

# VISY

## Automatic Container Damage Detection 2.0

Turning every Glance into Insight, and every Insight into Action


New AI model

New Damage Classes

New Approach



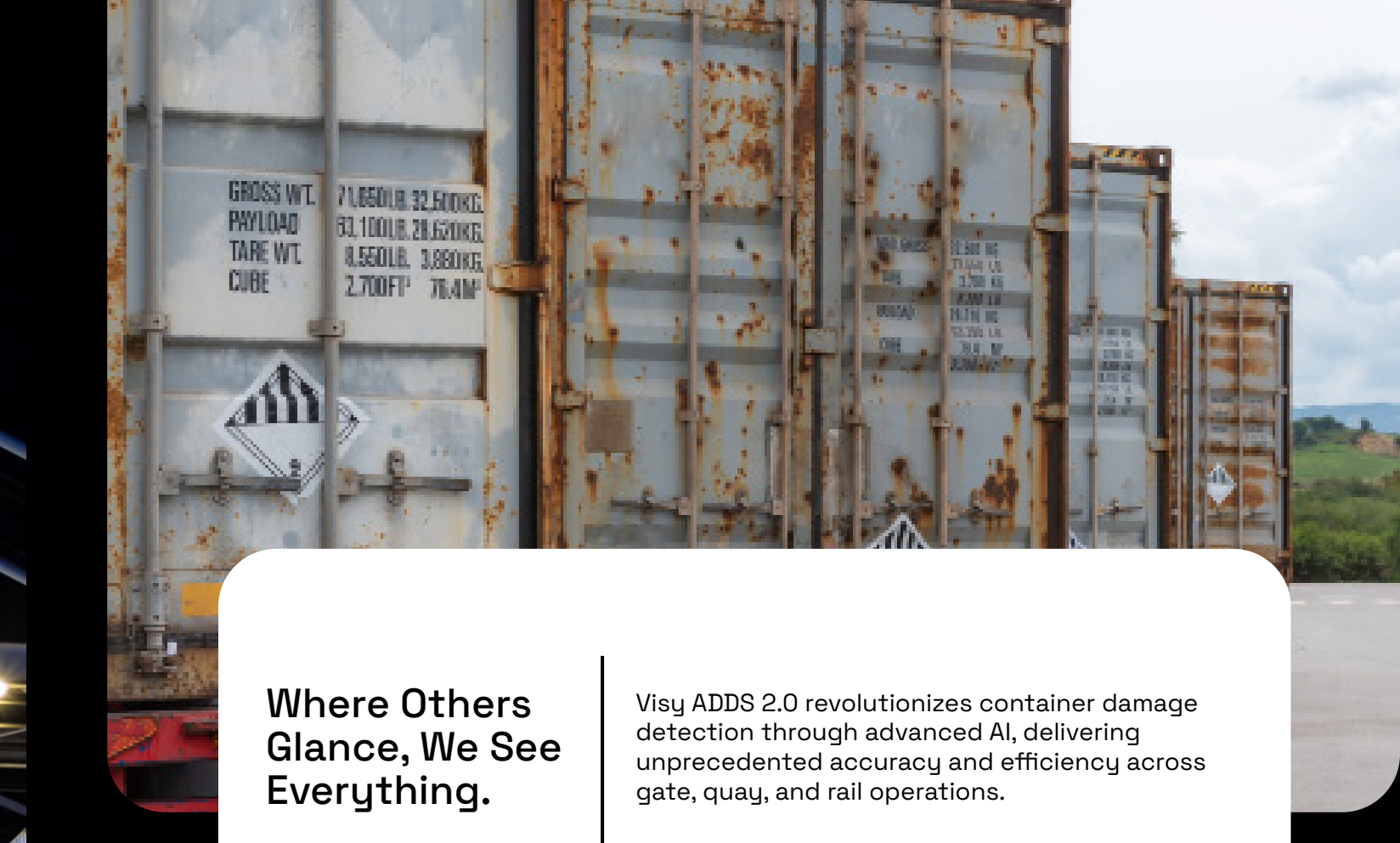
TIMESTAMP:	2025-11-13 14:24:07
CONTAINER ID:	VISI 1234567 8
DAMAGE CLASS:	Dent
LOCATION:	Left side
SCORE:	100
TOTAL DAMAGE SCORE:	100/100
STATUS:	ADDS Alarm



Imagine a terminal with no missed ID.  
Every box condition recorded.  
Everything digitized and shared.  
Pure, continuous precision – 24/7.

