

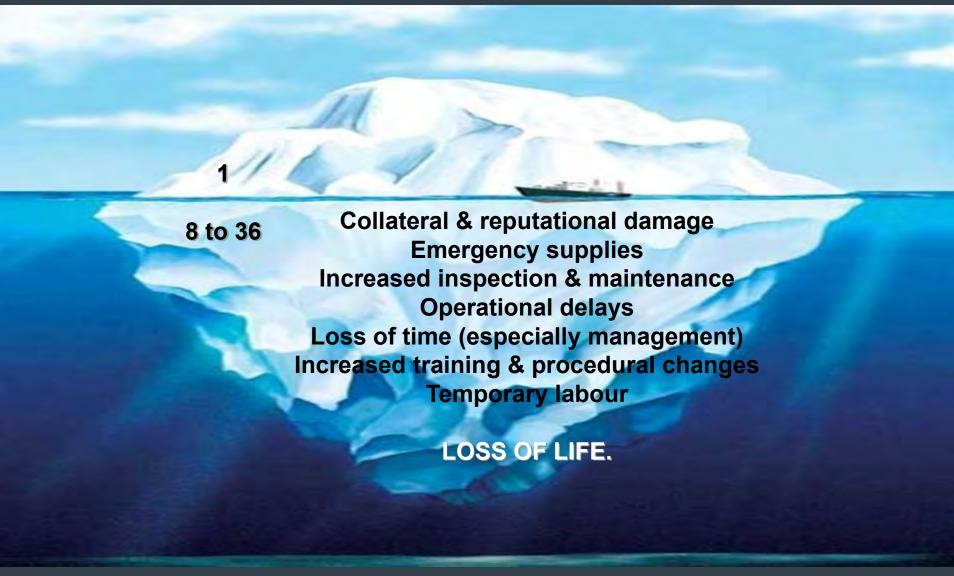




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Cost of Claims	
Claims analysis overview	
Claims analysis and loss prevention	









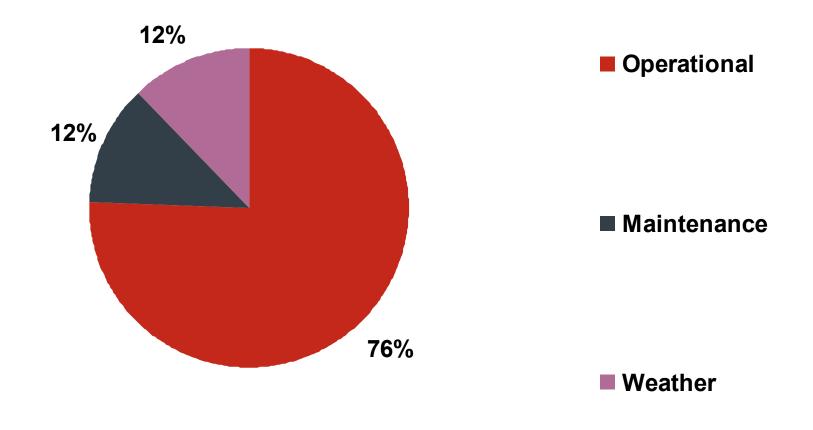
Claims analysis overview

Analysis of the main causes of claims:

- Includes last 5 years data
- **2010 2016**
- All claims over US\$10,000
- 6,889 claims
- Includes all claim types:
 - Property
 - Liability
 - Bodily injury



Ports and Terminals Main cost cause categories





Claims analysis overview

Claims analysis and loss prevention

Operational issues

Maintenance Issues

Weather issues

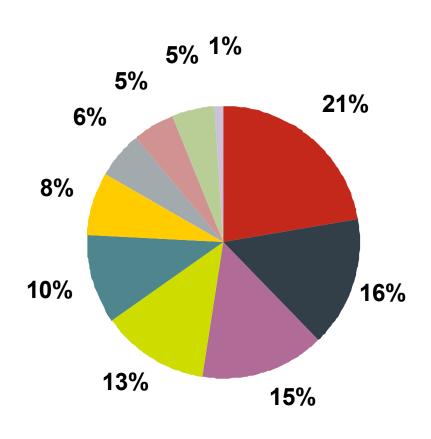


Bigger ships and bigger and more cranes





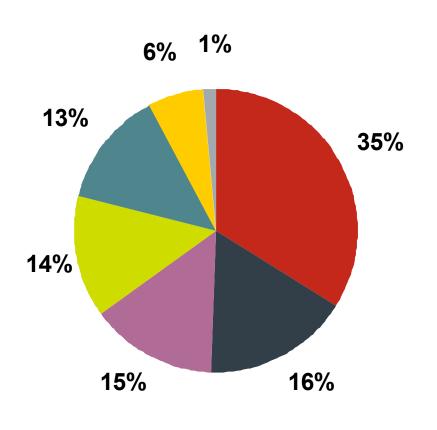
Ports and Terminals Operational issue costs



