

It's Not About ICS Security

It's Business Risk and Safety

Dale Peterson

CEO of Digital Bond, S4 Program Chair

@digitalbond s4x18.com S4 Events YouTube Channel

ICS Security: Friday News & Notes Email

Success Story In ICS Cyber Risk Management

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The Telegraph

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Ukrainian blackout blamed on cyber-attack

December outage that affected 700,000 attributed to malicious 'DarkEnergy' software in first known case of hacking taking down energy network

Прес-тур на ПС 330 кВ "Північна"



<https://www.youtube.com/watch?v=AUoiKZBqlo0>



Consequence: 225,000 customers
lost power for 6 hours or less

First 5 months of 2017 US had 34
outages affecting over 50,000 customers

Including 1,345,000 for ~70 hours

Questions Executives Ask

- Are we secure?
- Could that happen to us? (after the sizzle article of the day)



INDEPENDENT

News › World › Americas

Bowman Avenue Dam: US in fear of new cyber attack as dam breach by Iranian hackers is revealed

The infiltration of the Bowman Avenue dam represents a frightening new frontier in cybercrime. These were no ordinary crimes, but calculated attacks by groups with ties to Iran's Islamic Revolutionary Guard and designed specifically to harm America and its people.

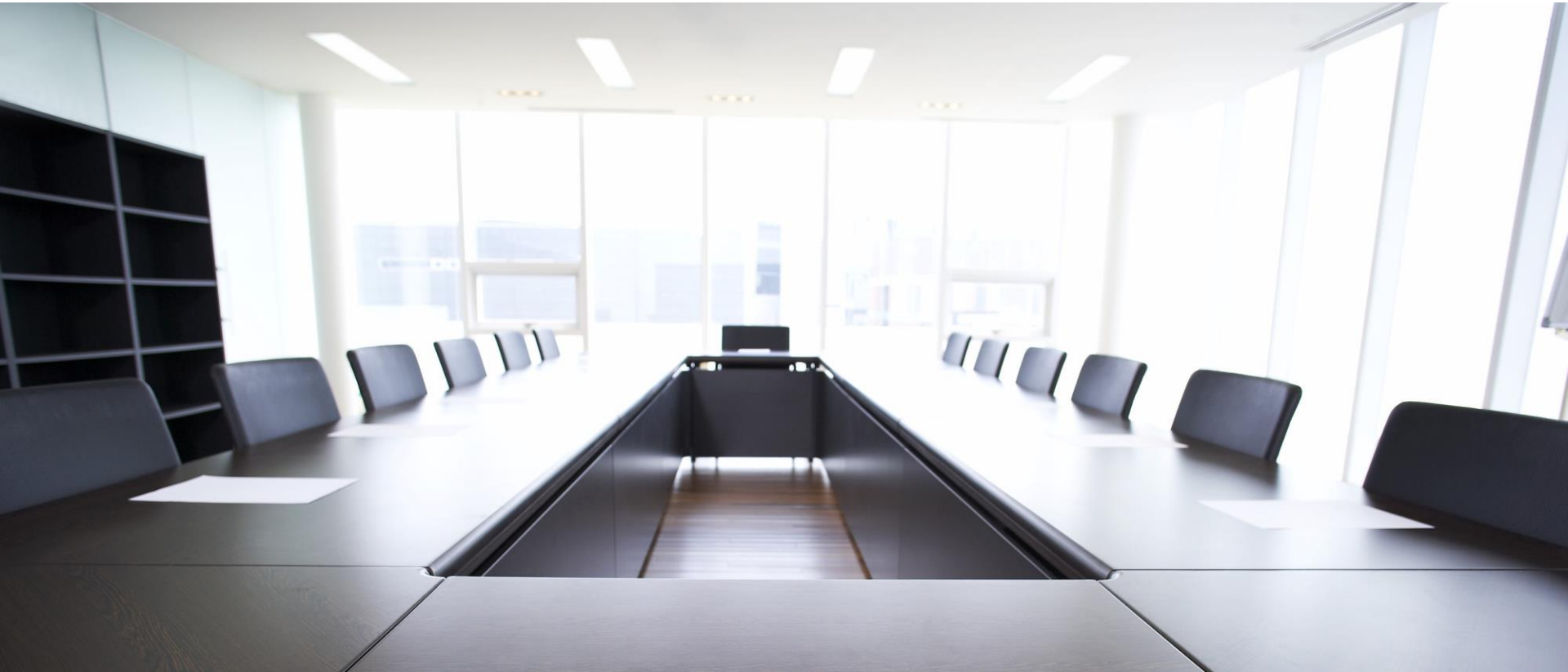
US Department of Justice



Questions Executives Ask

- Are we secure?
- Could that happen to us? (after the sizzle article of the day)
- If I spend the money you are asking for, can you guarantee we will be secure?
- If I spend that money you are asking for, can you tell me how much I have reduced risk from a cyber attack?

Myth: Senior Management Will Not Pay For ICS Security



Top Four Reasons For Funding Failure

1. You are hiding the risk (increasingly the biggest challenge is slowing down the Board / COO once they understand the risk)
 - A career limiting decision
2. You are not good at asking for money
3. You are not adapting to the risk management process
4. You are not able to explain the risk reduction achieved

$$\text{Risk} = \text{Consequence} \times \text{Likelihood}$$

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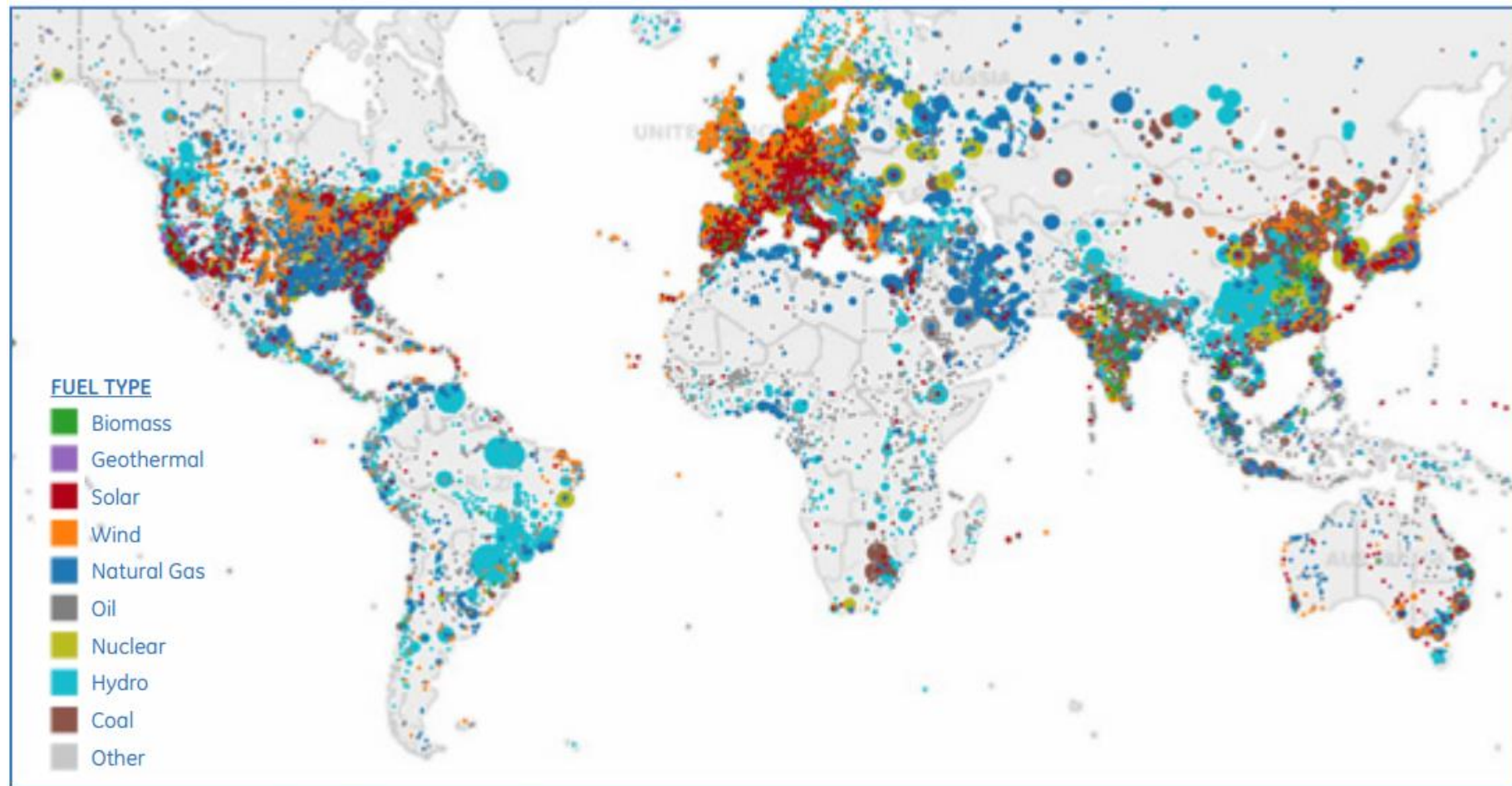
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Edward Tufte
Black Swan Sculpture



