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PUBLIC SAFETY & HOMELAND SECURITY



Industrial Control System Cyber Security

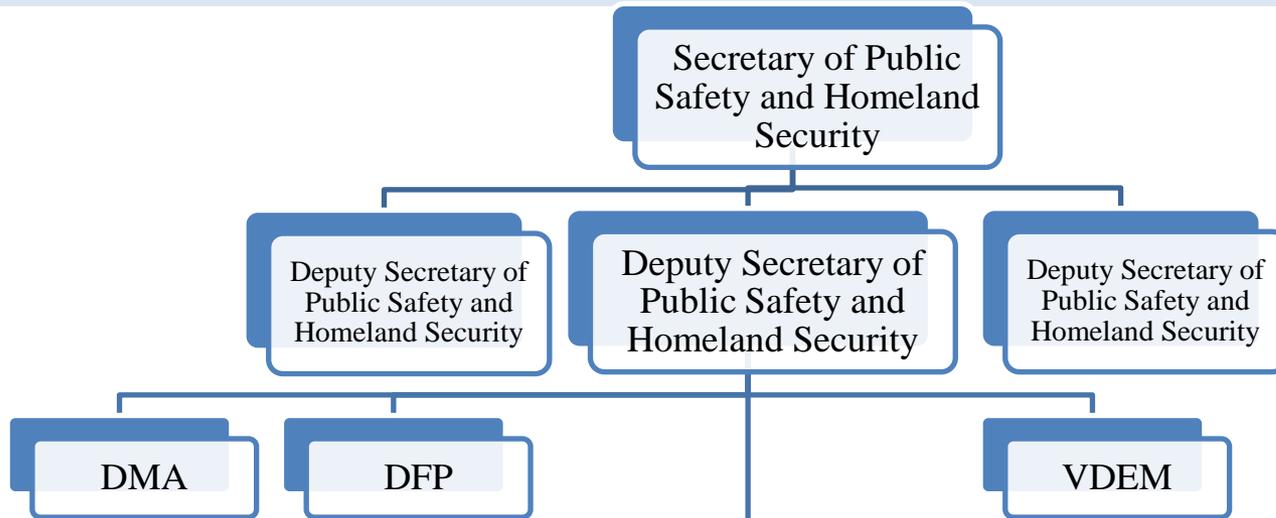
Isaac Janak

Cyber Security PM

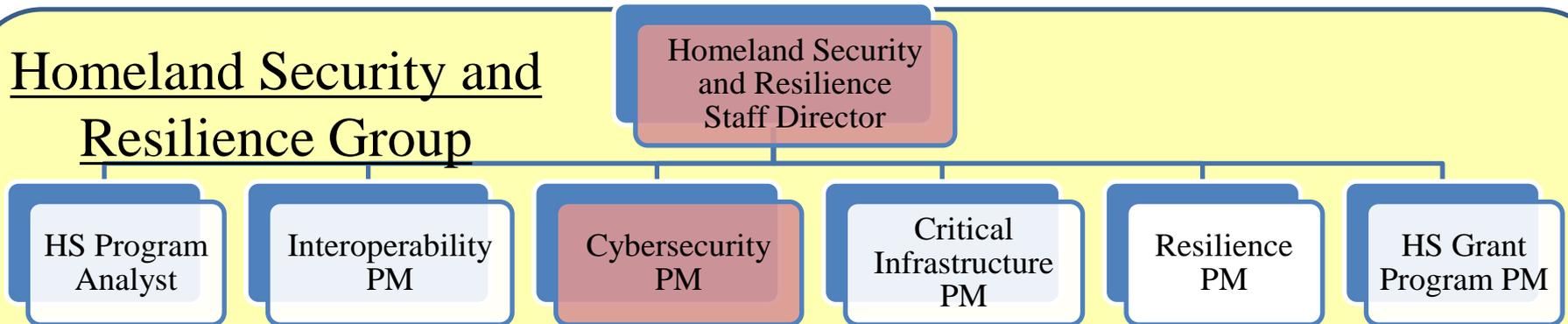
Office of Public Safety & Homeland Security



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Homeland Security and Resilience Group



PM-Program Manager



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Breaches, breaches, breaches...





