

## **Inclisafe: pioneering innovation to avoid the overturning of fire engines and military vehicles**

LOCATION: La Carlota (Cordova)

DURATION: 1'28"

**SUMMARY:** Preventing fire engines, military vehicles and tractors from overturning; this is the main aim of Inclisafe, a universal electronic device developed by the company DTA EBT from Cordova, the University of Cordova and the Environmental Committee of the Andalusian Government. The system analyses the stability of the moving vehicle, and, if a dangerous situation arises, it warns the driver through sounding and visual alarms so that the speed is reduced. The Spanish Army has already installed the device in 110 armoured personnel carriers.

### **VTR:**

This sound warns the driver that the fire engine should reduce its speed, because it could overturn. The overturning of these kind of vehicles is much more common than thought.

**Eduardo Ávila**  
Fireman

*"In our case, it's easy for a fire engine to overturn, because we have a high centre of gravity, and also, a lot of the time, during a call-out, we push it to its limit."*

To prevent the overturning of heavy vehicles like fire engines, military vehicles or tractors, the company D.T.A from Cordova, the University of Cordova, and the Andalusian Government have developed Inclisafe, which determines the stability of moving vehicles like these.

**Fernando Chacón**  
Technical Director D.T.A

*"It analyses the speed it's going at, the inclination, and what the ground conditions are like. All of this, through a microchip and an algorithm, which is essentially what we have created, that analyses this information and translates it into a stability index."*

To analyse this information, these two devices are placed inside the vehicles. And, through an audio and light signal, the system warns the driver of the danger of overturning.

**Fernando Chacón**  
Technical Director D.T.A

*"The sound frequency of the beeping increases in case of risk and the warning light turns from green to red."*

Currently, the device is classified by NATO, and the Spanish Army has already installed it in 110 armoured personnel carriers. The Community of Madrid fire stations will be the first to install this anti-overturning system in its trucks.

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