

# A NEW WAY TO THINK ABOUT **SAFETY**



**SIERA.AI**



# The Innovative Safety Team at **SIERA.AI** Wondered...

What if we proactively monitor,  
warn, and report impacts to prevent  
accidents from happening?

Safety Team

What if we could proactively  
monitor, warn, AND slow a forklift  
to a complete stop?

**WHY DON'T WE CREATE BOTH?!**

Safety Team 1

YES!!!!!!

Safety Team 2

Let's make it happen

Safety Team 3 is typing



Safety Team 4 is typing





# SIERA.AI

## OUR ACCIDENT PREVENTION MISSION

Safety on moving vehicles is one of the most challenging issues in a facility. Productivity is paramount and you need the fleet of lift trucks to be moving—operating at peak performance at all times. However, if an incident occurs, it causes a disruption in the operation and affects profitability.

## PREVENT ACCIDENTS LIKE THESE

- Pedestrians In/Out of Walkways
- Pedestrian Aisle Crossing
- Vehicle to Vehicle Accidents
- Damage to Products and Goods
- Damage to Racking System
- Damage to Manufacturing Lines
- Damage to Facility Infrastructure such as Walls, Doors, Docks, etc.

**SIERA.AI**  
SAFETY  
SYSTEM

**S3**



## **An Ounce of Prevention... Protects Your Investment!**

SIERA.AI customers often purchase the **S3 with Proximity Warning** in order to experience the new technology. After a few months, it becomes easy to identify the highest-risk areas.

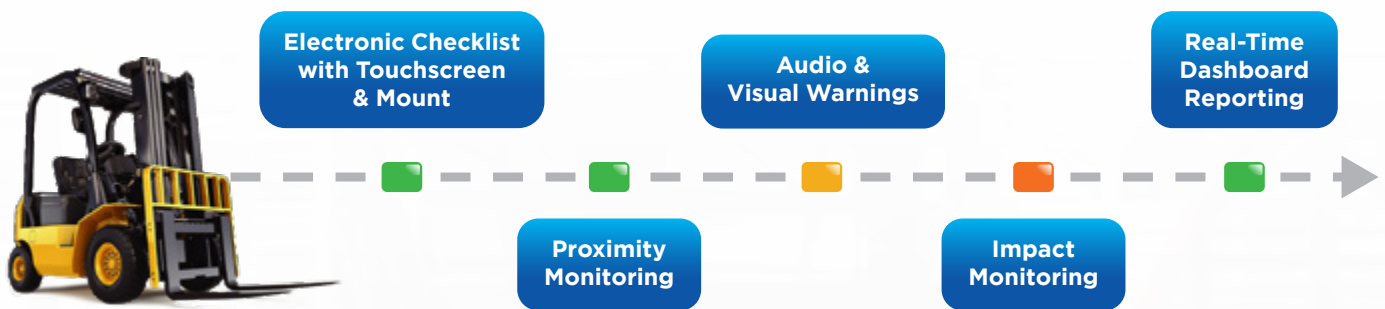
They usually purchase the **S3 with Slow to a Safe Stop** soon after as they're eager to both increase safety and minimize costs.



# Solution 1: Amplify Awareness

## S3 PROXIMITY WARNING & IMPACT MONITORING

S3 continuously monitors in a single direction or all 4 ways around the moving vehicle every 60ms. If a pedestrian or object comes within the pre-defined path 15', 5', 3 1/2' or 14", the gas, electric, or LP lift truck will automatically sound an alarm and provide visual cues to the driver in enough time to react and avoid an impact or accident.



### Electronic Checklist with Touchscreen & Mount

Start each shift or day with a safety check on the lift truck. Transform your OSHA compliance and any other checklists to our easy-to-use touchscreen mounted directly on the lift truck. The driver scans the badge or enters a PIN number and begins answering the safety questions with a tap of the screen. If a lift truck 'fails' a safety inspection, an electronic notification is sent to as many people as you want.

### Impact Monitoring

As your driver goes about his day, the system is automatically monitoring impacts. Forklift impact detection records and measures each impact separately in order to track when it occurred, the operator involved, and the severity of the impact.

