





























## Is my yard inventory perfect?



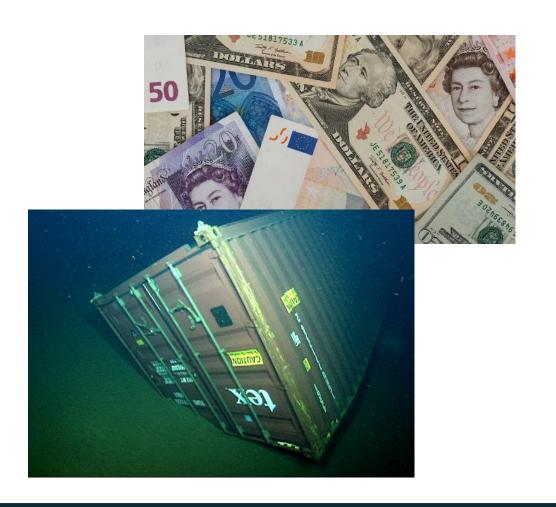
Copyright: The Simpsons / The Walt Disney Company





## "Misplaced" boxes cost operators BILLIONS

- Labor
- Administrative
- Insurance
- Operations: wear/tear on CHE, fuel costs, etc.
- Inefficiency: Knock on effect of planning issues
- Impact on customers, consumers, reputations and relationships







Copyright: Marvel / The Walt Disney Company

## Searching...

#### ...But there's chaos





# What is the common denominator in every box lift?



Copyright: The Simpsons / The Walt Disney Company





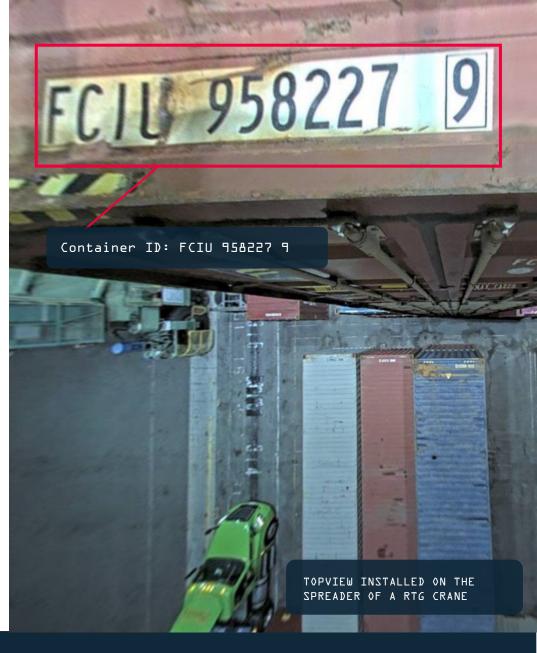




#### **Visy TopView – Smart Spreader**

#### **Al Camera System**

- Spreader becomes Smart Device
- All Equipment
  - RMG / RTG / ASC
  - Lift trucks
  - Strads
  - STS / MHC
- All spreader types
  - Single
  - Twin
  - Tandem
  - Quad







## **Deep Learning / Al Vision Technology**

- ✓ Visy in-house software
- High recognition rate of 99%
- Visy DNN correctly recognizes bad container IDs faster and more accurately than humans
- 90% is easy − 99% is difficult
- What impact does 9 percentage points have?















