

# Mandating Uses of Driving Simulators and Varied Driving Conditions

By Team Fujairah

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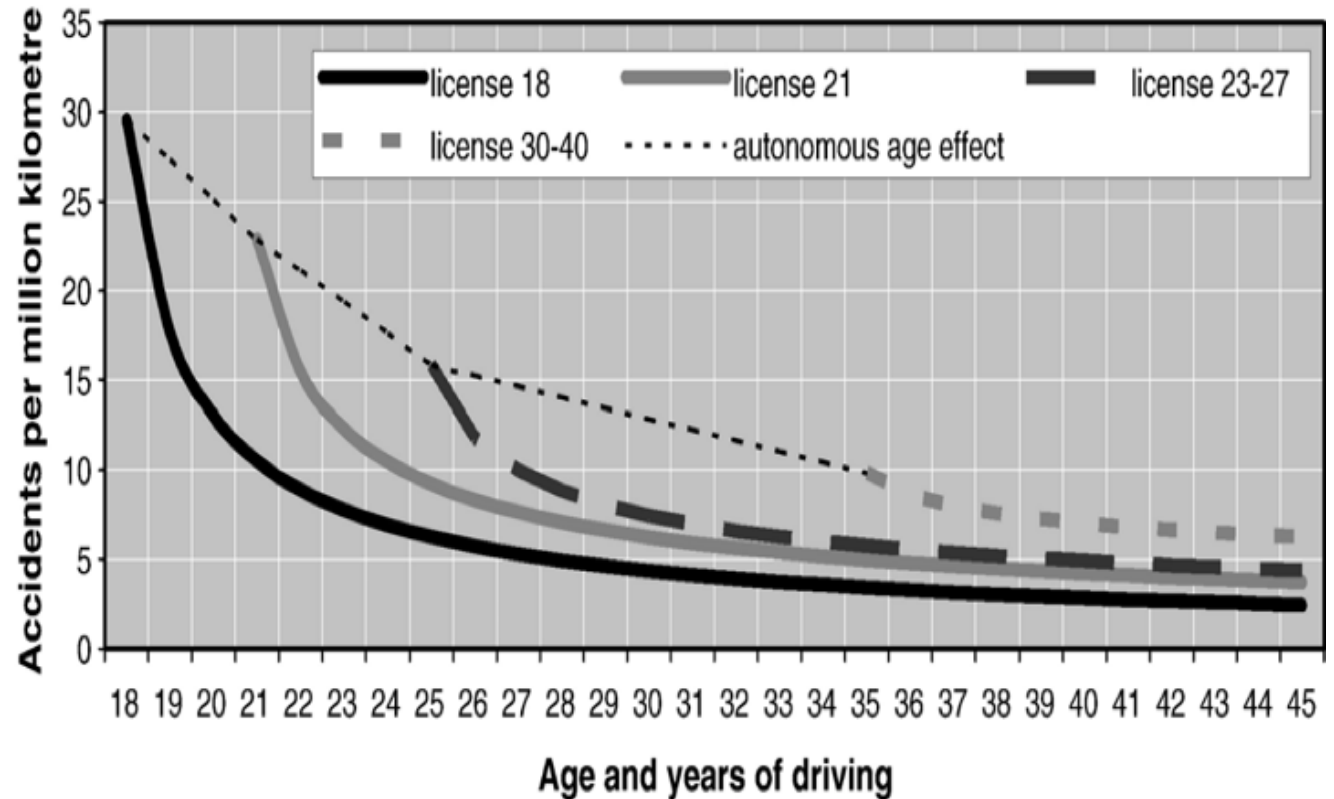
# Introduction

## In UAE

- Traffic incidents are the 2<sup>nd</sup> highest cause of death
- Youth drivers (18-25) are accountable for more than 20% of incidents in Dubai
- Inexperience is a major factor in incident occurrences

# Problem

- Inexperience is a greater cause of incidents than the age of driver



# Contributing Factors

- Inexperience with the task
- Skills
- Knowledge
- Maturity
- Environment

# Our Proposal

- Implementing the mandated use of
  - driving simulators
  - a prescribed variety of driving conditions
- Introduce a component of driving simulation as a prerequisite to Practical Training
- A prescribed list of road conditions under which students must undergo prior to taking the Road Test

# Comparison

Current

<b>1</b>	<b>Theory Lectures</b>	<b>Test</b>
<b>2</b>	<b>Practical training</b>	<b>Test</b>

Proposed

<b>1</b>	<b>Theory Lectures</b>	<b>Test</b>
<b>2</b>	<b>Simulation</b>	<b>Test</b>
<b>3</b>	<b>Practical training</b>	<b>Test</b>

# Evaluation of Outcomes

- The implementation will be in forms of a Pilot Program with a Driving Institute
- 4 groups in the designated driving institute
  - Current program
  - Addition of simulators only
  - Addition of varied road conditions only
  - Addition of both simulators and varied road conditions
- Tracking of crash rates of graduates over 3 years

# Discussion

- **Benefits**

- Provide more driving experience
- Exposure to tougher and more varied conditions
- Cost effective
- No legislative change required

- **Challenges**

- Simulations might not be realistic
- Convincing institutes to adopt may be difficult
- Mass perception of driving
- Cannot address the issue of peer pressure



# Conclusion

- More exposure to driving experience could reduce traffic incident rates
- We achieve exposure by mandating hours of experience