

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



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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

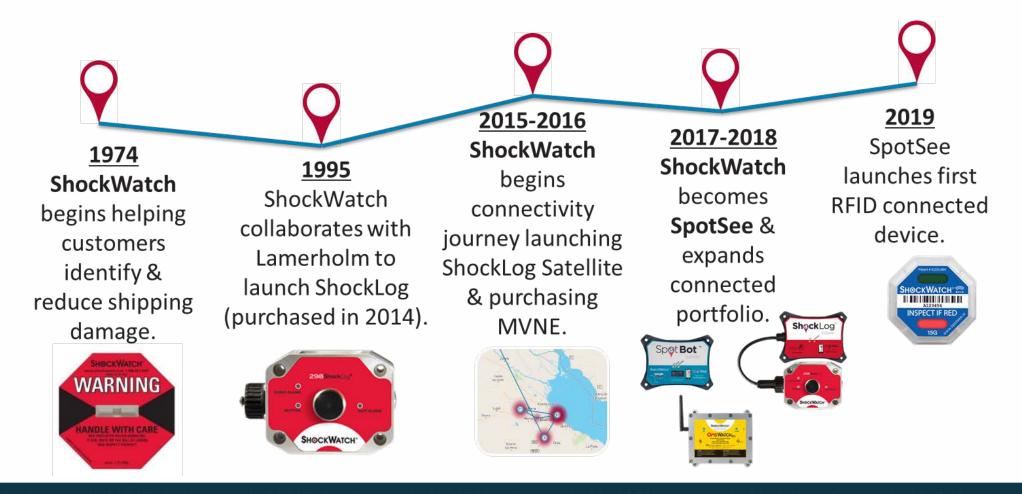
Data and analytics provided by shipment monitoring enable the diagnosis and elimination of pain points within the supply chain.

40-60% typical reduction in damage!



How SpotSee[®] Has Met The Challenge

See



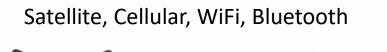
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SpotSee's Connected Portfolio

Spot Bot

Monitor Shipments in SpotSee or Customer Cloud

ee



ShockLog

RFID connectivity

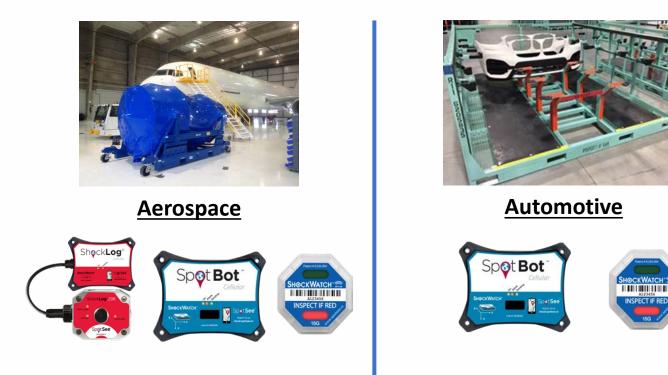


Portfolio to Match the Variety of Monitoring Needs

- 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?

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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

