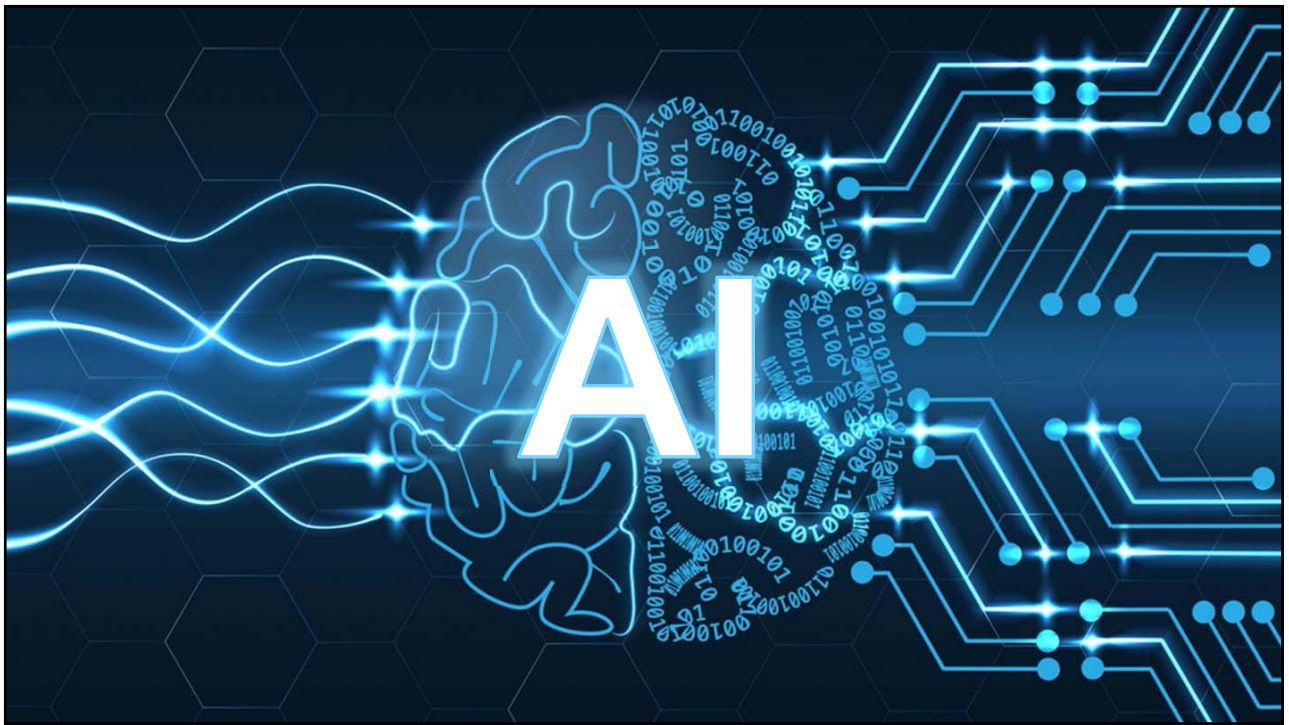


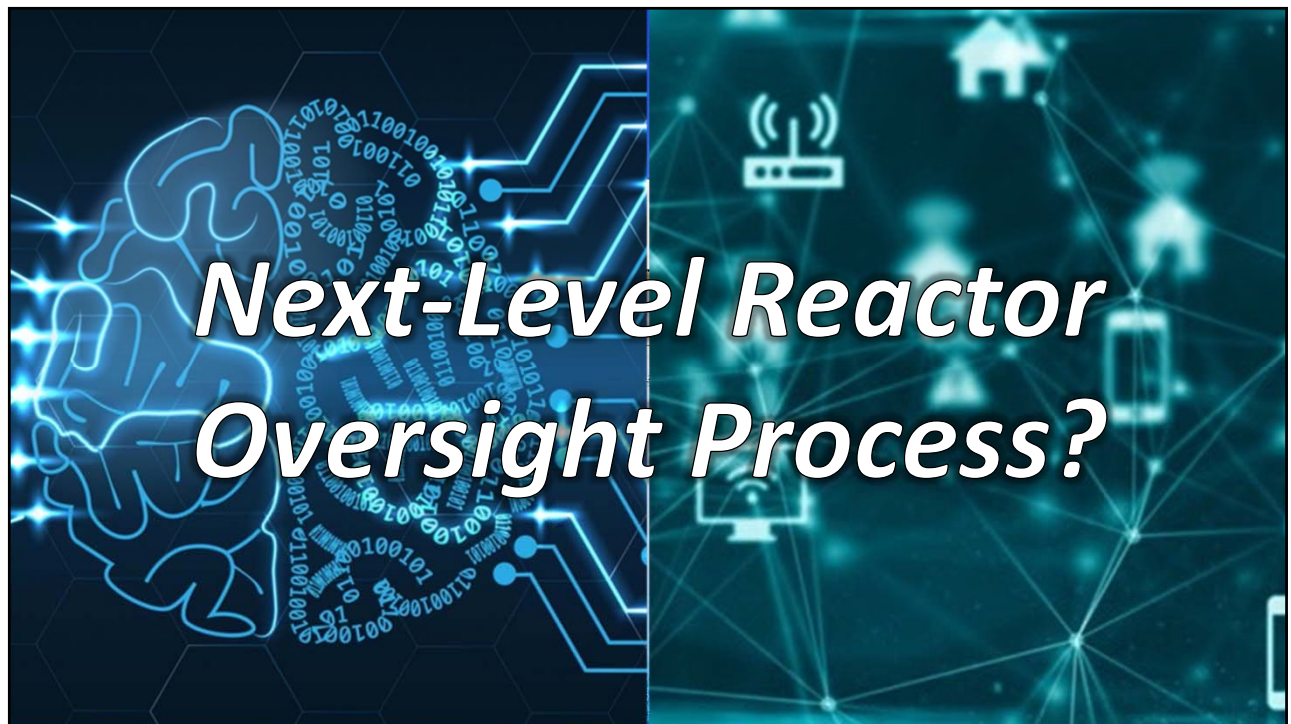
# The Reactor Oversight Process at 20: A Look Forward

Ho Nieh, NRR  
32<sup>nd</sup> NRC Regulatory Information Conference  
Session T4  
March 10, 2020





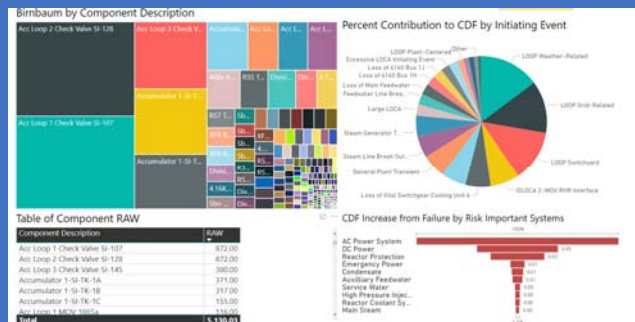




## Site-Specific Operating Experience Profile



## Site-Specific Risk Insights from Standardized Plant Analysis Risk Model



**Data-driven, risk-informed inspection samples**

## Decision Cloud Visualizes Relations among Decisions

- Red dot: first decision made on Olkiluoto 3 automation architecture
- Green dots: decisions made in 2019

**Digital technology may  
ease the search and  
navigation of a plant's  
licensing basis**





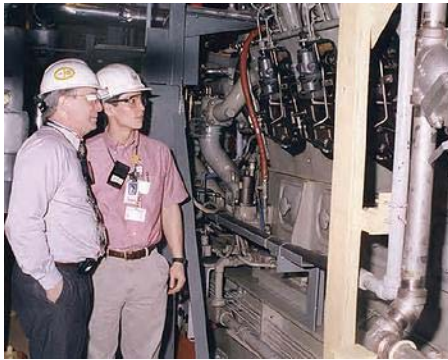




**Non-light-water advanced reactors  
and  
light-water small modular reactors:  
What would their inspection programs  
look like?**

**New technologies, new paradigms**

*Some*  
**The future of inspection?**



**1997**



**20??**

**The NRC  
must be  
proactive**



Cybersecurity



Pilot tests through public/private  
partnerships



Infrastructure



Mindset and culture/“Phigital”