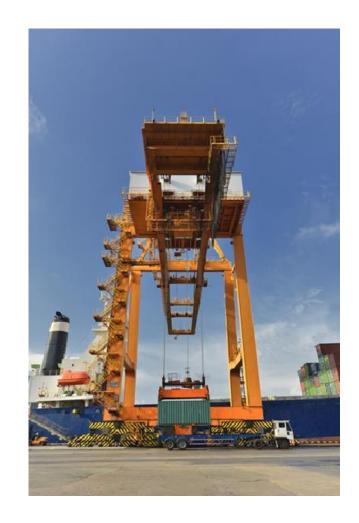




What is TT Club?

- 'TT' stands for 'through transport', reflecting the doorto-door nature of risks when transporting goods around the world.
- 'Club' denotes the mutual status, with ownership belonging to the Members rather than shareholders





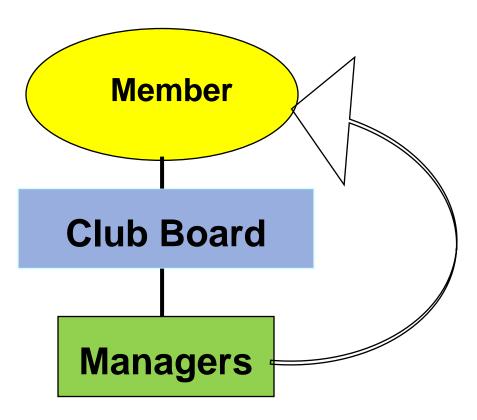
- Established 1968
- Mutual Insurer Owned by it's Members and run to the benefit of Members
- Provide insurance at cost
- Non profit making
- Managed by Thomas Miller & Co on behalf on the Club









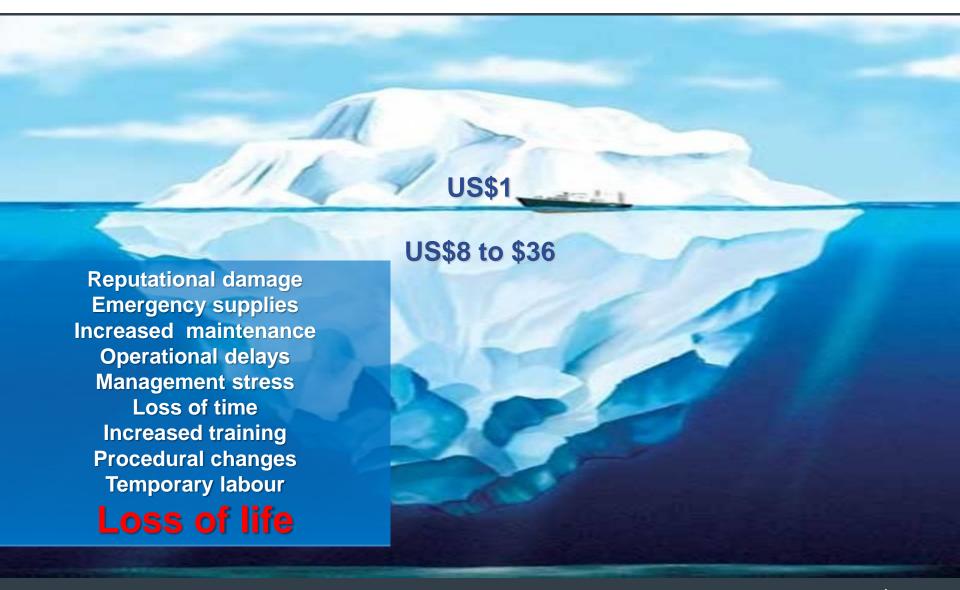


Daily management of the work:

- **Underwriting**
- **Claims**
- Loss prevention
- **Promotion**
- Other administrative tasks



