10th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH



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Clash of cultures in Greek traffic? What happens when a Southern European road safety culture is mixed with a Northern European road safety culture?

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Background

- Road crashes are the 2nd most important cause of death for international tourists after drowning.
- Tourists are at greater risk than local population due to:
 - driving in unfamiliar surroundings causing disorientation, distraction and fatigue,
 - ✓ poor knowledge of the road network,
 - ✓ lack of understanding of local traffic rules & signs,
 - potential poorer road infrastructure, poorer police enforcement and riskier road user behaviour in destination countries





Interaction in traffic

- When foreign tourists and local drivers interact in traffic, misunderstandings, frustration and conflicts arise, as a consequence of different behaviours and expectations.
- International tourists may adapt their behaviours to the local setting.
- If the proportion of tourist drivers reaches a critical mass in an area, it is rather the locals who adapt to the foreign drivers.
- This could lead to the development of a more northern European RSC in touristic areas in Greece.



Aims of the study

- a) To what extent do road safety cultures between international tourists and locals differ on the Greek island of Rhodes?
- **b)** Who is influenced by whom: Do the locals adapt their behaviour to that of tourists, or is it the other way around?
- c) What are the (potential) safety outcomes of these processes?

Study conducted within the research project "Safety culture in private and professional transport: examining its influence on behaviours and implications for interventions".



Quantitative survey

Sample

- Greek car drivers (N=286) and motorcycle (MC) riders (N=193) in Rhodes (representing touristic destinations) and Athens (representing Greek destinations with a less visible influence of tourists in traffic).
- Norwegian car drivers (N=461) and motorcycle riders (N=102) in Oslo (representing international tourists).





Quantitative survey

Questions on:

- road user behaviours (aggressive driving, DUI, speeding, use of seat belt/helmet etc)
- background variables (age, driver experience, gender, km driven in the last 2 years, driving/riding frequency etc)
- national RSC i.e. road user behaviours that respondents expect from other drivers in their own country
- driving of foreign tourists in Rhodes and the impact on MC riders during the touristic season.





Qualitative interviews

15 native Greek car and MC drivers in Athens and 15 in Rhodes.

6 native Norwegian car drivers in Oslo.

Semi - structured interview guide consisting of questions on:

road user behaviours, e.g. aggressive driving behaviour, DUI, speeding, use of seat belt/helmet
 the role of traffic police and state intervention,
 the role of the driving environment and the factors within it influencing driving behavior,
 the role and influence of tourists on driving behavior.



Survey sample characteristics

Groups	Number	Proportion	Males	<26	26-35	36-45	46-55	56+
MC Rhodes	74	7%	91%	20%	41%	28%	10%	1%
Car Rhodes	87	11%	62%	9%	21%	46%	21%	3%
MC Athens	119	8%	82%	10%	24%	25%	25%	15%
Car Athens	199	19%	65%	3%	24%	23%	32%	19%
MC Oslo	102	44%	59%	2%	10%	19%	39%	30%
Car Oslo	461	10%	97%	7%	27%	25%	17%	24%

- The share of males is higher for the motorcycle riders, especially in Rhodes and in Oslo.
- Respondents from Oslo generally are older than the respondents from Athens.
- > The youngest respondents are from Rhodes.



RSC of local vs international drivers in Rhodes National RSC as violations/aggression: "When driving in my country, I expect the following behaviour from other drivers":

- "To sound their horn to indicate their annoyance to another road user"
 "To become angered by a certain type of driver and indicate their hostility by whatever means they can"
- 3) "To overtake a slow driver on the inside"
- 4) "To drive when they suspect they might be over the legal BAC limit"
- 5) "To drive without using a seatbelt"
- 6) "To disregard the speed limit on a motor way road"
- 7) "To disregard the speed limit on a residential road".

National RSC as compliance/politeness:

"That they are polite to other road users"
 "That they respect and follow traffic rules"







RSC of local vs international drivers in Rhodes

Drivers/riders in Rhodes expect a higher level of violations/aggression from other drivers/riders and less compliance/politeness, compared with drivers/riders from Athens and Oslo.

- Results are in accordance with the qualitative interview data, indicating:
- that Greek drivers generally expected more violations from other drivers in their country than drivers from Oslo
- that interviewees reported many similarities, but also more negative road safety behaviours in Rhodes than in Athens in some respects.





Who is influenced by whom?

Riders/drivers in Rhodes expect more safety violations from other rider/drivers than rider/drivers in Athens. Thus, northern European tourists have not contributed to a more northern European RSC in Rhodes.

 Driving of foreign tourists in Rhodes and the impact on MC riders driving during the touristic season:
 1) "In your experience, do car drivers/MC riders who are foreign tourists drive differently than car drivers from Rhodes?",
 2) "In your experience, do MC riders who are foreign tourists drive differently than MC riders from Rhodes?"
 3) "In your experience, do car drivers/ MC riders from Rhodes drive differently in the tourist season than the rest of the year?"
 4) "Do you ride your motorbike differently in the tourist season than the rest of the year?"

Answer alternatives: "much slower", "a bit slower", "no difference", "a bit faster", "much faster". Dimitrios Nikolaou, Clash of cultures in Greek traffic?



Who is influenced by whom?

> Tourists are a **multifaceted** group:

- ✓ 42-45% of MC riders in Rhodes reported that tourist drivers/riders drive slower than local drivers
- ✓ 45-46% answered that tourist drivers/riders drive similarly to local drivers and
 ✓ 1/10 claimed that tourists drive faster.

About 60% of the drivers/riders in Rhodes assert that they do not adapt their behaviours to tourist drivers/riders, while 1/3 report adapting their behaviour by slowing down.





Safety outcomes

"Do you think that foreign tourists drive cars differently than car drivers from Rhodes in other ways? (e.g. more aggressively, or more politely)"

The most frequent answers were:

- "More careless/poorer drivers/more dangerous"
- "Unfamiliar with roads/dangerous/slower"
- ✓ "Different mentality/culture"
- Irresponsible/with maps/absent minded/slower
- "They bring with them their own driving culture which is not the same with ours"
- "They assume that we drive as they drive"





Conclusions

Higher crash risk of international tourists as they face several risk factors at the same time, just because they are foreign (i.e. unfamiliarity with the road environment, driving behaviours and RSC of the local drivers).

RSC of tourists is also foreign to local drivers/riders leading to frustration, misunderstanding, conflicts and potentially crashes among local drivers and tourists.

Some tourists and some locals adapt their behaviours to the other group but these adaptations can be both positive and negative for road safety.



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