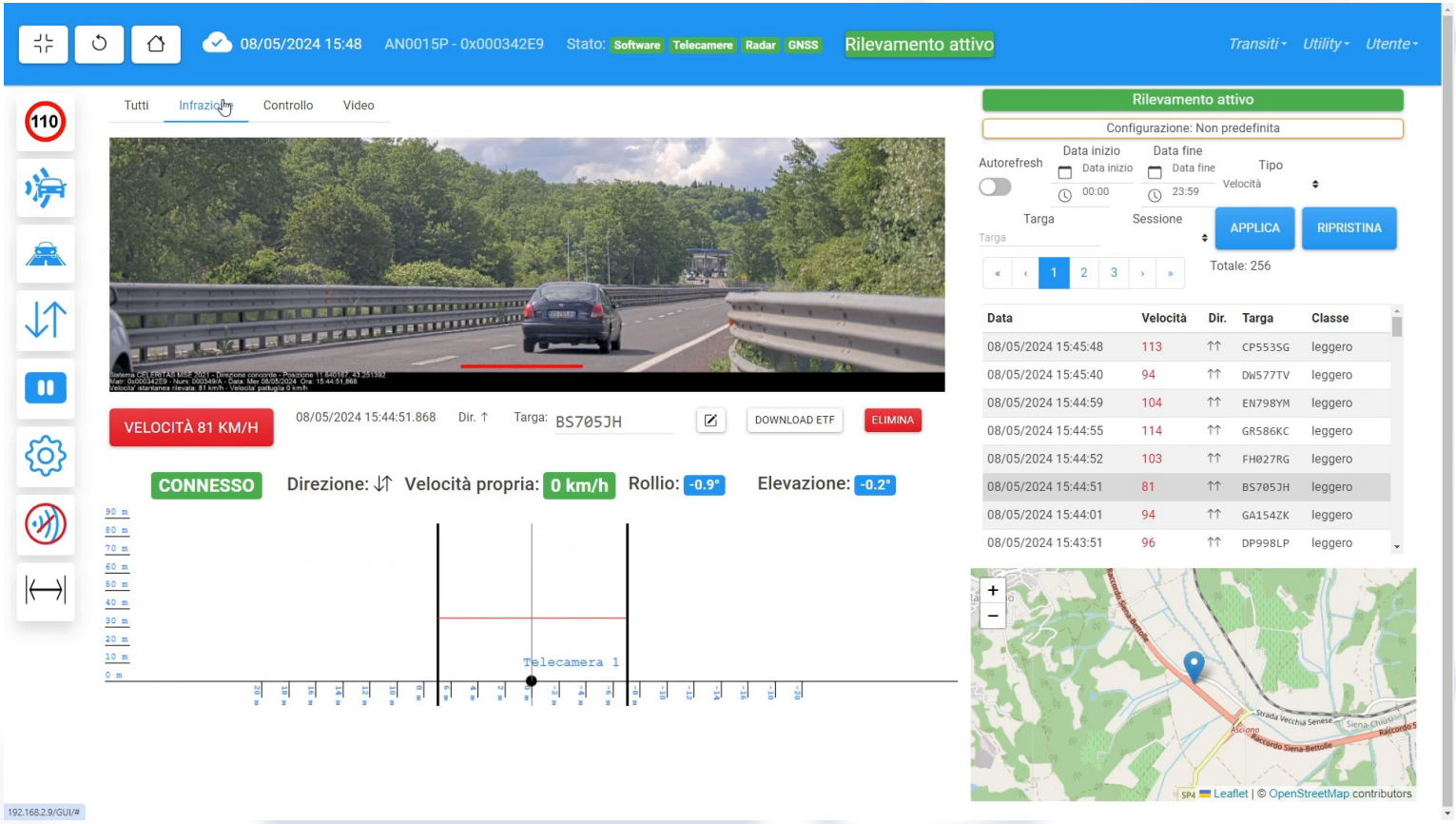
How system works: operative samples



How system works: operative samples



How system works: operative samples



2. Advanced LTZ enforcement

EnVES EVO 1812 in action

EnVES EVO 1812 in a nutshell

- The EnVES EVO 1812 is a system designed to detect **unauthorized access to limited traffic zones**.
- The EnVES EVO 1812 system has been specifically designed with a flexible installation geometry, making it **adaptable to various types of installations**.
- The EnVES EVO 1812 is equipped with a **customized AI engine** that enables the distinction of various vehicle categories.
- The EnVES EVO 1812 is **unique** in its ability to discriminate not only between light and heavy vehicles but also among motorcycles, cars, small trucks, heavy trucks, and buses.
- As a result, it is possible to **limit the control to specific vehicle categories**.