ADD S

Expand   
Your vision



## Where Others Glance, We See Everything.

Visy ADDS 2.0 revolutionizes container damage detection through advanced AI, delivering unprecedented accuracy and efficiency across gate, quay, and rail operations.

### Insight → Action

- Automatic Container Damage Detection**  
ADDS inspects the container within seconds. If a damage over the threshold is detected, the system sends an alert to the operator.
- Damage Sensitivity Thresholds**  
ADDS is configured per customer requirements, different sensitivity scoring for different damage classes - you say, we set.
- Validation**  
With the help of images and given damage location, the clerk can decide whether to send the container for exception handling, e.g. repair station or deny access.



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# ADDS 2.0

## Automatic Container Damage Detection

ADDS 2.0 is truly integrated into customer operations, enabling condition monitoring at high-volume inspection points without disrupting container flow. It doesn't just detect damage – it augments and supports human decision-making in condition inspection and enables you to implement streamlined condition checks to catch boxes that don't meet transportation standards. Thus, ADDS 2.0 empowers your team to focus on complex decisions while automatically handling routine inspections, ensuring continuous precision 24/7.

Unlike static inspection systems, ADDS 2.0 features a Deep Neural Network (DNN) architecture custom-built to match each customer's operational needs. Visy's AI experts collaborate directly with clients to fine-tune performance – choosing the damage class palette, adjusting sensitivity, and implementing terminal-specific detection rules. These updates are seamlessly developed and deployed, ensuring a long-term solution.

### The Way of Thinking

Visy ADDS' AI augments and supports human decision-making in condition inspection rather than replaces it. ADDS empowers your team to focus on complex decisions while automatically handling routine inspections that make most of the traffic.



## What's New in ADDS 2.0

### New AI model

Our enhanced AI-engine delivers unmatched accuracy, setting the benchmark for reliability and precision in image-based container damage detection.

### Refined Sensitivity Controls

Customizable scoring per container side and damage type allow you to focus on what matters most to your operation.

### Site-Specific Configuration

- Damage classes – Select from Visy's Standard Damage Classes
- Adjustable alert threshold
- The AI-engine is trained using your site's traffic data to optimize accuracy
- Continuous improvement from real-world operations for above according to need

### New Damage Classes

- Holes and punctures
- Open/damaged handles (door damage)
- Bent door bars
- Missing air-conditioning covers
- As well as the classes already presented in the ADDS 1.0: Dents, bulges, rust, scratches
- Do you believe you have a viable damage that is not currently supported? Suggest one and it might be included in the next ADDS upgrade!

## Built-in Scoring

# 0-100

Lets you choose exactly which events should trigger alarms.



## Real-World Performance Across Operations

### Real-Time Intelligence

Instant damage detection the moment containers enter your terminal. No delays, no backlogs, no surprises.

### Streamlined Workflows

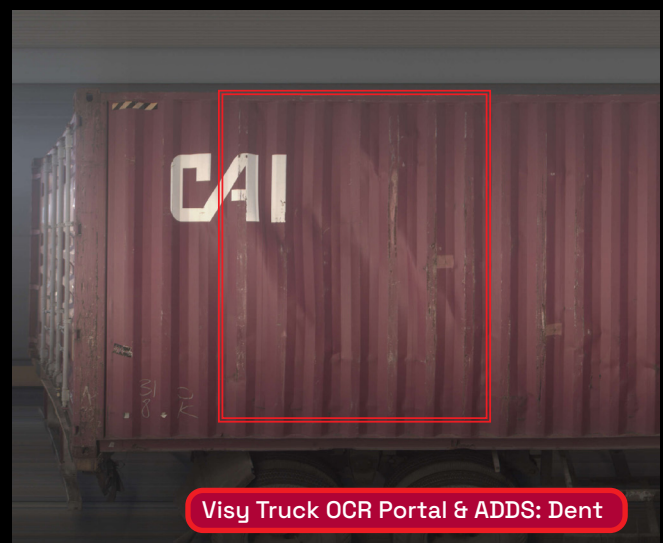
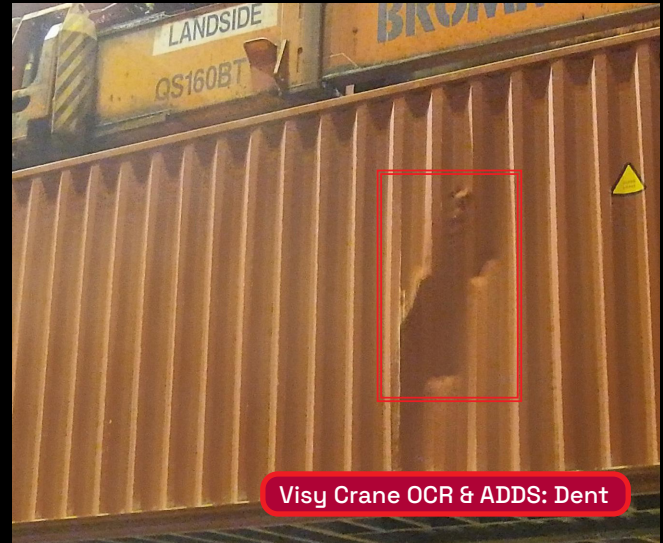
Automatic prioritization ensures your teams focus on what matters most. Less downtime, maximum throughput.

