World forum on Road Safety - wp.1



March 8th, 2022

Road safety and Impaired Driving - Key facts in Italy

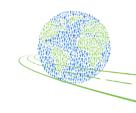
Roberto Arditi – SINA S.p.A. (ASTM Group)

Today's challenges to Road Safety: Impaired Driving – what do the numbers show and how can we reduce fatalities today?









SINA is the engineering of ASTM industrial Group. The Group is active in the field of motorway network management in concession, from design to building of main infrastructures and the technology applied to mobility

SINA S.p.A., incorporated in 1962, is part of the ASTM group and is active in the engineering of large-scale infrastructure. SINA's mission is to achieve analysis, design, construction and management of new projects in the fields of road networks, telecommunications, road and rail transportation, maintenance engineering of transportation infrastructures.

ASTM is an industrial Group operating in the sectors of motorway management, large infrastructure engineering and construction projects, and transport and mobility technology.

The Group is the second largest toll road operator in the world with approximately 4,900 km of road managed through concessions in Italy, Brazil (through EcoRodovias) and the UK.



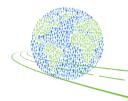
ASTM operates in Italy about 1.420 km of the trans-European Road network.

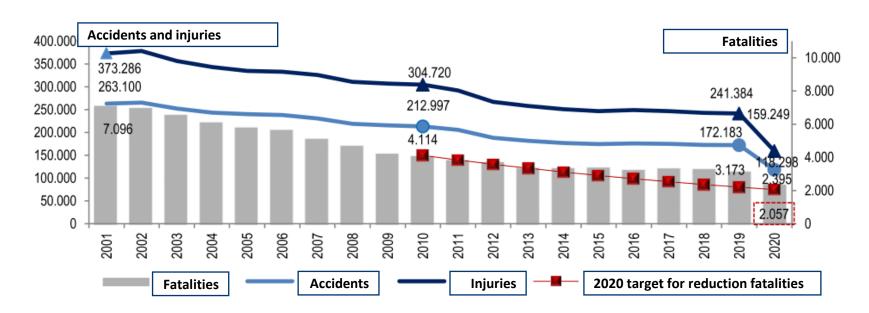
Road safety in Italy









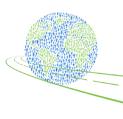


	2020	Reduction on 2019 (COVID)
Accidents	118.289	-31,30%
Fatalities	2.395	-24,50%
Injuries	159.249	-34,00%
of which are seriously injured	14.120	-20,00%

Source ISTAT 2021



Road fatalities in Italy by type of vehicle: 2020



HEAVY GOODS VEHICLES

Victims: 117 (-14,6%)

CARS

Victims: 1.018 (-27,9%)

MOTORBIKE

Victims: 586 (-16%)

MOPED

Victims: 59 (-33%)

BICYCLE

Victims: 176 (-30,4%)

PEDESTRIANS

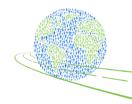
Victims: 409 (-23,4%)

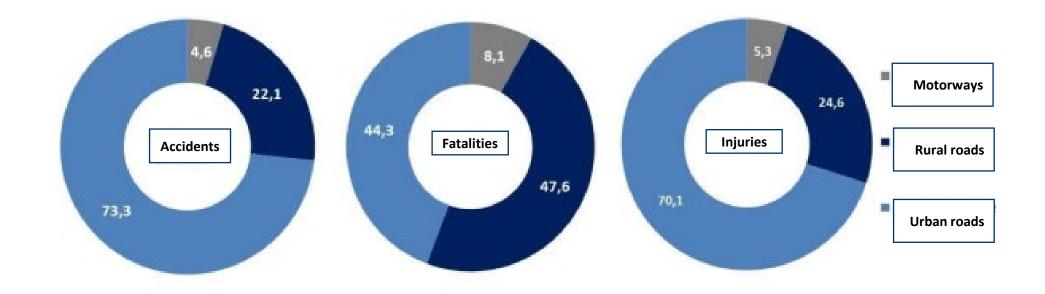
ELECTRIC SCOOTERS

First victim in 2020



Road accidents in Italy by type of road: year 2020 (Percentage)











