



1st Decade of Action for UN Road Safety A Discussion on the Advances and Challenges of Road Safety and Mobility in Greece, Colombia and Buenos Aires

Webinar, 21 September 2021

Road Safety in Greece A decade of improvements

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NTUA Road Safety Observatory

- The NTUA Road Safety Observatory (<u>www.nrso.ntua.gr</u>) is a Center of Research and Innovation Excellence on Road Safety, with global recognition [ranked: 2nd in Europe and 6th worldwide (AAP 2018)]
- A Team of 35+ Scientists: internationally recognized Professors, Senior Transportation Engineers, PostDoc, PhD Candidates and other scientists
- An international reference website information system with state-ofthe art road safety data and knowledge:
 - > more than 100.000 visits per year
 - > 100+ electronic newsletters since 2007
 - tens of tweets and social media posts annually (160.000 post views)
 - network of more than 4.000+ road safety experts in Greece (1.000+) and worldwide (3.000+)
- > An excellent research activity:
 - ≻ More than 100 Diploma Theses & 6 PhD Theses,
 - More than 100 road safety research projects, mostly highly competitive,
 - > More than 500 road safety publications (> 200 in scientific Journals),
 - ≻ More than 100 scientific commissions,
 - International Cooperations: European Commission, UN/ECE, OECD/ITF, WHO, World Bank, EIB, CEDR, FEHRL, ERF, IRF, UITP, ETSC, WCTR, TRB, decades of Universities and Research Centers.





Presentation Outline

- 1. Basic Road Safety Figures in Greece (4)
- 2. Overview of the decade 2011-2020 (5)
- 3. Next Steps for the decade 2021-2030 (3)
- Key Lessons and Opportunities (2)

Basic Road Safety Figures in Greece



Greece 2010 - 2020 Basic Road Safety Figures



2014 2015 2016 2017 2018 2019 2020 2020/2019 2020/2010 2016/2020 2012 2013 2010 2011 **Injury Road crashes** -15.0% -39.4% -19.6% 15,032 13,849 12,398 12,109 11,690 11,440 11,318 10,848 10,737 10,712 9,105 -15.8% -54.0% -29.7% Fatalities 1,258 1,141 988 879 795 793 824 731 579 700 688 Serious Injuries 1,709 1,626 1,399 999 879 -25.3% -71.5% -44.6% 1,212 1,016 706 727 652 487 **Slight Injuries** 17,399 15,633 14,241 13,963 13,548 13,097 12,946 12,565 12,422 12,350 10,130 -18.0% -41.8% -21.8% Vehicle Fleet (x1000) 8,076 1.4% 5.7% 4.2% 8,062 8,087 8,070 8,035 8,048 8,173 8,263 8,237 8,402 8,519 Fatalities per million vehicles -17.0% -56.4% -32.6% 156 109 99 85 82 141 122 98 101 88 68 Speed infringements 263,382 238,033 186,675 178,816 156,892 173,476 176,592 208,190 213,333 234,169 206,554 -11.8% -21.6% 17.0% -42.5% Drink & drive infringements -39.5% -49.8% 38,033 34,992 30,707 30,853 29,597 29,191 33,192 32,964 33,394 31,557 19.096 Seat belt infringements -12.8% -39.3% -13.4% 49,703 37,120 33,722 35,478 34,526 29,611 34,831 31,510 33,380 34,594 30,174 Helmet infringements 54,354 -10.9% -10.0% -27.5% 51,526 47,250 47,736 58,122 52,783 63,971 59,405 52,706 52,089 46,394

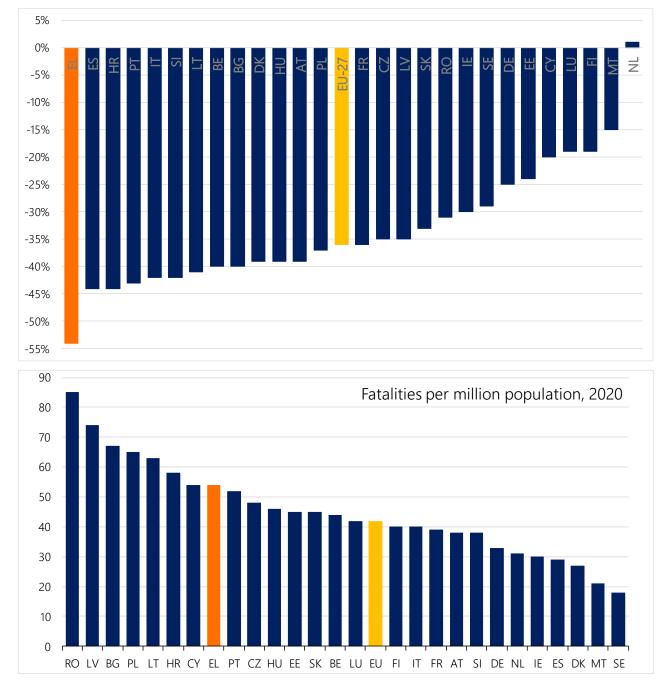




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Evolution of Road Fatalities Greece, 2010-2020