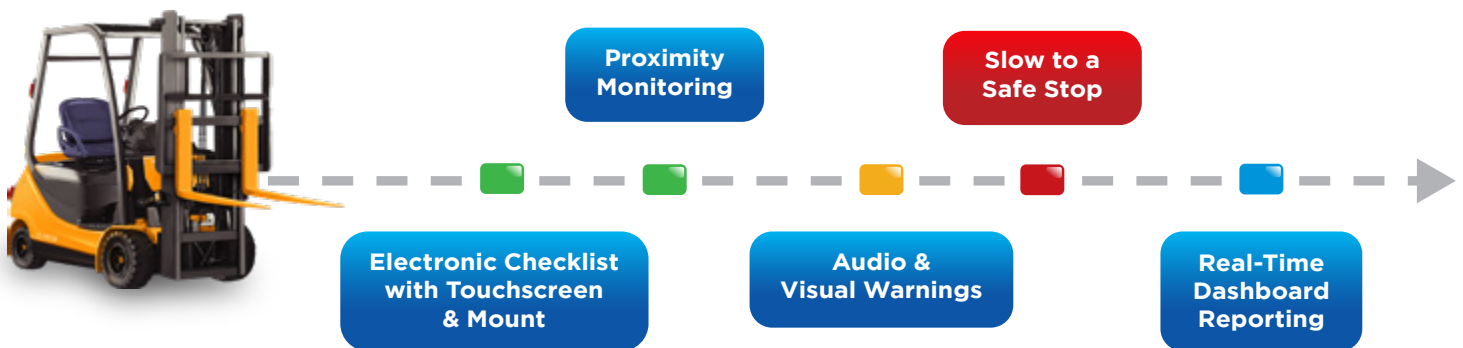
#### Benefits:

- Reduce accidents
- Detect & Identify Pedestrians
- Increase accountability
- Promote positive training

## Solution 2: Add a Safety Co-Pilot

# S3 WITH SLOW TO A SAFE STOP

The S3 Slow to a Safe Stop has automatic speed control built into the System. You determine the speed of the vehicle as it approaches each of the defined (green, yellow, red) distances. The S3 constantly monitors in one or all 4 directions.



### DID YOU KNOW...

#### AVERAGE HUMAN REACTION TIME

- VISUAL **0.25 SECONDS**
- AUDIO **0.17 SECONDS**
- TOUCH **0.15 SECONDS**

**S3 Response Time**  
**30 ms - 0.03 sec**

## REVOLUTIONIZE YOUR SAFETY RECORD

If a pedestrian, pallet rack, or wall comes into close proximity, an S3 equipped vehicle automatically slows and comes to a safe and complete stop.

The SIERA.AI Safety System S3 virtually eliminates the amount of time it takes for the operator to become aware of the incident.

By eliminating a driver's reaction lag and allowing the vehicle to stop 1 to 2 seconds faster, the chance for the accident and damage to occur is now mitigated. Incidents that can be avoided WILL be avoided.

# SIERA.AI Safety System S3

The S3 System can be installed by your team or by SIERA.AI's. Participate in our train-the-trainer program so all future installations can be completed by your safety team. Installation for each unit takes less than an hour.

## Compare System Features

	S3 Proximity Warning & Impact Monitoring	S3 with Slow to a Safe Stop
Machine vision, Industrial grade sensor(s)	✓	✓
Optional one direction or 4-way sensing	✓	✓
WIFI/LTE	✓	✓
Mount(s)	✓	✓
Touchscreen for checklist and badge sign-on	✓	✓
AI Computer Vision Technology	✓	✓
AI-enabled safety processing unit	✓	✓
Speed control	●	✓



# Technical Specifications

## Communication

<b>WiFi</b>	Wi-Fi 802.11 a/b/g/n/ac
<b>Cellular</b>	4G/5G

## Environmental

<b>IP Rating</b>	54
<b>Environmental</b>	Ambient Indoors
<b>Temperature</b>	0°C - 35°C / 32°F - 95°F

## Power Input

	12v - 72v
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## Vision Sensor

<b>Depth Field</b>	13 ft - 33 ft / 4m - 10m (depending on ambient brightness)
<b>Sensor Field of View</b>	Horizontal: 91.2 / Vertical: 65.5 / Diagonal: 100.6 (degrees)
<b>AI Object Recognition</b>	Pedestrian Identification vs. Non-Pedestrian Object

## Mounting

	Clamp/Adhesive
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## User Interface

	8.4" Capacitive Touchscreen
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## Proximity Alerts

