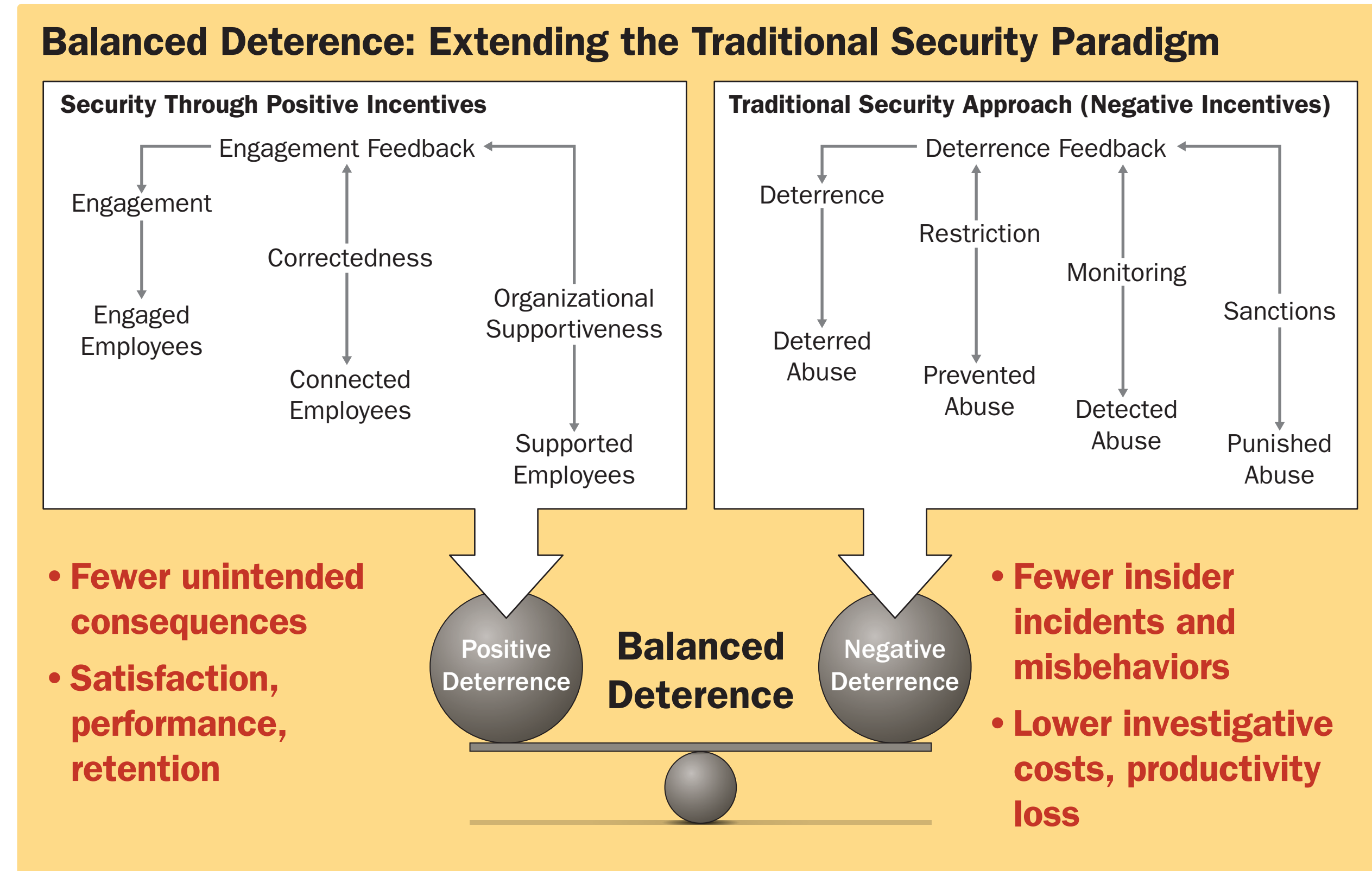
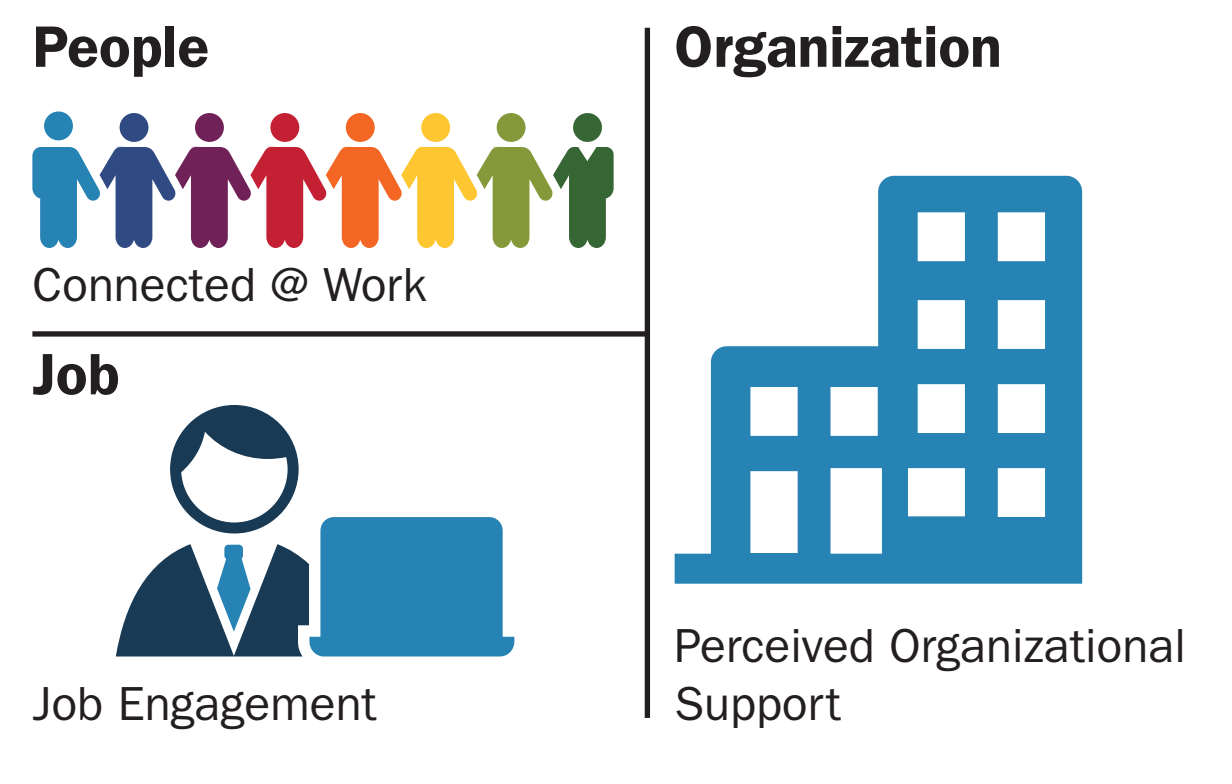
