# RSA Conference 2015 San Francisco | April 20-24 | Moscone Center



## WHEN IT THREATS

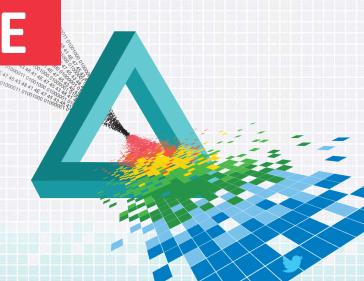
## MEET OT INNOCENCE

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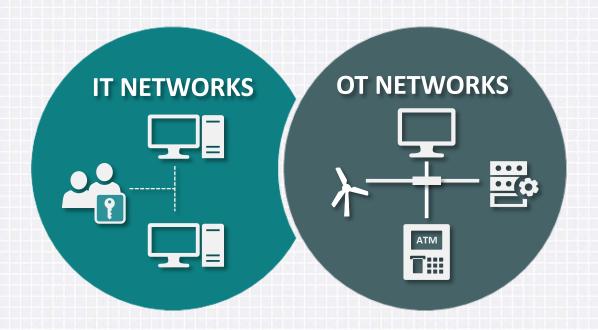
**Udi Solomon** 

**VP Product** 

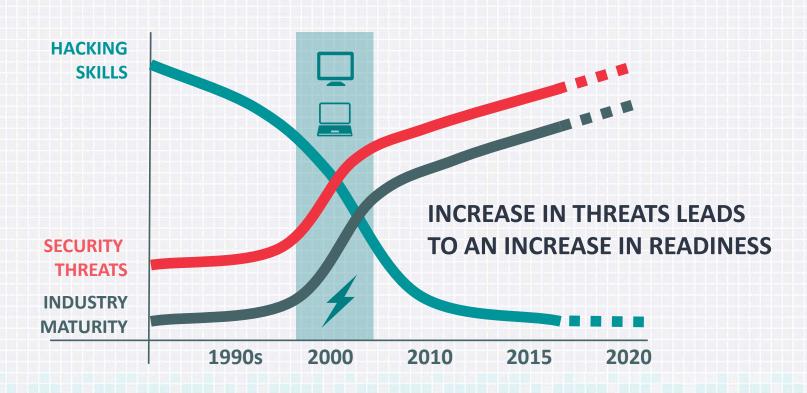




## People vs. Machines



#### IT TECHNOLOGY EVOLUTION



### IT TOOK TWO DECADES

TO REACH IT MATURITY

## OT SECURITY NEEDS TO CATCH UP

### LIMITED OT SECURITY MATURITY



SECURITY UPDATES

48% Systems are NOT patched on a regular basis



EXPERT PERSONNEL

50% Incidents are NOT handled by IT security teams



#### **ORGANIZATIONAL AWARENESS**

70% CI Organizations view cyber risk to be high or critical

**NEARLY 7000 IT** 

**VULNERABILITIES** 

**LESS THAN 200 OT** 

**VULNERABILITIES** 

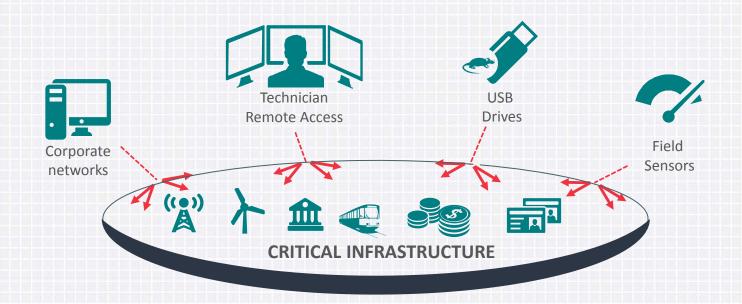


<sup>1.</sup> SANS Institute, SCADA and Process Control Security Survey, 2013

<sup>2.</sup> ICS-CERT Industrial Control Systems Cyber Emergency Response Team, 2013

<sup>3.</sup> NSS Labs, 2014

### THE NETWORK ISOLATION DREAM



### THE FUTURE OF OT THREATS

**APTS ARE ALREADY HERE** 

### THE THREAT IS REAL



**Dec 2014** 

#### ATTACK ON GERMAN STEEL MILL









54% THIS IS NOT AN ISOLATED EVENT SURVEYED CI ORGANIZATIONS HAVE IDENTIFIED "ATTEMPTS TO MANIPULATE" EQUIPMENT VIA CONTROL SYSTEM.



