Hyper-Integrated Causal Analysis

Light Years Ahead of the Competition



BlueDragon Nation Monthly Forum

February 18, 2021 3pm EST



BlueDragon HCA®

SOLVE A PROBLEM.

MAKE A DIFFERENCE.

CHANGE THE WORLD.





Introductions



Rob De La Espriella Creator, BlueDragon HCA



Sherry Gevedon, PhD Genius Lab, BlueDragon Partner



Bill Toth, PhD Oak Ridge National Lab



Andrew Price BlueDragon Sr. Marketing Officer



Ken Guralnik BlueDragon Training Consultant



Joy Worrell BlueDragon Director of PR/Comm





William J. Toth, PhD Group Lead, Facility and Systems Security Nuclear Nonproliferation Division Oak Ridge National Laboratory





Jesse Kelly

QUALITY MANAGEMENT OFFICE

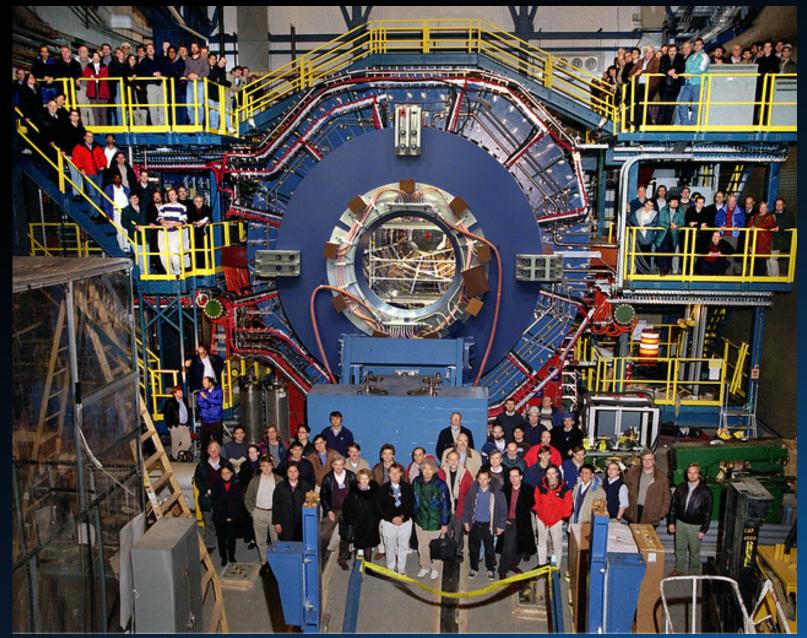
FACILITIES & OPERATIONS

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Today's Guest Presentation: Tracy Bradley



The Defensive Posture

- You versus me feeling
- I am going to get blamed for this
- I am uncomfortable here



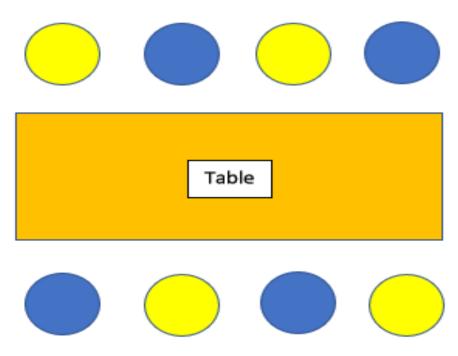
The Interview Process (Facilitated Causal Analysis)

- Leaving behind the old way of thinking
- Perception is reality for the human mind
- Need to relax the interviewees

