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Kapsch TrafficCom.

ITS Solutions.

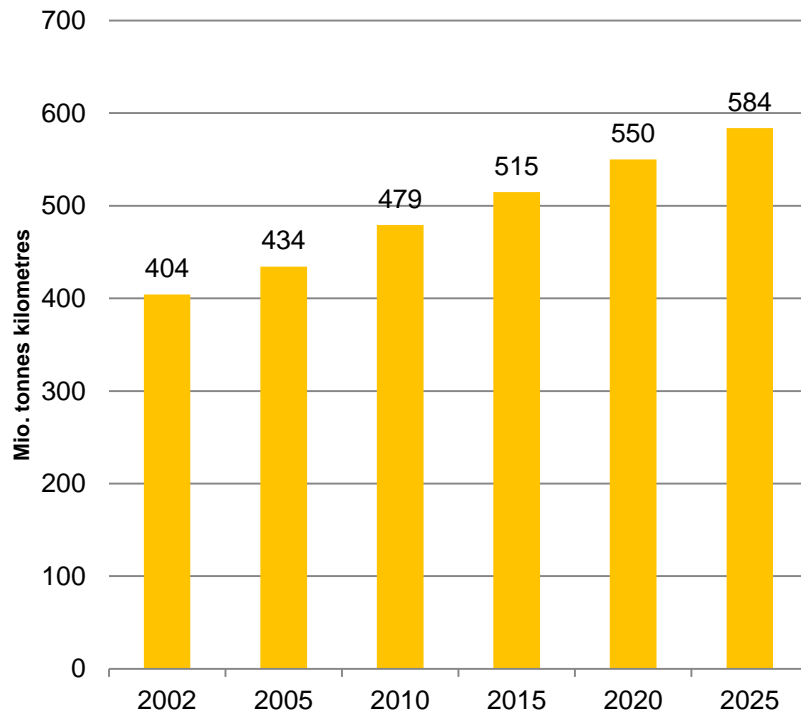


Automated Roadside Safety Inspection



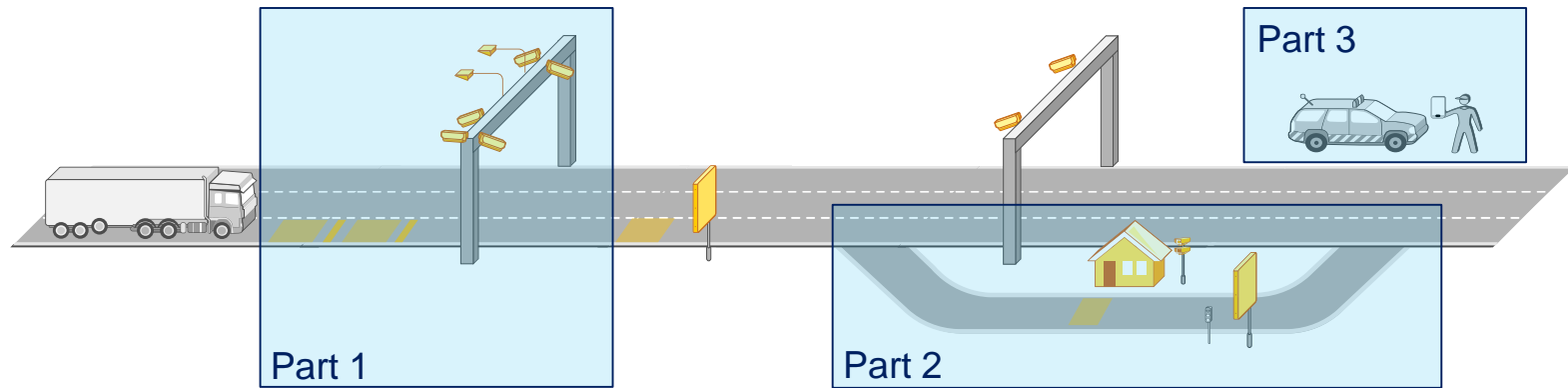
Challenge: Growth in road freight volume & tight state budgets

