

# **TT CLUB**

## **Reducing Accidents and Insurance Claims**

### **For Ports & Terminals 2014**

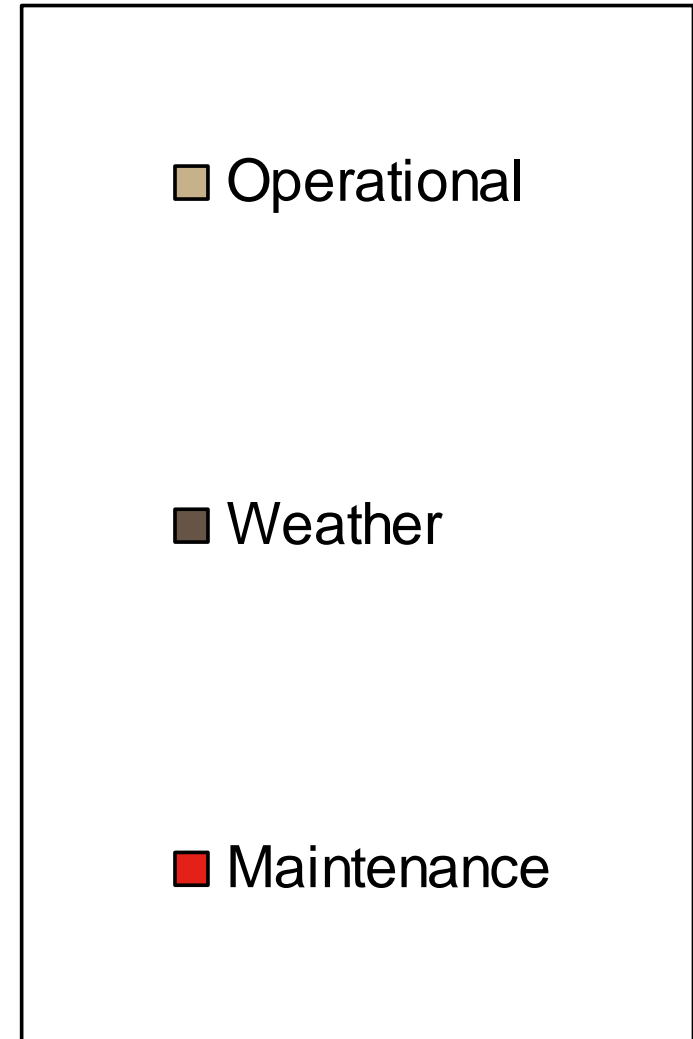
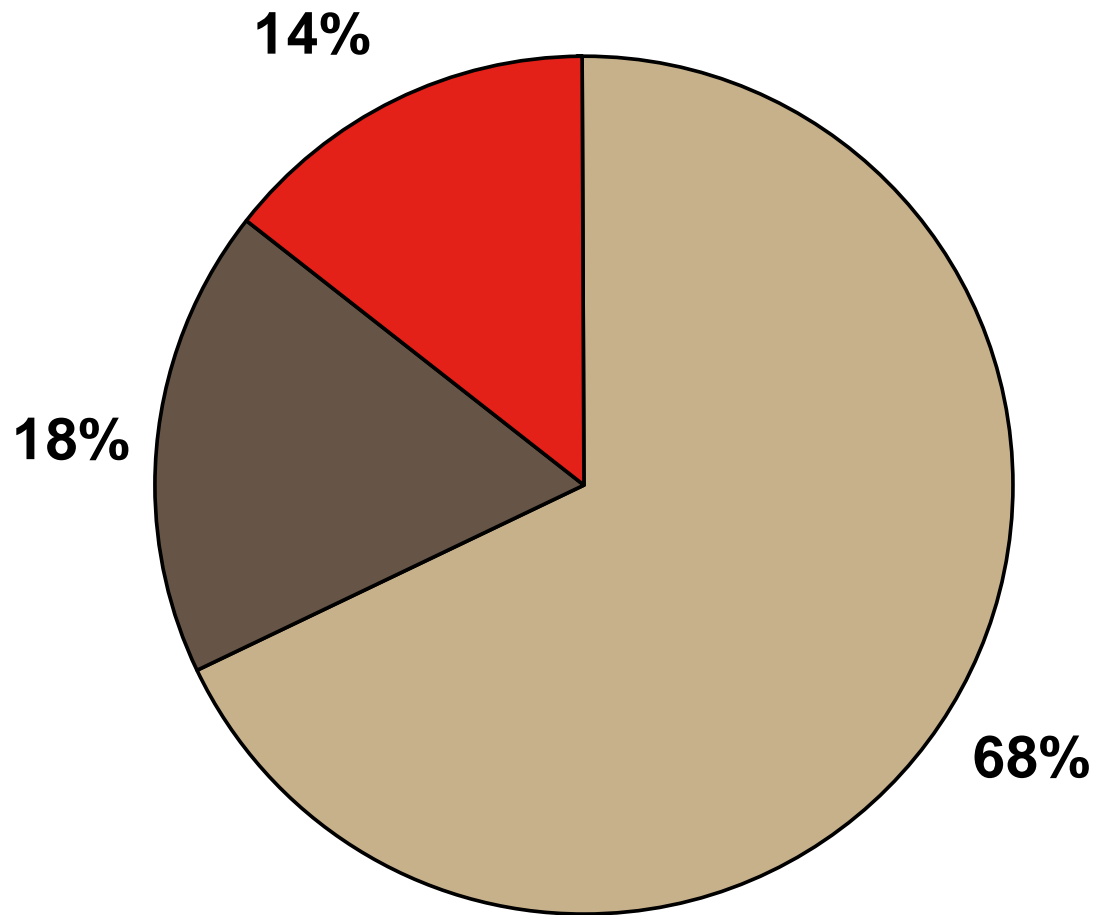


