

Automated Enforcement of Driver Distraction (Mobile Phone Use): Spain's Approach

**We share the problems...
Let's share the solutions!**

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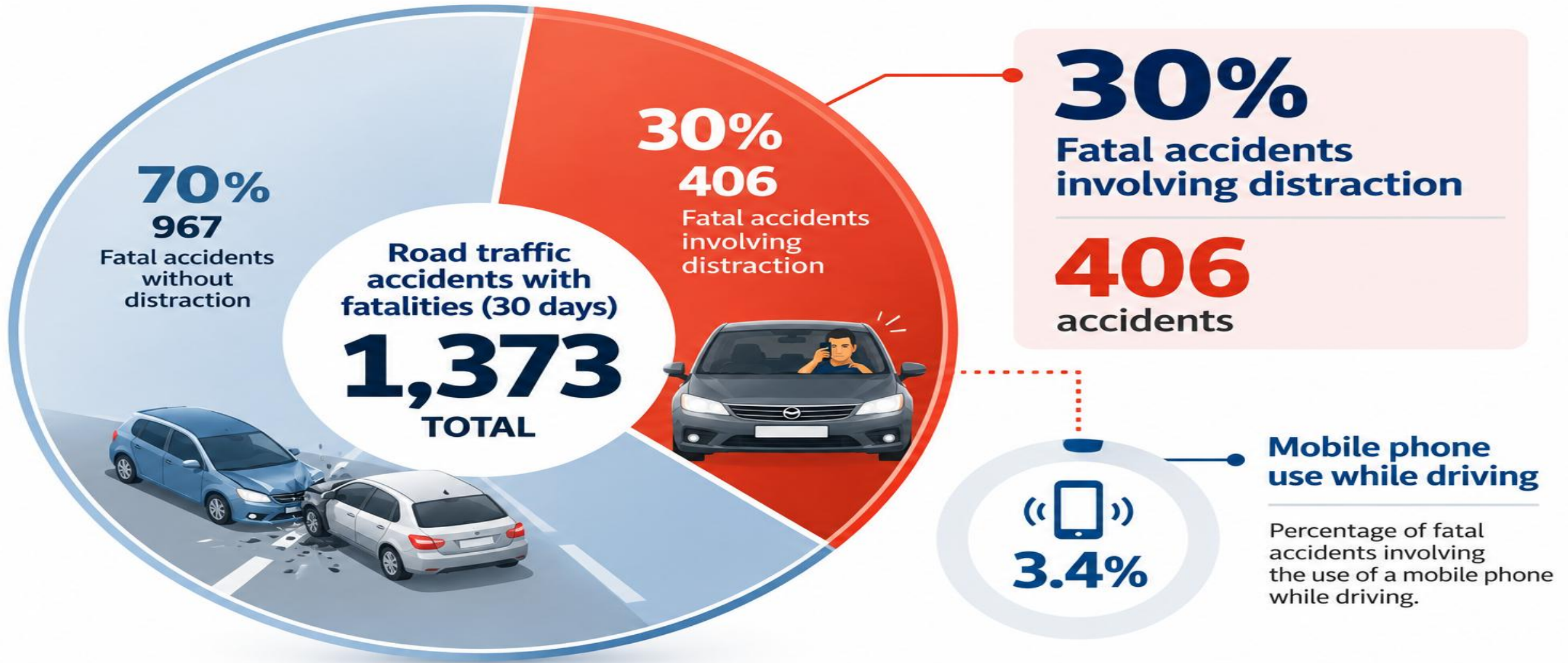
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Some Data

(2024)



How was it enforced?

1

Detection



2

Communication and coordination



3

Sanction





How was it enforced?