### Digital Evidence

Clear, consistent documentation eliminates subjective disputes. Protect your interests while maintaining customer relationships.

# Built to Fit Your Terminal

Configure ADDS to Focus on the Relevant Containers for Your Business



# Customer-oriented Approach

By customer-oriented, we mean built with your business in mind. Every part of the system is designed to support your operations efficiency effectively – based on Visy’s long experience in delivering solutions that work in real-world environments.

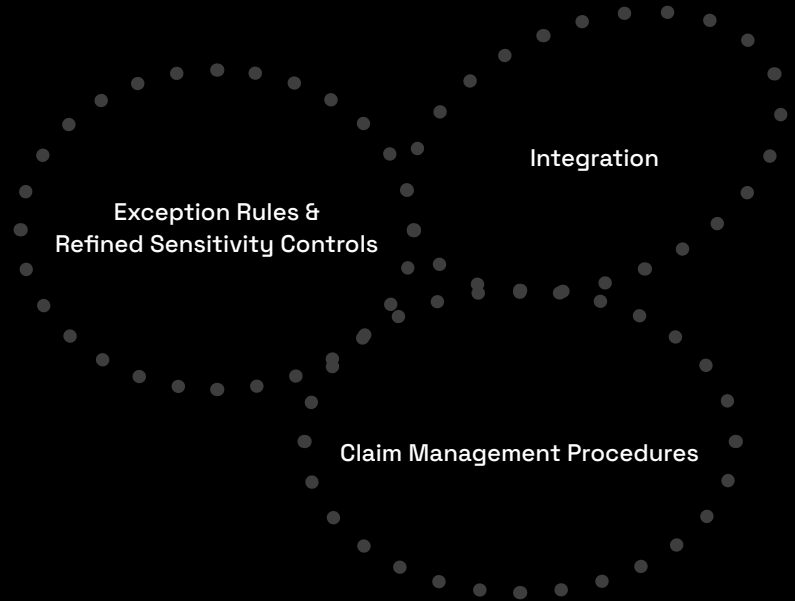
We don’t believe in one-size-fits-all products. Instead, ADDS 2.0 is founded on flexibility and scalability – allowing us to configure key features to suit your operational needs while following best practices proven across the industry.

From defining damage scoring to prioritizing system functions and managing data for claims, you can rely on a solution shaped by Visy’s expertise to align with your goals.

Initial calibration period to optimize sensitivity settings

Site data is used to train the model for optimal performance

Compatible with Visy OCR suite and with limited Visy approved imaging solutions



## Exception Rules & Refined Sensitivity Controls

### Damage types with low relevance

Minimizing exceptions due to damages not considered critical  
Damage scores typically 1-60

Classes such as  
Rust, scratch, minor dents and bulges

● ADDS auto processing

### Damage types that can be an issue if prevalent enough on the container

Optimizing the effect of common, subjective damages present on high number of containers  
Damage score 50-100

Classes such as  
Dents, bulges, high number of scratches, open handles

● Multiple minor → ADDS Alarm → Manual

### Damage types that must always be repaired if detected

Amplifying relevance of critical damages, scoring typically to 100  
Considered critical due to terminals own quality assurance and/or ISO standards

Classes such as  
Holes, missing air covers, bent door bars, door damage, major dents and bulges

● Major → ADDS Alarm → Manual

# ADDS in Action

## Delivering Results in Real Operations



### Gate Operations

- Trucks flow continuously without stopping for manual inspection
- All visible container sides captured via line scan and area cameras, or other imaging solution approved by Visy
- Instant alerts when damage exceeds threshold