e.g. Development of road freight transport in Austria

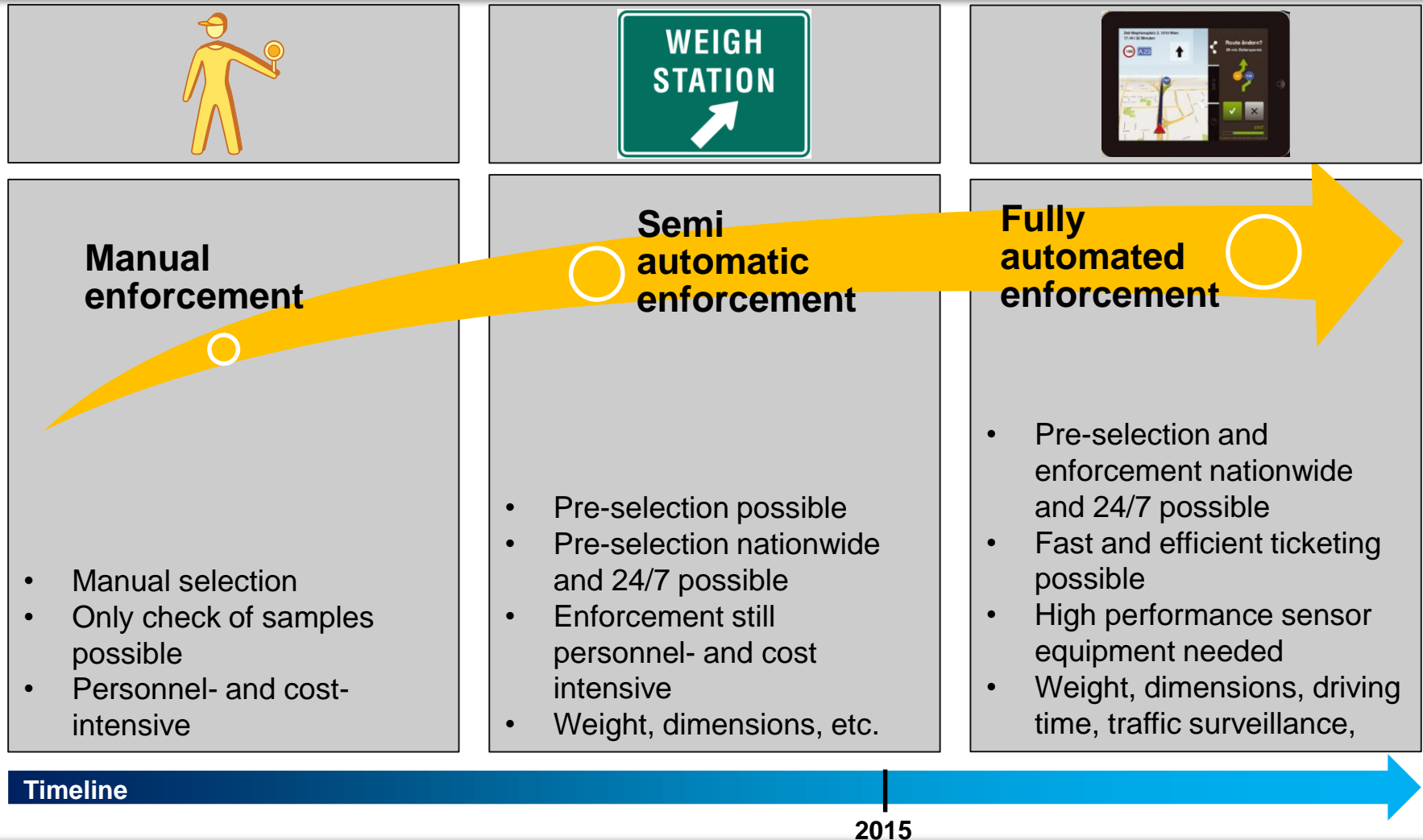


Source: BMVIT, ASFiNAG et al, 2009, VERKEHRSPROGNOSE ÖSTERREICH 2025+

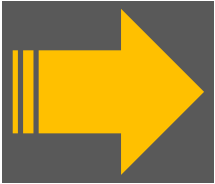
Commercial Vehicle Enforcement solution components

**Part 1****Truck Safety Checkpoint (eScreening) on mainline****Part 2****Commercial Vehicle Enforcement Plaza****Part 3****Mobile Enforcement**

