

#### SEPTEMBER 30 - OCTOBER 1, 2020

## RFD JOURNAL VERTULLY EVE!

## Deter, Detect, and Diagnose Damage in Your Supply Chain With RFID

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#### Today's Presenters



Tyson Stuelpe Vice President of Global Sales



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#### The Challenge....Stop Shipping Damage



#### \$2.3 trillion annually of damage to shipped goods!!!



#### Solving the Problem

The knowledge that cargo is actively being monitored deters bad handling behavior by supply chain participants.

Connected monitoring enables real-time damage detection so costs are minimized, and responsible parties are held accountable.

#### DIAGNOSE

DETER

DFTFCT

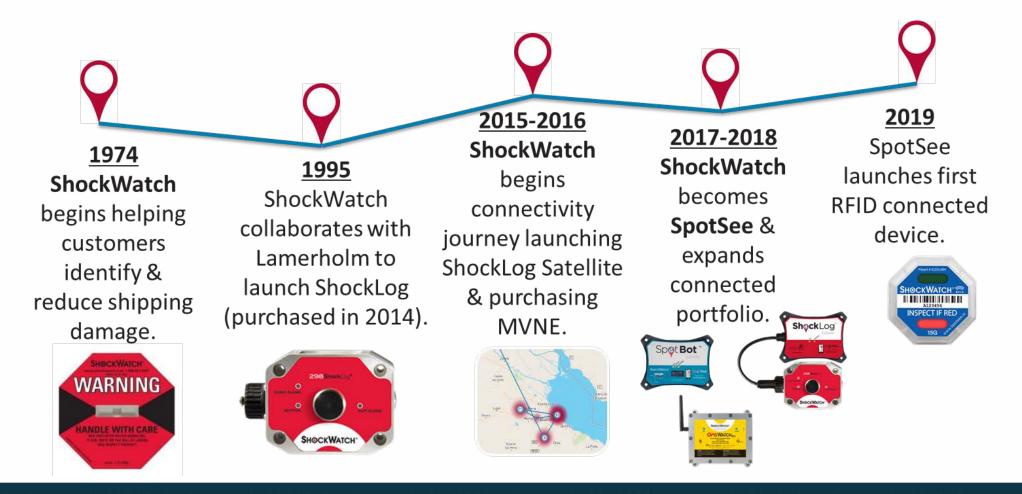
Data and analytics provided by shipment monitoring enable the diagnosis and elimination of pain points within the supply chain.

40-60% typical reduction in damage!



#### How SpotSee<sup>®</sup> Has Met The Challenge

See



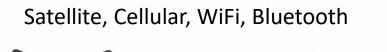
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## SpotSee's Connected Portfolio

Spot Bot

Monitor Shipments in SpotSee or Customer Cloud

ee



ShockLog

**RFID** connectivity

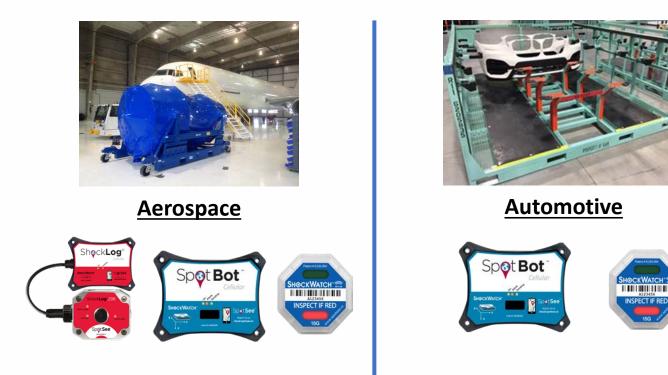


#### Portfolio to Match the Variety of Monitoring Needs

- What conditions cause damage to the asset? (Impact, Tilt, Temp, Humidity, etc.)
- What data is needed to understand the damage?
- Best communication type for the specific supply chain?
- Cost of sensor relative to the product being shipped?

SEPTEMBER 30 - OCTOBER 1, 2020

## Product & Application Examples





#### **Medical Equipment**



*RFID enables "connected" impact monitoring in new applications!* 



#### SpotSee's ShockWatch Indicator





## Adding RFID Connectivity to ShockWatch





## Cost Optimized Connectivity

- Mechanical impact sensor utilizes impact event energy
- Mechanical impact memory
- Field arming
- Low cost
- Small size
- Unlimited shelf life
- Robust temperature behavior





Reading the Impact Status

```
// 1. Select EPC memory bank
x.MemoryBank = MemoryBankEpc;
// 2. Point to bit 512
x.WordPointer = 512/16;
// 3. Say how many words to read
x.WordCount = 1;
// 4. Read the impact memory location
settings.Report.OptimizedReadOps.Add(x);
```



## Reading the Impact Status

SpotSee RFID Demo       EPC/SGTIN       Impact Event         31       E200680B000040075F313C35       E200680B000000000000000000000000000000000	Sp	tSee PRODUCTS CONNECT	IVITY APPLICATIONS RESOURCES	ABOUT	CONTACT	rus	
Count     Tag Id     EPC/SGTIN     Impact Event       31     E200680B000040075F313C35     E200680B000000000000000000000000000000000							
	-		EPC/SGTIN	Impact	t Event		
6 E200680B00004006EA1468AA E200680B00000000000128 OK	31	E200680B000040075F313C35	E200680B00000000000000000	Ins	pect		
	6	E200680B00004006EA1468AA	E200680B000000000000128	0	Ж		



# THANK YOU