[Visy Truck OCR Portal](#)



### Crane Operations

- Container sides are imaged for damage inspection during lifts with PTZ cameras
- Visy TopView captures complete roof image for damage inspection
- Prevents damaged containers from entering vessel or stack

[Visy Crane OCR](#)

[Visy TopView](#)



### Rail Operations

- Damage inspection as wagons pass through portal with line scan imaging
- High-speed capture of multiple containers per wagon
- Identifies issues before containers enter the terminal

[Visy Train OCR Portal](#)

## #1 Use case

# Customer using ADDS as part of the Visy Access Gate GOS Platform

Unified Platform

Gate | Quay | Rail

Consistent Standards

Visy Access Gate GOS

**Automatic ID & Damage:** Visy Truck OCR Portals identify trucks and send IDs and damage data to Visy GOS before they reach the gate.

**Full Visibility:** All transaction data – including images and damage scores – is shown and can be edited in the Visy Access Gate GOS user interface.

**Automatic Alerts:** If damage score exceeds a set threshold, the system alerts and creates an exception event for review, and denies automatic entry.

**Quick Review:** Clerks check the images and confirm damage.

**Action:** Confirmed cases trigger a manual inspection when the truck arrives at the main gate.



## #2 Use case

# Customer with ADDS integrated into in-house GOS

Gate

Consistent Standards

Integrated with in-house GOS

**Data transfer:** Visy delivers complete OCR data, detected damages and classes, and an overall damage score for each event.

**Process Automation:** The in-house GOS system uses this data to automate transactions according to the exception rules set in it based upon data supplied by Visy.

CONTAINER ID: VISU 1234567 8  
TIMESTAMP: 2025-10-24 14:23:58

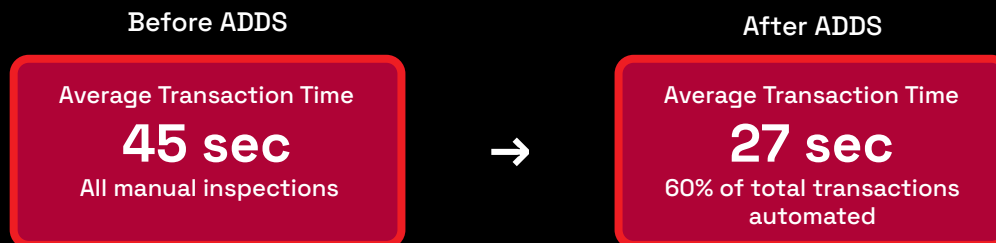
DAMAGE CLASS: Scratch  
LOCATION: Right side  
SCORE: 36

DAMAGE CLASS: Bulge  
LOCATION: Roof  
SCORE: 41

TOTAL DAMAGE SCORE: 41/100  
STATUS: ADDS Auto Processing

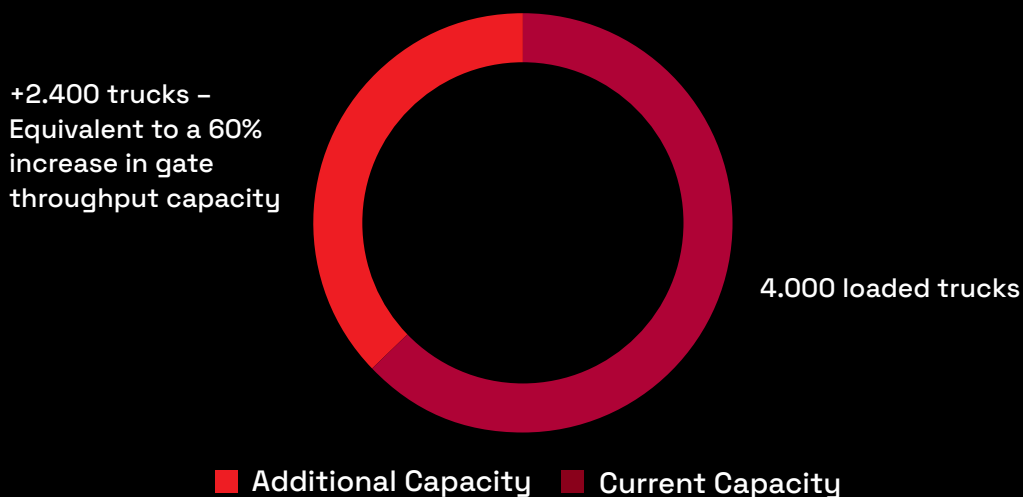
# Business Impacts of ADDS, OCR and Gate Automation