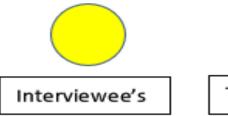


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The Seating Chart







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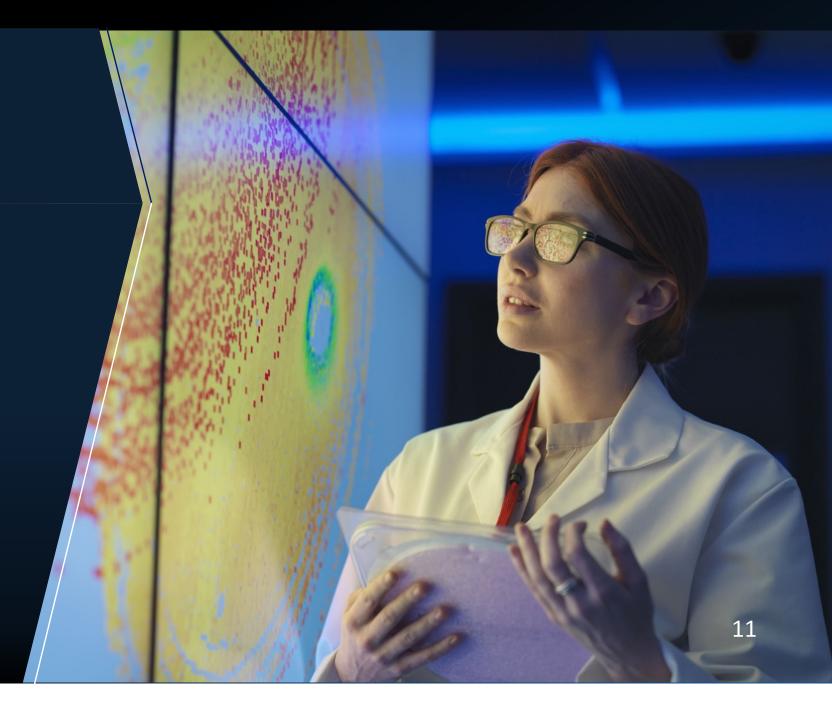


Feburay Forum Topic

Understand how BlueDragon HCA is integral to a Risk Management System.



What is Risk Management, and what does your organization do to proactively manage risk and prevent significant events from occurring?





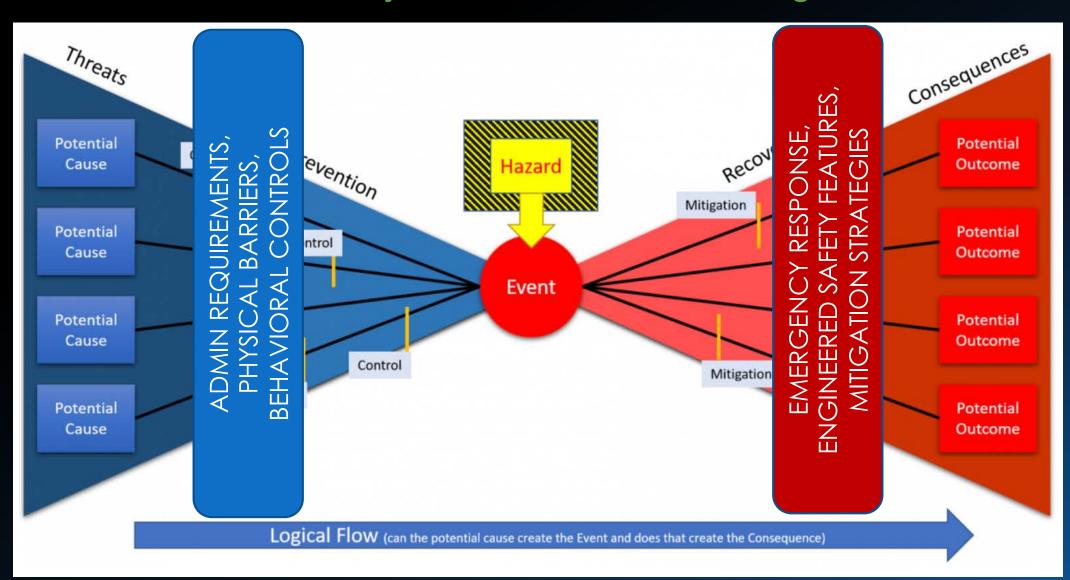


Risk Management:

- The process of identifying, assessing and controlling potential risks and threats to an organization's capital and earnings.
- These threats or risks could stem from strategic management errors, accidents, cyber attacks, natural disasters, etc.
- Policies and procedures are put in place to monitor, avoid or minimize the probability or impact of unfortunate events.