<sup>1.</sup> www.securityweek.com/cyberattack-german-steel-plant-causes-significant-damage-report

<sup>2.</sup> SANS Institute, ICS Defense Use Case (DUC), Dec 30 2014

<sup>3.</sup> TrendMicro, Destructive hacking attempts target critical infrastructure in Americas – survey, April 2015

### THE THREAT IS REAL



Feb 2015

#### **GLOBAL ATTACK ON ATMs**









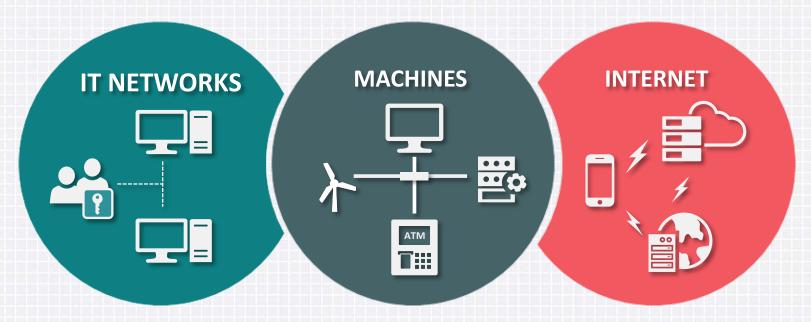


#### **1 BILLION STOLEN FROM 100 BANKS IN 25 COUNTRIES**

OT THREATS: IMPACT ALL CRITICAL INFRASTRUCTURE SEGMENTS INLUDING FINANCIAL, UTILITIES, TRANSPORTATION, AND TELCOS

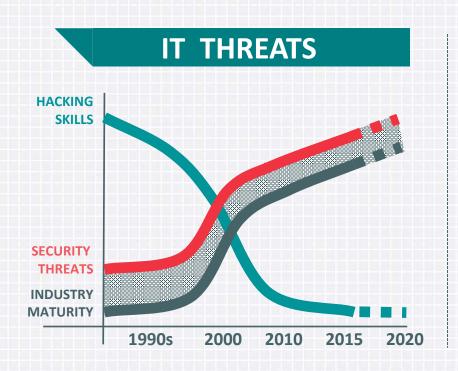


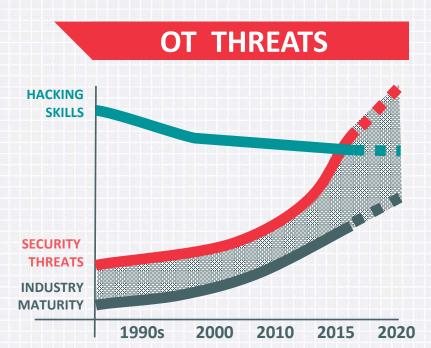
### THE WEAKEST LINK



IT THREATS INFILTRATE OT INFRASTRUCTURE CONNECTED MACHINES ARE EXPOSED

#### OT TECHNOLOGY EVOLUTION





## IT TOOK TWO DECADES

## TO REACH IT MATURITY

**WE CANNOT WAIT** 

**ANOTHER 20 YEARS** 



### IT SECURITY LESSONS



- OT Security Team
- IoT Expertise
- OT Budget



- Policies
- Procedures
- Education



# OT DEFENSE IN-DEPTH

- Internal Networks
- Machine Monitoring
- Industrial Protocols

### **OT SECURITY SOLUTIONS**



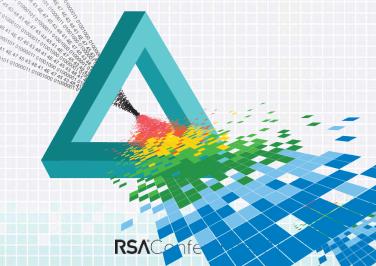








IT'S NOT ABOUT IDEAS. IT'S ABOUT **MAKING IDEAS** HAPPEN.



### **THANK YOU!**

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