Insider Risk Control Validation

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Document Markings

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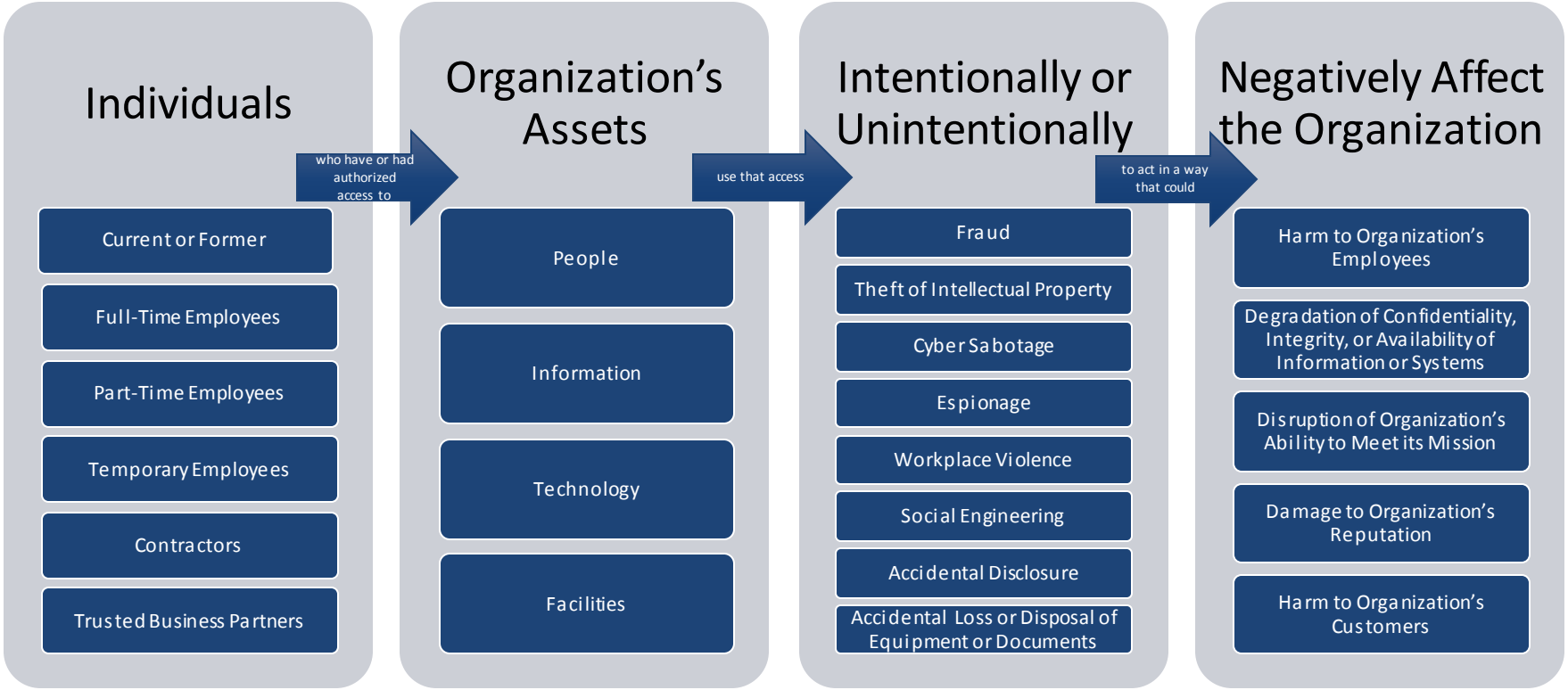
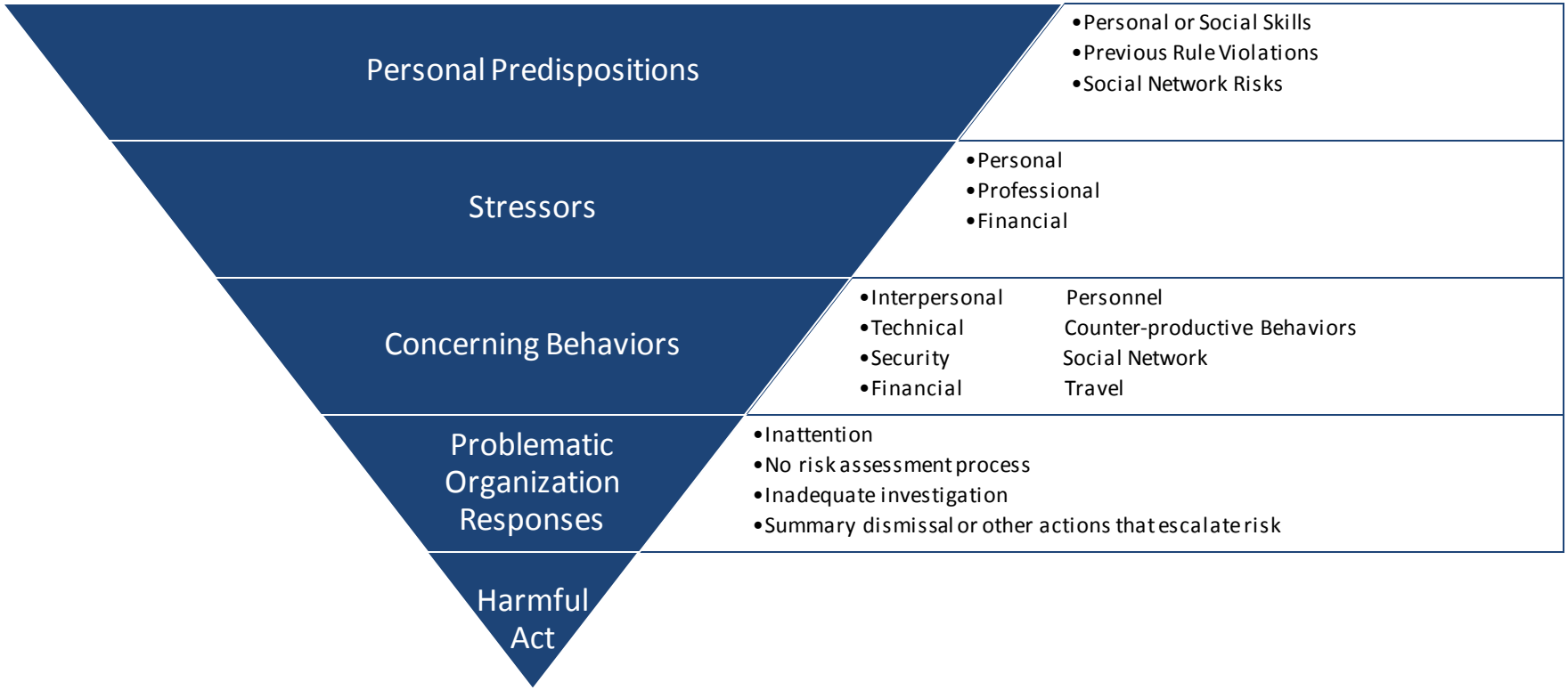
Scope of the Insider Threat