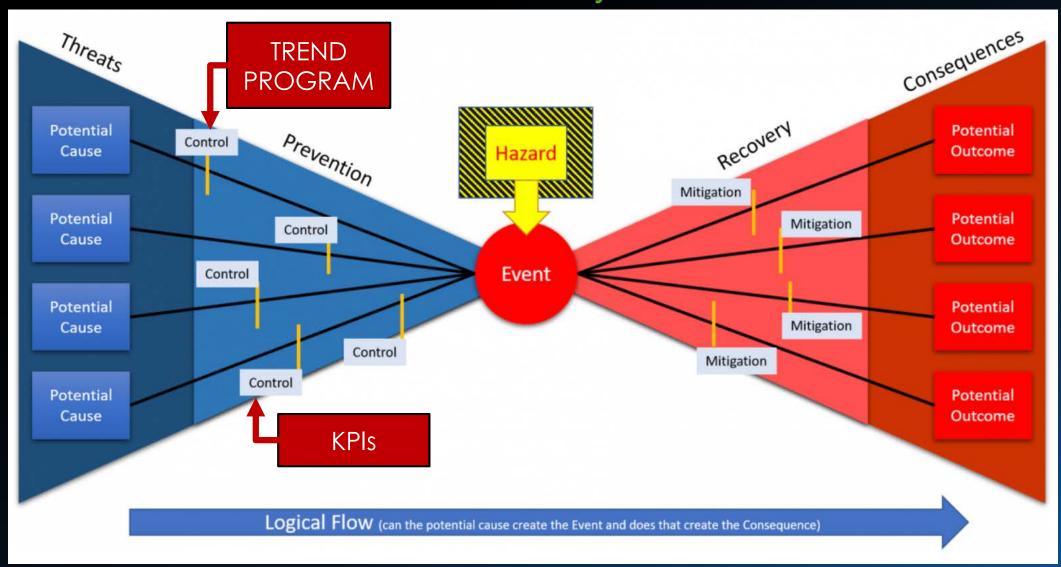


Bow Tie Analysis Model for Assessing Risks



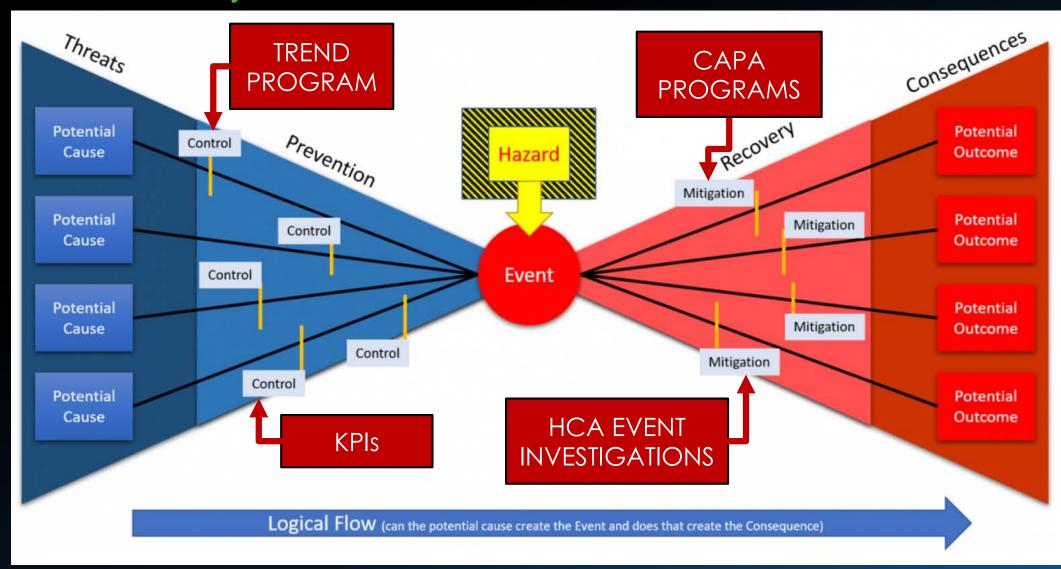


Used proactively, Bluedragon HCA can ID latent weaknesses before they cause events





Used reactively, Bluedragon HCA can quickly and accurately ID the latent weaknesses that caused the events