Figure 7. Global Power Plant Fleet by Technology



Source: Power plant data source Platts UDI Database, June 2012

Note: Circle size represents installed capacity (MW).

$$\text{Risk} = \text{Consequence} \times \text{Likelihood}$$

Identify High Consequence Events

- Consequence to the business, economy, environment
 - Not high consequence to your ICS or IT security program
- Good News ... this is likely already done
 - Process Hazards Analysis (PHA)
 - Safety or Protection Studies
 - Risk Management activities

Second biggest way IT and IT Security
can help ICS and the process Is:

Identify how a cyber attack or cyber incident
could cause a high consequence event

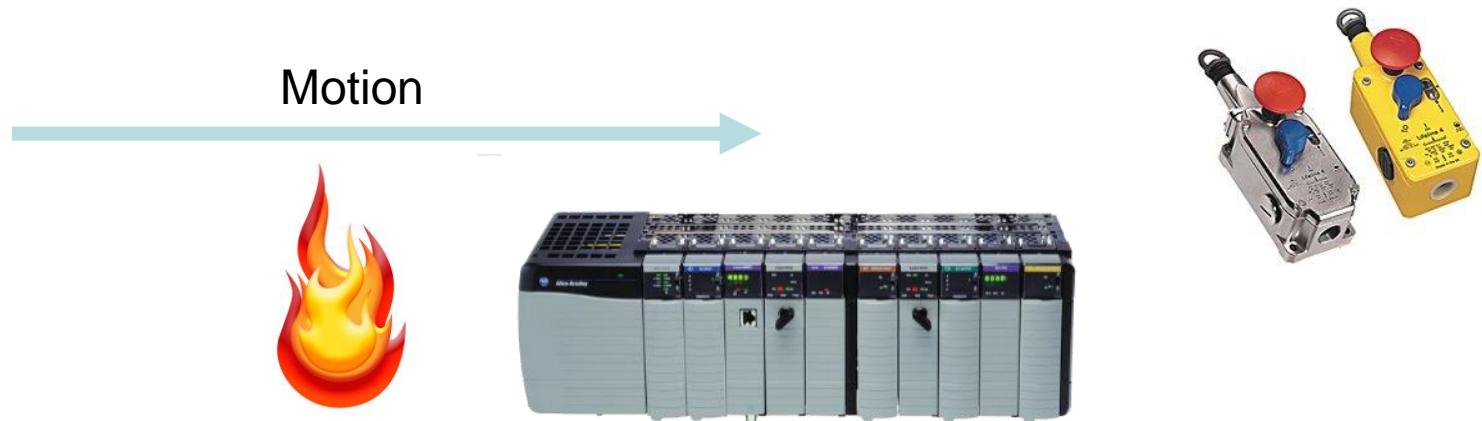
Adding Cyber to the PHA / Safety Analysis



$$\text{Risk} = \text{Consequence} \times \text{Likelihood}$$



Huge Consequence Reduction



Is it possible for an ICS cyber attack
to cause a catastrophic event for your company?

Can you reduce the consequence?

Then know the attack paths, security controls
and work the risk management process

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