- Over the last decade, Greece recorded the highest decrease in road fatalities per million population (54%) in the EU (from position 27th in 2010 to position 20th in 2020)
- At EU level, road fatalities per million population were decreased by 36% over the same period
- Only 8 EU countries recorded a decrease in road fatalities per population over 40%





Source: European Commission

Road Crash Factors in Greece

- Driving at high speeds
- High rates of motorcyclists
- Low rates of seat belt and helmet use, especially for passengers
- Unorganised and unprotected traffic of vulnerable road users
- Driving under the influence of alcohol and using a mobile phone
- Aggressive driving

% Fatalities (2019)	Greece	EU (27)
Inside built up areas	54%	38%
Drivers	68%	64%
Passengers	11%	15%
Pedestrians	21%	20%
Powered Two Wheelers	36%	18%
Young Drivers (18-24) (% drivers)	13%	13%
Elderly Drivers (64+) (% drivers)	21%	23%
Single Vehicle Accidents	52%	39%

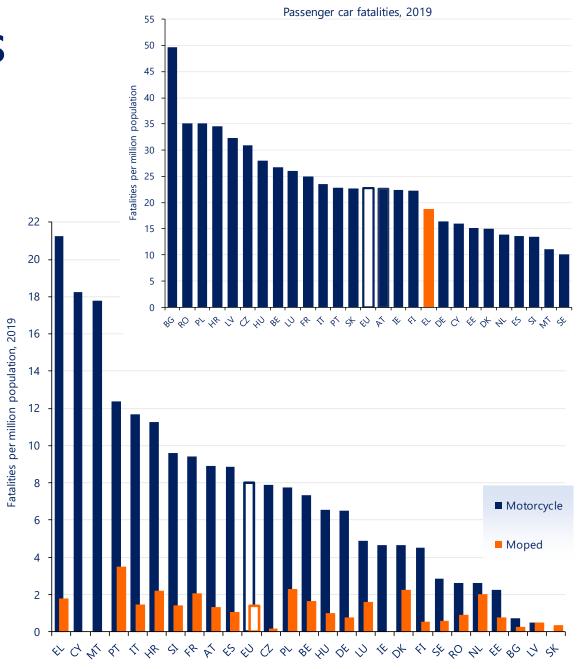
Fatalities in Passenger Cars (2019)				
Seat belt use	No seat belt use/ not recorded	Total		
53	149	202		
26%	74%	100%		

PTW Fatalities (2019)				
Helmet use	No helmet use/ not recorded	Total		
84	163	247		
34%	66%	100%		

Sources: ELSTAT, EC CARE Database Data Processing: NTUA

PTW vs Passenger Car Fatalities in Greece

- High rates of PTWs are one of the key road crash factors in Greece
- The proportion of motorcycles in the total vehicle fleet was 19% in 2019, while mopeds represented another 12%
- In 2019, Greece had the highest motorcyclist fatality rate in the EU (21 fatalities per million population), while the EU average was about 8
- Passenger car fatality rate in Greece (19) was below the EU average (23) in 2019



*2018 data for MT, 2016 data for IE Source: CARE database Processing: <u>NTUA - Road Safety Observatory</u>

Overview of the Decade 2011-2020



Road Safety Management

- The National Road Safety Strategic Plan 2011-2020 guided policy, programmes, measures and interventions
- The Inter-Ministry Committee on Road Safety was reestablished in 2010 and under the chairmanship of the Prime Minister since 2014, assisted by the National Road Safety Council
- The Ministry of Transport has properly implemented all EU Directives (vehicles, driving licences, etc.) and all procedures concerning road safety are always tighter than those of the EU Directives
- Quite a lot of the reforms imposed by the EU, resulted in a more serious implementation of rules (vehicle insurance, driving licenses. etc.)





Road Infrastructure

- Great improvement of the main road network (from 750km of motorways in 2007 to 2.200 km in 2018), with traffic from unsafe interurban roads having been shifted to new motorways, safest roads by design
- Several Local Authorities developed and implemented city mobility and safety plans focusing on infrastructure but often also on campaigns
- The detailed specifications for cycling infrastructure were officially adopted, whereas in 2018 several provisions for cycle traffic were also officially adopted
- The Road Infrastructure Safety Management Directive has been in application since 2012 and all new major road projects have been road safety audited



Road User Behaviour

- Local police often do enforce safe behaviour. Traffic police statistics indicate a steady number of checks and infractions during the last decade
- New traffic fines scheme was introduced (2018) based on infringement safety importance and offenders' income
- Introduction of vehicle control inspection run by private entities; more efficient against corruption
- Massive and very efficient campaigns, training and other safety promotion activities