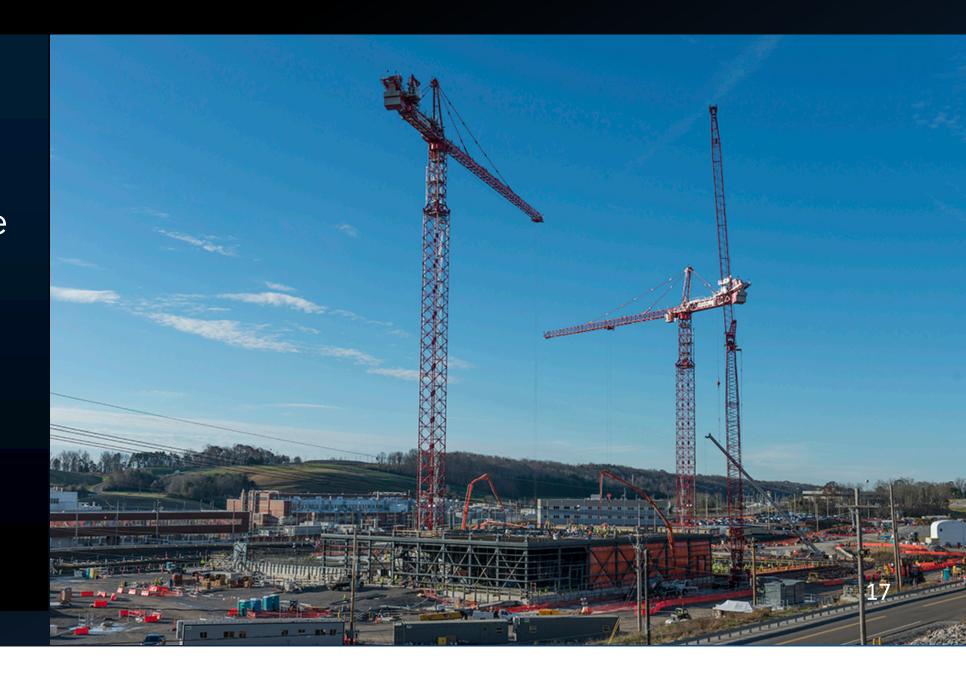
Limitations of Risk Assessment Models:

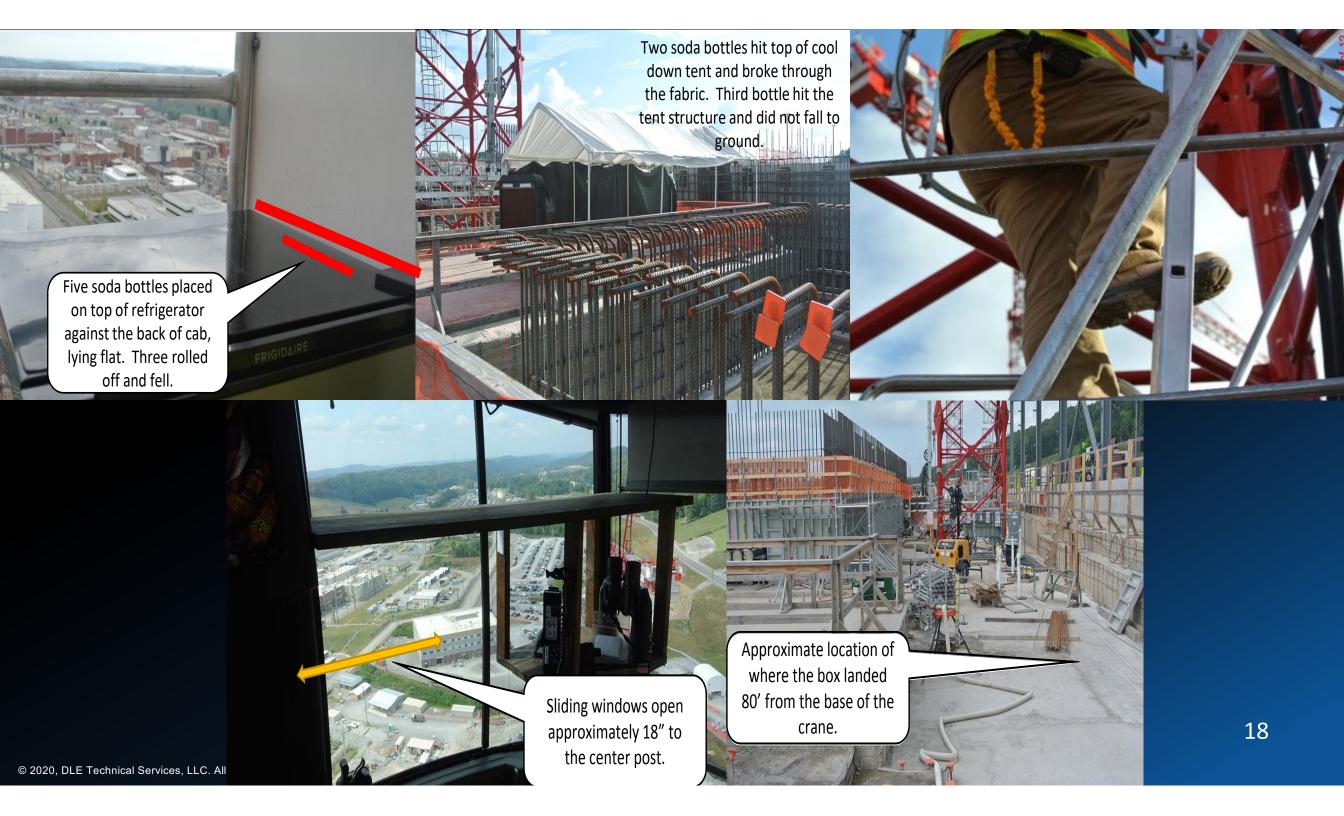
- Traditional methods like the Bow Tie Model and FMEA rely on a finite list of possible risks and causes.
- Traditional methods have done little to stem the tide of recurring events.
 - Human-centric problems have infinite number of variables and possible causes, requiring a more rigorous methodology like HCA to analyze.



