AGV Safety Practical Considerations

Sponsored by:



Presented by:

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Safety Statement

When *compliant* with *regulations*, machines and tools are considered *safe*.







Safety Statement

Any machine or tool can be unsafe when used improperly.



AGV Safety - Practical Considerations | slide 3 | rev A





The Actors

Three key elements to AGV Safety:

The user The environment The machine







USA

The User







USA

The Environment

	Lift Truck	AGV
Speed	7.5 mi/hr	2.5 mi/hr
Safety Equipment	Driver Training	Safety towards environment
Travel Path	Random Paths	Defined Repetitive Path
Visual Travel Indicators (Blinkers, Beacons, etc.)	Varying	Standard
Audible Travel Indicators (FWD/REV Tones, Alarms)	Varying	Standard
Restricted Areas	Driver Training	Known



AGV Safety - Practical Considerations | slide 6 | rev A



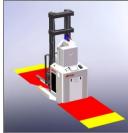


The Machine - AGV

USA B56 StandardEuropean Machine Directive

+ CE Label = EN 1526







NSI



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Safety Statement

Automatic Guided Vehicles Are safer today than at any time in their history of use.





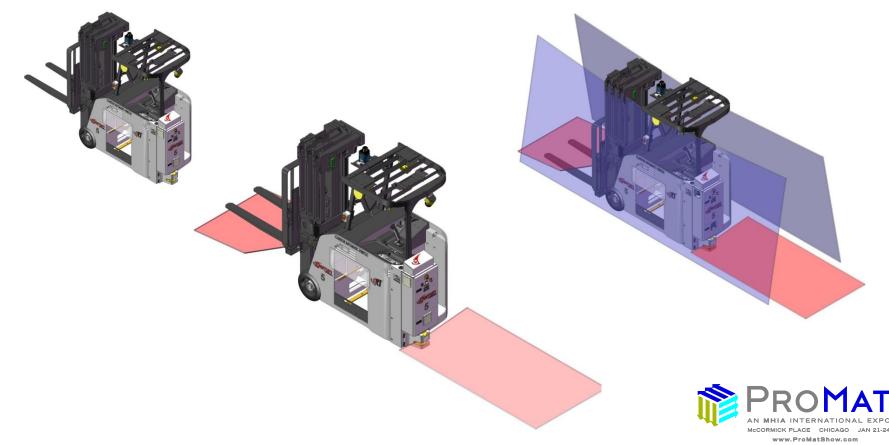






The Machine – AGV

Equipment Specific Additions



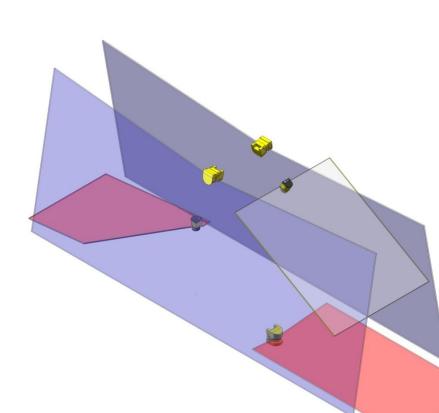
20





The Machine – AGV

Equipment Specific Additions









Safety Statement

Most accidents happen as a result of *behavior*.

- Distractions
- Habituation (complacency)
- Shortcuts





USA

An Example



Any machine or tool can be unsafe when used improperly.



AGV Safety - Practical Considerations | slide 12 | rev A





An Example



Respect the machine and employ safe practices.

