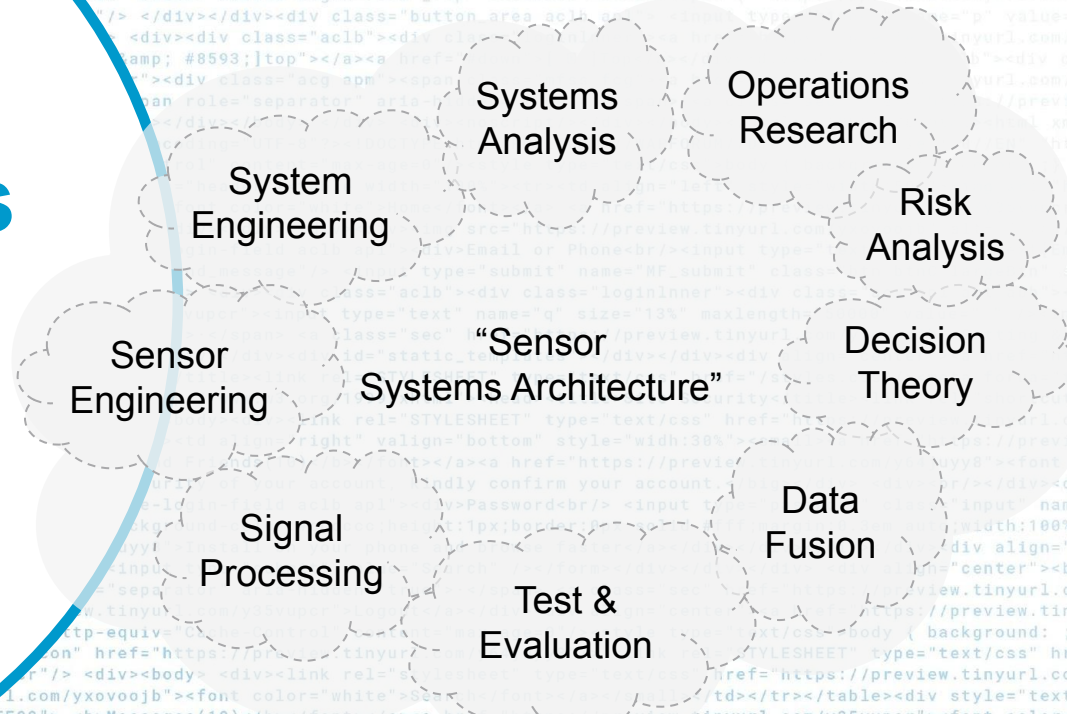




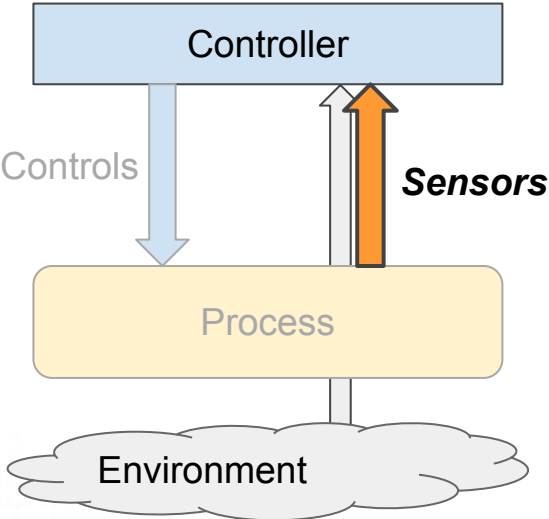
Complementing STPA with Sensor Systems Architecture

