

Consequence-Driven Cyber-Informed Engineering (CCE): AchievingNational & International Recognition

July 2019

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Changing the World's Energy Future



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Prepared for the U.S. Department of Energy Under DOE Idaho Operations Office Contract DE-AC07-05ID14517

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N&HS Directorate Andy Bochman, Senior Grid Strategist



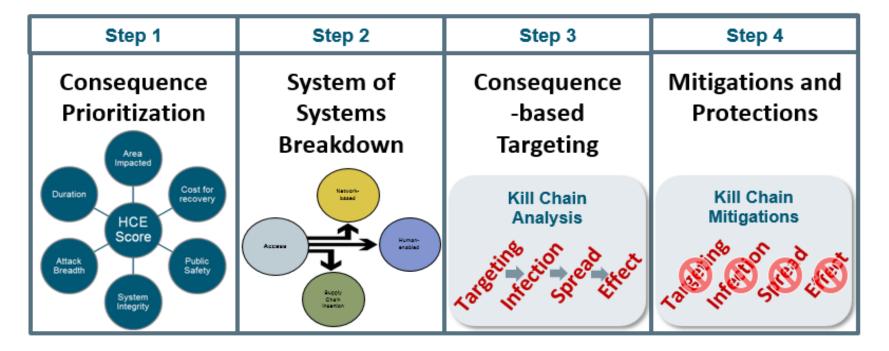






N&HS Strategic Objective: Establish INL-branded Cybersecurity Engineering Methodologies

Develop and deploy Consequence-driven Cyber-informed Engineering to drive culture change and priorities for investments in risk reduction and solution R&D



INL is successfully communicating the relevance and value of deploying CCE across the nation, around the globe, and across multiple critical infrastructure sectors.

CCE has impact wherever and whenever it is practiced.



CCE - Communications, Awareness, & Leadership Recognition

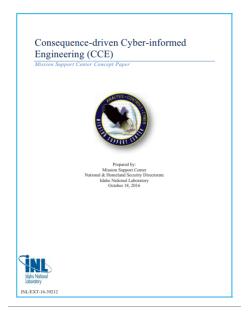
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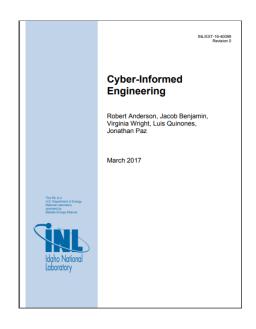
2019 To-Date

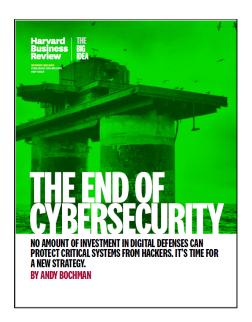
- RSA
- S4
- SANS ICS Summit
- Nat'l Academy of Engineers
- NSA SCADA Days

2020 - Planned

- CCE Book
- CCE Patent











CCE with Andy Bochman of INL





US Influence and Applications (Sectors, Government)

Electric

- Florida Power & Light
- CPS Energy
- Dairyland Coop

Water

- Massachusetts
- California
- Hawaii

DOE

CESER, NNSA (via Sandia)

Other US Government

• DHS, DoD, NSA, EPA, AWWA





International Influence and Applications

- France International Thermonuclear Experimental Reactor (ITER)
 • United Kingdom – Atomic
- Energy Authority Germany BSI (Federal Office for Information Security) & Chemical Sector
 • Australia - Rail
- Japan Ministry of Economy, Trade and Industry, and
- Largest Oil Company
 Spain Basque Cyber Security Centre