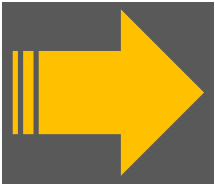
Enforcement evolution



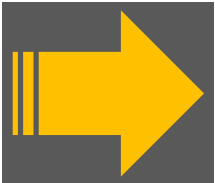
Modular concept – benefits



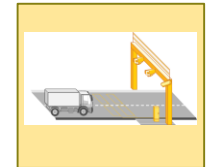
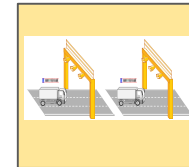
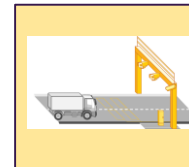
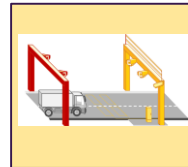
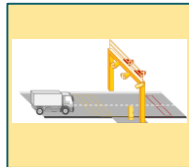
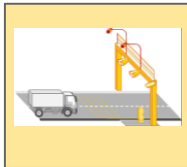
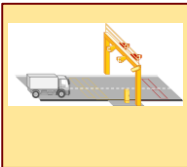
High flexibility due to different Commercial Vehicle Enforcement modules ensure easy customization and upgrade possibilities for the customer



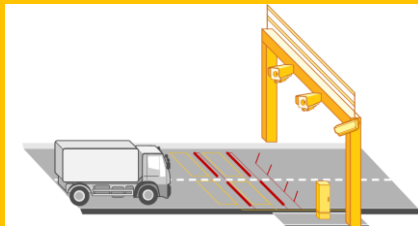
Possibility to upgrade existing Toll Enforcement stations to a full-blown Commercial Vehicle Enforcement station



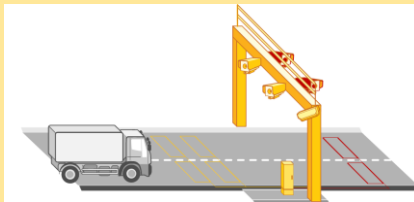
Possibility to expand Commercial Vehicle Enforcement stations to be used for toll enforcement (video- or DSRC-based)



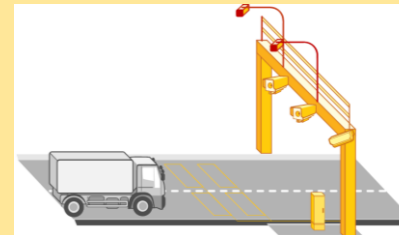
Modular concept – overview



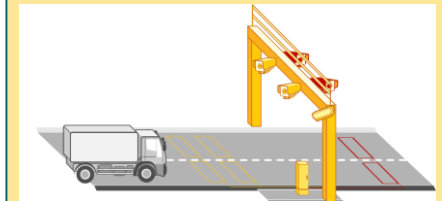
High Speed
Weigh-in-Motion (WIM)