#### Al is faster and more accurate than us



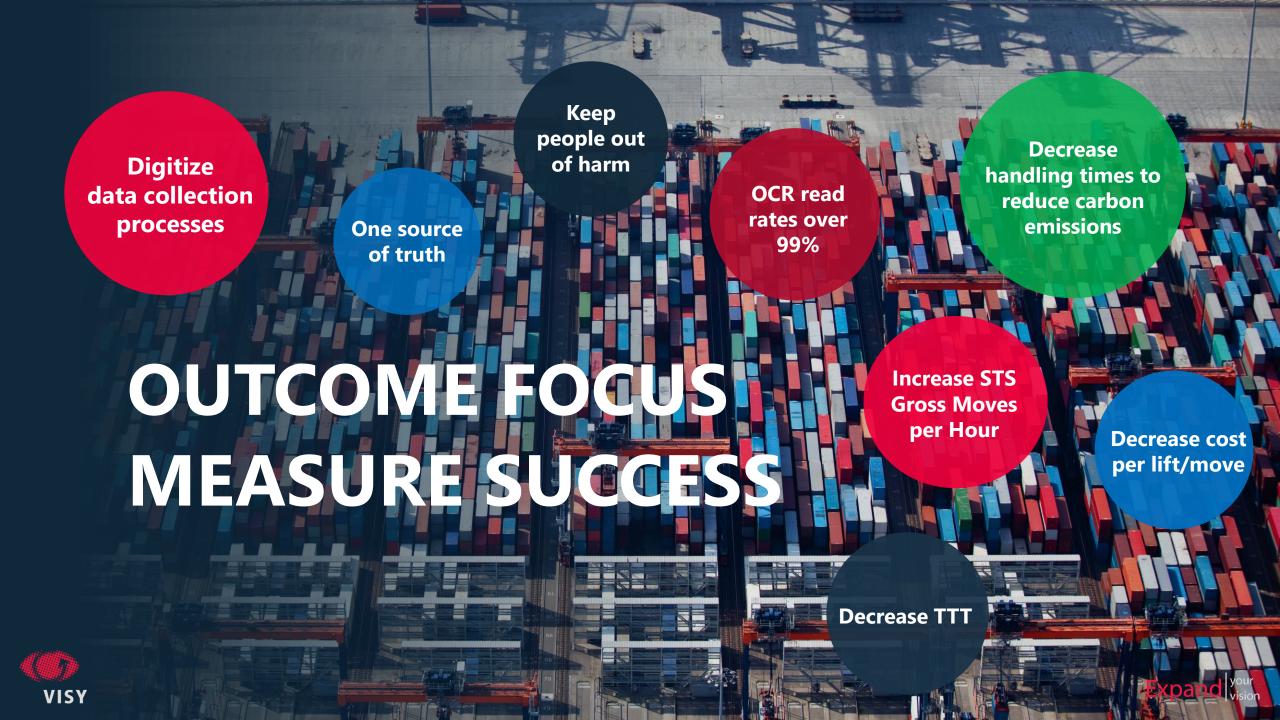
Dalmatian or Ice Cream?



Owl or Apple?











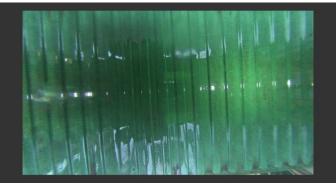














- Before a spreader locks in the container, the system captures the images
- ✓ Event info is verified for workorder Box ID / location / lifting task / TT
- ✓ Visy Automatic Damage Detection System detects damages on container roofs