ADDS pays for itself through efficiency gains while opening new revenue streams



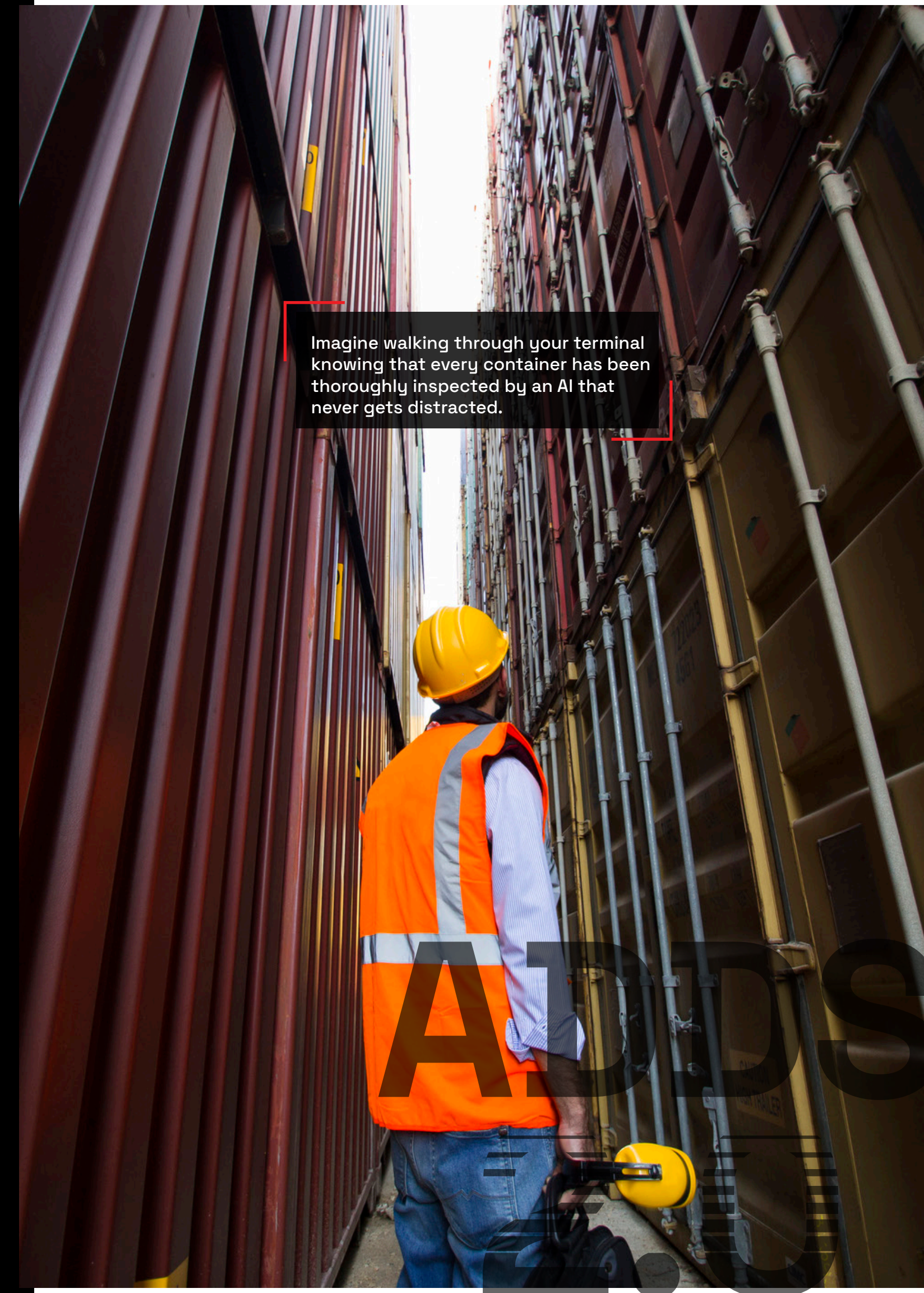
\* Each automated event saves ~30 sec

## Gate Capacity Increase Achieved with OCR and ADDS



\* 40% manual includes all types of exceptions

\* Calculation is based on transaction times and automation percentages received from one Visy customer site



Imagine walking through your terminal knowing that every container has been thoroughly inspected by an AI that never gets distracted.

**AIOPS**





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