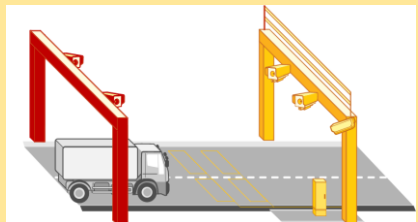
Dangerous Goods
Detection



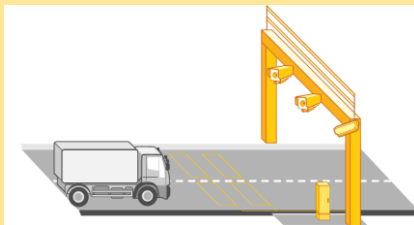
3D Profiling



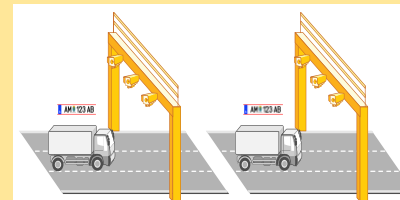
US-DOT Reader
Side View Imaging



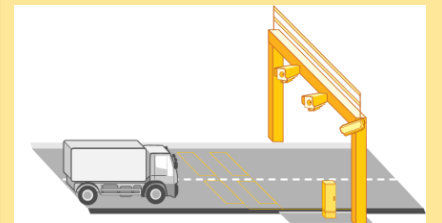
Rear LPR



Point Speed
Enforcement

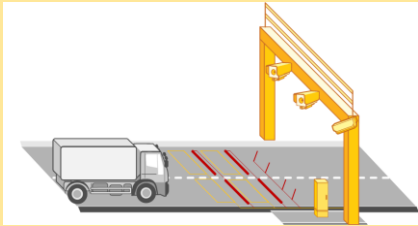


Section Speed
Enforcement