Hidden cost of accidents













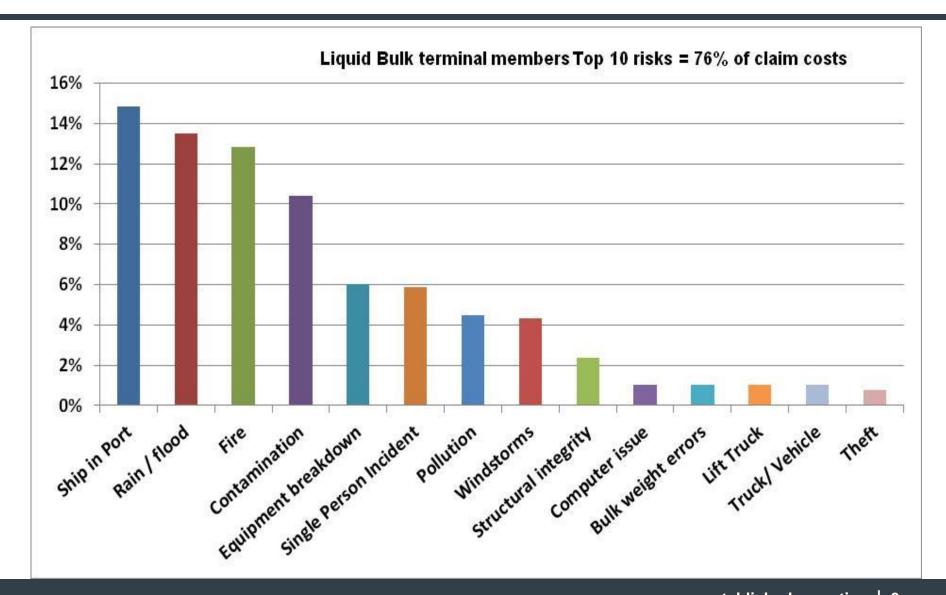
Top risk issues

Loss prevention actions

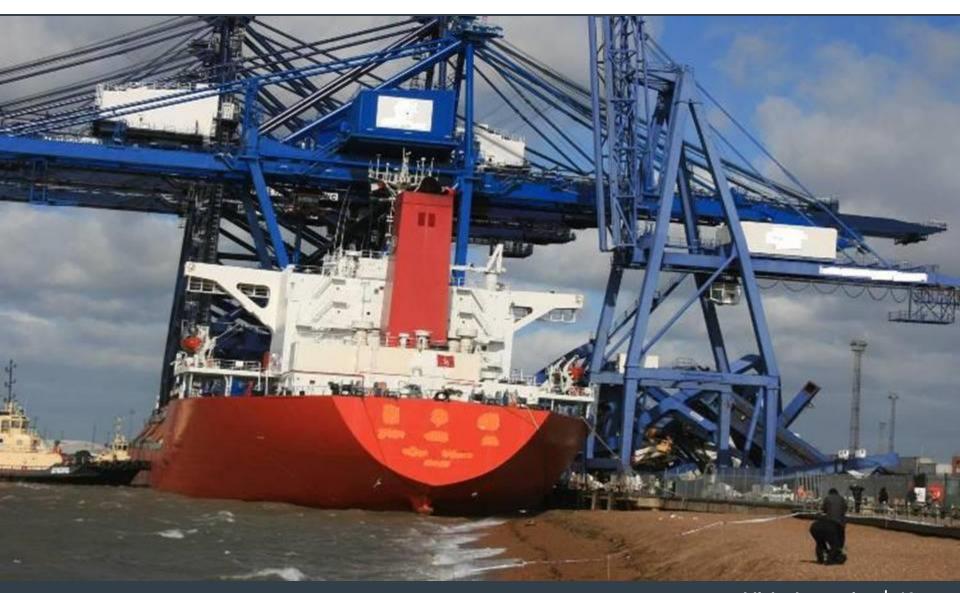
Summary



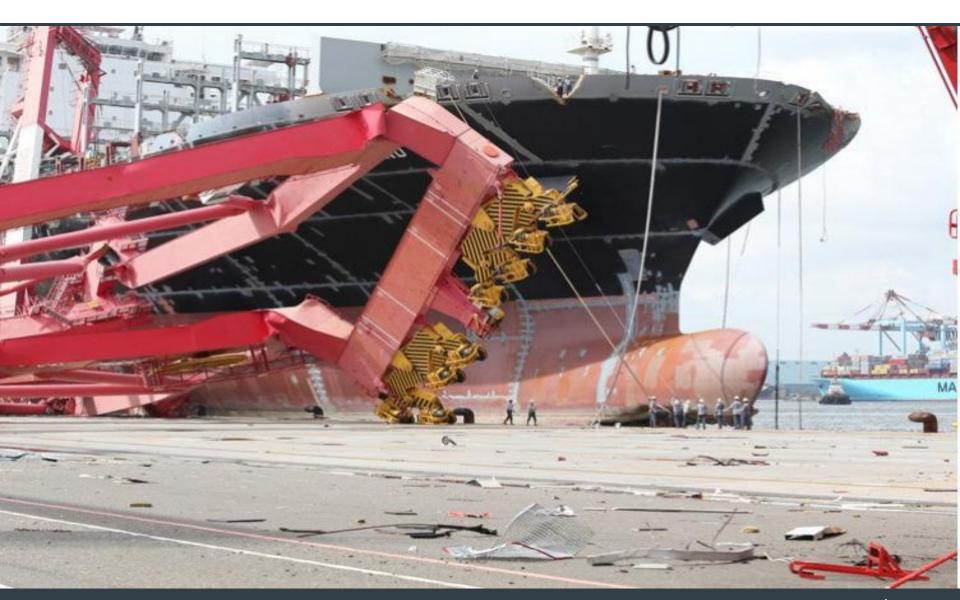
Top risks per insurance claims cost



TT CLUB Ship broke mooring lines – knocked over cranes



TT CLUB Ship broke mooring lines – knocked over cranes



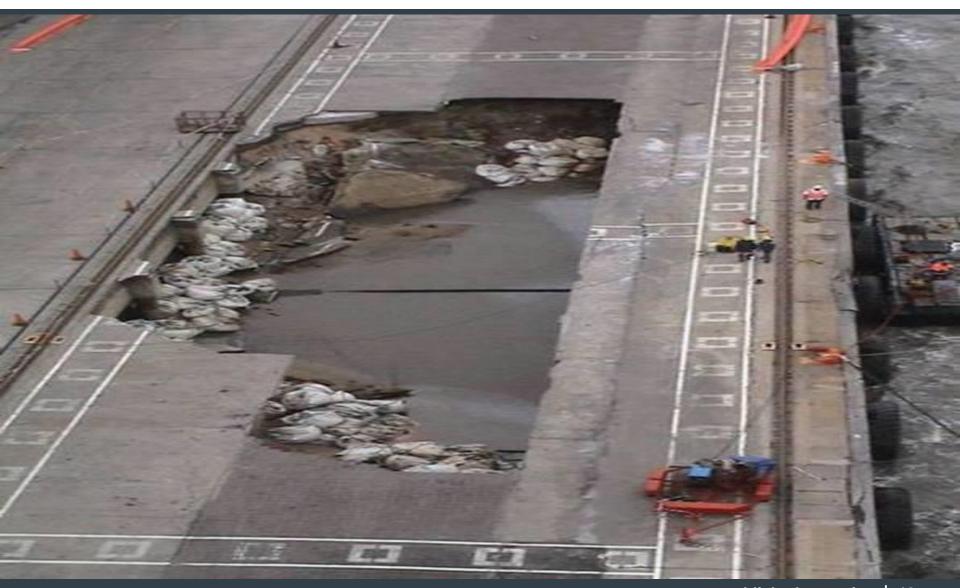


Ship movement & berthing procedures