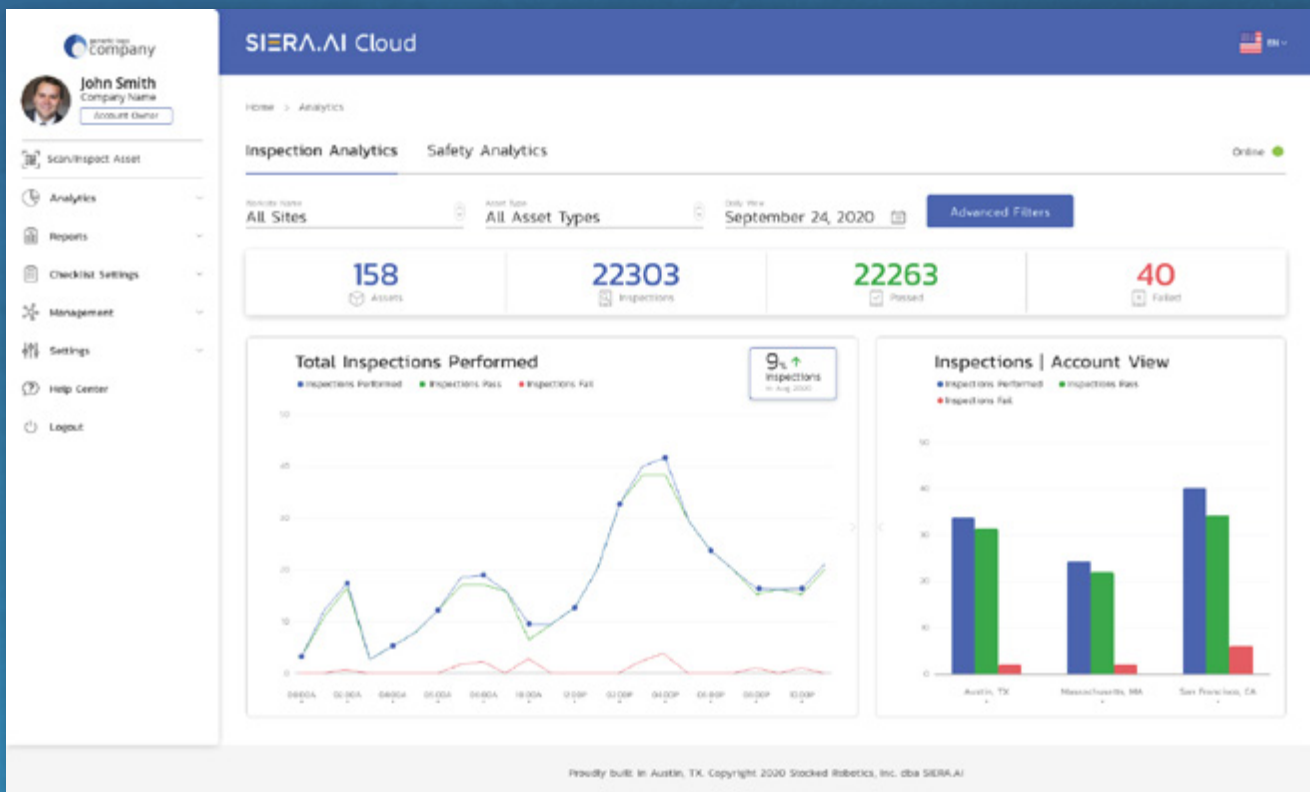
<b>Audio Alarm/Buzzer</b>	Up to 95 dba
<b>Visual Alert</b>	On Touchscreen



# REAL-TIME DASHBOARD MONITORING & RESULTS

THE SIERA.AI DASHBOARD GIVES  
YOU THE POWER OF **ONE**

One Dashboard with real-time metrics for all of SIERA.AI's solutions in a single place. Our Dashboard empowers actionable decision making by tracking safety and performance across multiple assets in multiple locations. Track and analyze operational efforts for an hour, day, week, month, year or over any period of time.



SIERA.AI's Dashboard offers you the control to make strategic and tactical decisions for a more efficient and leaner operation. Review data quality and performance more clearly so you can identify issues in various areas of your facility in order to detect and fix the root cause.

# View & Track Metrics at a Glance

Stay on top of your operational objectives and its success by managing assets and assigned workers. You'll quickly know the status of an asset or worker allowing you to take action. This will help you to identify and solve any challenges while maximizing your investment.

The screenshot displays the 'Reports' section of the SIERA.AI Cloud interface. It features a navigation sidebar on the left with options like 'Analytics', 'Reports', 'Checklist Settings', 'Management', 'Settings', and 'Help Center'. The main content area shows a table of reports for 'All Sites' and 'All Asset Types' as of 'September 24, 2020'. The table includes columns for '#', 'Site Name', 'Asset Type', 'Asset Name', 'Inspector', 'Access Level', 'Date', 'Time', 'Result', and 'Actions'. Each row represents an inspection record with a 'Pass' or 'Fail' status and a corresponding action icon.