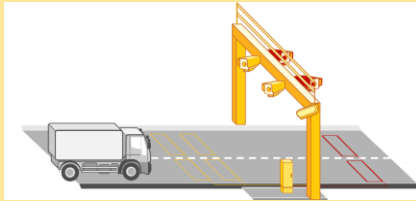


Traffic Surveillance

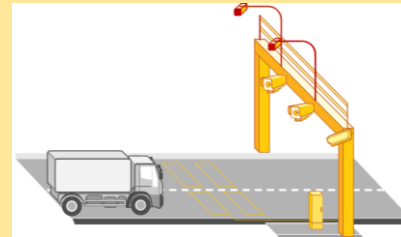
Possible future modules



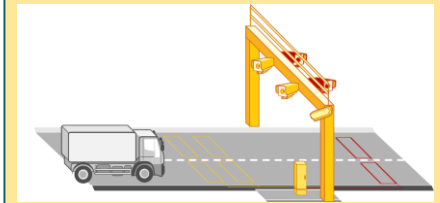
Tire Profile Detection



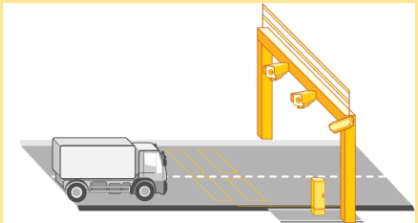
Tire Type Detection



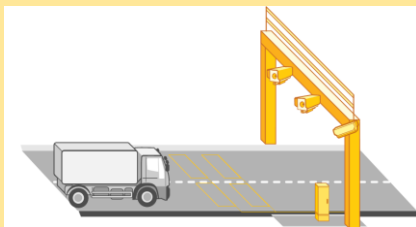
Tire Pressure



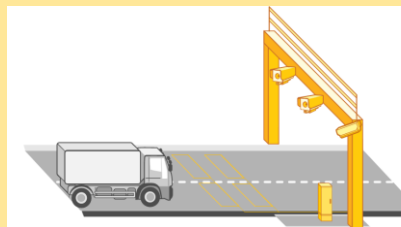