Ship movement & berthing procedures



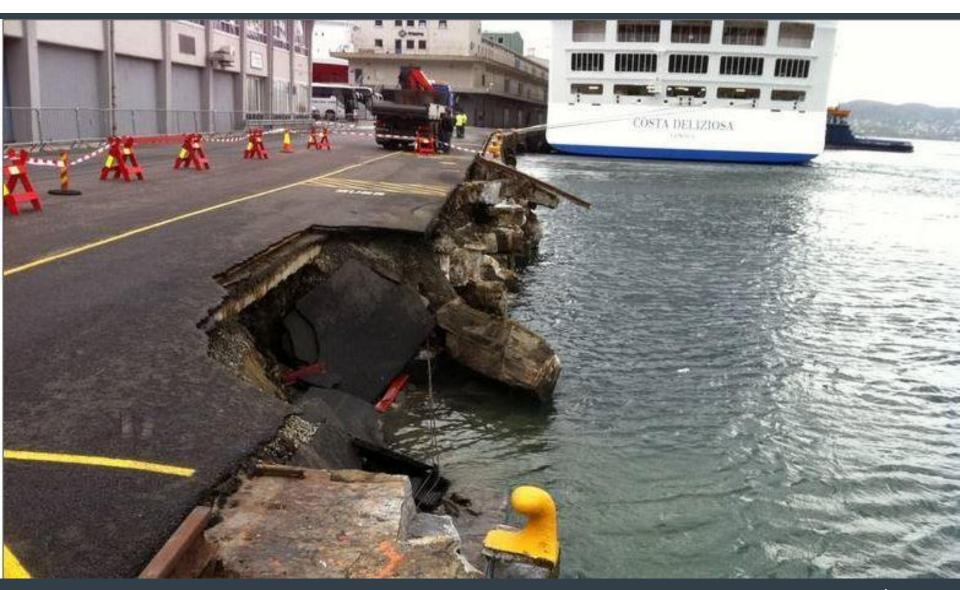


Bollards and mooring lines





Ship too strong for bollard





Ship movement & berthing procedures

Ships cause damage in ports in calm and bad weather

Terminal issues:

- Parking location of quay cranes
- Crane booms raised

Port Authorities issues:

- Quality of pilots
- Number and size of tugs
- Bollard capacity
- Procedures in severe weather stay or go
- Spare lines.