- Wharf Crane
- Lift Truck
- Yard Crane
- Systems & Processes
- Theft
- Truck/ Vehicle
- Ship in Port
- Straddle
- Single Person Incident
- Other



Ports and Terminals Wharf crane issue costs



- Boom to ship collision
- Other Spreader, Hoist Issues
- Other Collision
- Weight, twistlock, cell guide issue
- Stack Collision
- Twin Twenty Issue
- Other

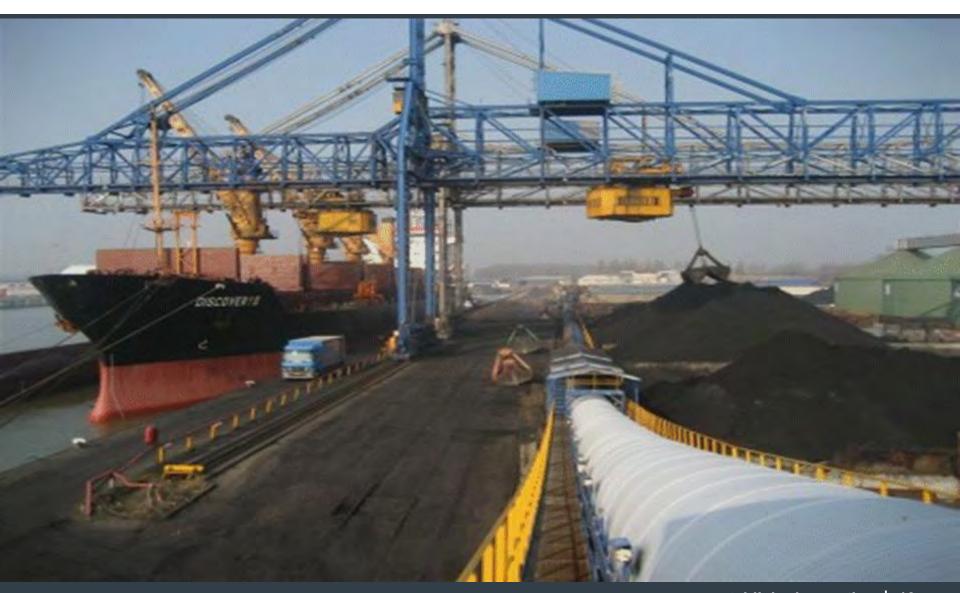


Boom collisions



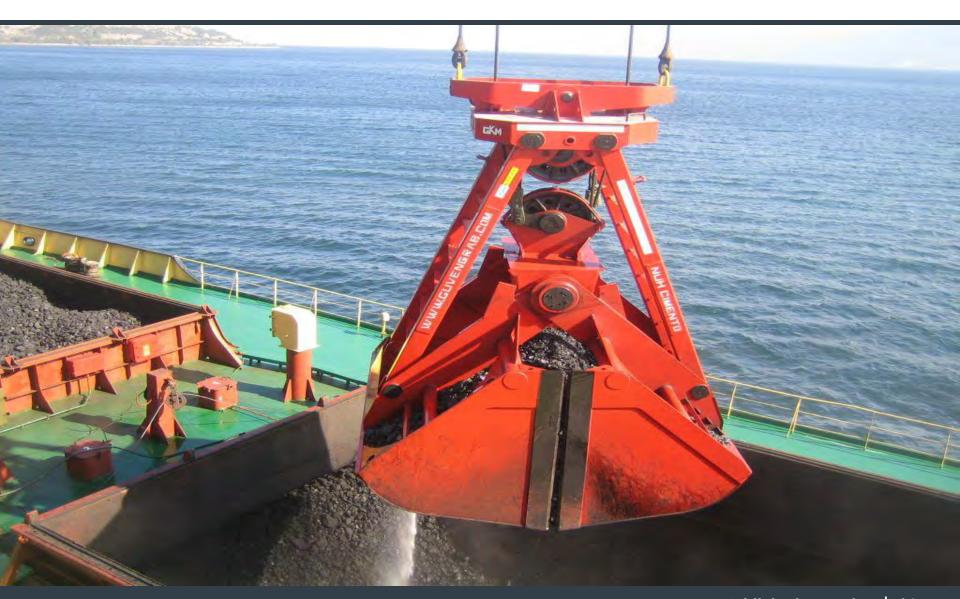


Boom collisions





Bulk unloading grab





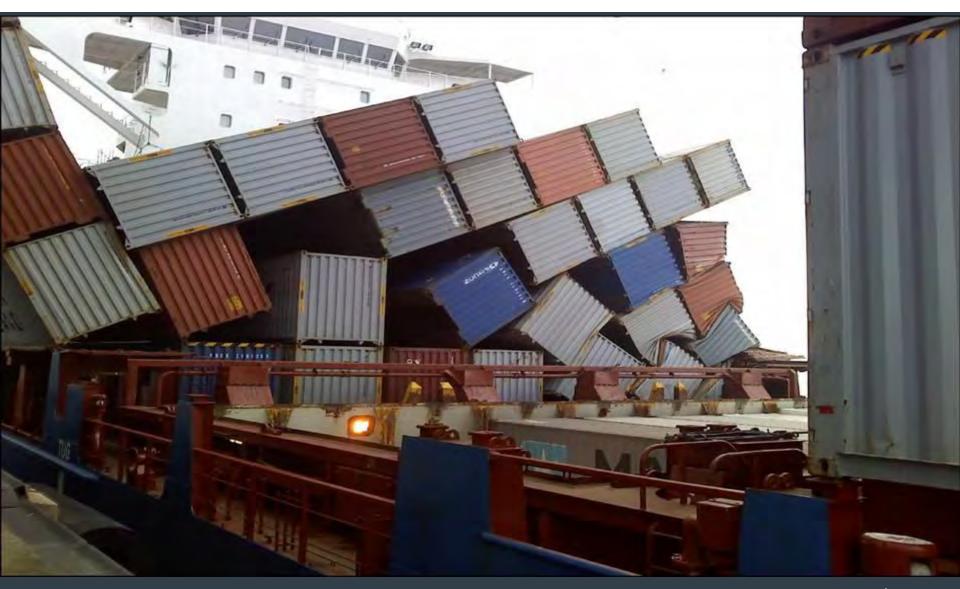
Ports and Terminals Boom to ship collisions – Loss prevention

35% of quay crane claims costs

Totally preventable with quay crane boom anti-collision sensors Laser sensors – www.sick.com



Ship stack collision