Electronic waybill



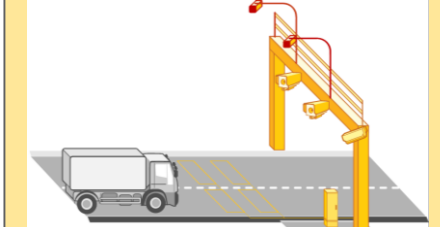
Cabotage



Truck Canvas
Ice Detection

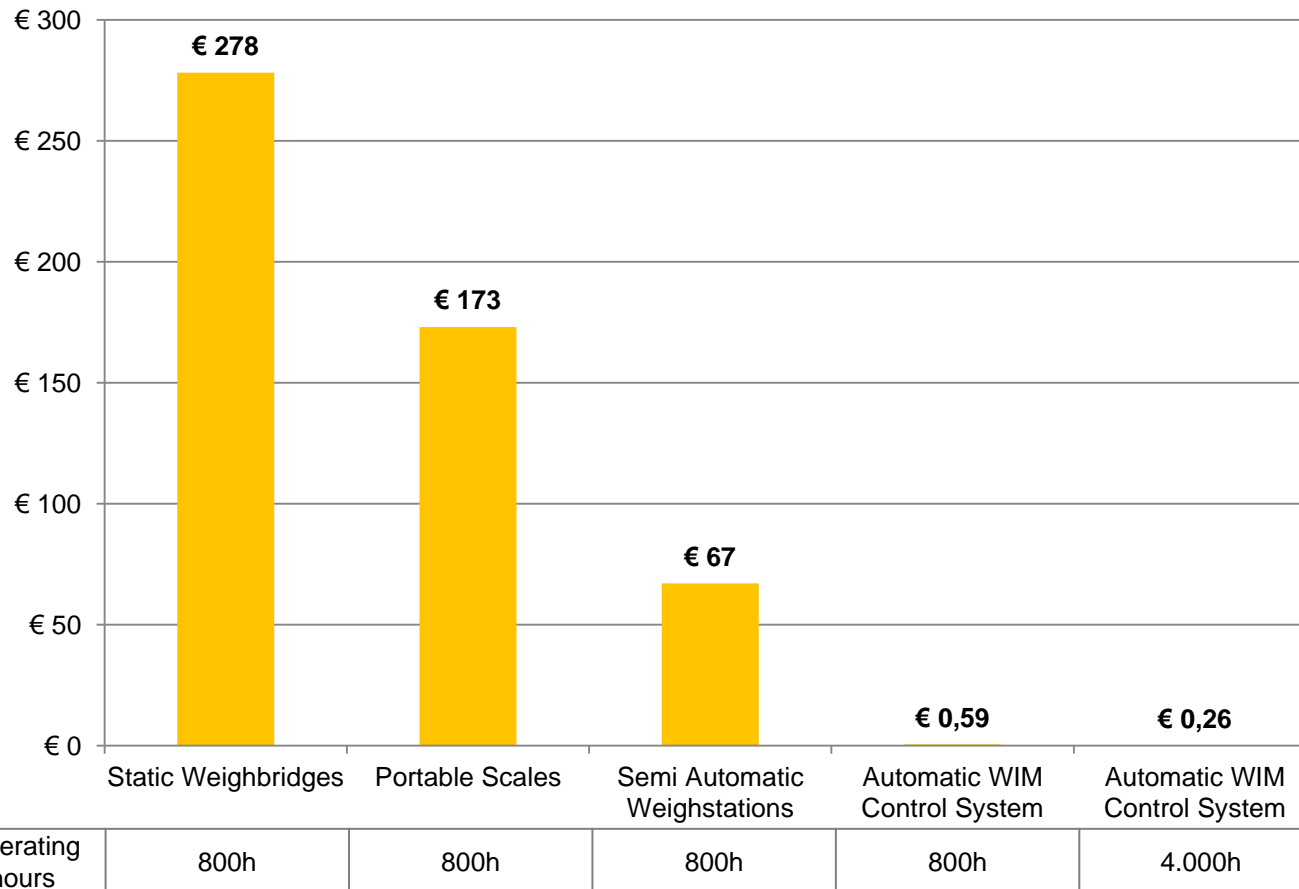


Thermal Scan



Digital Tachograph

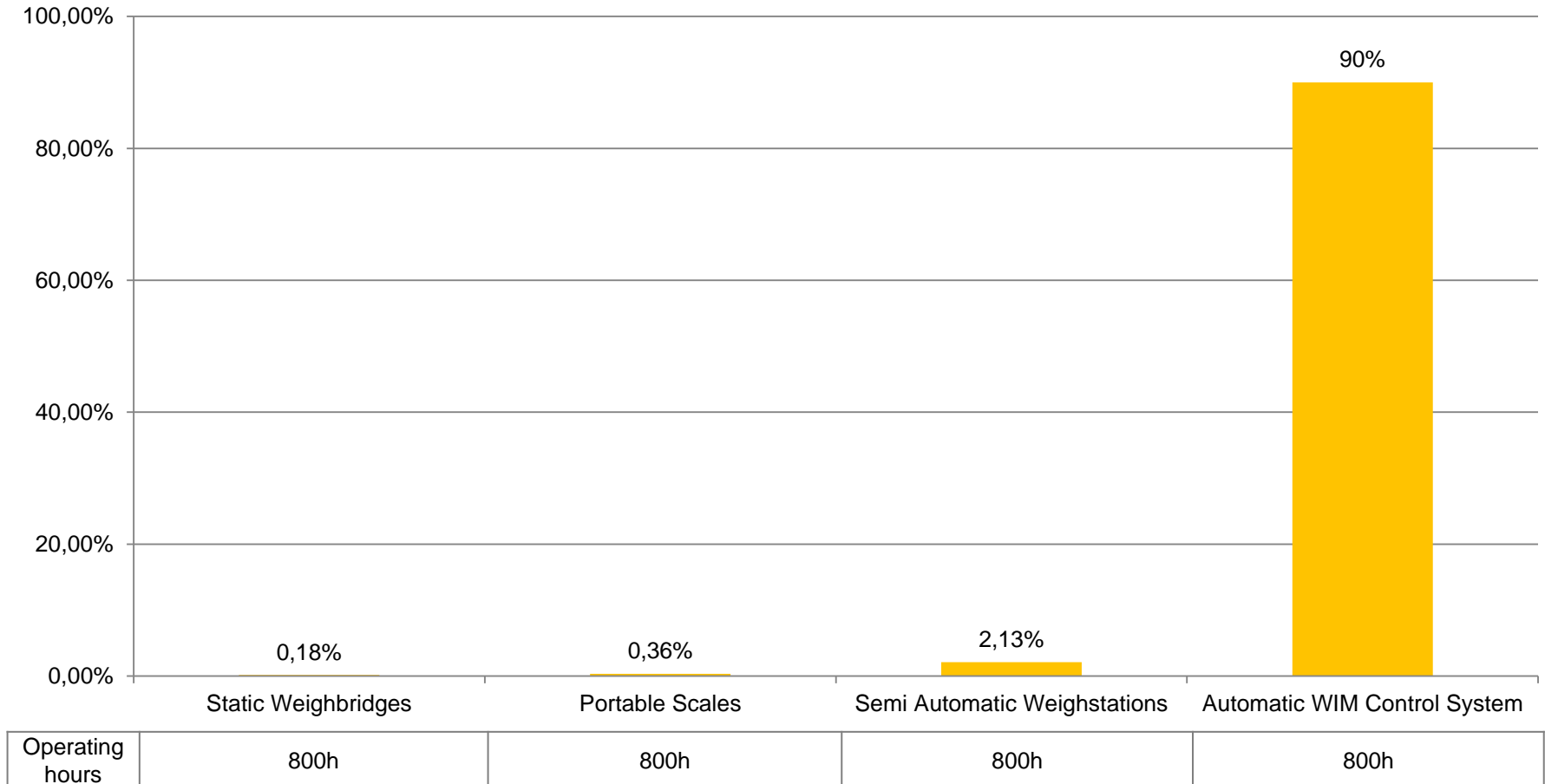
Costs per truck inspection | authorities point of view



■ 4.000h operating hours per year equal the full allowed truck driving time per year