#### Visy TopView Reach Stacker





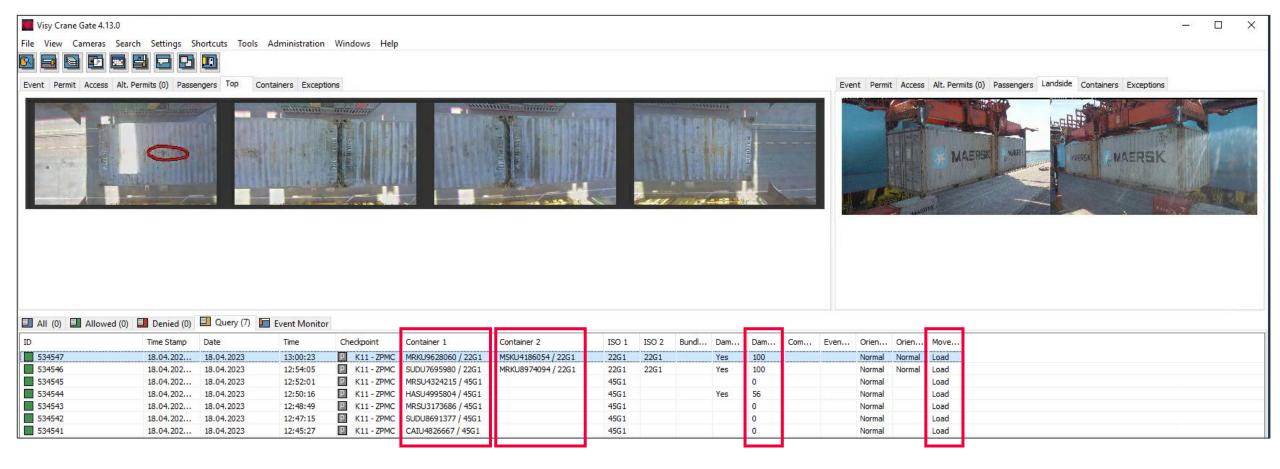


#### Al overcomes:

- Busy images
- Steep angles
- Multiple containers
- Damaged codes







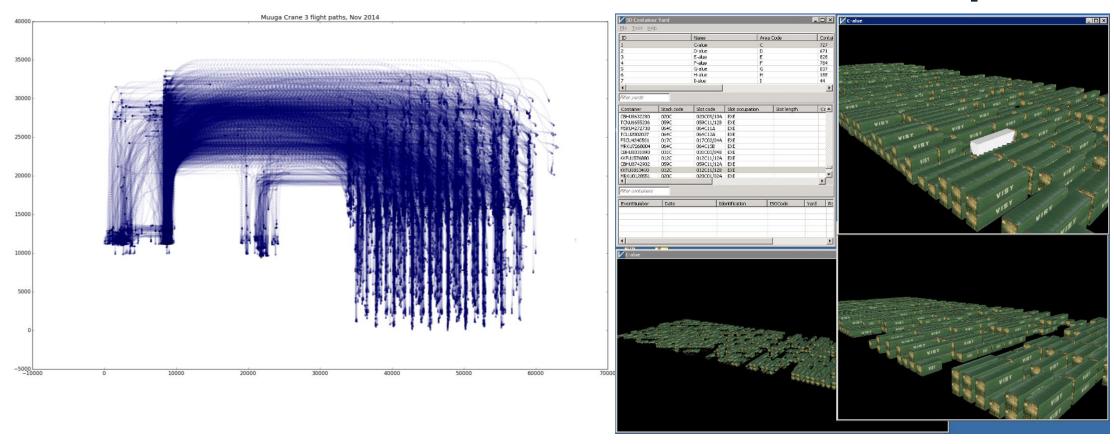
- Lifting events in Visy Platform data exchange with PDS or TOS
  - Verify every move & Exception handling tool
  - Command center images for multiple purposes
  - Digitized ID, ISO code, damage score, move type





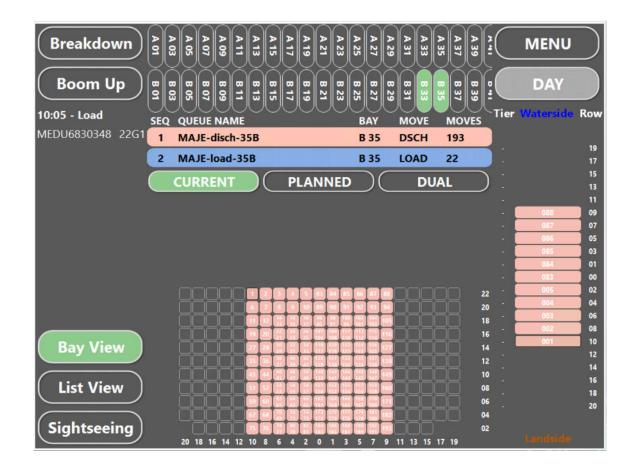
#### Innovating the smart spreader since 2014...