Control by Traffic Officers



Difficult to
detect



Limited human
resources



Consequence:
technical
impunity



Behaviour is not corrected



CTDA

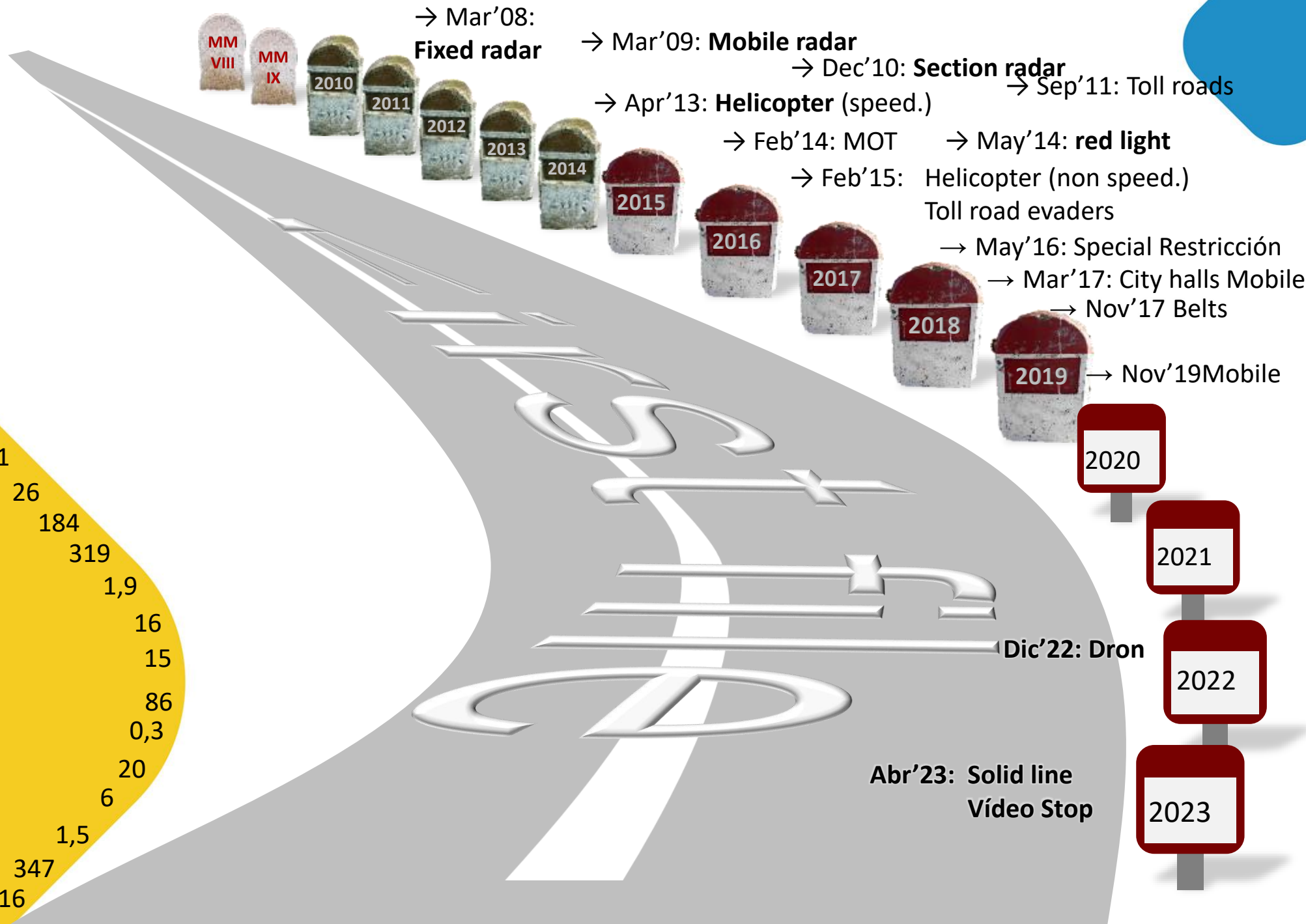
National Automated Traffic Offence Processing Center (CTDA)

- **Operational since 2008.**
- **Area of responsibility: automated processing of traffic offences.**

Sanctions

Volume
up to 31/12/2025

Type	Cases (x1.000)
Fixed radar	31.086
Mobile radar	8.821
Section radar	2.551
Toll roads	26
Helicopter (Speed radar)	184
MOT test (ITV)	319
Red Light	1,9
Helicopter (non-speed)	16
Toll Road evaders	15
Special Restrictions	86
Speeding control (city halls)	0,3
Camera – Seatbelt	20
Camera – Mobile Phone	6
Dron	1,5
Solid Line	347
Video Stop	16





Challenges in monitoring mobile phone use while driving



Does the law permit photographing the inside of the vehicle?



Right to privacy: Is a vehicle considered a private space?



Data protection: What about passengers?



How can we capture only the offending drivers?



We need to photograph every vehicle.