Classification Samples

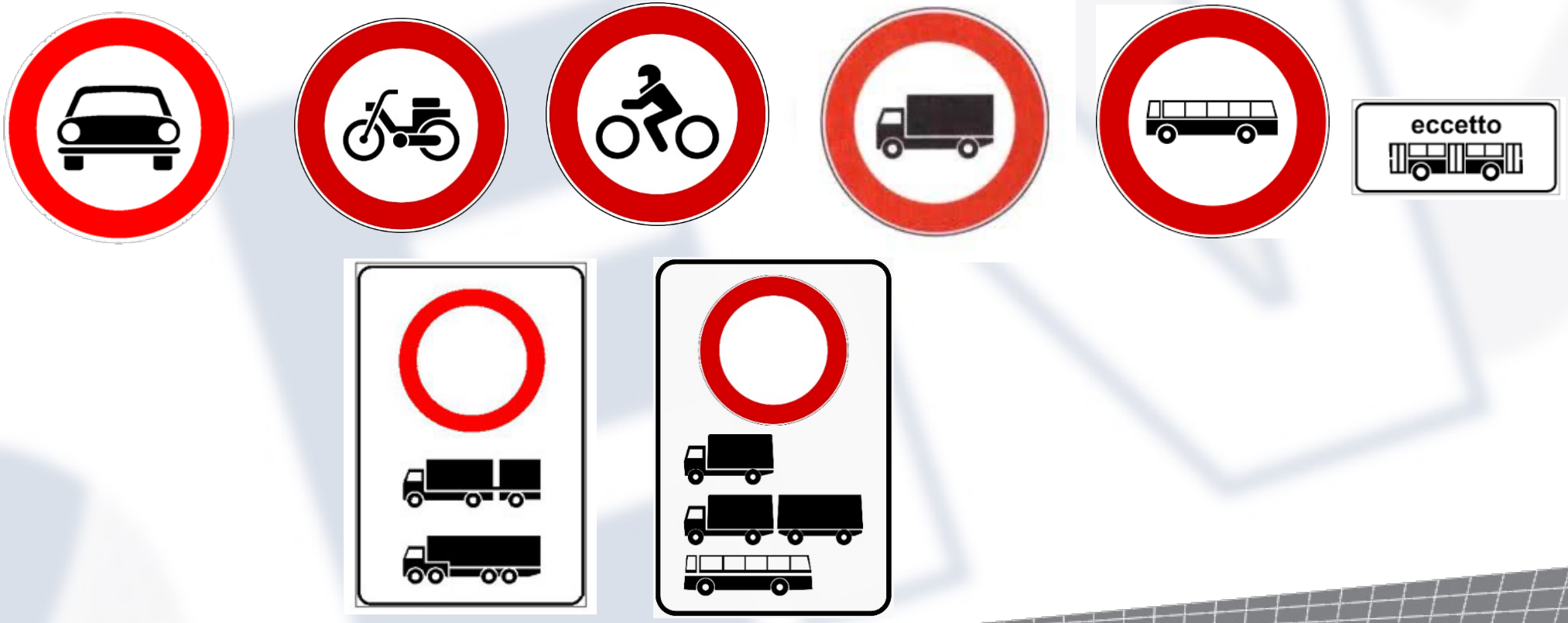
Classification Samples

Classification Samples

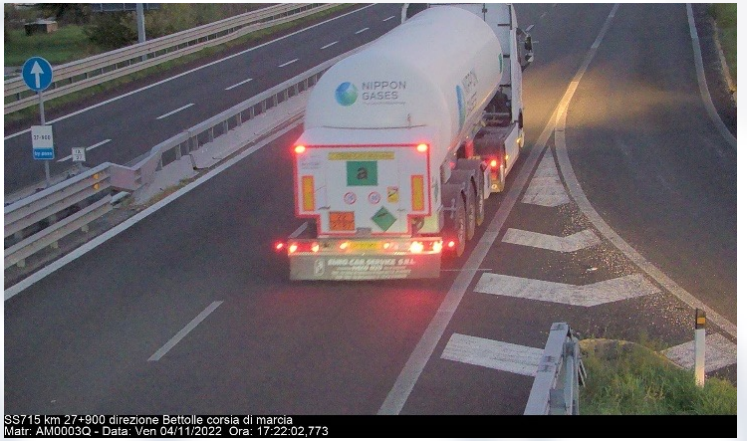
Classification Samples

Classification Samples

Prohibitions or exclusions for multiple categories of vehicles.



Classification Samples



EnVES EVO 1812 vs traditional systems

EnVES EVO 1812

- **Flexible geometry allows for the largest covered** area in the market, providing **more installation flexibility and the ability** to detect multiple vehicles simultaneously.
- **Vehicle classification can be achieved using external sensors or an advanced AI classification module** (pending approval of the AI classification module).
- The camera's 8.9-megapixel (4K) resolution ensures **high-quality**, detailed images even when covering two lanes.

Traditional systems

- **Smaller area**: while some other systems may have a longer distance but limited depth, and others may have a larger coverage area but shorter distance, no other product offers the same coverage area as EnVES EVO 1812.
- **Only a few other systems have been approved for classification and require an external sensor.**
- **Many systems utilize cameras with 2 megapixel or 5 megapixel resolution**, resulting in lower image quality.


ENGiNe
ALWAYS One step ahead