Twin Twenty issue











Lifting the trailer and container







Detects & prevents:

- Lifting of trailer or rail wagons still connected to container
- Lifting if not all twistlocks engaged
- Snag load situations
 - Container still locked with stack or stuck in cell guides
- Slack rope detection after landing without box

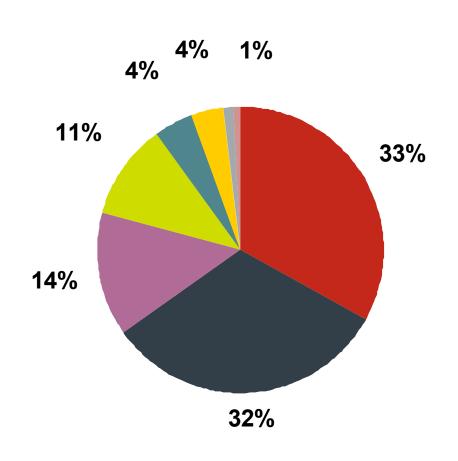
Measures and records:

- Each twistlock & total container weight
 - Safer handling of containers
 - Better ship planning to ensure trim and stability
- Load eccentricity in single & twin lift
 - Help prevent trucks overturning
 - Can side shift spreader before exiting ship cell guides
- Twistlock load cycles
 - Optimise twistlock replacement intervals
 - Spreader & crane life cycle management & overload tracking