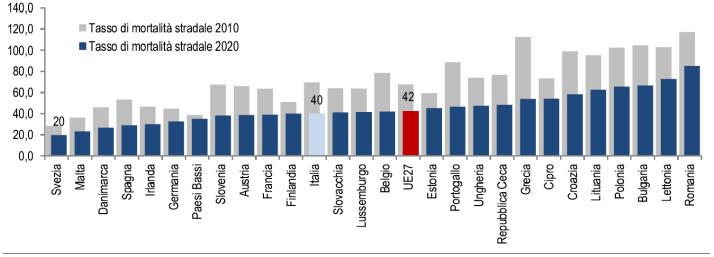
Reduction of fatalities: 2020 vs. 2010*				
EU	-36,50%			
Italy	-41,80%			
Reduction of fatalities: 2020 vs. 2019				
EU	-17,20%			
Italy	-24,50%			

	Road deaths rate (deaths per million inhabitants)	
	2020	2010
EU	42,3	67,6
Italy	40,3	69,5

Italy is currently to the **12th place** in the European ranking since it scored 16th in 2019

* benchmark year for road safety





Source ISTAT 2021

1 Impaired driving





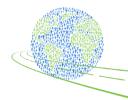
Alcohol/drug and driving: available data and information gap



- The issue of alcohol and drug-related road accidents is a key topic for road safety and moreover a topic with a strong media impact.
- The National Italian Institute of Statistics (ISTAT) performed surveys on road accidents with injuries.
 These reports made available a rich set of information, including alcohol-related events. Nevertheless,
 ISTAT considers that information gaps still remain in the practice and collected figures could be
 underestimated.
- In order to provide alternative assessment elements, other official sources of data were also considered, and the contents and information potential were examined.
 - In particular, as is customary for some years now, information on violations of the highway code provided by carabinieri and traffic police have been considered.
- Although the absolute figure still appears to be underestimated, the analysis of the indicators is an important element for the study of time series.



Highlights for year 2021



Some Data

In 2021, **9,371 drivers were sanctioned for drink driving** (Traffic Police Report, 2022). **Traffic accidents** are the **leading cause of death for young people** aged **18 to 24**.

According to studies of the National Institute of Health, 25% of these fatalities are a consequence of **alcohol abuse** (ISS, 2019).



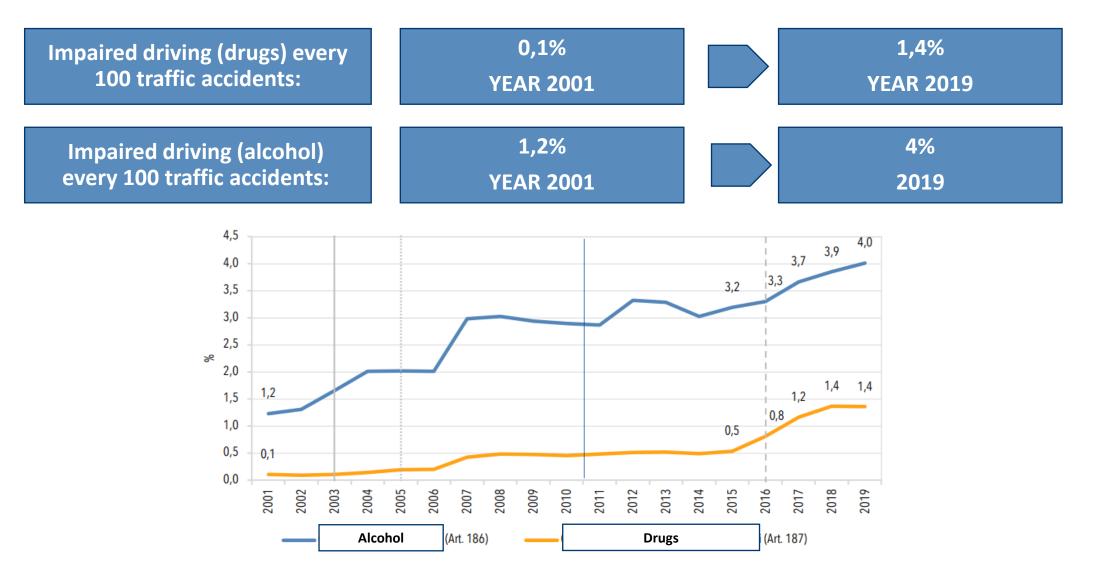
In 2021, **798** drivers were reported for driving **under the influence of drugs** (Traffic Police Report, 2022). Controls in 2019 highlighted **cannabinoids** as the most commonly consumed substance among drivers aged **18 to 27** (ISS, 2019).