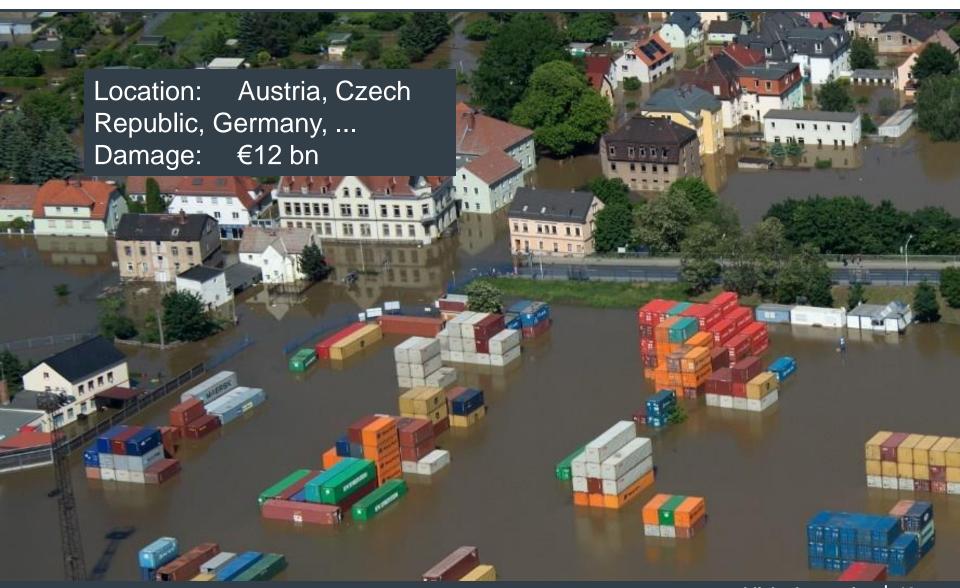


Tornados can happen anywhere today



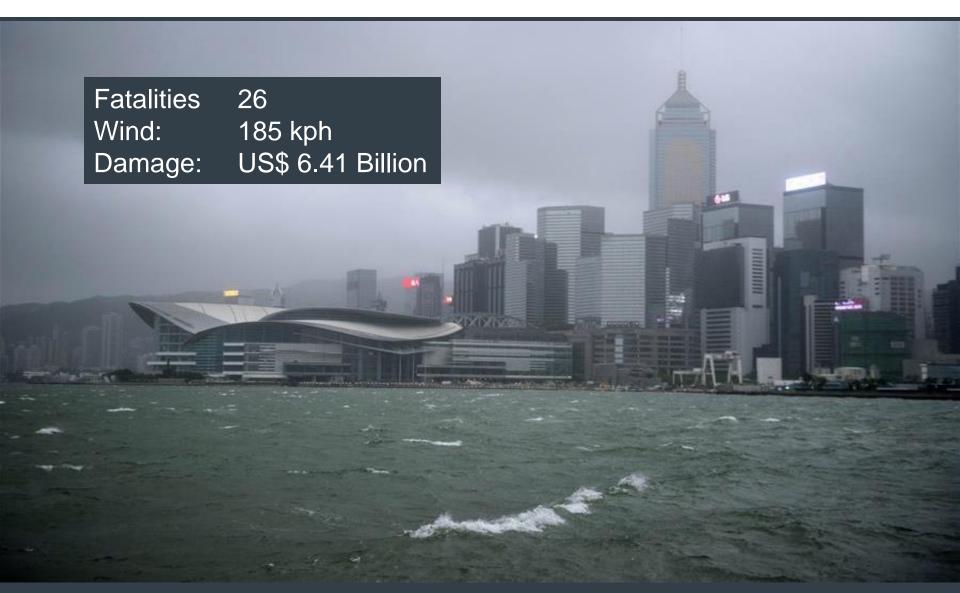






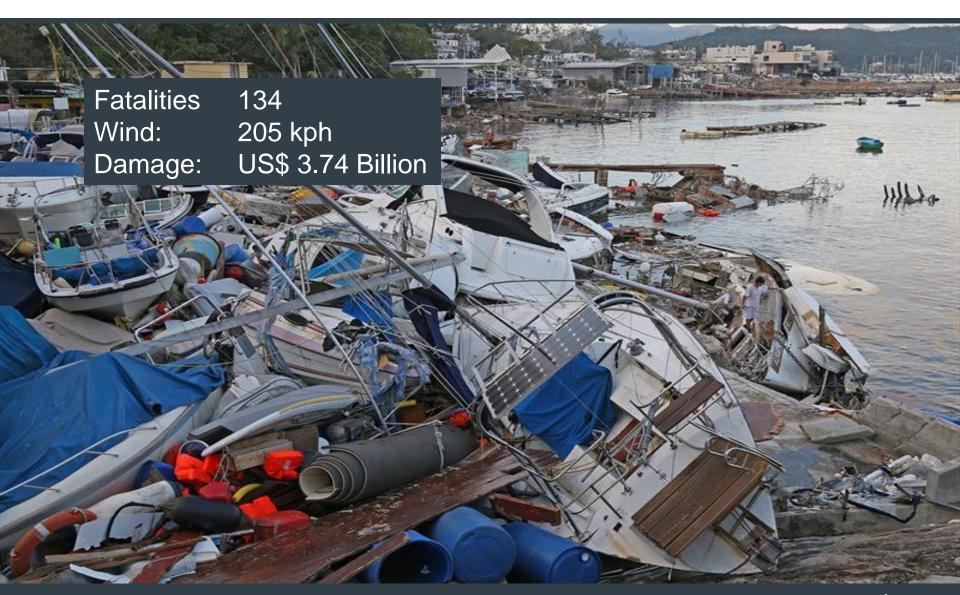


Typhoon Hato South China 2017



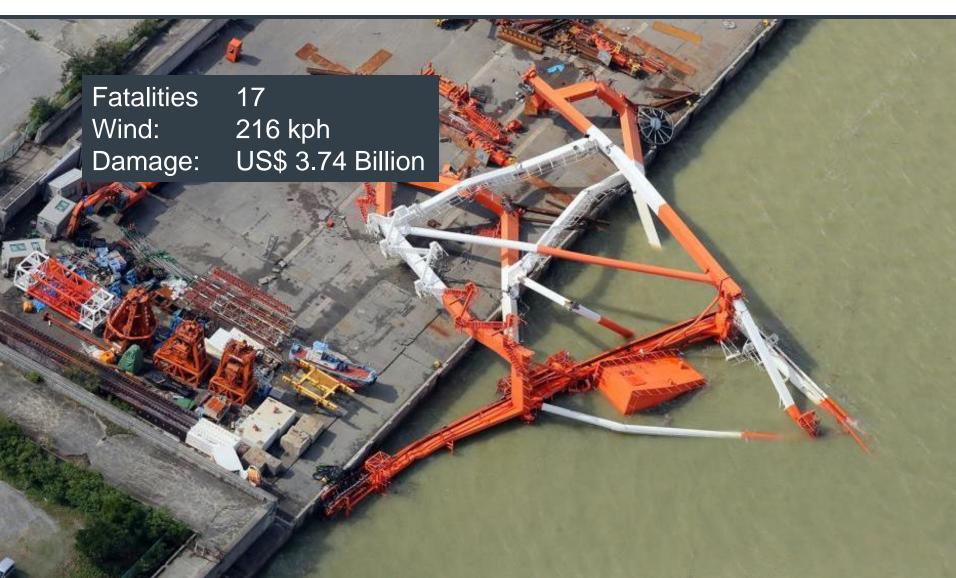


Typhoon Mangkhut South China 2018





Typhoon Jebi **Japan 2018**





Monsoon floods Australia - 2019





Storm surge



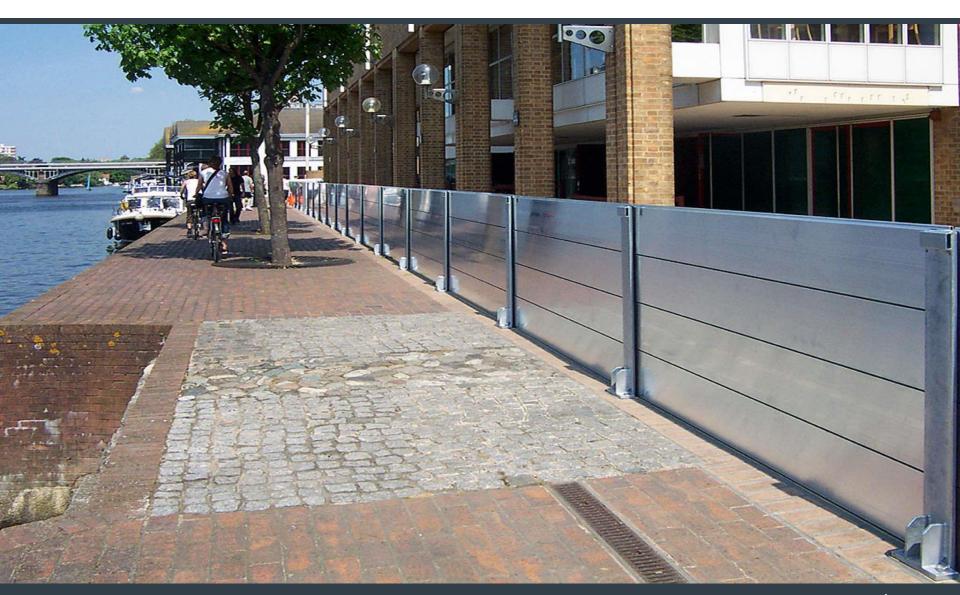


Water filled surge barrier





Demountable flood barrier





Demountable flood barrier





Rain / flood / storm surge

Prevention:

- Identify flood protection systems:
 - Sandbagging, Jersey Barriers, Fabric Fold-Back Walls, Liner Walls, or Temporary Levees, Inflatable (air- or water-filled) barriers or Dams, Flood-Proof, Retractable Gates
- Move property to higher ground