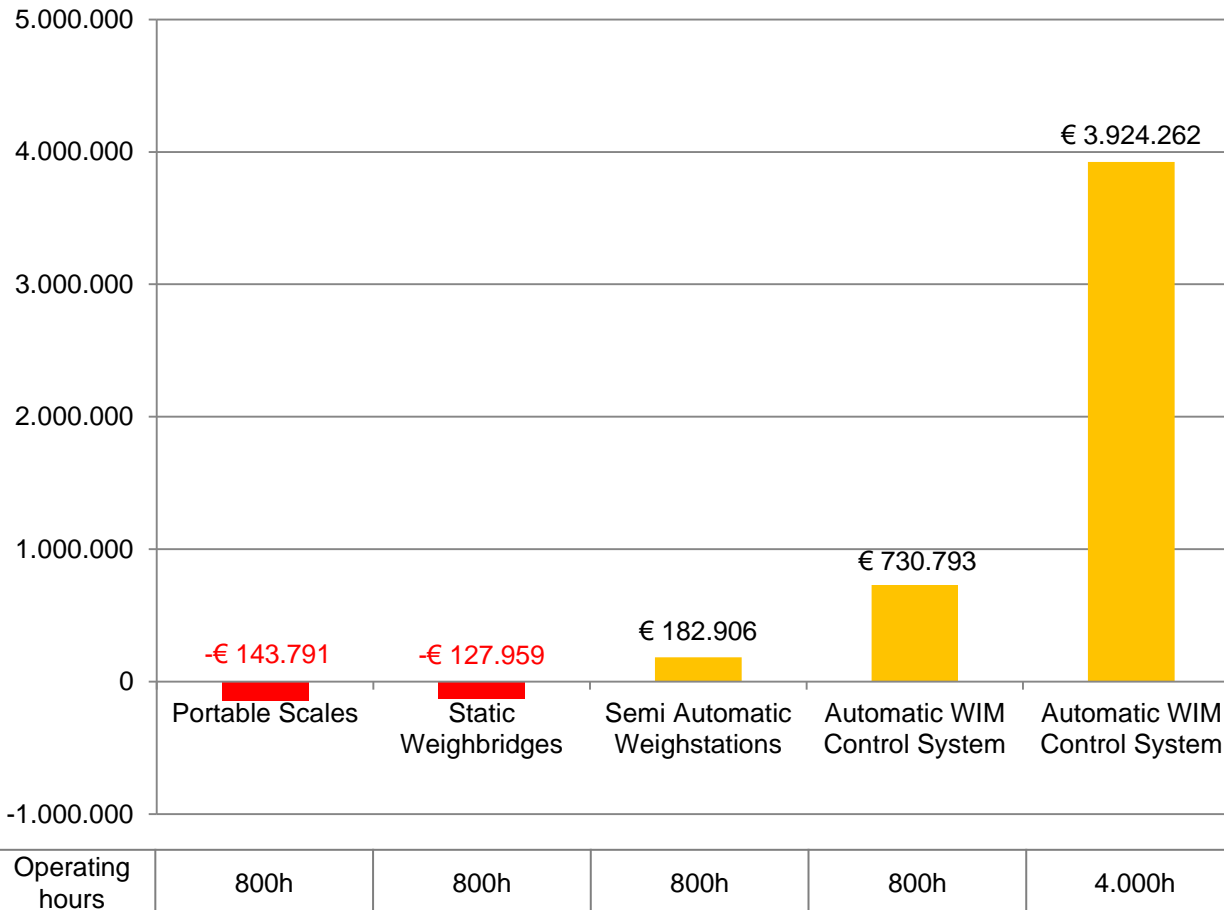
Source: TOP TRIAL Deliverable D07 Cost Benefit Report 2002

Percentage of checked trucks in relation to total trucks passed



Source: TOP TRIAL Deliverable D07 Cost Benefit Report 2002

Net earnings/losses per system and station per year



- Earnings/losses are from the point of view of authorities
- Net earnings are calculated as the sum of infringement tickets minus investment and operating costs per year per station

Source: TOP TRIAL Deliverable D07 Cost Benefit Report 2002

Customer benefits | Automated Roadside Safety Inspection

Highway Concessionaires

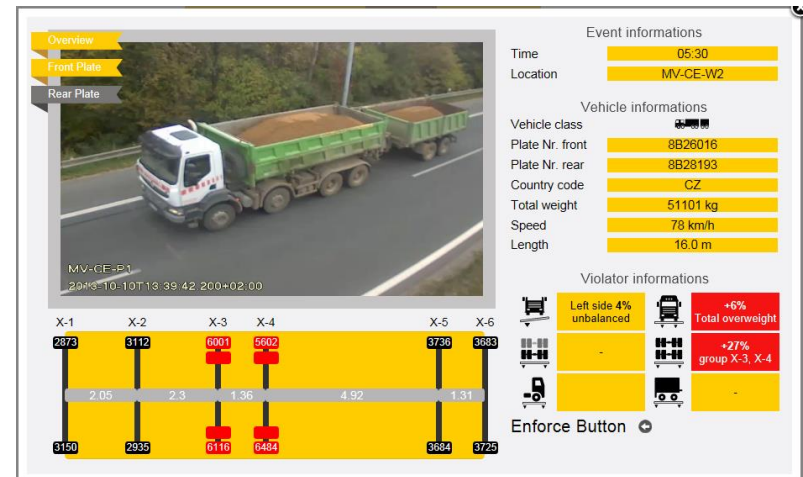
- Reduce maintenance costs
- Generate revenue for road infrastructure
- Ensure road safety
- Reduce number of accidents
- Ensure smooth flow of traffic

Ministry of Infrastructure

- Minimize maintenance costs
- Sustain road infrastructure
- Generate revenue to expand road network
- Increase road safety
- Reduce environmental pollution

Ministry of Interior

- Reduce number of accidents
- Detect and prosecute violators
- Take harmful vehicles off the roads
- Reduce operating costs
- Monitor traffic on entire road network



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