Medicines are the **second substance after cannabis** found in the analysis of impaired drivers in the event of a **road accident** (Federconsumatori, 2018).



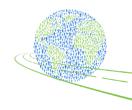
Percentage of yearly traffic accidents: accidents with two vehicles only and impaired driver vs. yearly accidents







Penalties for impaired driving



In 2019, penalties for incorrect driving behavior, in general, increased by 6.7% as enforced by Traffic Police, Carabinieri and the Local Police of main municipalities.

The following table shows penalties enforced for impaired driving.

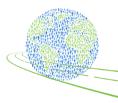
Numbers of penalties	2017	2018	2019
Art. 186 (alcohol)	41.476	39.208	42.485
Art. 187 (drugs)	5.289	5.404	5.340

+ 8,4% 2019 vs. 2018

-1,2% 2019 vs. 2018



Penalties enforced for impaired driving: by age and time (percentage) Year 2019

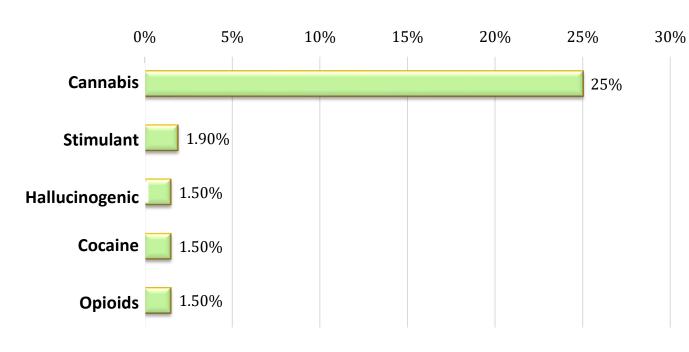


		Art. 186 -	Art. 187 -
		Alcohol	Drugs
Age of the driver	≤ 17	0,2	0,8
	18-24	19,0	22,9
	25-32	26,4	26,9
	≥ 33	54,4	49,2
	dont'know	0	0,2
Time of the day	22.00-06.00	77,5	48,0
	07.00-14.00	15,4	27,9
	15.00-21.00	7,2	24,1









THC – primary cannabinoid

- Sleepiness
- Mood alteration
- Impaired motor coordination
- Alteration of perception/attention
- Alteration of reaction times

CBD – «non-intoxicating» molecule

- Sleepiness
- Dizziness
- Mood alteration
- Muscle heaviness



National conference on alcohol abuse – next week



Ministry of the health: alcohol abuse increased during lockdown (+6.5% men, +5.6% women)



Alcol, Sottosegretario Costa: "Dal 15 al 17 marzo seconda Conferenza Nazionale a Roma"