- Store items undercover
- Adequate drainage & drains unblocked



Windstorm damage to property

Property damage prevention:

- Secure everything when storm forecast
- Roller doors adequately designed and supported
- Roofs secured adequately
- Windows shuttered or covered
- Unsecured rubbish removed

Refer to TT Club Windstorm II booklet

Available at www.ttclub.com



Beware mixing cargo types







Prevention:

- Segregation of different cargo types
- Systems to ensure no mixing of different cargo types
 - manual double checks
 - Automation
- Pipe and system cleaning.











Most due to electrical faults

Prevention:

- Site security
- Fire risk assessments
- Declare dangerous goods
- Install fire detection and suppression
- Test and inspect fire equipment
- Thermographic surveys
- No smoking policy
- Good housekeeping.



Oil tank explosion caused by lightning





- Special focus on detecting & preventing oil spills, gas leaks and fires
- More stringent regulatory requirements

Loss prevention focus:

- Lightning arrestors
- Fire detection and suppressions systems everywhere
- Gas leakage detection systems
- Emergency response procedures & gear for fires, oil spills, gas leaks.



Forklift fire





Mobile equipment fires

Most caused by hydraulic leaks or electrical faults

Prevention:

- Good design no hydraulic hoses near exhaust or turbo
- Good maintenance
- Good quality hydraulic parts
- Replacement & procurement strategies equipment age?
- Losses reduced with fire suppression in engine compartment
- Low cost & effective ~US\$1,000 to US\$10,000
- Can save an expensive FEL