Preventive HCA:

HCA was used to address a high-risk situation; a negative trend of dropped objects from 300 feet during construction of the UPF at ORNL.





Details:

- 30+ procedures/requirements
- 60+ lines of inquiry
- 8 causal analysis sessions
- 50+ SMEs were interviewed from 15 organizations

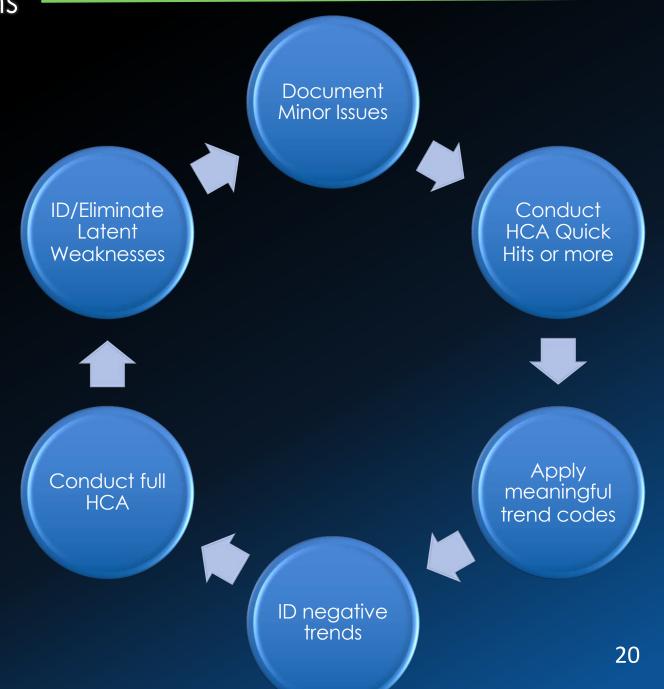
Level of Effort:

- 4 RCA team members
- No SMEs on the team
- 3.5 days to complete the analysis



Preventive use of HCA in a Risk Management System:

- Shift your human-centric problemsolving efforts from reactive to proactive.
- Use HCA for selected SL-C and B investigations to identify as many latent weaknesses as possible.
- Trend the causes and identify negative trends, allowing us to ID latent weaknesses before they can cause bigger issues.







BlueDragon HCA in a Risk Management System:



BlueDragon HCA is integral to Risk Management and is most effective when used as a preventive measure in conjunction with trending and analysis programs. It is also the most effective method to identify latent weaknesses after an event.

What you can you do right now:

- Review your Risk Management Guidelines.
- Evaluate the preventive measures and determine if the use of HCA for lower-level events can be used to provide better trend codes for the trending and analysis program.
- Evaluate mitigation strategies and determine if your organization is taking advantage of incidents and other events to identify as many latent weaknesses as possible using BlueDragon HCA.



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Q&A



