



Forward Tipping Dumpers

28 September 2017

Background

- ▶ **Swindon - 26 January 2017**

CECA asked to set up meeting to discuss potential specification for Forward Tipping Dumpers

- ▶ **London - 17 March 2017**

Working group meets to consider potential options for spec

- ▶ **London - 23 March 2017**

Proposals tested with group of leading contractors

Key points

- ▶ First priority should be to avoid accidents happening
 - ▶ Designing our risk
 - ▶ Improved management of sites
 - ▶ Commit to best practice
 - ▶ Awareness of operators and operatives
- ▶ Tackle overturning
 - ▶ Improving stability
 - ▶ Dealing with overturning risks
- ▶ Tackle individuals being struck by FTDs
 - ▶ Improving visibility
 - ▶ Providing warnings

1st Manufacturers meeting

- ▶ Camberley - 28 April 2017
- ▶ First discussion of specification proposals
- ▶ Key points raised on:
 - ▶ Cabs?
 - ▶ Inclinometers?
 - ▶ Tyre pressure?
 - ▶ Cameras/mirrors?
- ▶ Request for better data on real priorities for industry
- ▶ Request for information from manufacturers about viability of proposals

Survey

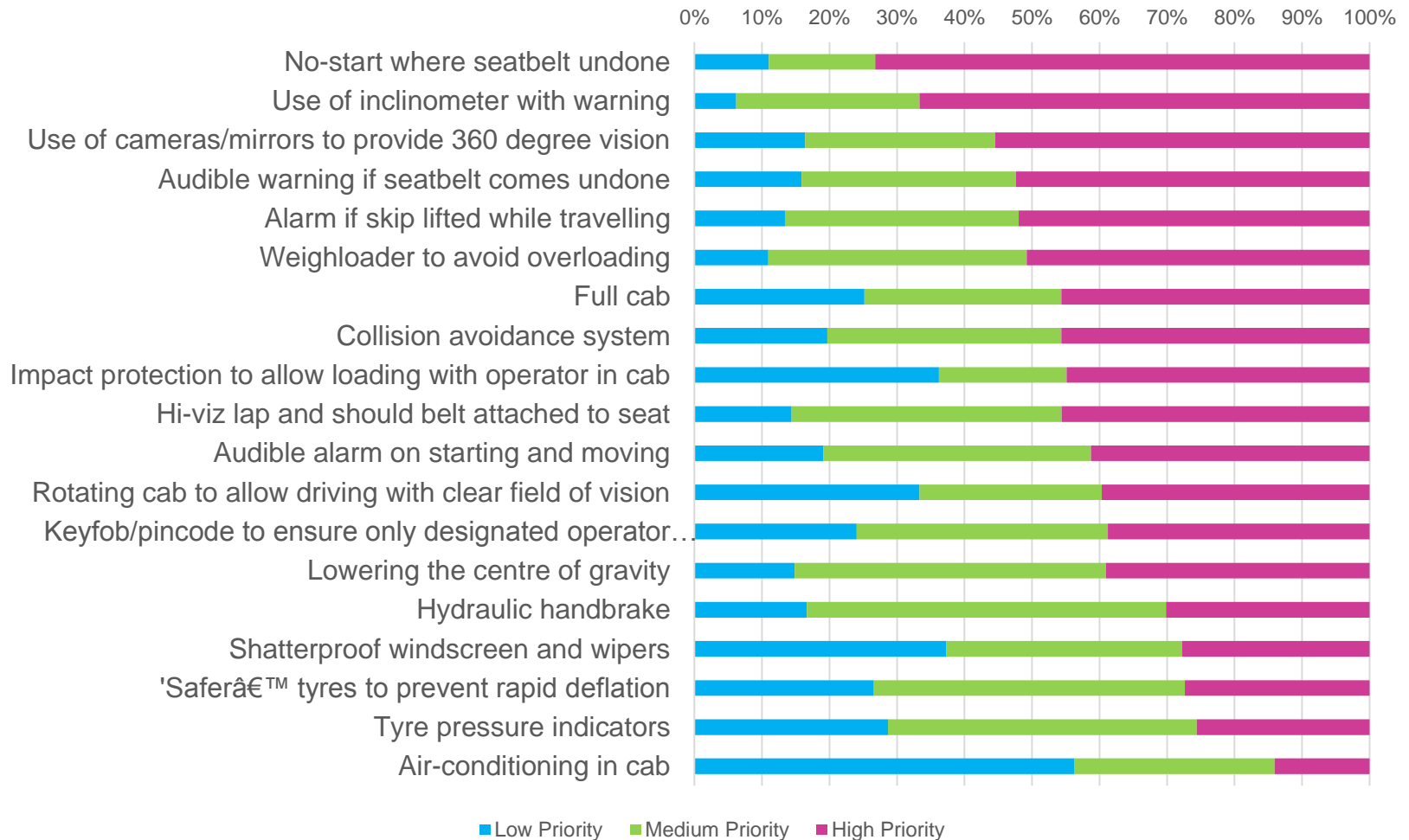
- ▶ Two surveys open from 1 May - 31 May 2017
- ▶ Industry Survey
 - ▶ 132 responses from contractors, clients, plant hire firms and housebuilders
- ▶ Manufacturers survey
 - ▶ 5/6 manufacturers responded to the survey

