# DIRECTDEFENSE

## **Cybersecurity for Engineering Disciplines**

We Protect What You Can't Live Without

BE INFORMED. BE STRATEGIC. BE SECURE.

March 19, 2024

#### 25 Years in IT and Cybersecurity

- Constellation Energy (BG&E Parent Company)
- SunGard
- Black & Veatch
- DirectDefense

Critical infrastructure and manufacturing Critical infrastructure hacker Engineering firm cyber partner Battery storage & smart cities New rail systems Physical security NERC CIP Committee Vice-Chair AWWA J100 SME ECL participant since inception ACEC SME (webinars, podcasts) ISC2 Instructor and Podcasts SIA Utility Advisory Board Member RSA Speaker Black Hat Speaker



## Why do engineers care about cybersecurity?

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The Necessity of Protecting What's Connected
Critical Functions – Criticality Matrix
Compliance Requirements
Structure of Continuity of Operations
On Premise isn't really a thing anymore
Unexpected ties to critical infrastructure (BESS, Smart Cities)

## **Reference Project - Hudson Yards**





## **Reference Project - Hudson Yards**

- 16 structures on top of a 35,000 ton platform
- 13.3 MW cogeneration power plant with heat and steam recovery
- 4 Million square feet of retail space
- 4,000 residences
- Sidewalk Labs
- Bluetooth
- Full-service mobile app
- Facial Recognition

#### Changing Threat Landscape

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## Security Attacks Become More Sophisticated Each Year

Most IT architectures weren't designed to withstand today's sophisticated security threats.



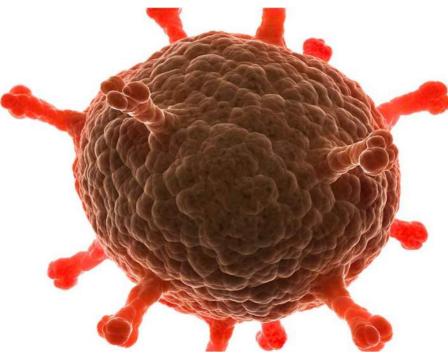
#### What is important for engineers

- Know what you don't know
- Understanding smart infrastructure
- Push for action on discussions
- Consider RFP requirements

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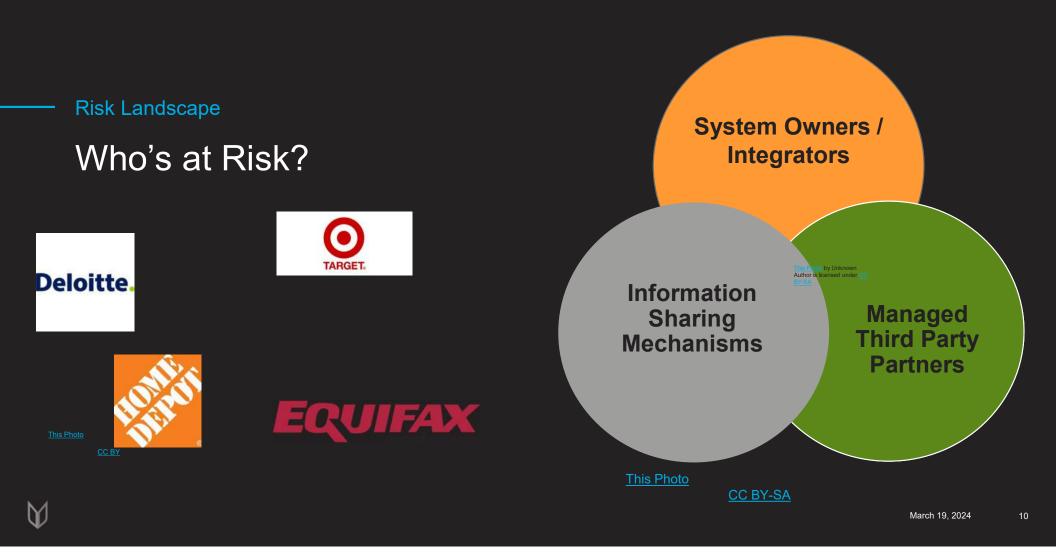
### VTDs Avoiding VTDs



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- Vendor/Product Choice Oversight
- Guiding Client Choice for Best Practice
- Evaluation of Partners for Third-Party Risk
- Include them in TableTop Exercises

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### Protect Your Connected Systems With Services You Can Count On

Let our Connected Systems team elevate your security and peace of mind. Contact us today to see how we can secure your organization for the future.

directdefense.com/connected-systems

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