TT CLUB  
IS MANAGED  
BY **THOMAS  
MILLER**

**Phillip Emmanuel**  
**Regional Director – Asia Pacific – TT Club**

- **Analysis of the main causes of claims**
  - Includes 7 years data
  - Analysis of all TT Club claims – over 9,500
  - Over US\$400m in claims
  - Includes all types of claims
    - Bodily injury
    - Liability
    - Property

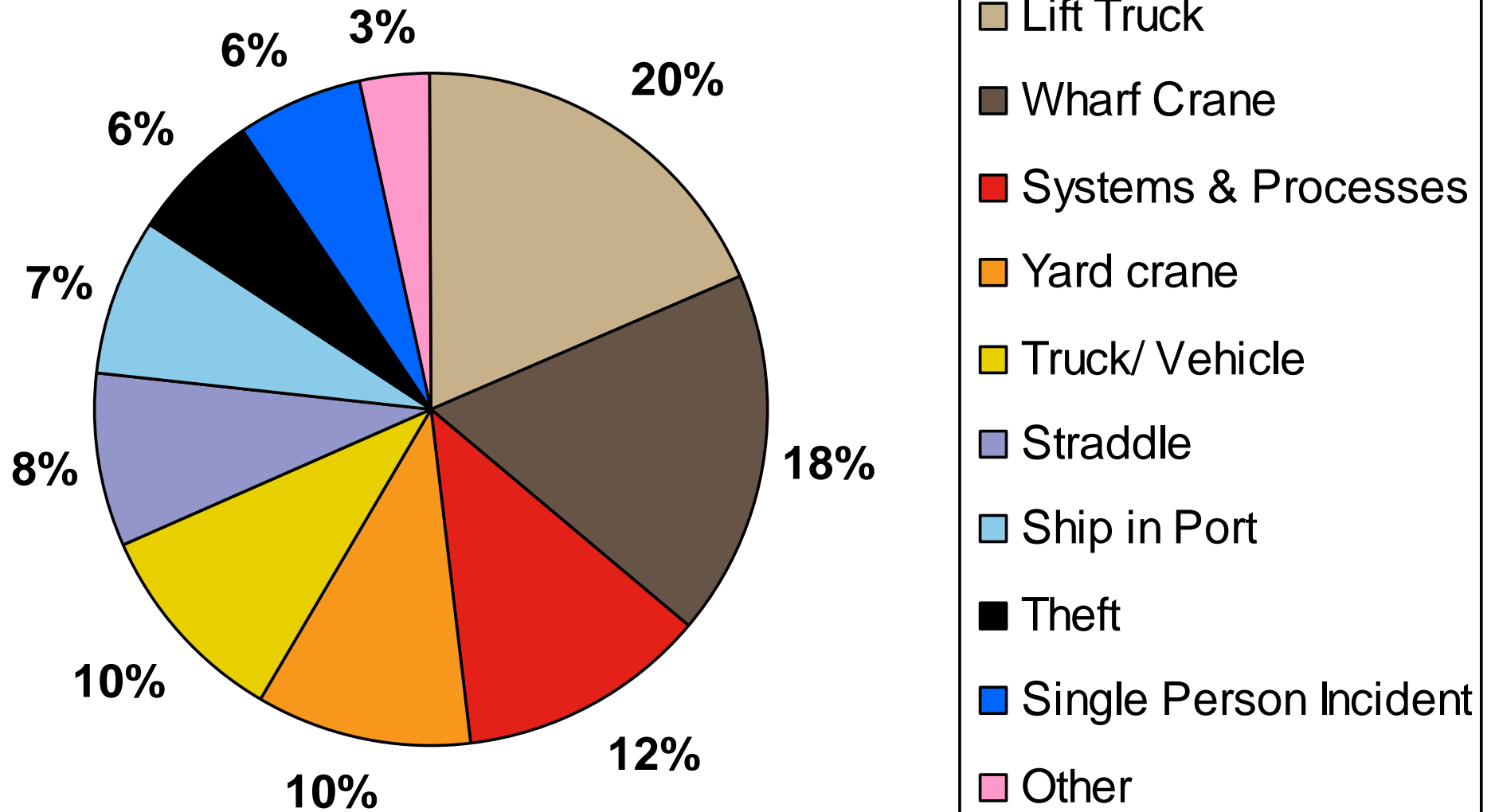


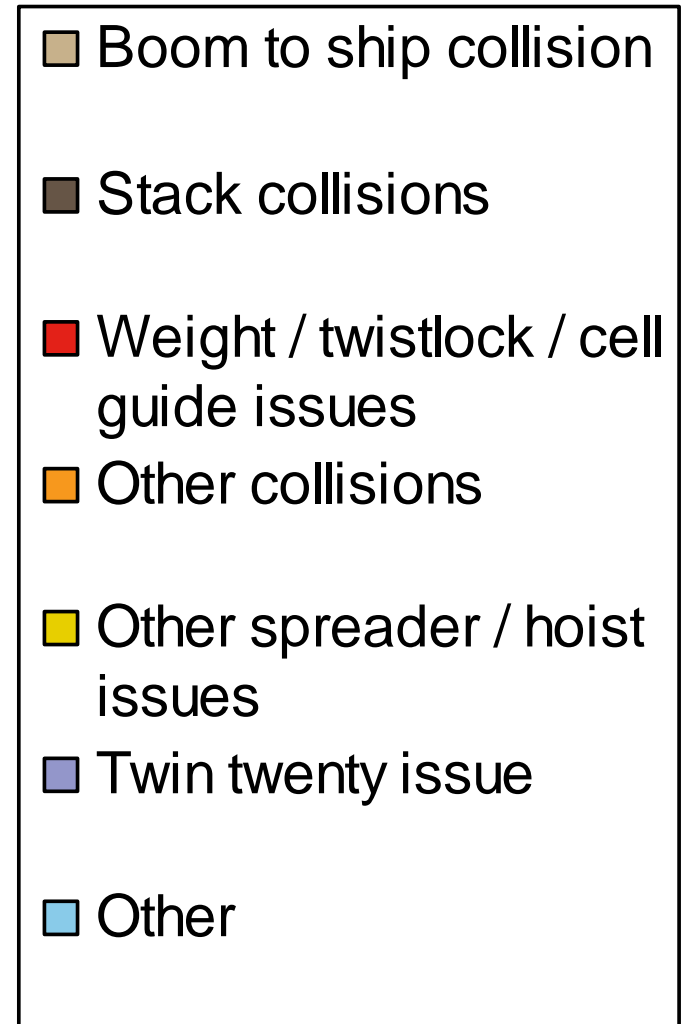
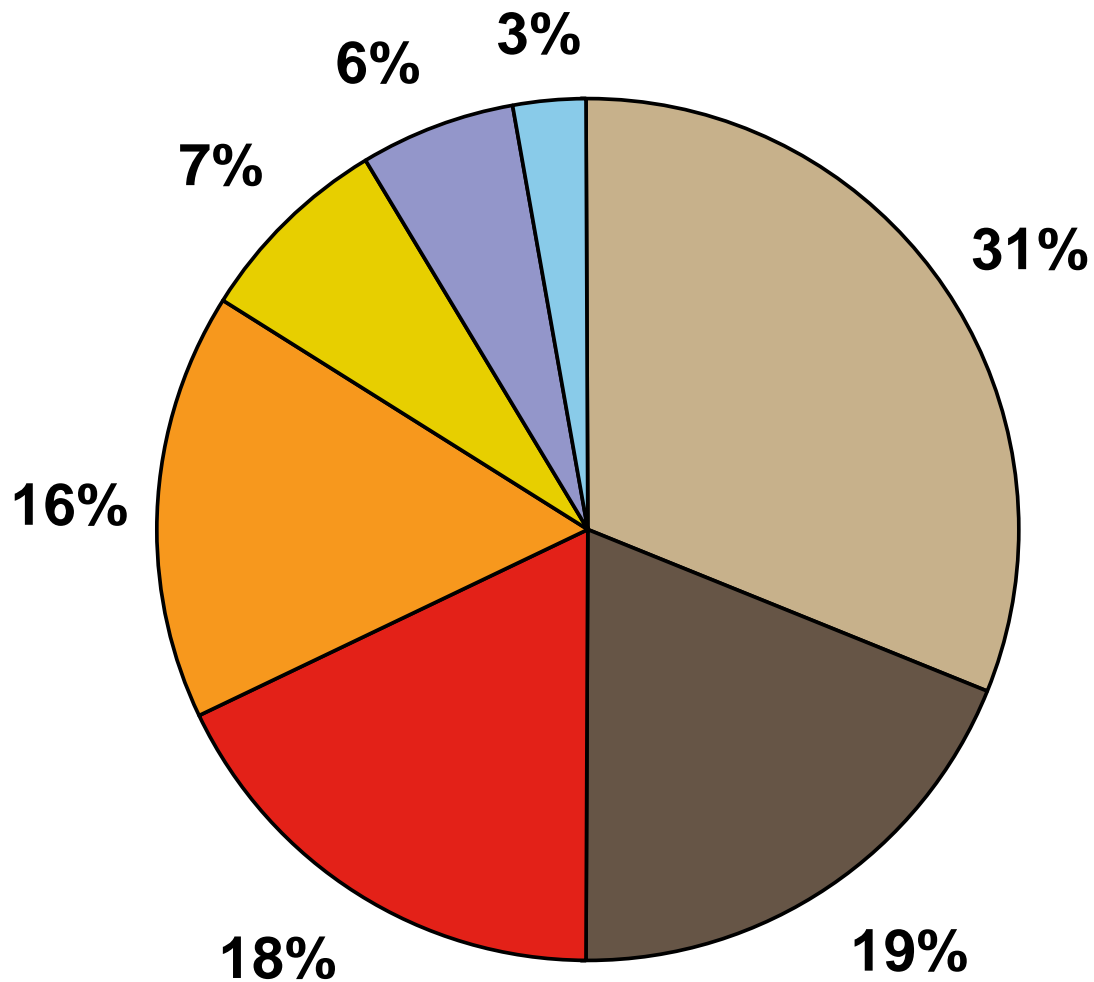