OPTIONS CONSIDERED:

1. AI in the camara



✓ Advantages



Only images of potential offenders are transmitted



Lower bandwidth requirements

✗ Drawbacks



Limited processing capacity



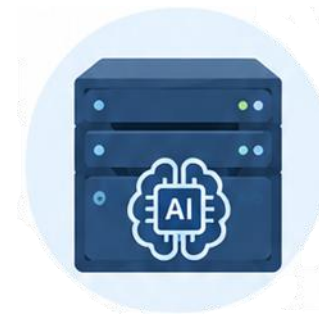
Risk of some vehicles being missed



Requires new camaras

AI
in the camara

OPTIONS CONSIDERED: 2. AI at the CTDA



AI at the CTDA

✓ Advantages



Greater control
and flexibility



Higher processing
capacity



Existing cameras
can be used



Easier to update
the technology

✗ Drawback



High bandwidth
requirements

OPTIONS CONSIDERED:

3. Cloud-based AI



Advantages



Potentially greater computing power



Access to more sophisticated AI models



Drawback



High bandwidth requirements

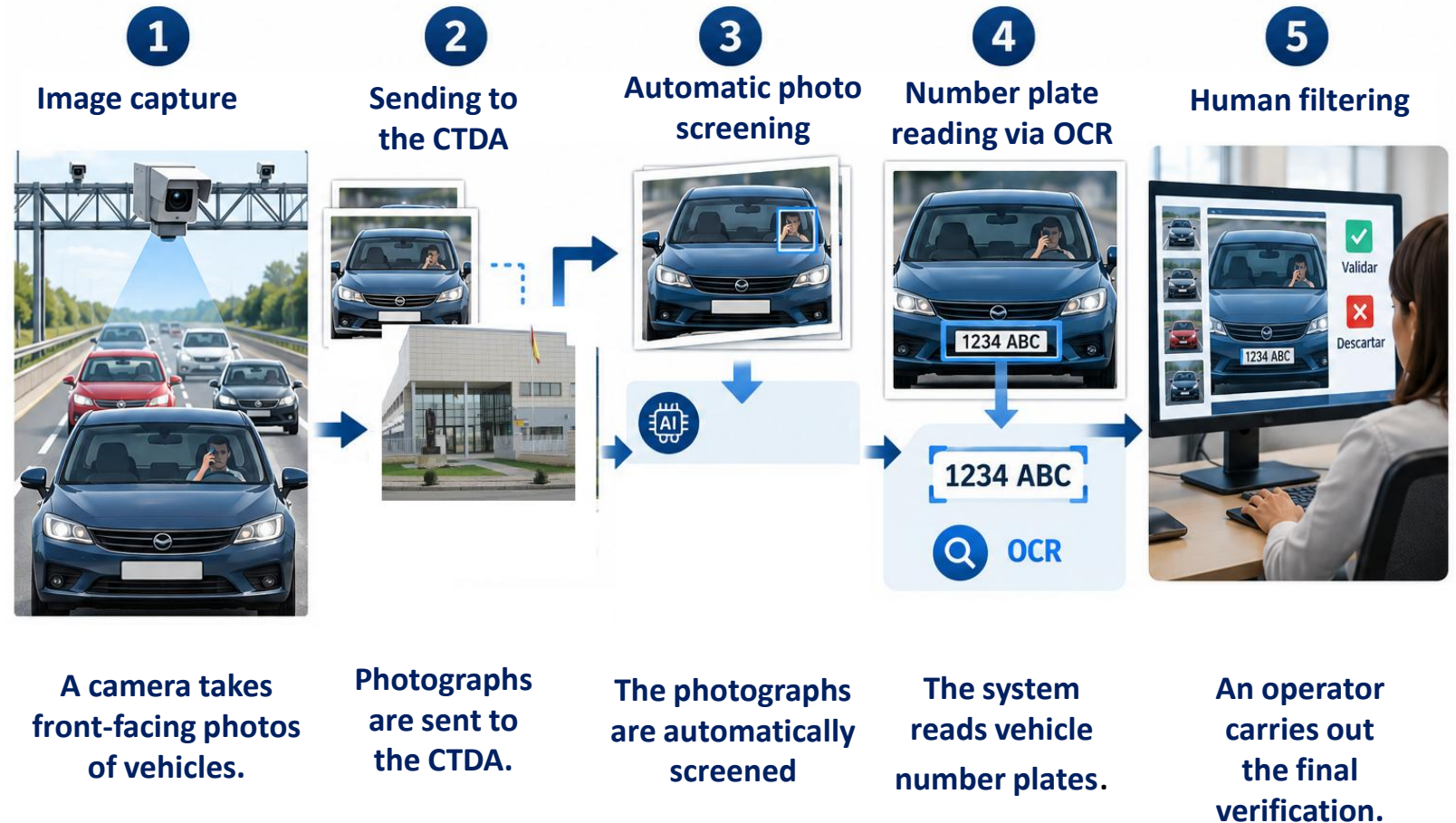


More difficult to train the models

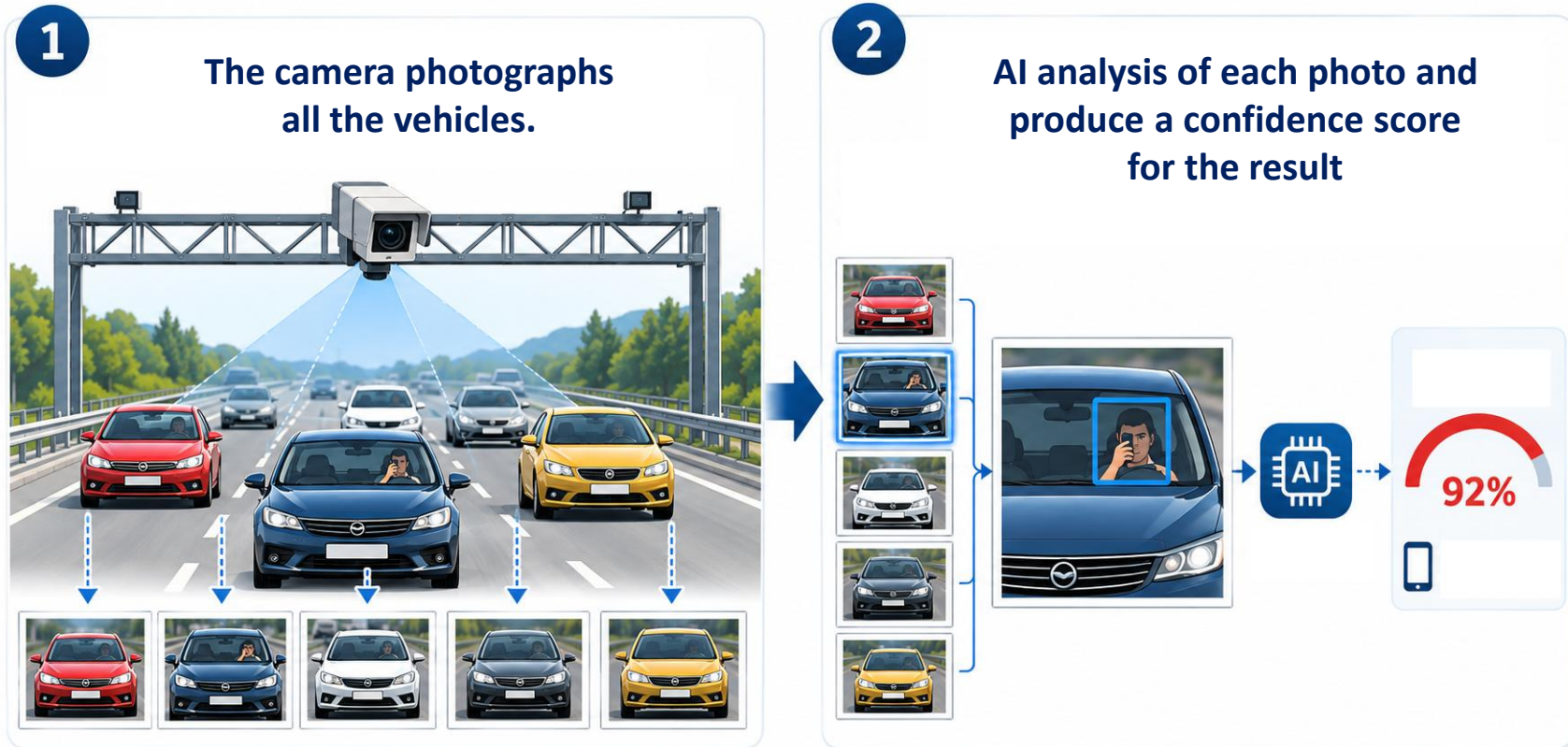
Cloud - based
AI

Option selected by the CTDA

Infraction management system



Capture and screening



Human filtering



Two-step human review:

1. Remove poor-quality or unusable images.
2. Crop the image to focus on the windscreen and check if there is an offence.



Example of
an offence: 1



Example of an offence: 2



Example of
an offence: 3



Example of an offence: 4



Traffic regulations

1

HOLDING a mobile phone IN THE HAND while driving.



€200
fine

✗ 6 penalty
points

2

Using a mobile device (phone, GPS, etc.) WITH THE HAND, WITHOUT HOLDING it.