#	Site Name	Asset Type	Asset Name	Inspector	Access Level	Date	Time	Result	Actions
4038	Austin, TX	Electric Forklift	Forklift 002	Derrick Marshall	Operator	09/24/20	07:56 AM	Fail	View
4037	Austin, TX	Electric Forklift	Forklift 008	Noah Barry	Operator	09/24/20	07:57 AM	Pass	View
4036	Massachusetts, MA	Electric Forklift	Forklift 002	Jason Aron	Operator	09/24/20	07:59 AM	Pass	View
4035	San Francisco, CA	Cherry Picker	CherryPicker 003	Jason Bourne	Site Admin	09/24/20	07:00 AM	Pass	View
4034	Massachusetts, MA	Electric Forklift	Forklift 003	Jarvis Box	Operator	09/24/20	06:55 AM	Pass	View
4033	Manor, TX	Electric Forklift	Forklift 005	Mark Schuler	Operator	09/24/20	06:57 AM	Pass	View
4032	Philadelphia, PA	Electric Forklift	Forklift 001	Joan Potts	Operator	09/24/20	06:50 AM	Pass	View
4031	Louisville, TN	Electric Forklift	Forklift 002	Ron Alon	Operator	09/24/20	06:48 AM	Pass	View
4030	Austin, TX	Electric Forklift	Forklift 003	Austin Heston	Operator	09/24/20	06:17 AM	Pass	View
4028	Massachusetts, MA	Electric Forklift	Forklift 001	Colin Harris	Site Admin	09/24/20	05:23 AM	Pass	View
4048	San Francisco, CA	Cherry Picker	CherryPicker 002	Peter Dutch	Site Admin	09/24/20	05:28 AM	Pass	View
4047	Massachusetts, MA	Electric Forklift	Forklift 005	Henry Hegler	Operator	09/24/20	05:17 AM	Pass	View
4046	Manor, TX	Electric Forklift	Forklift 002	Wanda Marston	Operator	09/24/20	05:25 AM	Pass	View
4045	Philadelphia, PA	Electric Forklift	Forklift 004	Gary Hall	Operator	09/24/20	06:14 AM	Pass	View
4044	Louisville, TN	Electric Forklift	Forklift 001	Victor Phanom	Operator	09/24/20	06:14 AM	Pass	View
4043	Massachusetts, MA	Electric Forklift	Forklift 004	Olivia Scherer	Operator	09/24/20	06:26 AM	Pass	View
4042	Massachusetts, MA	Electric Forklift	Forklift 004	Stevie Gibbs	Site Admin	09/24/20	06:14 AM	Pass	View
4041	Philadelphia, PA	Electric Forklift	Forklift 002	Robert Rutledge	Operator	09/24/20	06:14 AM	Pass	View

# Live Reporting

SIERA.AI monitors the right values for your operation with live reporting. For instance, after you define your assets, begin to track and monitor each asset, assigned checklists, as well as the result of the inspection report. **Now you have a centralized way of maximizing the productivity and performance for a truly effective facility.**

The screenshot displays the 'Management' section of the SIERA.AI Cloud interface. It shows a list of 'Your Assets' on the left, with 'Forklift 002' selected. The main content area provides a detailed view of 'Forklift 002', including its location (Proctor, Massachusetts, MA), asset type (Electric Forklift), and a QR code. Below this, there is a table of 'Inspection Reports' for this asset, with columns for '#', 'Checklist Name', 'Inspector', 'Access Level', 'Date', 'Time', 'Result', and 'Actions'. The table shows several inspection records, all with a 'Pass' status.

#	Checklist Name	Inspector	Access Level	Date	Time	Result	Actions
103	Daily electric forklift inspection che...	Derrick Marshall	Operator	09/24/20	06:02 AM	Fail	View
102	Daily electric forklift inspection che...	Noah Barry	Operator	09/24/20	02:02 PM	Pass	View
03	Daily electric forklift inspection che...	Derrick Marshall	Operator	09/23/20	09:09 AM	Pass	View
100	Weekly electric forklift inspection c...	Mark Truitt	Site Admin	09/23/20	10:02 PM	Pass	View
05	Daily electric forklift inspection che...	Noah Barry	Operator	09/23/20	03:04 PM	Pass	View
08	Daily electric forklift inspection che...	Derrick Marshall	Operator	09/23/20	04:08 AM	Pass	View
07	Daily electric forklift inspection che...	Noah Barry	Operator	09/23/20	02:05 PM	Pass	View





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