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“Cyber-Physical” Systems

- Evident in most critical infrastructure sectors
- The number of these systems are increasing not decreasing

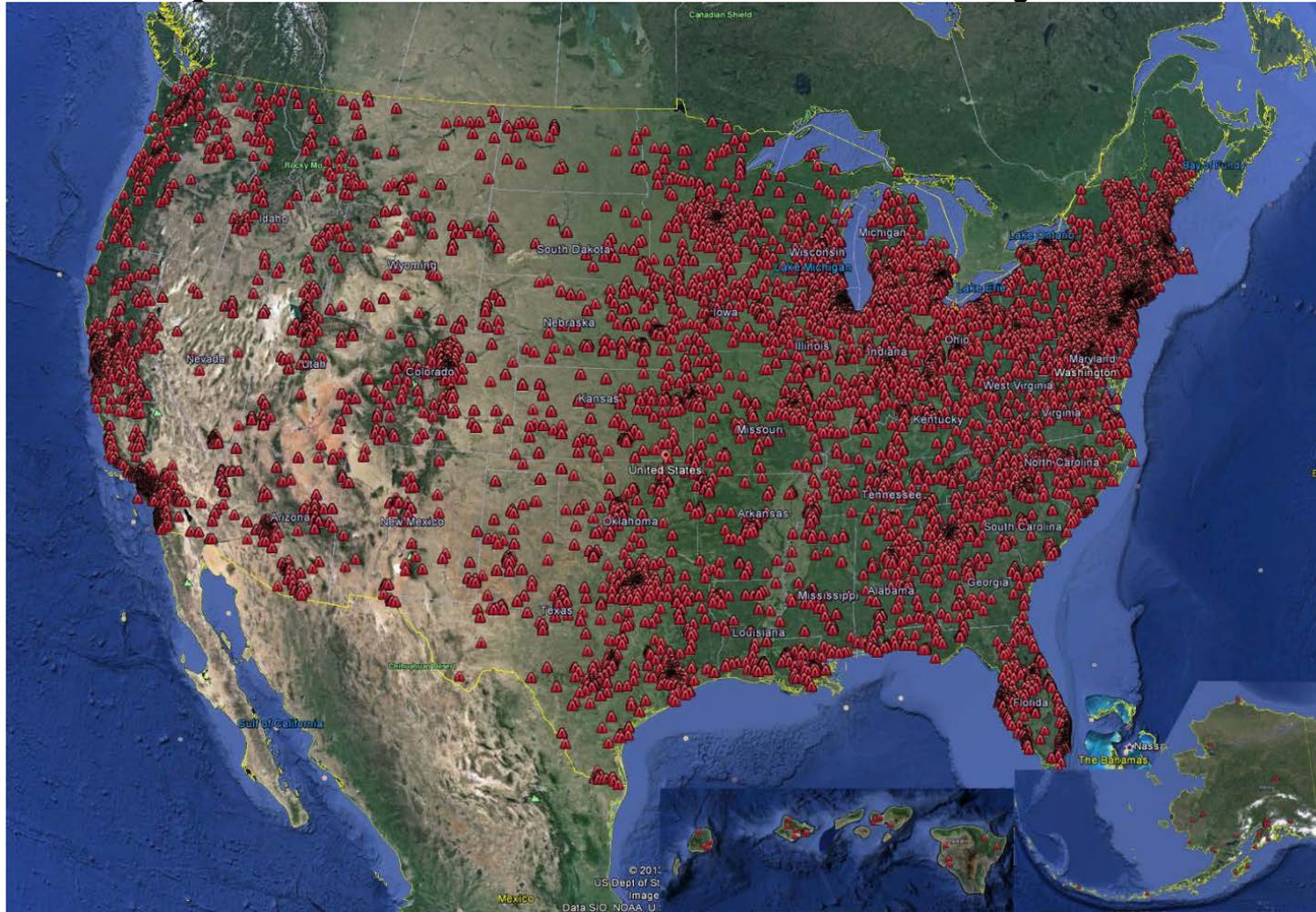




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Exposed Industrial Control Systems