Kristin Nelson-Patel
Lead Architect, Sensing Team
Akamai InfoSec

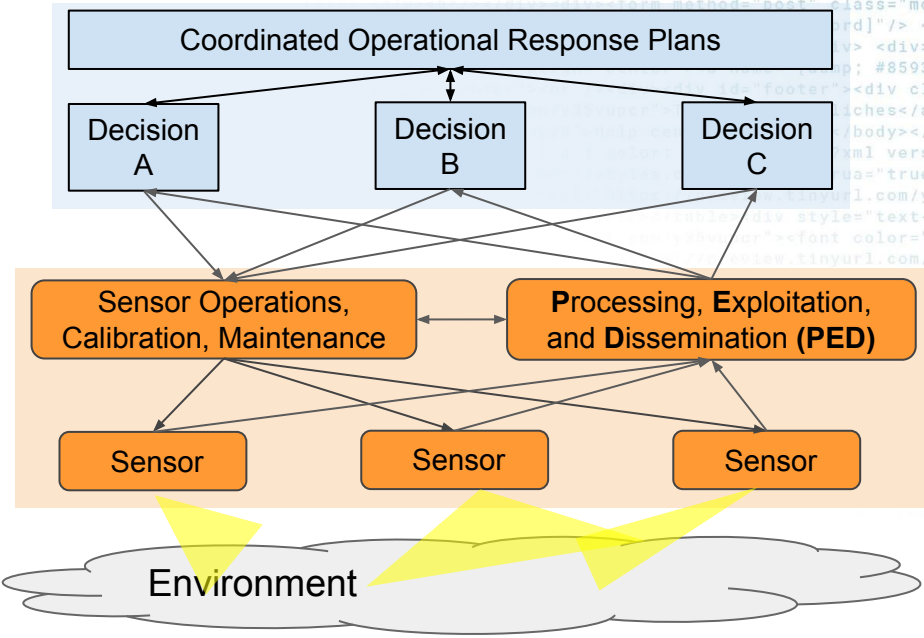
6.20.2021



The Theoretical Connection



- Every sensor has performance limits
- Performance depends on the environment
- Most real world applications need more than one sensor and some support functions for confidence in the outputs

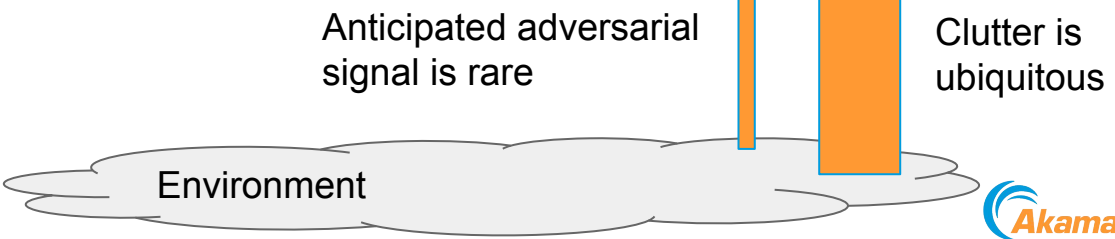
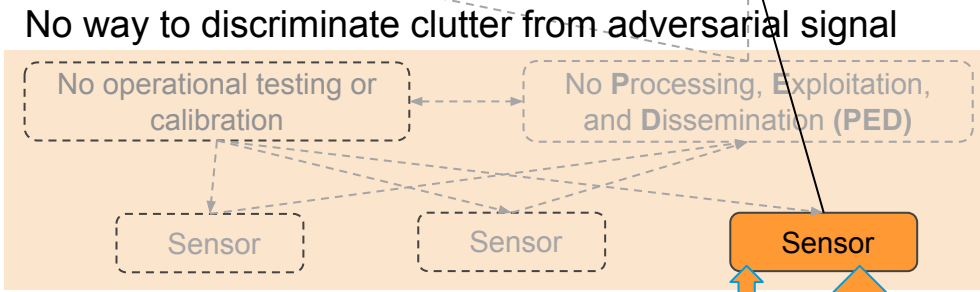
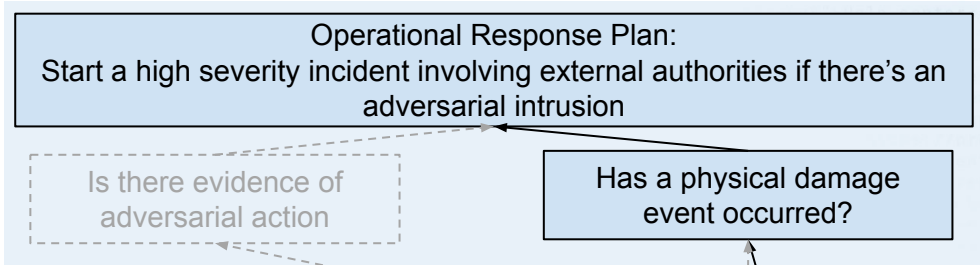
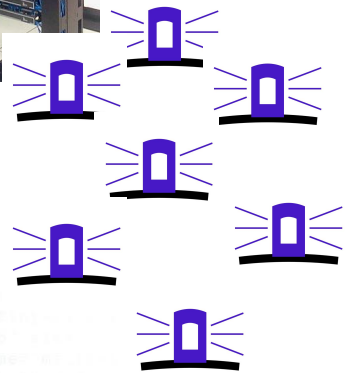


Useful Sensor Concepts

- Field of View*
- Field of Regard*
- Revisit Interval*
- Duty Cycle*
- Resolution*
- Sensitivity*
- Noise*
- Clutter discrimination*



Example: Physical Intrusion Sensor Hazards



**The Sensing Team exists to invent, test,
and develop systems that improve
Akamai's ability to monitor network
security at scale across its global assets.**



*Kristin Nelson-Patel
Lead Architect, Sensing Team Akamai
InfoSec*

knelsonp@akamai.com

[*linkedin.com/in/kristin-nelson-patel*](https://www.linkedin.com/in/kristin-nelson-patel)



Akamai