Survey

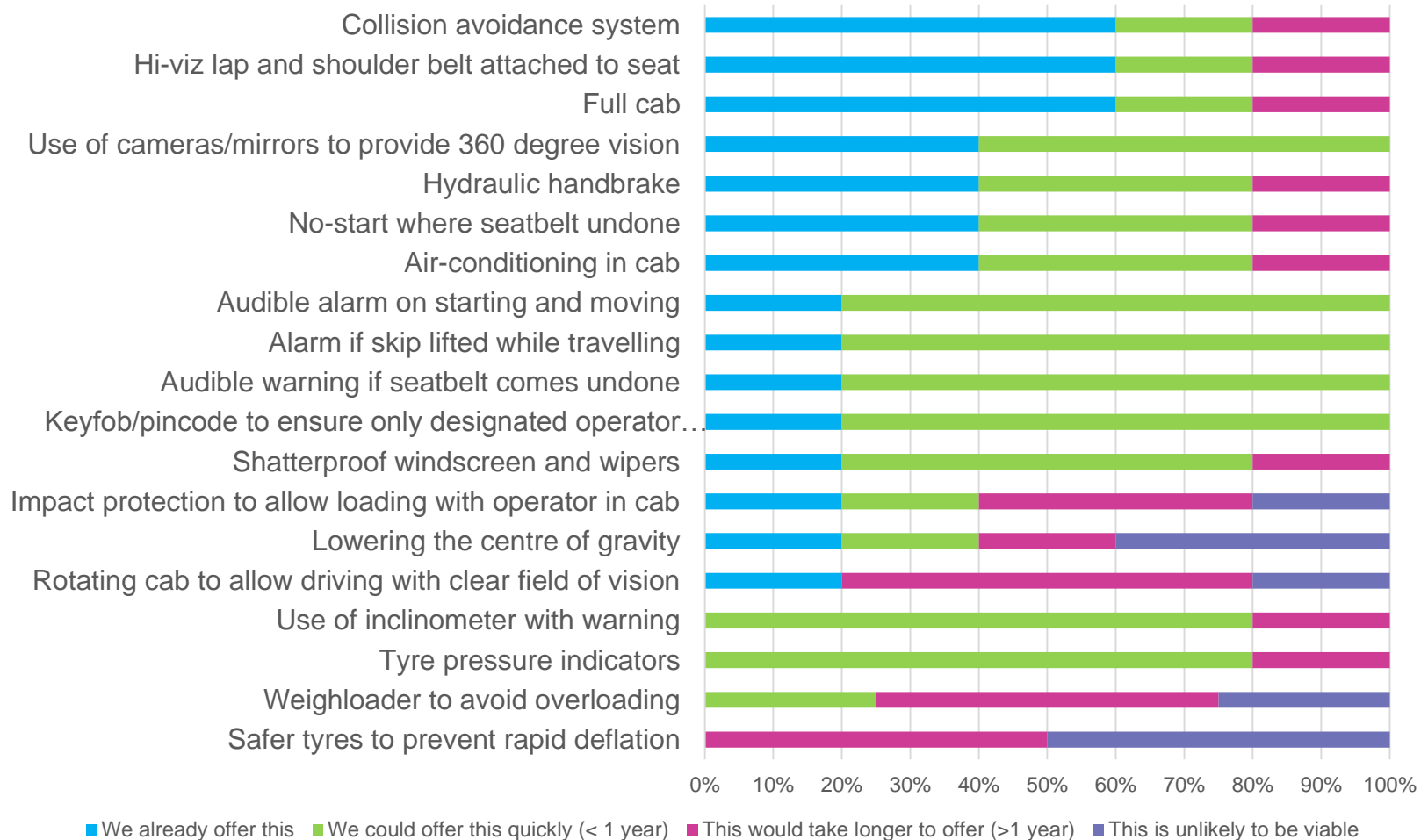
► Respondents asked to prioritise 19 proposed options:

1. Keyfob/pincode to ensure only designated operator uses dumper
2. Safer' tyres to prevent rapid deflation
3. Tyre pressure indicators
4. Use of inclinometer with warning
5. Full cab
6. Air-conditioning in cab
7. Impact protection to allow loading with operator in cab
8. Hi-viz lap and shoulder belt attached to seat
9. No-start where seatbelt undone
10. Audible warning if seatbelt comes undone
11. Weighloader to avoid overloading
12. Lowering the centre of gravity
13. Rotating cab to allow driving with clear field of vision
14. Use of cameras/mirrors to provide 360 degree vision
15. Alarm if skip lifted while travelling
16. Audible alarm on starting and moving
17. Collision avoidance system
18. Hydraulic handbrake
19. Shatterproof windscreen and wipers

Industry response



Manufacturers response



2nd Manufacturers meeting

- ▶ Plantworks - 6 June 2017
- ▶ Discussion of survey findings
- ▶ **SUPPORTED**
 - ▶ No drive where seatbelt undone/warning if undone in operation
 - ▶ Standard colour seatbelt attached to seat
 - ▶ Provide clear field of vision
 - ▶ Provide collision avoidance
 - ▶ Improve stability of dumper
 - ▶ Alarm on starting

2nd Manufacturers meeting

- ▶ **REQUIRES FURTHER WORK**
 - ▶ Provision of inclinometer
 - ▶ Alarm where skip raised during travel
 - ▶ Full cab with impact protection

- ▶ **NOT TAKEN FORWARD**
 - ▶ Weighloader
 - ▶ Safer tyres/pressure monitors
 - ▶ Hydraulic handbrake
 - ▶ Air conditioning

Where do we go from here?

- ▶ Great progress in a short time
- ▶ Strong support from across industry
- ▶ Need to engage the wider industry

- ▶ Propose awareness campaign from Q4 2017 onwards
- ▶ Provide website to allow industry to find information, and to coordinate future activities
- ▶ Structure based on 6 principles...

Proposals for 6 Principles

1. **Full vision** - that new FTDs should provide a full field of vision for operators
2. **Stability** - that new FTDs should have improved stability to reduce the risk of overturning
3. **Training** - that industry should collaborate to provide better understanding for operators and operatives about the risks of FTDs
4. **Competence** - that no one should operate an FTD unless the employer has assured themselves of their competence to use the machine
5. **Spoil heaps** - that industry will tightly control operation of FTDs on spoil heaps, with ban where not absolutely necessary.
6. **Exclusion** - that industry will collaborate to develop a standard approach to exclusion zones for FTDs.