



# SECURITY IN THE INDUSTRIAL WORLD

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# ADVERSARIES

THEY HAVE THREE THINGS YOU DO NOT







# INNOVATION

ACCELERATING DISRUPTION

# CONVERGENCE

IT WILL ALL BE JUST "T"



A row of four pink piggy banks, slightly out of focus, set against a warm, reddish-brown background. The piggy banks are arranged in a line, receding into the distance.

# TRANSFORMATION

DATA IS NOW YOUR BUSINESS



# WHAT WORKS?

BASED ON EXPERIENCE AND PROOF IN THE REAL WORLD





# IDENTIFY

TO PROTECT IT, YOU MUST KNOW IT EXISTS

A close-up photograph of six brown eggs arranged in two rows of three in a white egg carton. The eggs are the central focus of the image. A dark grey horizontal band is superimposed over the middle of the eggs, containing the word 'FRAGILE' in large white letters. Below this band is another dark grey horizontal band containing the text 'UNIQUE SYSTEMS INCREASE BOTH RISK AND COST' in white letters. At the bottom of the image is a black horizontal band containing contact information in white text.

# FRAGILE

UNIQUE SYSTEMS INCREASE BOTH RISK AND COST





# ARCHITECT

BUILD AN ENVIRONMENT YOU CAN DEFEND

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# EXPOSURE

INTERNET ACCESS, REMOTE ADMINISTRATION & VENDOR SUPPORT







# RESTRICT

IT IS 2020. YOU CAN HAVE INDIVIDUAL ACCOUNTS IN ICS.



# VULNERABLE

PATCHING, FOREVER-DAYS, AND TRADITION



# CONTROL CHANGE

BEST DEFENSE AGAINST ACCIDENTS AND MALICE





# MONITOR

WOULD YOU KNOW ABNORMAL IF YOU SAW IT?





# SIMPLIFY

LOCK THE DOORS AND WINDOWS BEFORE BUYING AN ALARM





# RESPONSE & RECOVERY

PRACTICE LIKE IT IS GAME DAY





# REGULATION

YOU CAN PRESCRIBE ACTION BUT NOT ATTITUDE





# FRAMEWORKS

STANDARDS, MODELS... WHICH ONE IS RIGHT FOR YOU?

A black and white photograph of a person sitting at a table. The person's legs are extended, and their feet are resting on the floor. The person is wearing dark pants and dark shoes. The table has a dark metal frame. The background is a plain, light-colored wall. The text "PEOPLE" is overlaid in large, white, sans-serif capital letters. Below it, the text "YES. YOU." is overlaid in smaller, white, sans-serif capital letters.

PEOPLE

YES. YOU.



The background of the slide is a close-up photograph of a wood grain, showing concentric growth rings in shades of light brown and tan. A dark grey horizontal band is overlaid across the middle of the image, containing the main text.

# RESILIENCE

MAINTAIN SAFETY AND SECURITY THROUGH AN ATTACK



1. **Asset inventory** is absolutely essential
2. Eliminate **fragile systems**
3. Build a **defendable** environment
4. Secure all **external/remote** access
5. Use and **manage authentication**
6. **Patch** where possible, use **other methods**
7. **Change control** and configuration management
8. **Monitor** everything, especially the network
9. Over-practice **incident response**
10. Know **manual operations** and recovery