- **Claims Analysis & Loss Prevention Actions:**
  - **Operational Issues**
  - Maintenance Issues
  - Weather Issues







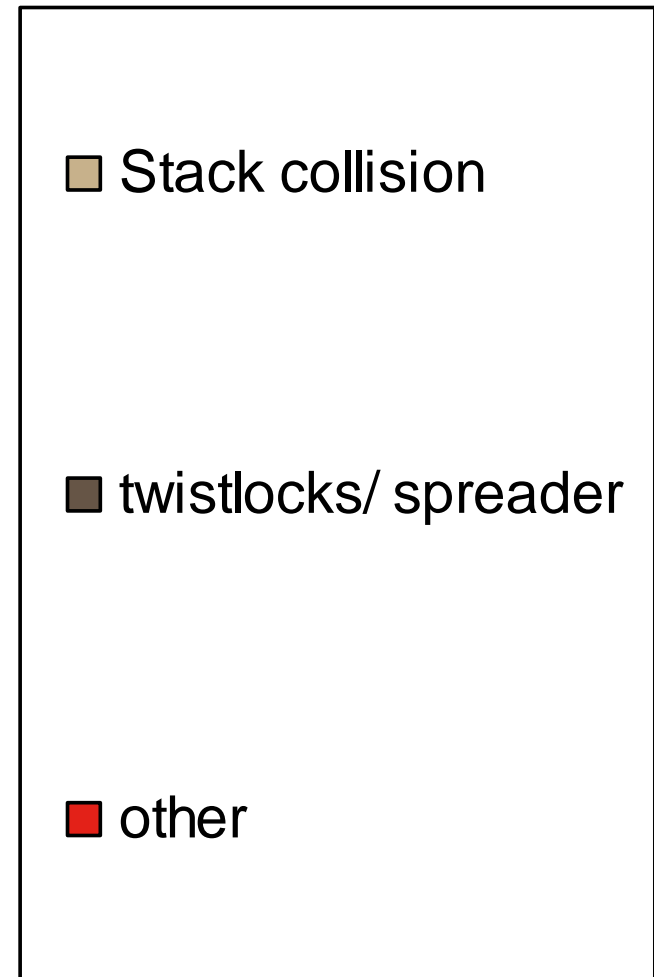
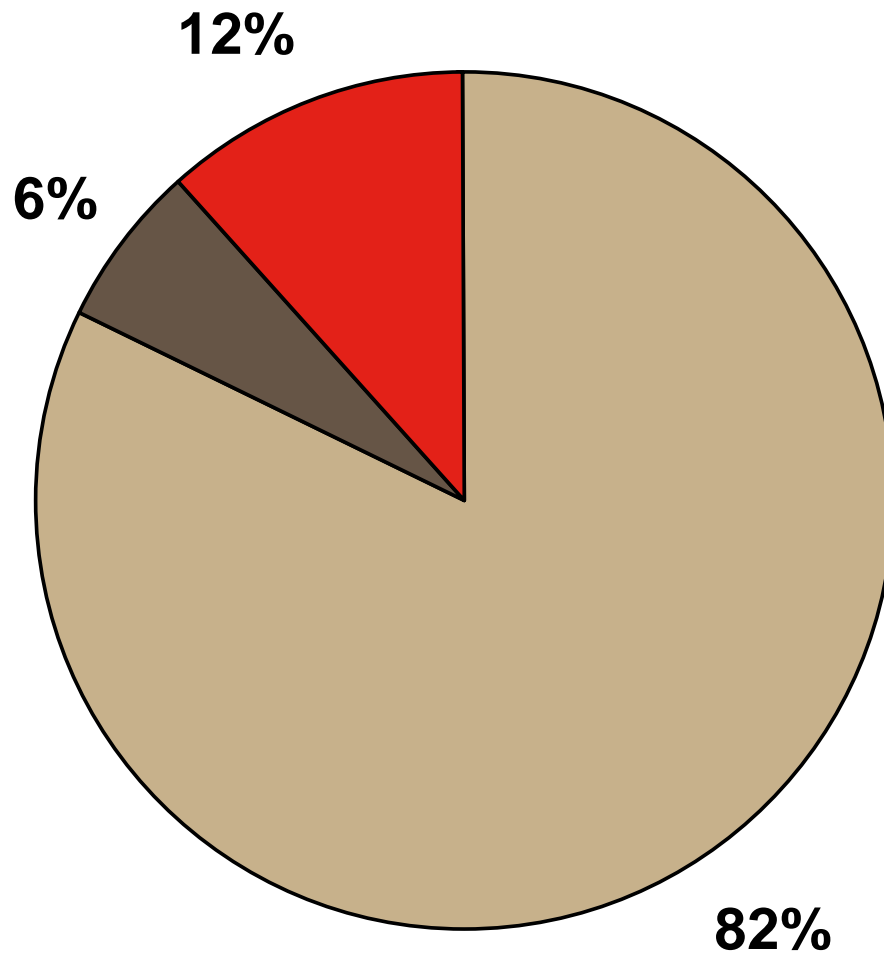