Economic Crisis A Shock Therapy for Road Safety

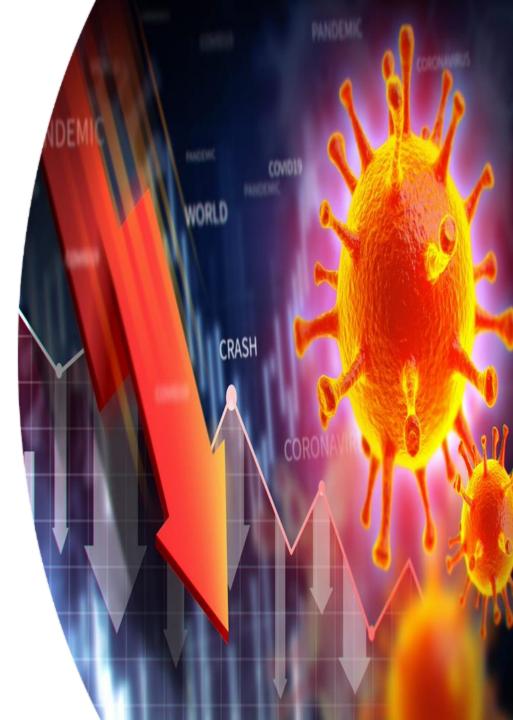
- A significant part of the fatalities reduction over the last decade was initially attributed to the deep economic crisis (less veh-km, less speeding, etc.)
- An average annual decrease of 11% in road fatalities was recorded over the period 2010-2014
- Greek drivers changed significantly their safety behaviour, initially triggered by the economic crisis but maintained it also well after





COVID-19 Impact

- A significant annual reduction (16%) was recorded in traffic fatalities in 2020, mostly due to the pandemic
- Total number of trips and distance travelled reduced by 70% (1st lockdown) and 37% (2nd lockdown) for people driving and walking compared to the period before
- Increase in average speed by 10% (1st lockdown) and 3% (2nd lockdown) compared to the period before
- Promotion of pedestrian and cycle traffic with new infrastructure, in several cities (including the Athens Great Walk major urban regeneration project)





Next Steps for the Decade 2021-2030



Road Safety Strategic Plan

Greece 2030

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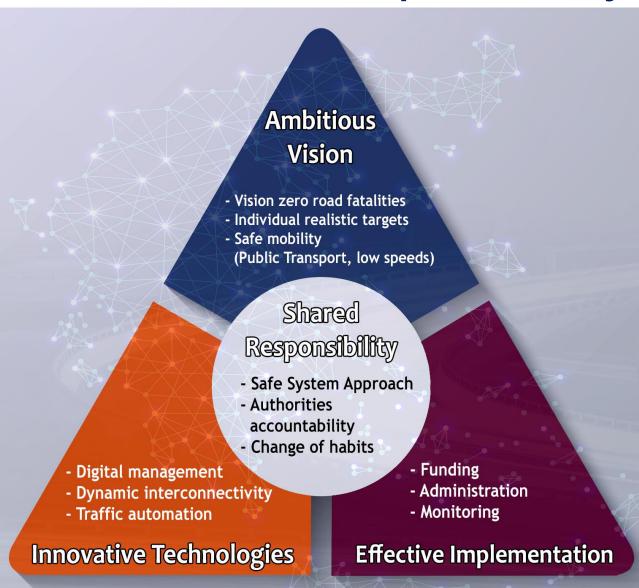
Road Safety Strategy 2021-2030 drafted by NTUA

> Adoption of:

- Safe System Approach
- Vision Zero by 2050
- Alignment with the European Strategy aiming to reduce the number of fatalities and serious injuries in road accidents by 50% by 2030 with 2019 as the baseline year (according to EU decisions)



Ambitious Vision – Shared Responsibility



Action Plan for Road Safety

- New National Road Safety Law
- New National Road Safety Fund
- Revision of Road Traffic Code
- New National Observatory for Road Safety
- A large road safety interventions program (intervention at 7.000 high risk sites) EIB funding
- Introduction of automated electronic procedures for monitoring traffic violations
- Action plan for motorcycle safety
- Action plan for speed management



Key Lessons and Opportunities



Concluding Remarks

- Greece is a success story of significant road safety improvement by shock therapy
- The economic crisis was the main trigger for Greek Authorities and Greek drivers to change their road safety behaviour, which was maintained when the economy picked up again
- The challenge is to continue the efforts and the culture change with emphasis on motorcycle safety and speeding, with interventions at all levels:
 - urban and interurban road infrastructure
 - systematic enforcement and campaigns
 - efficient road safety management



Key Opportunities

- The Covid-19 Pandemic led to major behavioural changes which might stay after the pandemic (as it happened with the economic crisis in Greece)
- The society might embrace the new road safety culture and will not get back to previous unsafe behaviours, exploiting current opportunities:
 - social responsibility
 - ➤ teleworking
 - ➤ active travelling
 - > 20m/h speed limits
 - new recovery and resilience funds









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