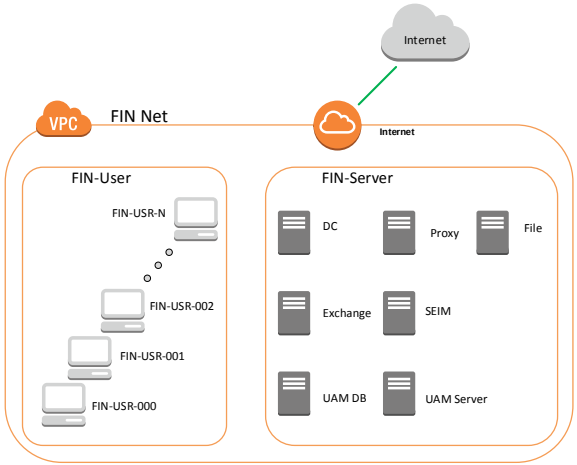
Critical Path to Insider Threat



Adapted from Shaw, Eric, and Laura Sellers. "Application of the Critical-Path Method to Evaluate Insider Risks." *Studies in Intelligence* 59.2 (Extracts, June 2015)

Technical Control Validation

- What's Needed:
  - Simulated infrastructure
    - Open-source tools such as GreyBox and TopGen
    - Infrastructure-as-code tools including Terraform, Ansible, and Packer facilitate reuse and automation
  - Simulated user activity
    - Open-source tools such as GHOSTS
  - Realism
    - Base rates of occurrence
    - Incident data

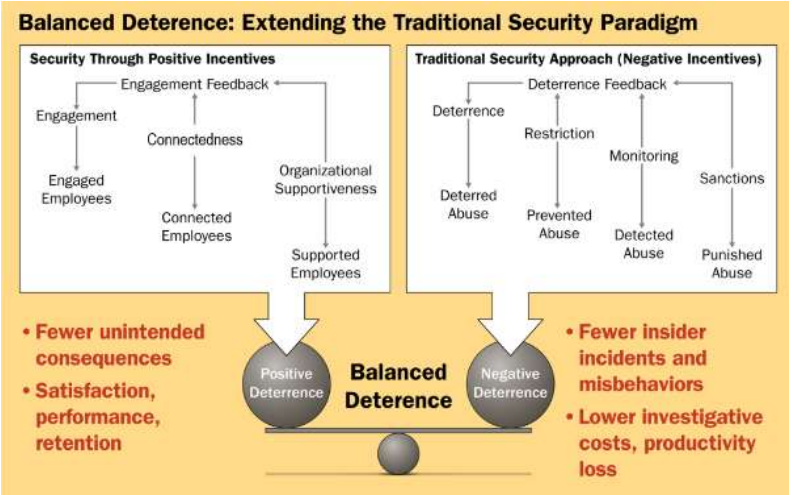


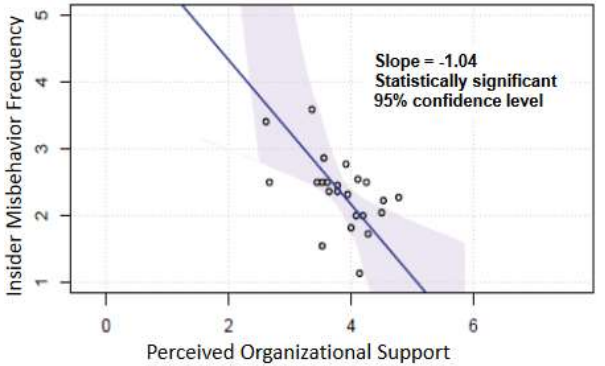

```
resource "aws_instance" "this" {
  ami                    = data.aws_ami.this.id
  instance_type          = var.dc_instance_type
  iam_instance_profile   = "FIN SSM Role"
  private_ip             = "10.0.40.20"
  subnet_id              = var.subnets
  vpc_security_group_ids = var.security_groups

  tags = {
    Terraform   = "true"
    Name        = "FIN DC"
    Environment = "FIN Test"
  }
}
```

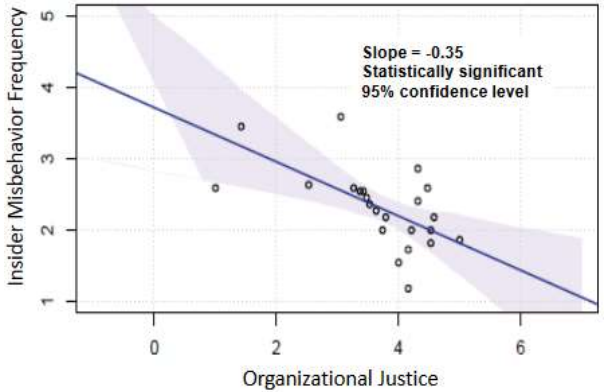
Non-Technical Control Validation

What's Needed:

- Modeling and simulation
- Proxy measures
- Pilots







Presenter Contact Information / For More Information

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https://insights.sei.cmu.edu/blog/functional-requirements-for-insider-threat-tool-testing

https://resources.sei.cmu.edu/library/asset-view.cfm?assetid=484917

https://www.sei.cmu.edu/our-work/insider-threat/index.cfm