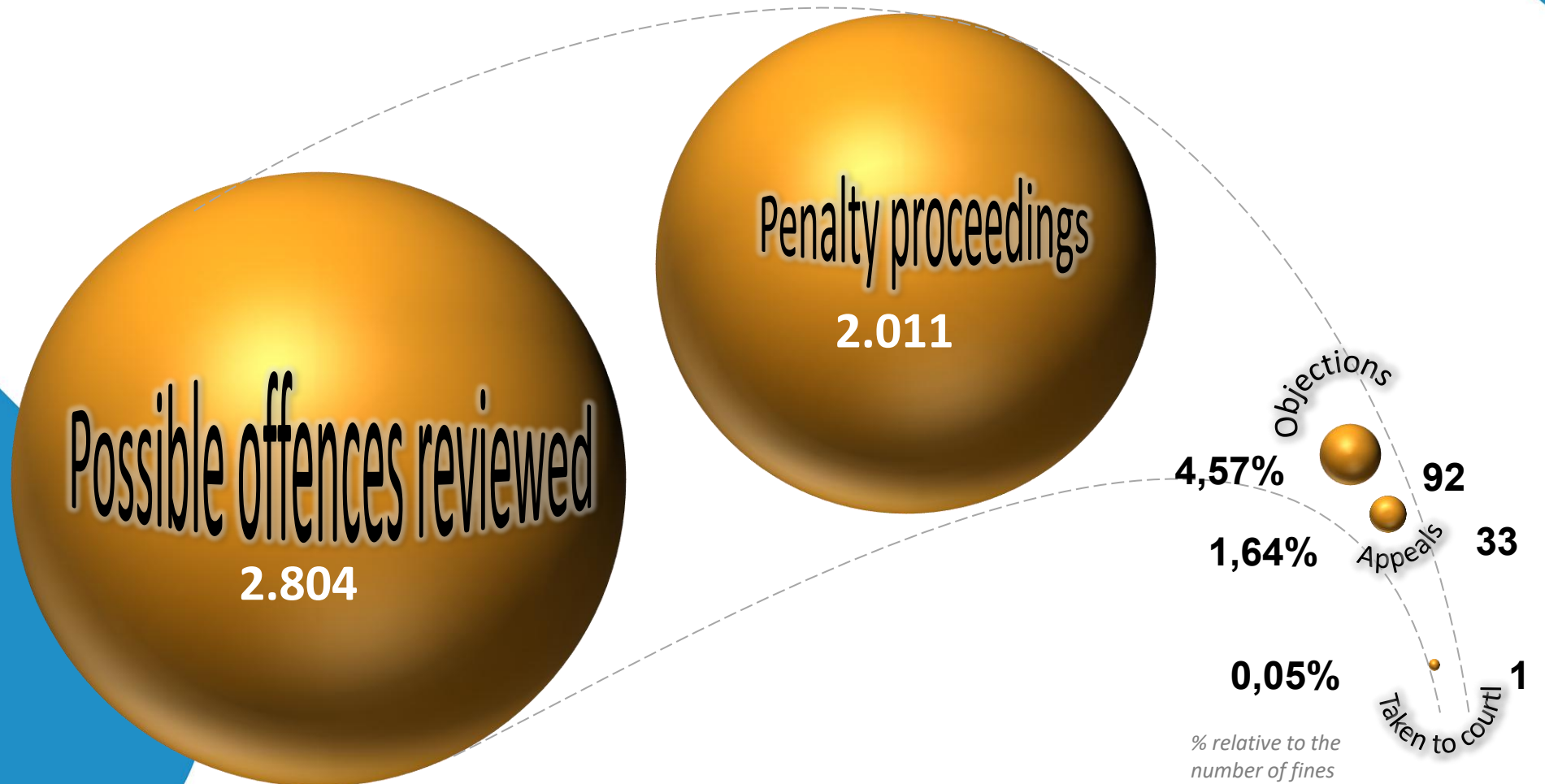


€200
fine

✗ 3 penalty
points

CONTESTED PENALTIES 2025

Does the
system
work?



- The more efficient the process, the fewer cases are contested.

Eating

Other distractions
while driving



Drinking

Other distractions
while driving



Taking selfies

Other distractions
while driving



Clapping

Other distractions
while driving



Doing a bit of exercise

Other distractions
while driving



Teaching pets to drive

Other distractions
while driving



Showing some love to co-drivers...

Other distractions
while driving



...quite a lot

Other distractions
while driving



THANK YOU FOR YOUR ATTENTION

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