Poor housekeeping





Unsafe work practices





Dangerous practices





Dangerous practices





Dangerous practices





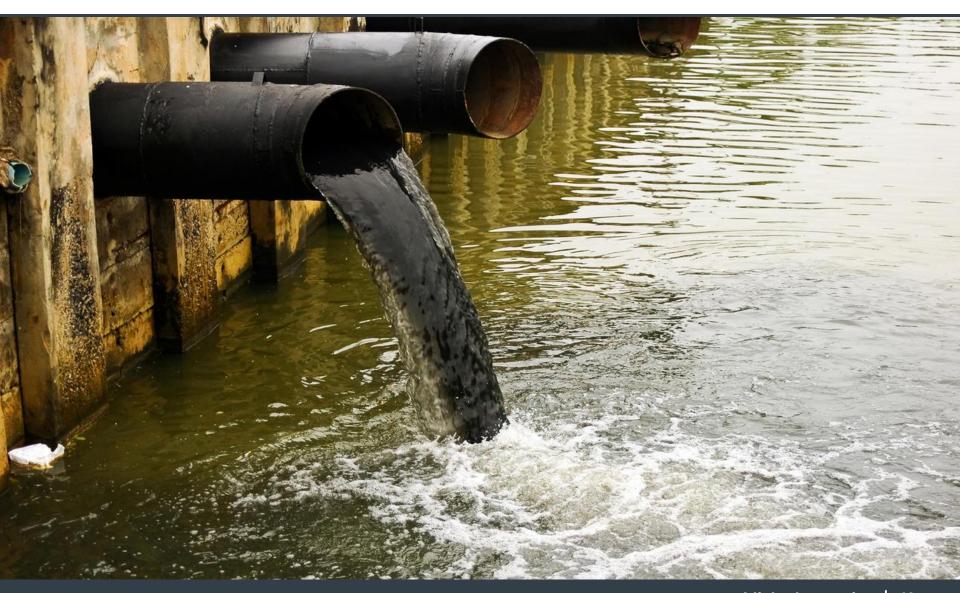
Single person incidents

Prevention:

- Safety awareness
- Tool box talks
- Safety audits with workers
- Good housekeeping.



Water pollution



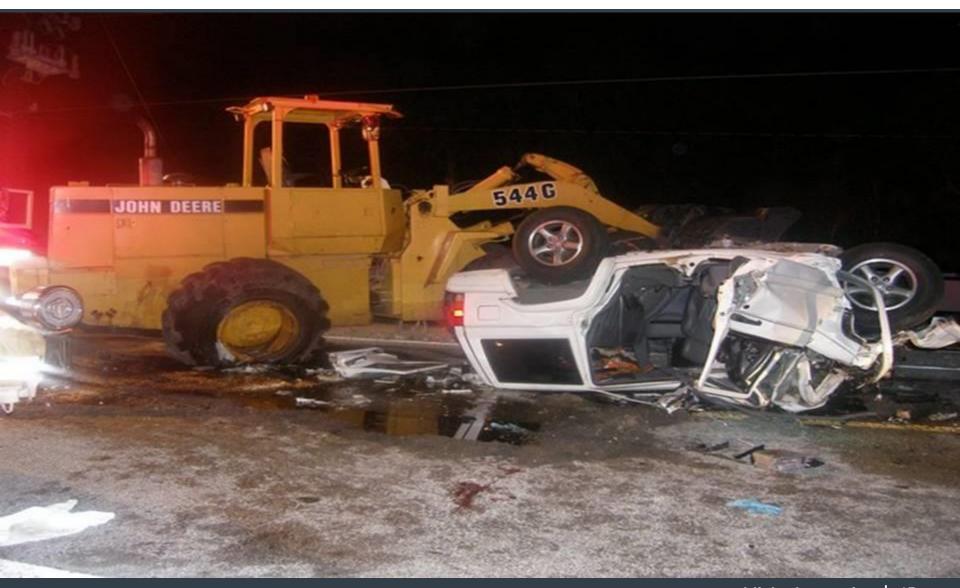


Tank collapse – corrosion





Mobile equipment collision





Light pole collision





FEL/Lift truck/truck/vehicle accidents

Prevention:

Traffic management procedures:

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

Technologies:

- Proximity system on all pedestrians and mobile equipment
- Mobile equipment anti-collision sensors
- Rear view cameras on lift trucks & front end loaders.





Loss prevention focus:

- Ships hitting wharf bank guarantee
- Rain & flood
- Fire
- Contamination
- Equipment breakdown
- Single person incidents
- Pollution control
- Windstorms
- Structural integrity inspections
- Bulk weight errors
- Traffic management.



Thank you Any questions?

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