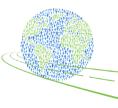
"La prossima Conferenza Nazionale Alcol, giunta al secondo appuntamento, si terrà a Roma dal 15 al 17 marzo. Avrà come titolo 'Informare, educare, curare: verso un modello partecipativo ed integrato dell'alcologia italiana'". Ad annunciarlo il Sottosegretario di Stato alla Salute Andrea Costa, delegato dal Ministro Roberto Speranza alla prevenzione, al monitoraggio e ai percorsi terapeutici connessi al fenomeno delle dipendenze. "Ho fortemente voluto - spiega il Sottosegretario - questa iniziativa per fornire una risposta concreta alle esigenze di pazienti e famiglie, attraverso l'ottimizzazione del lavoro in rete di tutti gli attori che operano nel campo dell'alcologia. Era doveroso e fondamentale promuovere un confronto tra istituzioni, enti locali e associazioni, che mancava da più di 10 anni, soprattutto a seguito del preoccupante incremento, in particolare tra i giovani, del fenomeno dell'abuso da bevande alcoliche durante il lockdown. Secondo gli ultimi dati dell'Istituto Superiore di Sanità, infatti, nel corso del 2020 si è osservato un aumento del 6,5% per gli uomini e del 5,6% per le donne che hanno avuto un consumo a rischio. Basti pensare che, per esempio, per la prima volta, le giovani consumatrici a rischio (14-17enni) superano per numerosità i loro coetanei". La Conferenza, promossa dal Ministero della Salute (dalle Direzioni Generali della Prevenzione sanitaria e della Comunicazione) in collaborazione con le Regioni, sarà organizzata sia in presenza presso l'Auditorium del Ministero della Salute, nella sede di via Giorgio Ribotta 5, sia in modalità streaming sui canali ufficiali del Ministero della Salute. Interverranno, tra gli altri, i rappresentanti delle associazioni di auto mutuo aiuto, delle Regioni, dell'Anci, degli operatori del settore, delle società scientifiche, dell'Istituto Superiore di Sanità (Iss) e di altre Istituzioni. Le sessioni tematiche saranno quattro: "Gli interventi di prevenzione in ambito scolastico e l'aggancio precoce dei giovani vulnerabili"; "L. 125/01. L'integrazion

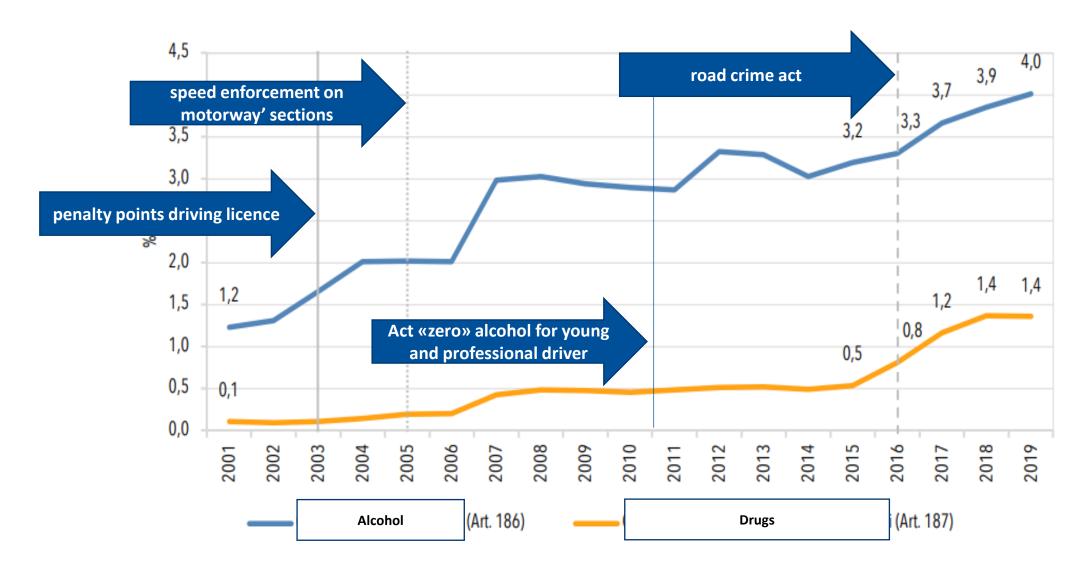
Prevention and actions against impaired driving: highlights





Legislation vs. percentage of yearly traffic accidents with impaired driver







Activities of the Traffic Police: large scale patrolling and checks



2015 was the beginning of an extraordinary campaign to monitor the psychophysical condition of drivers:

On purpose laboratories

Devoted staff

Experimentation of new sampling methods directly on the road

Consistent effort in the purchase of custom-made devices

2015-2018 (peak in 2017 with 80 provinces involved throughout the national territory)

Drivers checked: 128,426 of which:

Drink-driving: 7,797 (6.1%)

Under the influence of narcotic substances: 2,904 (1.6%)

2019 (48 provinces involved throughout the national territory)

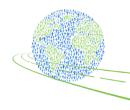
Drivers checked: 37,924 of which:

• Drink-driving: 2,481 (6.5%)

• Drugs: 595 (1.6%)



Activities of the Traffic Police: prevention







An initiative born from the collaboration between the State Police and the Ministry of Education and Research, a project aimed at making school transport safe





It is the most important road education campaign aimed at students and all Italian schools. More than 200,000 students have benefited from the ICARO training on road safety. Born from a project of the State Police in collaboration other ministries, the University of Rome – La Sapienza and key national stakeholders including the ASTM Group.

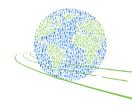


In **2022** ICARO decided to create a training course that focuses on the risks of **impaired driving (drugs and alcohol).**





The cartoons of Autostradafacendo

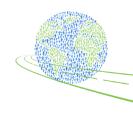


70 behaviors: each of which has a dedicated cartoon and a message of legality and safety easily understandable and easy to remember





Some Autostradafacendo.it cartoons concerning impaired driving













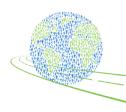


Motorways of the ASTM Group towards environmental sustainability

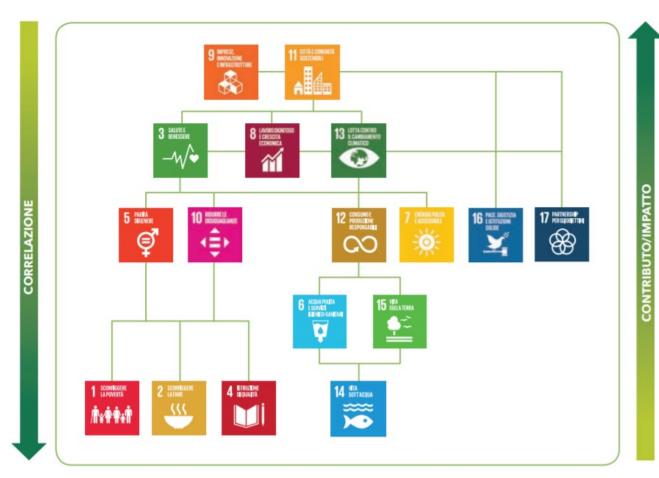




Sustainable development



The ASTM Group has defined its own strategic guidelines with a view to creating shared value for all Stakeholders in the medium-long term by improving its contribution to the achievement of the 17 Sustainable Development Goals (SDGs) of the United Nations by 2030:



Among the most relevant SDGs for the Group:

SDG 9 - Building resilient infrastructure, promoting inclusive and sustainable industrialization and fostering innovation

SDG 11 - Making cities and human settlements inclusive, safe, resilient and sustainable

SDG 3 - Ensuring health and well-being for all and for all age

SDG 8 - Fostering lasting, inclusive and sustainable economic growth, full and productive employment and decent work for all

SDG 13 - Promoting action, at all levels, to combat climate change



The sustainability targets of the ASTM Group



European motorway operator to obtain approval of targets from the Science Based Targets initiative (SBTi)





Direct GHG emissions

(the so-called "Scope 1 & 2" emissions) by 2030

Indirect GHG emissions

(the so-called "Scope 3" emissions) by 2030

The ASTM initiatives will contribute, among others, to the achievement of our targets.

The targets were integrated into the Group's financial strategy with the placement of three Sustainability-Linked Bonds (SLB) for a total of €3 billion, which ended in November 2021.



SINA | Areas and objectives of intervention



AREAS

I. Digitalization of Infrastructures



OBJECTIVES

- Increased safety for the user
- Improved quality of service
- Increased efficiency of operational management

II. Resilient Infrastructure



- Longer service life
- Better ability to respond to climate change
- Lower costs for all stakeholders



III. Environmental sustainability



- Reduced impact on the territory
- Reduced risks for the management of the infrastructure
- Capability to respond to the effects of climate change and its consequences

#movingtothefuture