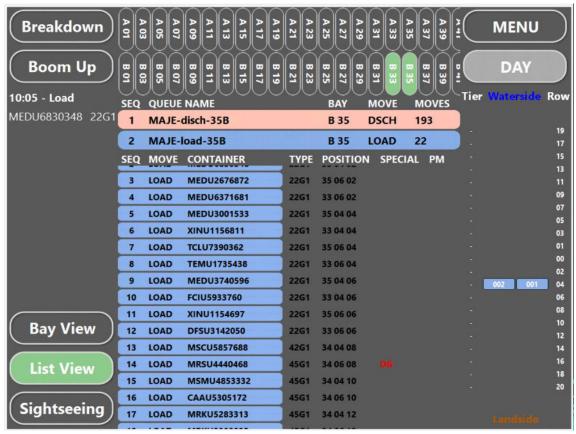
#### ...now 100's in production





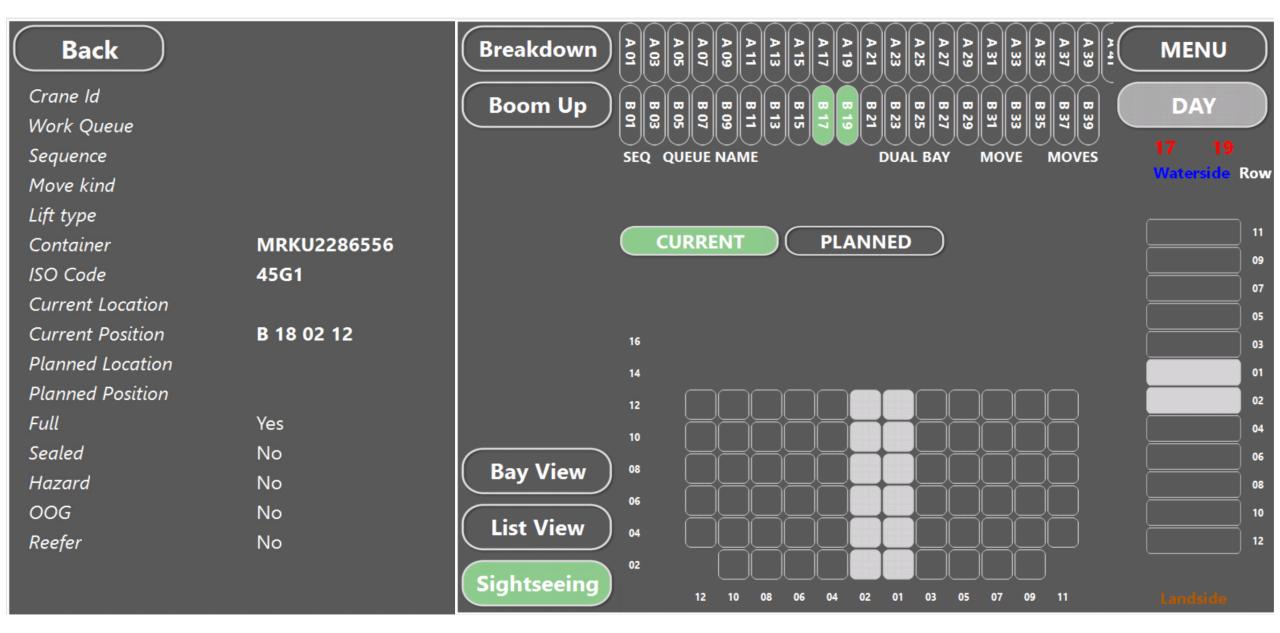
















## **Closing thoughts**

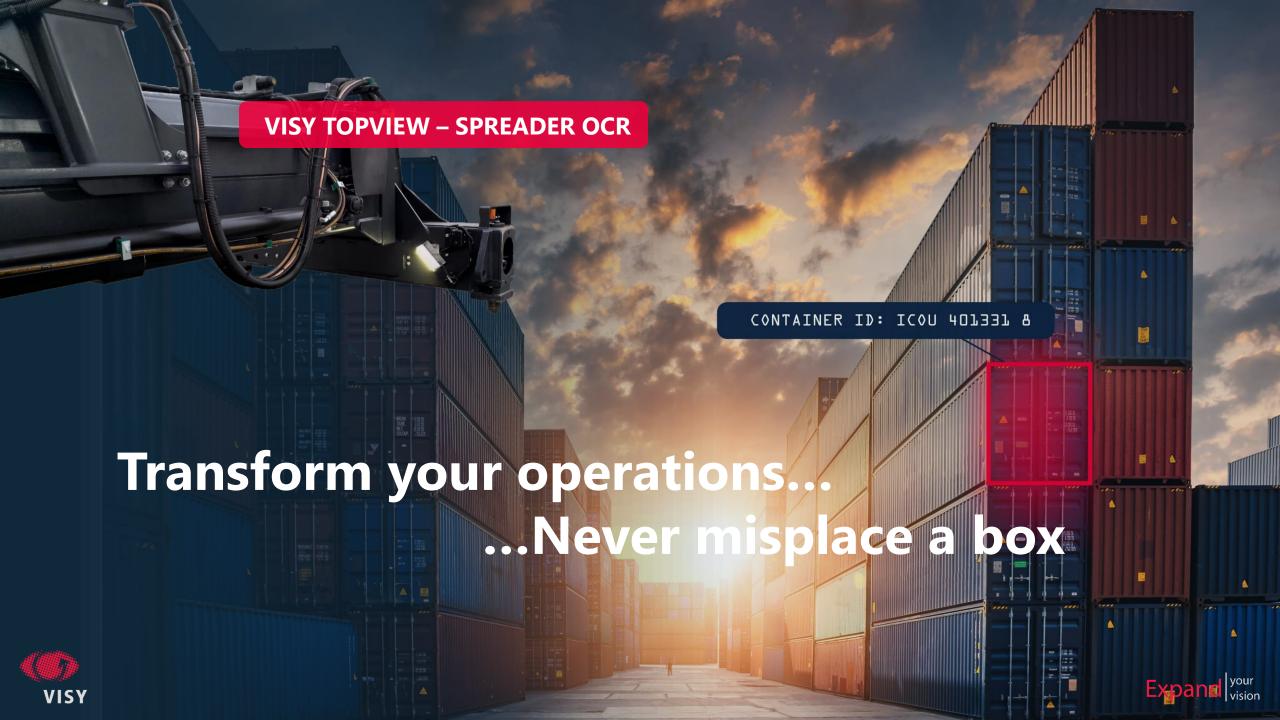
- Demand more from Vision Tech.
  - ≥99% Box ID
  - Al: See, Digitize, Share
- Single Platform One truth
  - Seamless integration to PDS or TOS
- How do you measure success?
  - Outcome focus KPIs













VISY 30-YEAR ANNIVERSARY 2024



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