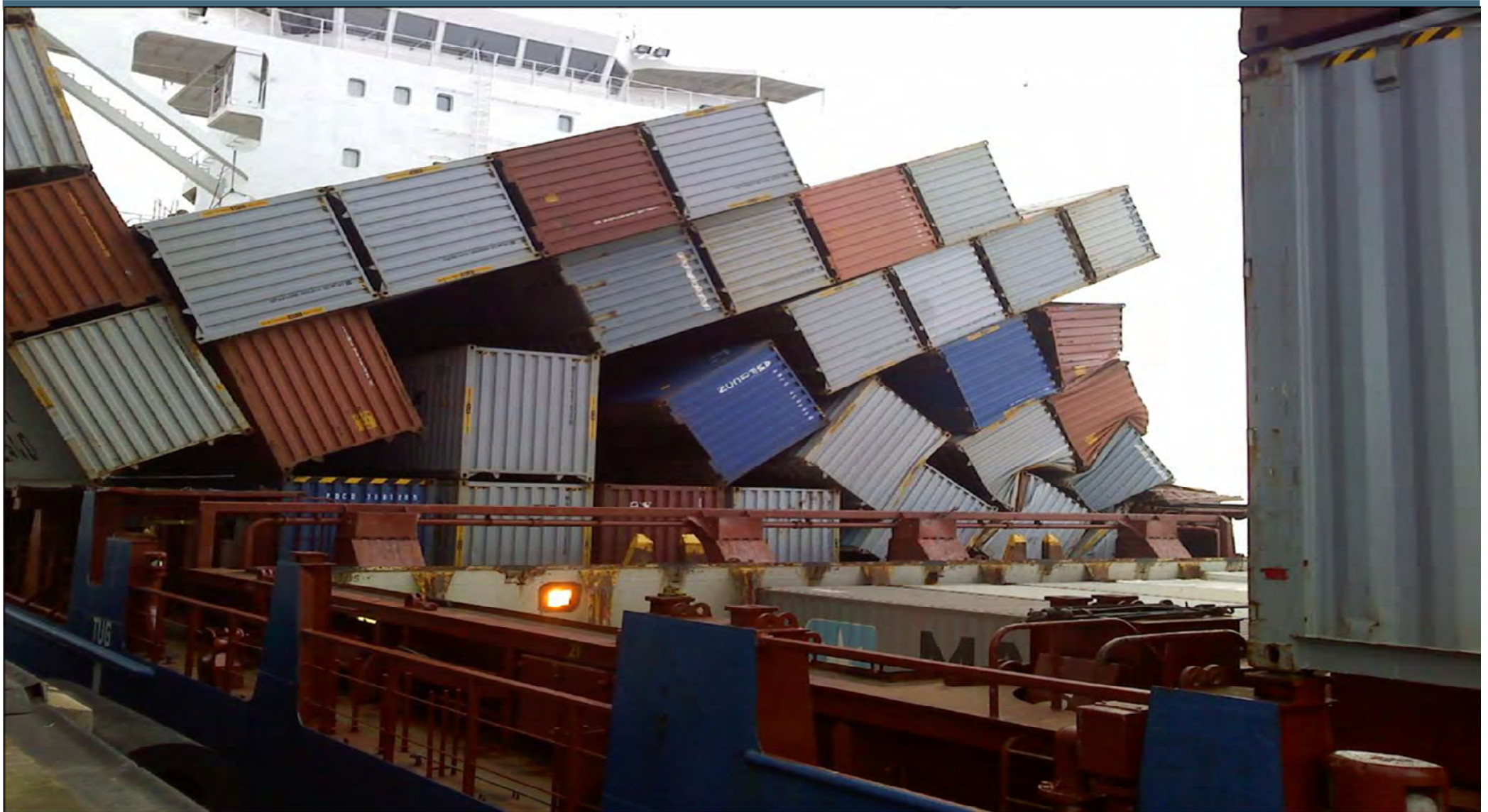
- **31% (\$15m) of quay crane damage claims**
- **236 claims in last 7 years**
  
- **Preventable with quay crane boom anti-collision sensors**





## Stack Collision and Collapse in the Yard





- **19% (\$10m) of quay crane claims**
- **82% (\$23m) of yard crane claims**
- **339 claims in last 7 years**
  
