Are they seeing the same road?
Parents and learner drivers
Dr Bridie Scott-Parker, Research Fellow
Teen road safety risks

- Worldwide public health problem
Teen road safety risks

• Worldwide public health problem
• Australia and New Zealand, 2001-2010
  • 18 year olds sustained most injuries and fatalities
Teen road safety risks

• Worldwide public health problem
• Australia and New Zealand, 2001-2010
  • 18 year olds sustained most injuries and fatalities
• Queensland 2014, drivers with a provisional licence
  • Involved in crashes resulting in 11.2% of fatalities and 20.1% of hospitalized casualties
  • 6.0% of the licensed population
Number of casualty crashes by licence type

No. of drivers in casualty crashes

Learner licence phase
Provisional licence phase
Open licence phase

Years after licensing

0 1 2 3 4 5 6 7

Your learner is here
Graduated driver licensing

• Learners: 100 logbook hours
  • Parents the most common supervisor
  • Not professional driving instructors
    – Resources? Support?
Graduated driver licensing

• ‘Create an experienced driver’
  • Situation awareness
Graduated driver licensing

• ‘Create an experienced driver’
  • Situation awareness

Knowing what is going on around you

Perception ➔ Comprehension ➔ Projection
Study

• Recorded driving footage
Study

• 12 learner/parent dyads (2 dad/son, 5 dad/daughter, 5 mother/daughter)

• Immerse
Results

- Average word count
  - Learners = 1,200 words
  - Parents = 1,700 words
Results

• Average word count
  • Learners = 1,200
  • Parents = 1,700

• Are they seeing the same road?
  • Yes – must be some shared words/concepts
  • No – can all the words/concepts be shared?
Results

• Average word count
  • Learners = 1,200
  • Parents = 1,700

• Are they seeing the same road?
  • Yes – must be some shared words/concepts
  • No – can all the words/concepts be shared?

• What are their situation awareness concepts?
## Situation Awareness Concepts

<table>
<thead>
<tr>
<th>Learner</th>
<th>Shared</th>
<th>Parent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuing</td>
<td>Car</td>
<td>Overtaking</td>
</tr>
<tr>
<td>Driving</td>
<td>Merg(e/ing)</td>
<td>Passing</td>
</tr>
<tr>
<td>Green</td>
<td>Left</td>
<td>Speed</td>
</tr>
<tr>
<td>Kids</td>
<td>Lane(s)</td>
<td>Sign</td>
</tr>
<tr>
<td>Pedestrians</td>
<td>Front</td>
<td>Turning</td>
</tr>
<tr>
<td>Schools</td>
<td>Truck</td>
<td>Road</td>
</tr>
<tr>
<td><strong>Total = 6</strong></td>
<td><strong>Total = 24</strong></td>
<td><strong>Total = 6</strong></td>
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<td>Driving behind</td>
</tr>
<tr>
<td>Driving</td>
<td>Left Speed</td>
<td>Distance</td>
</tr>
<tr>
<td>Green</td>
<td>Lane(s) Sign</td>
<td>Highway</td>
</tr>
<tr>
<td>Kids</td>
<td>Front Turning</td>
<td>Parked</td>
</tr>
<tr>
<td>Pedestrians</td>
<td>Coming Hand</td>
<td>Ute</td>
</tr>
<tr>
<td>Schools</td>
<td>Truck Road Traffic Crossing Vehicle</td>
<td></td>
</tr>
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*Driving manoeuvres*
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<td>Sign</td>
<td>Zone</td>
</tr>
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<td>Front</td>
<td>Light(s)</td>
</tr>
<tr>
<td>Pedestrians</td>
<td>Down</td>
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<td>Speed</td>
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Relation to other road users
Situation awareness concepts

- Are they seeing the same road?
  - Yes – 24 shared concepts
  - No – 12 unique concepts
Situation awareness concepts

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• What about the situation awareness concept map?
Situation awareness map

• Are they seeing the same road?
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Situation awareness map

• Are they seeing the same road?
  • Yes – 24 shared concepts
  • No – 12 unique concepts

• What about the connections in the situation awareness concept map?
Situation awareness connections

• Are they seeing the same road?
  • Yes – 8 connections are shared
  • No – 29 connections aren’t shared
    – Learners: *turning* connected to *people, lights, down*
    – Parents: *turning* connected to *ahead*
Situation awareness connections

• Are they seeing the same road?
  • Yes – 8 connections are shared
  • No – 29 connections aren’t shared
    – Learners: turning connected to people, lights, down
    – Parents: turning connected to ahead

• Conclusion
  • Learners and parents aren’t seeing the same road
So what?

• Practise and safety implications

• Parents need to know

• They aren’t seeing the same road as their learner—Even though they are looking through the same windscreen and side windows

• Learners need to build situation awareness skills

• Situation awareness is about PCP (no, not the drug…..)

• Learners need to know this also…..

• Support for parents and learners?
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- Learners need to know this also.....
- Support for parents and learners?
Questions?

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