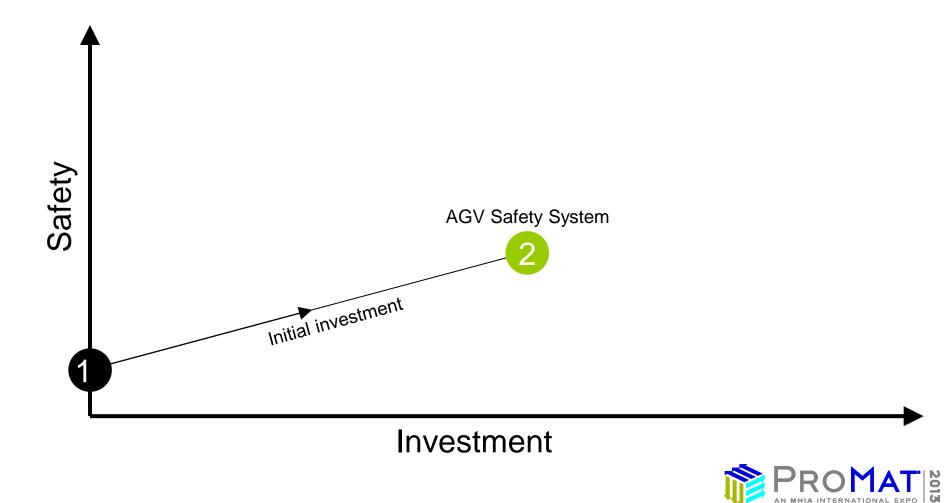


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Case study – Initital Investment

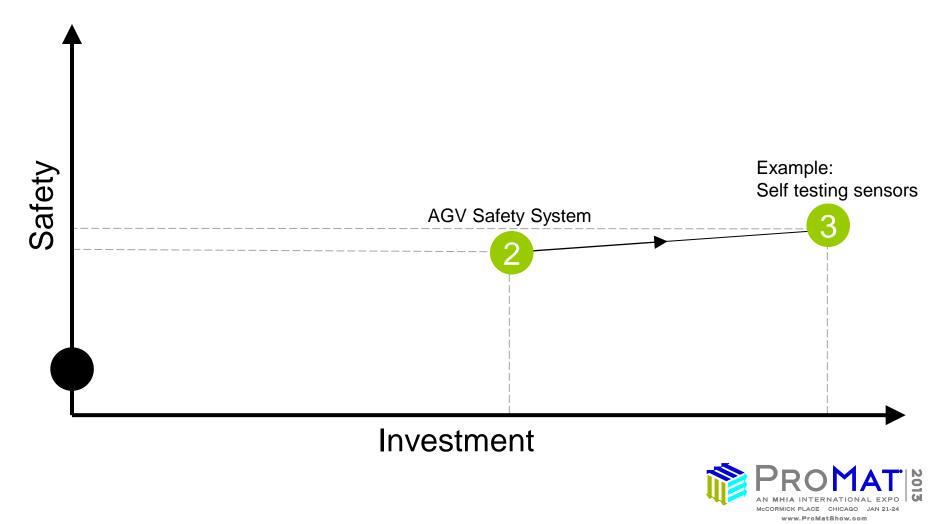


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Case study – Diagnostic Improvement

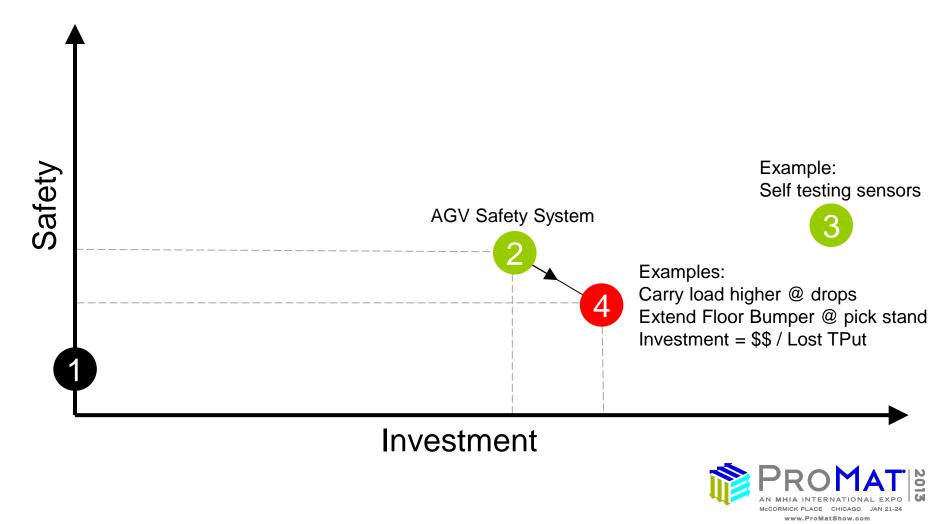


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Case study – Station Routine