- **Preventable with a stack profiling system**

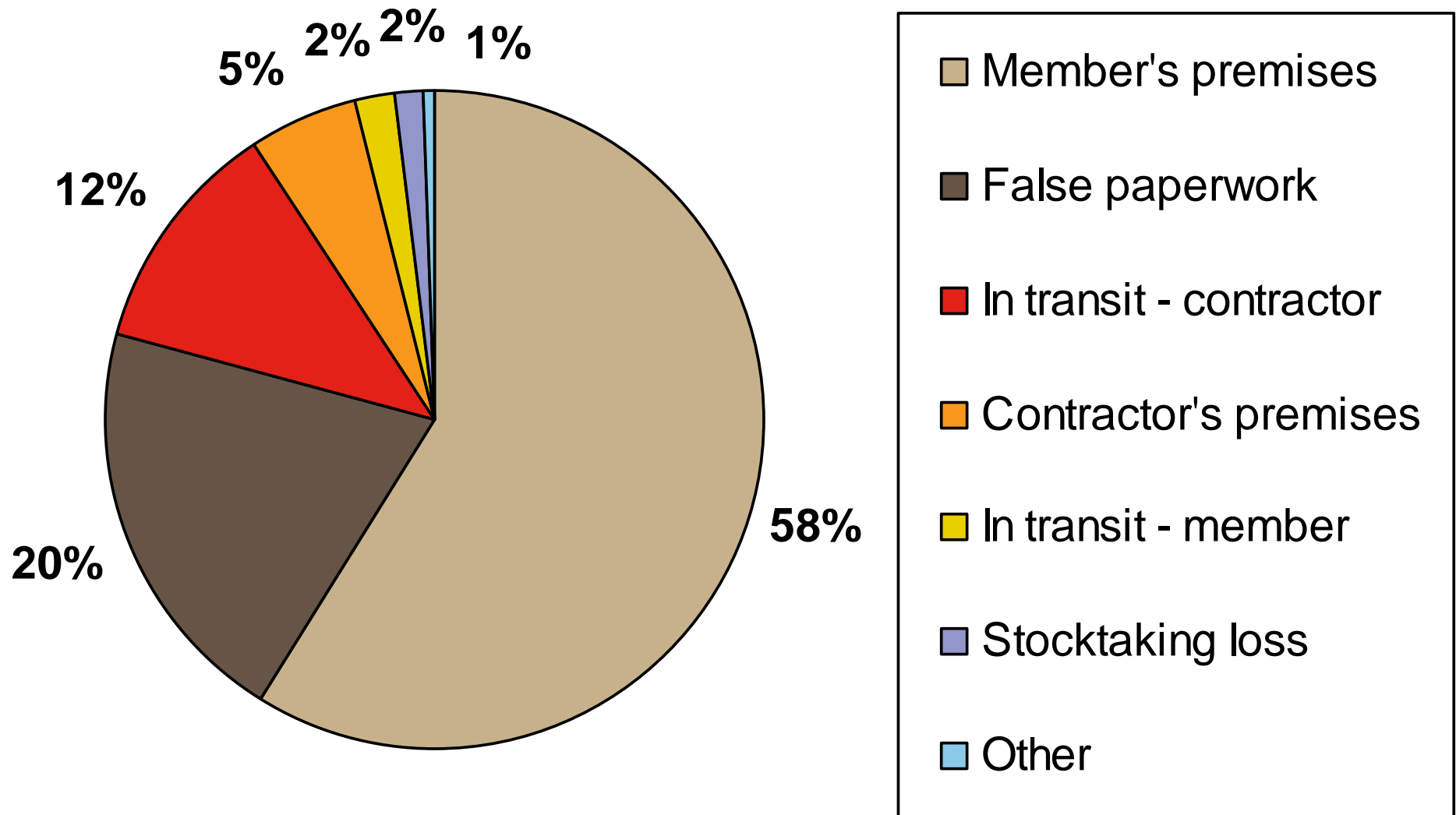






## **Spreader, twistlock, container weight & eccentricity issues**

- **18% of quay crane claim costs**
- **6% of yard crane claims costs**
  
- **Many preventable with twistlock load sensing technology**
- **Measures weight & eccentricity of each container**
- **Also detects & prevents many safety issues identified in previous slides**
- **Can be installed on any twistlock, on any spreader & on any equipment**