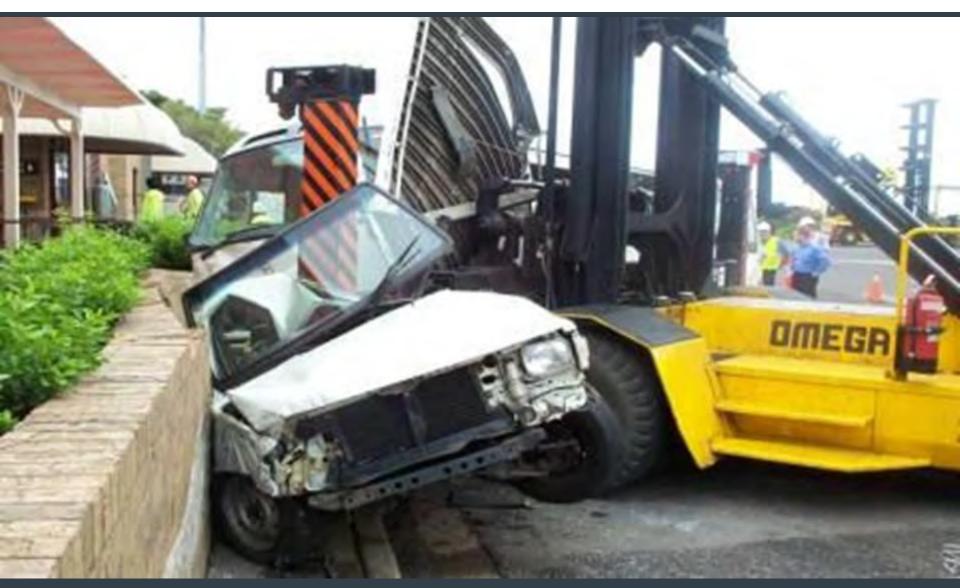
Ports and Terminals Bodily injury claim costs



- Lift Truck
- Yard Crane
- Single Person Incident
- Truck/ Vehicle
- Wharf Crane
- **Straddle**
- **Other Operational Issues**
- Systems & Processes



Lift truck / vehicle collision



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Ports and Terminals Traffic management – Loss prevention

84% of injury costs caused by equipment and vehicle drivers

Prevention:

Traffic management procedures:

- One-way traffic flows
- Limiting vehicles & pedestrians in yard
- Site induction procedures
- Safe area for truckers to secure/unsecure loads
- Speed limits set and enforced

Technologies:

- RFID system on all pedestrians and mobile equipment
- Mobile equipment anti-collision sensors
- Rear view cameras



Dangerous Work practices





Dangerous practices





Ports and Terminals Safety awareness- Loss prevention

14% of injury costs caused by single person accidents

Prevention:

- Safety awareness
- Tool box talks
- Safety lock out systems
- Good housekeeping



Ports and Terminals Loss Prevention Summary

Training:

- Continuous safety awareness
- Enhanced focus on driver training (simulators)

Procedures:

- Preventive not breakdown maintenance
- Better crane securing procedures & brake maintenance
- Structural inspections
- Ship movement & berthing procedures
- Security theft
- Systems & processes pack it right
- Traffic management

Re-design/Technology:

- Wharf crane boom anti-collision sensors
- Wharf & yard crane stack profiling
- Mobile equipment travel anti-collision
- Fire suppression
- Container weight & eccentricity measurement.



Governed by the industry for the industry































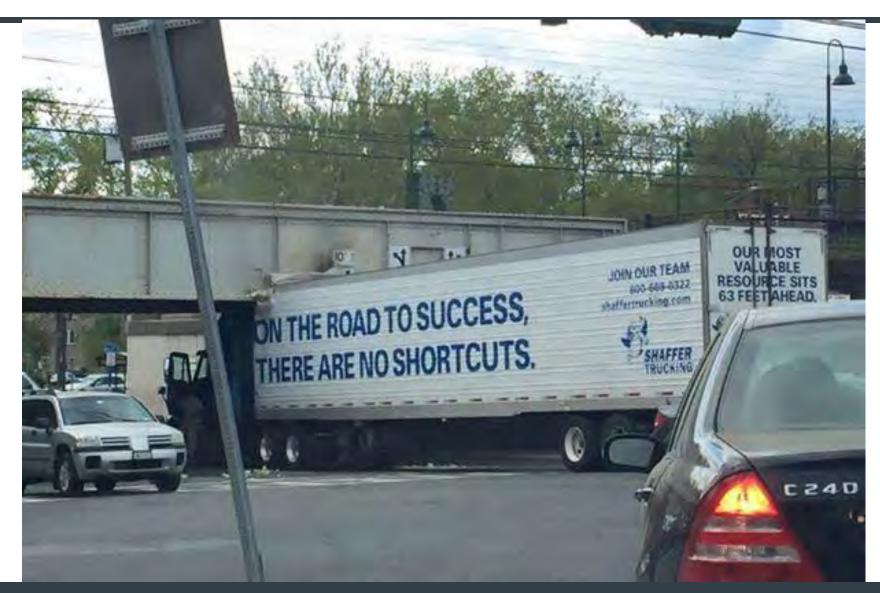








On the road to success there are no shortcuts!





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