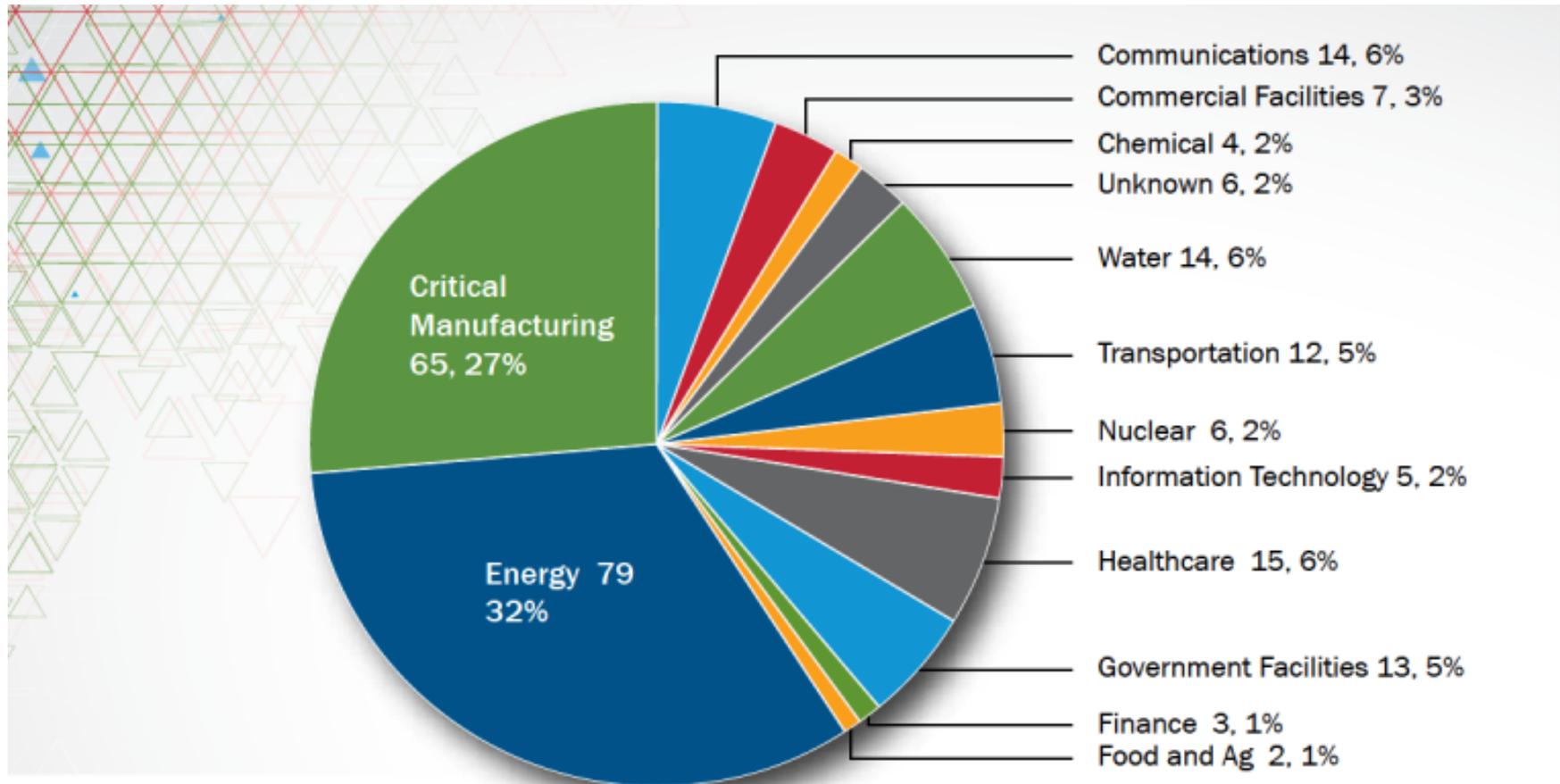




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The Threat



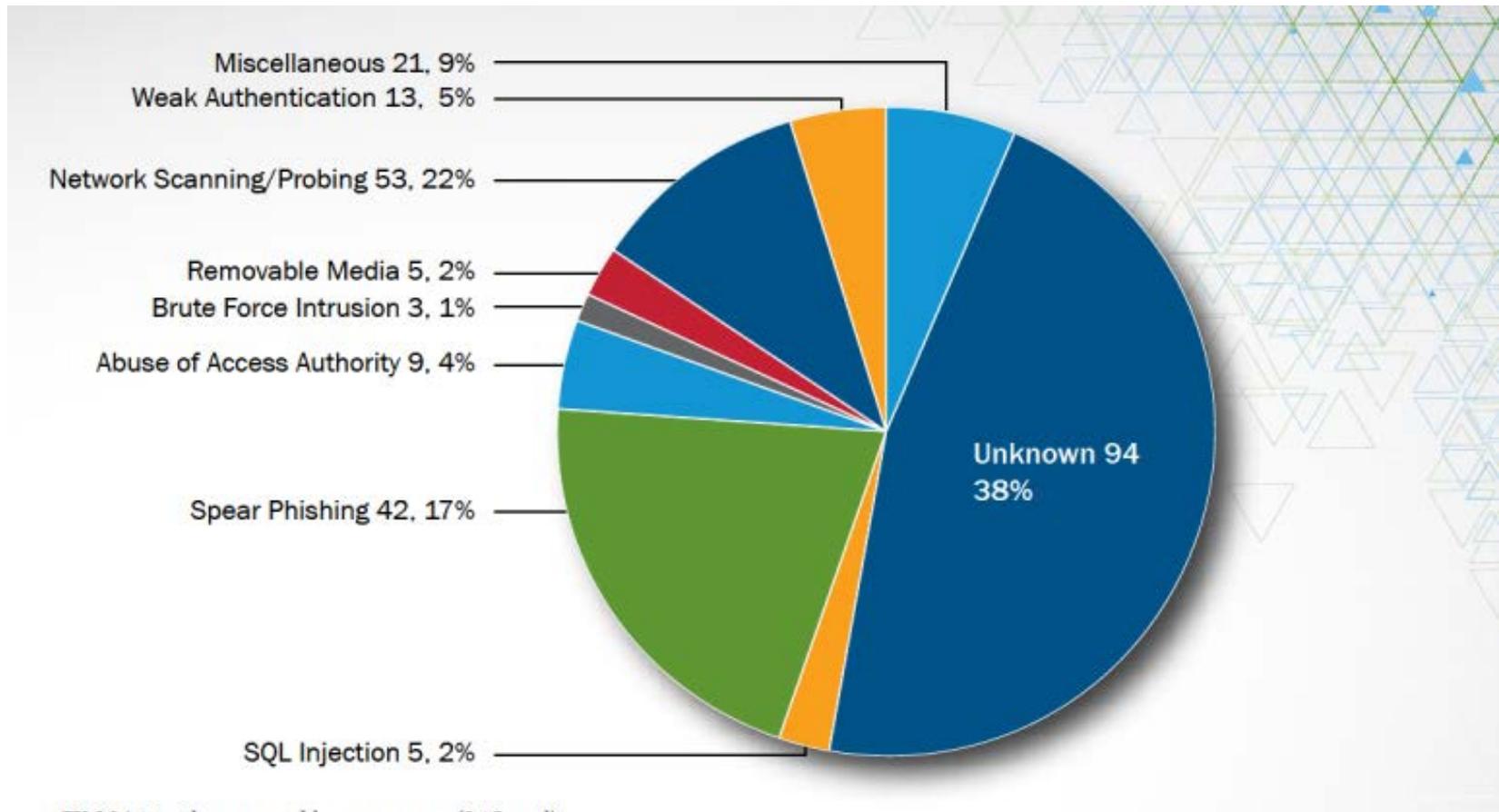
FY 2014 incidents reported by sector (245 total).



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Vectors of Attack



FY 2014 incidents reported by access vector (245 total).



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What we are doing about it...



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Virginia Cyber Security Commission



- Policy advisory panel
- Contained 29 recommendations
 - Critical Infrastructure
 - Crime
 - Education
 - Economic Development
 - Public Awareness
- www.cyberva.virginia.gov



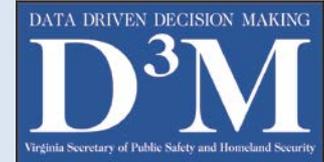
**Commonwealth of Virginia
Cyber Security Commission**

First Report, August 2015

"Threats and Opportunities"



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Virginia National Guard Network Security Assessments

- Establishes an enduring cyber assessment mission
 - Fully staffed by National Guard personnel
- Primary concern state & local infrastructure
- Commences December/January



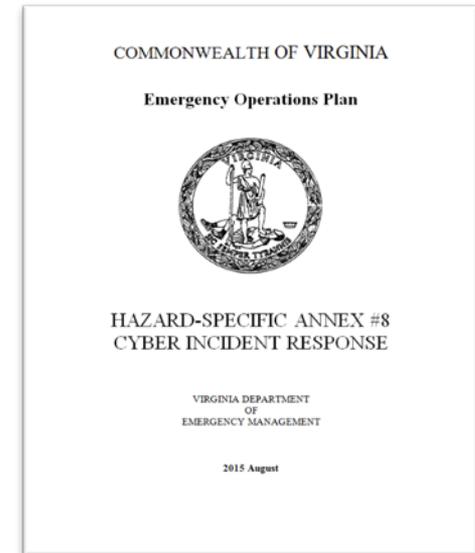


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Virginia Cyber Response Working Group

- Multi-agency/stakeholder effort
- Cyber Incident Response Annex
- State ICS Cyber Security Initiative
 - Integrated initiative with DHS
 - Seeking additional partners including industry





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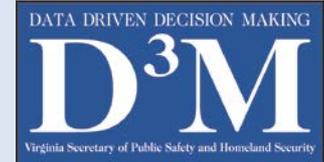
DHS Resources

- Office of Cybersecurity and Communications
 - US-CERT www.us-cert.gov
 - C3 Voluntary Program
<http://www.dhs.gov/ccubedvp>
 - ICS-CERT www.ics-cert.us-cert.gov
 - Tools & Services





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Critical Infrastructure FOIA Exemptions

- Improves information sharing with critical infrastructure providers
 - Strengthen partnership and share timely, actionable information
- Specific coverages for security information
 - Cyber security threat and vulnerability information





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Future Opportunities

- Establish Virginia ISAO
- Leverage NIST Cyber Security Framework
- Continue to develop partnerships



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Questions?