## 58% of theft costs occur from own premises

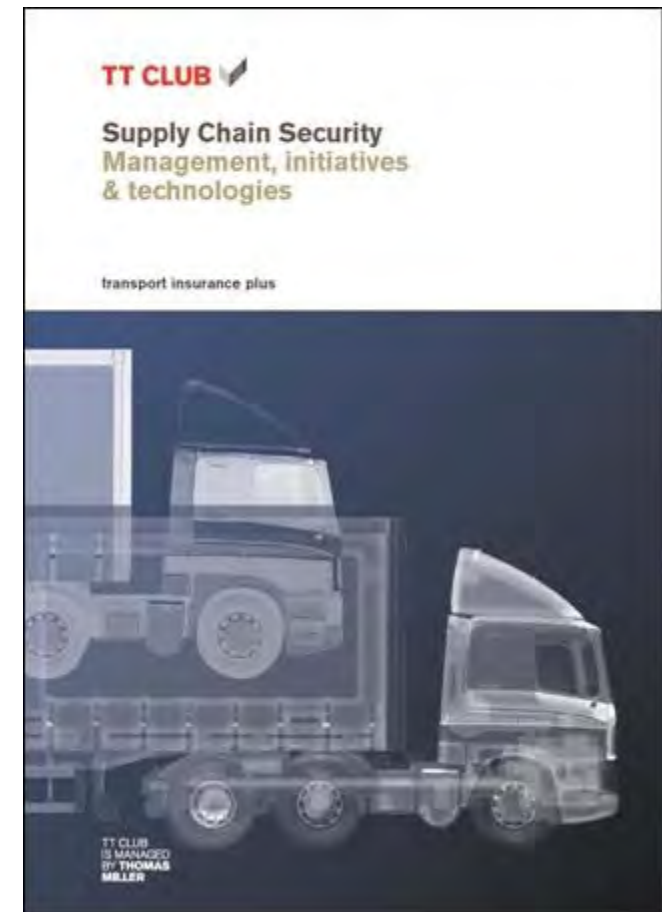
### Prevention:

- a physically secure site – good fences
- security guards
- CCTV monitoring
- automated gate control system
- checks and double checks on paperwork

**Most thefts are inside jobs**

**Refer to TT Club Supply Chain Security booklet**

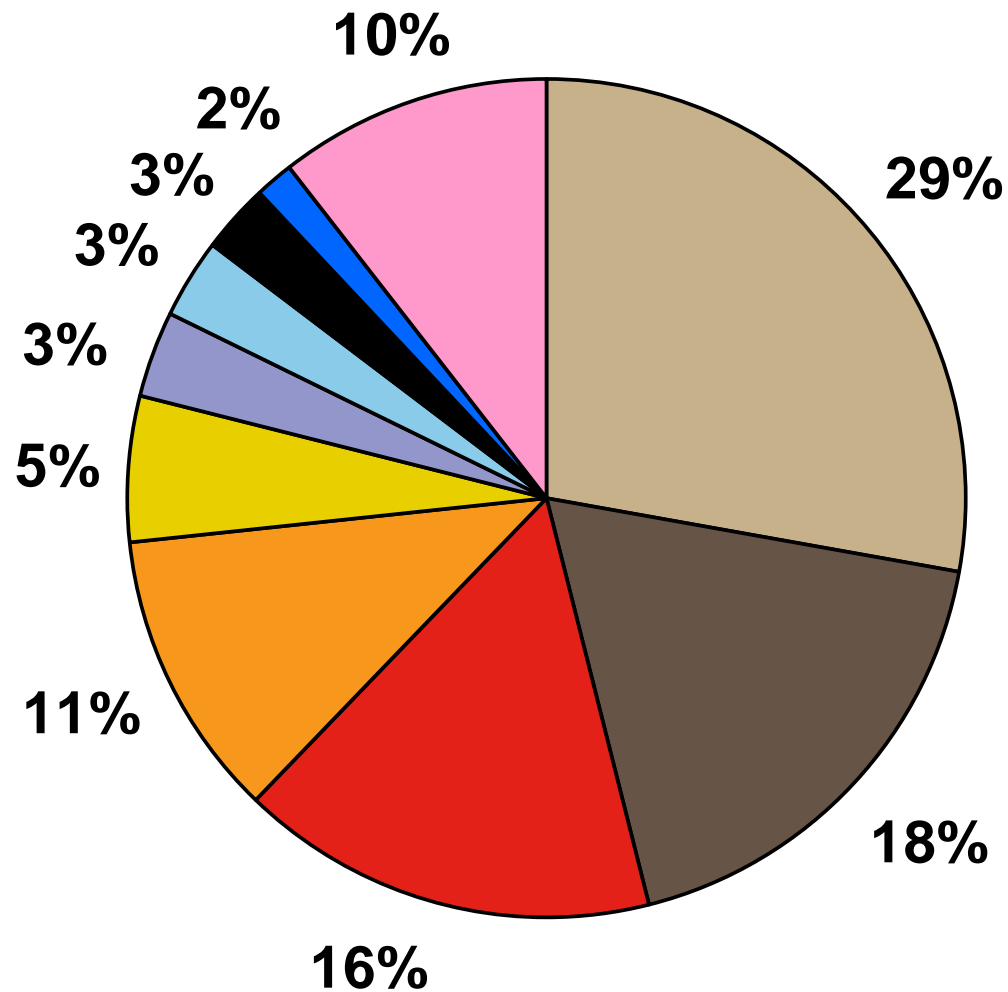
- available at [www.ttclub.com](http://www.ttclub.com)

















**29% of systems & process costs**

**Many alleged damages – can't be disproved**

**Prevention:**

- Use low loader when needed
- Store steel coils undercover
- Take photos of arrival condition
- Use cameras on in/out gates
- Ensure slings in good condition.



**18% of systems & process costs**

**Prevention:**

- **Do not forget to plug in**
- **Set correct temperature**
- **Double check data**
- **Monitor – remote reefer monitoring**
- **Maintain an audit trail**
- **Verify condition of reefer unit prior to loading.**







**16% of systems & process costs**

### Prevention:

- Declare correct weight
- Stuff container evenly & securely
- Do not eccentrically load containers
- Declare dangerous cargo
- Protect against wet weather
- Train and monitor staff
- Refer to the ILO best practice guidelines.





