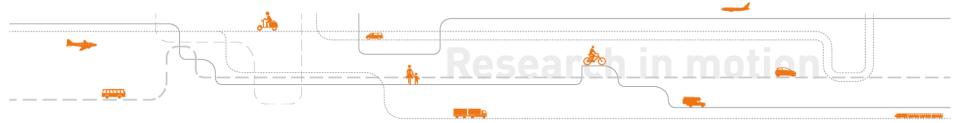
Maritime safety culture and safety behaviours in Greece and Norway: comparing professional seafarers and private leisure boat users

Kristine Størkersen ++

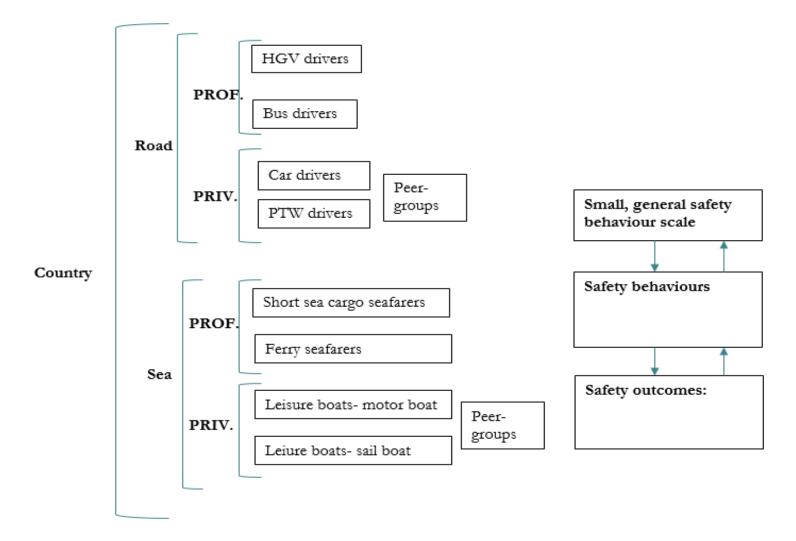
ESREL 2018 Trondheim



Safe Culture project information:

- Funded by the Norwegian Research Council's Transport 2025 programme. (2016-2018)
- Cooperation: TØI, NTUA, Global Link, NTNU, SINTEF.
- TØI: Nævestad, Phillips, Bjørnskau, Storesund Hesjevoll.
- NTUA: George Yannis, Alexandra Laiou
- NTNU: Kristine Størkersen
- Sintef: Stian Antonsen

Focus and samples in the project



Aims and methods:

■ Aim: examine the safety behaviours related to personal injuries and accidents among professional seafarers private leisure boat users in Norway and Greece and to study the factors influencing these behaviours.

Methods:

- Surveys to professional seafarers in cargo and passenger transport in Norway and Greece.
- Surveys to private boat users in Norway and Greece.
- Regression analyses to examine factors influencing accidents and factors influencing safety behaviours.

Background I:

- On average 15 killed and 424 injured annually on NOR/NIS vessels.
- In 2006-2015, on average 33 people died each year in recreational boating accidents in Norway.
- In Norway the number of deaths using leisure boats have more or less stayed the same since 1995.
- Why is the level of fatalities higher among private boat users than among professional seafarers and what may the former may learn from the latter?

Background II:

- Compared to the number of people who go boating in different countries, the risk of accidental death is quite high compared to that of other private transport modes.
- Despite of this, recreational boating is to a small extent being regulated and the level of enforcement is low.

Factors influencing injuries: professional seafarers

- Nationality (Norwegian) is the strongest variable influencing respondents' work injuries
- The variable with the second strongest contribution is the Risk acceptance/violations index.
- The youngest seafarers have a higher risk of being injured on board.

Factors influencing safety behaviours: professional seafarers

- The more demanding working conditions that the respondents experience, the more likely they are to be involved in Risk acceptance/violations.
- National safety culture specified as descriptive norms influences respondents' safety behavior.
- A positive organisational safety culture may reduce the negative contribution of demanding working conditions and safety compromising work pressure.

Factors influencing boating incidents: private boat users

- Nationality is the variable with the strongest contribution.
 (Greek boat users are involved in fewer incidents, controlled for the other relevant variables.)
- Increased alcohol use increases the likelihood of boating incidents

Factors influencing safety behaviours: private boat users

- National safety culture, specified as descriptive provides the strongest contribution to respondents' alcohol use while driving a boat.
- Boat type (motor boat with sleeping facilities) is related to alcohol use.
- Age (>56 years) and nationality (Greek) is related to less alcohol use
- Boat drivers on leisure/trips are more likely to drink alcohol while driving. (Compared with e.g. fishing, transport),

Summing up:

- Compared to the number of people who go boating in different countries, the risk of accidental death is quite high compared to that of other private transport modes.
- Despite of this, recreational boating is to a small extent being regulated and the level of enforcement is low.
- Unsafe behaviours related to work pressure and risk taking are predict accidents among professional seafarers (i.e. risk acceptance and violations),
- Unsafe behaviours related to the leisure/holiday situation predicted leisure boat users' accident risk (i.e. alcohol use while driving a boat).

The situation of private boat users is less regulated than that of professional seafarers:

- The ISM-code requires shipping companies to implement SMS describing safety roles, goals, procedures, monitoring, reporting, follow up etc.
- shipping companies also often work to implement a positive safety culture, including policies for seafarer behavior.
- Professional seafarers have undergone an IMO approved training in their respective home countries.
- Private boat users, on the other hand are not part of such a system of international and national regulation, involving education,