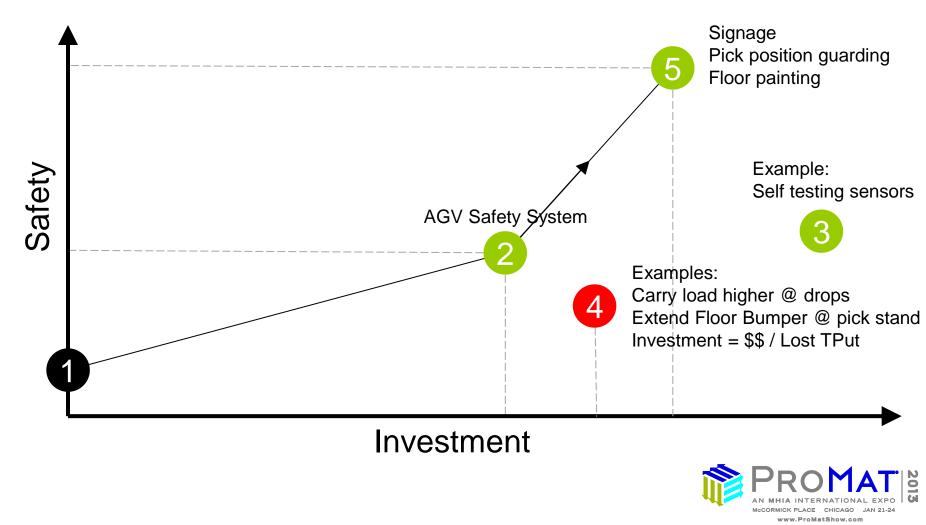


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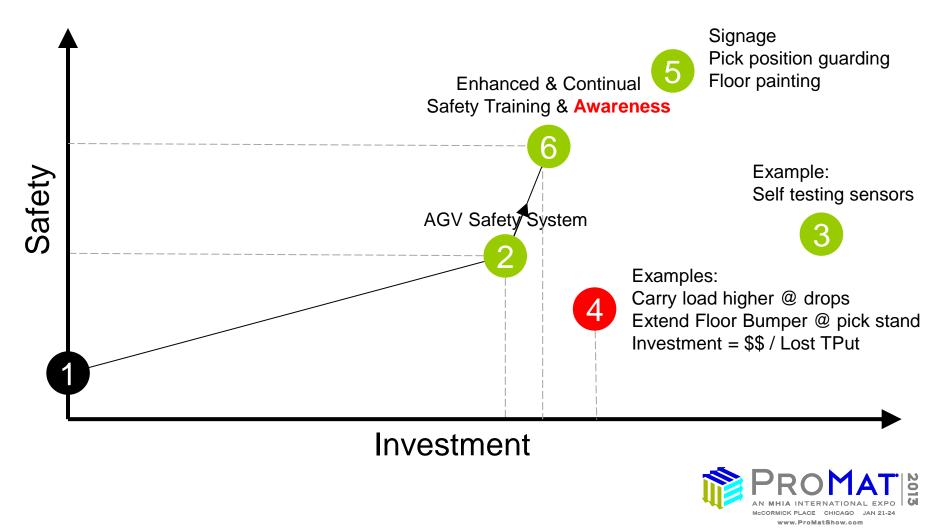
Case study – Environmental Updates







Case study – Training & Awareness







Conclusion

Safety has 3 key elements: The user The environment The machine



AGV Safety - Practical Considerations | slide 19 | rev A





Conclusion – AGV Specific

AGVs are *safer* than they have ever been, and getting *safer*

AGVs are a safe solution

Safety requires constant awareness



AGV Safety - Practical Considerations | slide 20 | rev A





AGV Safety – Practical Considerations





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