## **IMDG Code 35-10 (1<sup>st</sup> January 2012)**

## **IMDG Code 36-12 (1<sup>st</sup> January 2014)**

- **Mandatory training for shore side staff involved in the preparation, handling and transport of dangerous goods by sea**
- **Employers must keep training records**
- **E-learning system developed by Exis Technologies satisfies this training**
- **TT members get 15% discount on Exis training package**



**11% of systems & process costs**

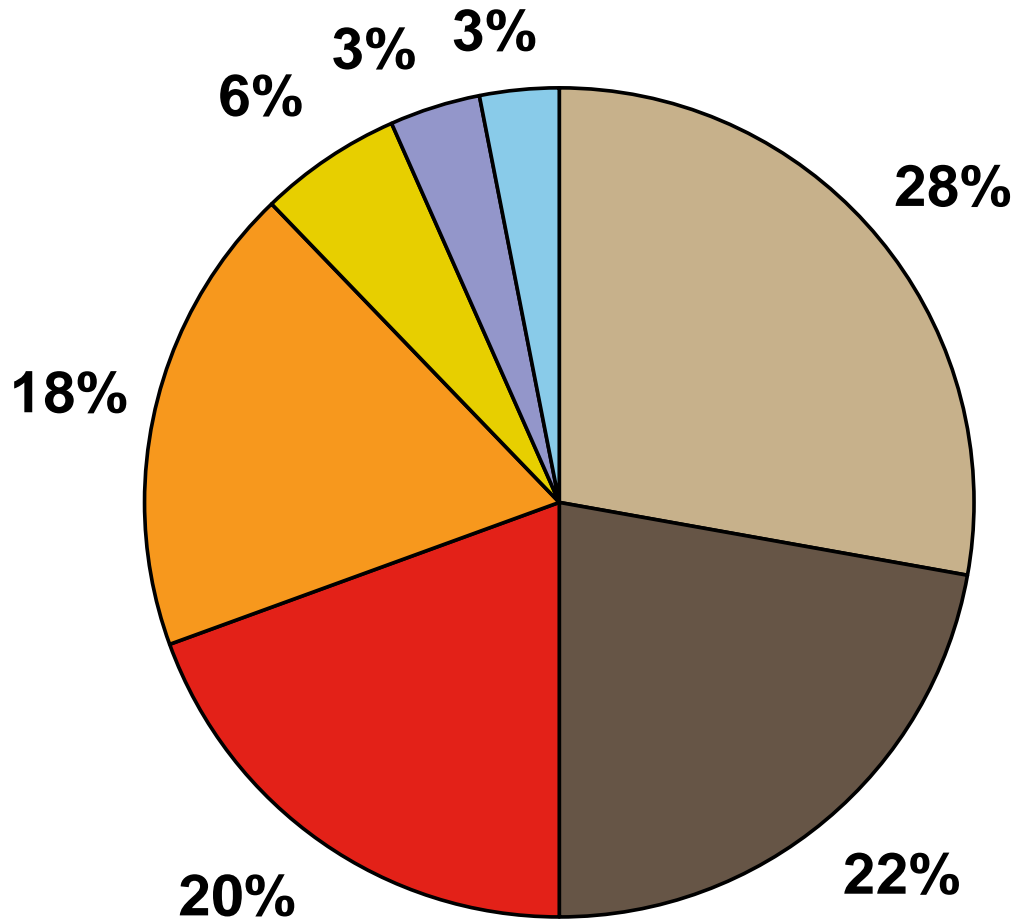
**Issues:**





- Misdeclaration of cargo
- Ensuring T1 documents are closed
- Lack of or late paperwork
- Clerical errors in paperwork
- Drug or illegal immigrant discovery

**Results:**

- Costly delays
- Costly fines.





-  Lift Truck
-  Yard crane
-  Single Person Incident
-  Truck/ Vehicle
-  Wharf Crane
-  Straddle
-  Other







- **80% of injury and fatality 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
- **Technologies:**
  - RFID system on all pedestrians and mobile equipment
  - Mobile equipment anti-collision sensors
  - Rear view cameras



- **20% of injury and fatality costs caused by single person accidents**
- **You must have procedures that promote:**
  - Safety awareness
  - Tool box talks
  - Safety lock out systems
  - Good housekeeping



- **Training:**
  - Continuous safety awareness
- **Procedures:**
  - Security - theft
  - Systems & processes
  - Traffic management
- **Re-design/ Technology:**
  - Wharf crane boom anti-collision sensors
  - Wharf & yard crane stack profiling
  - Mobile equipment travel anti-collision sensors
  - Container weight & eccentricity measurement.

# Thank You

**Phillip Emmanuel**

**Regional Director – Asia Pacific – TT Club**

[phillip.emmanuel@thomasmiller.com](mailto:phillip.emmanuel@thomasmiller.com)

[www.ttclub.com](http://www.ttclub.com)



**Specialist insurance products and services  
packaged for the international transport and logistics industry**