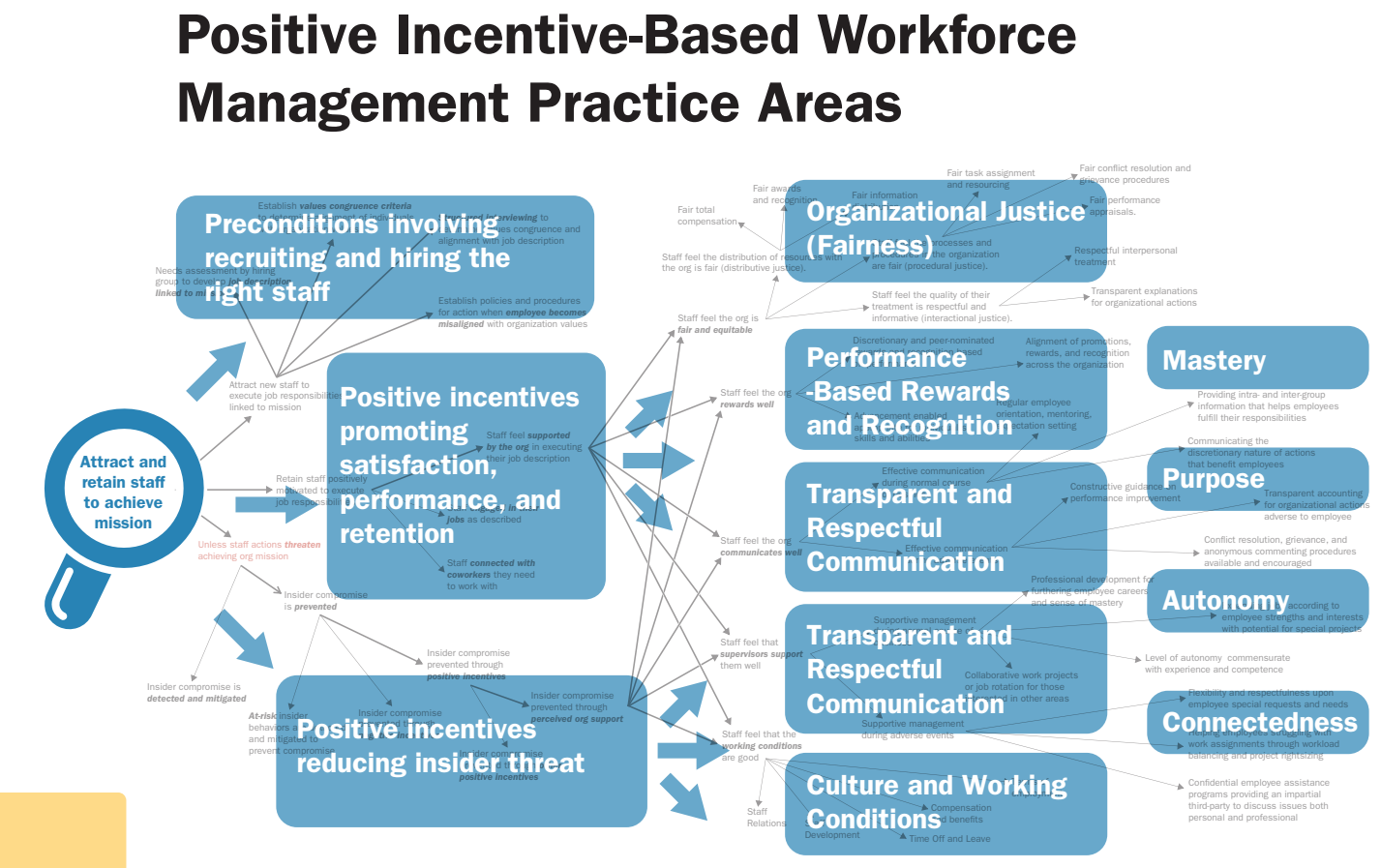
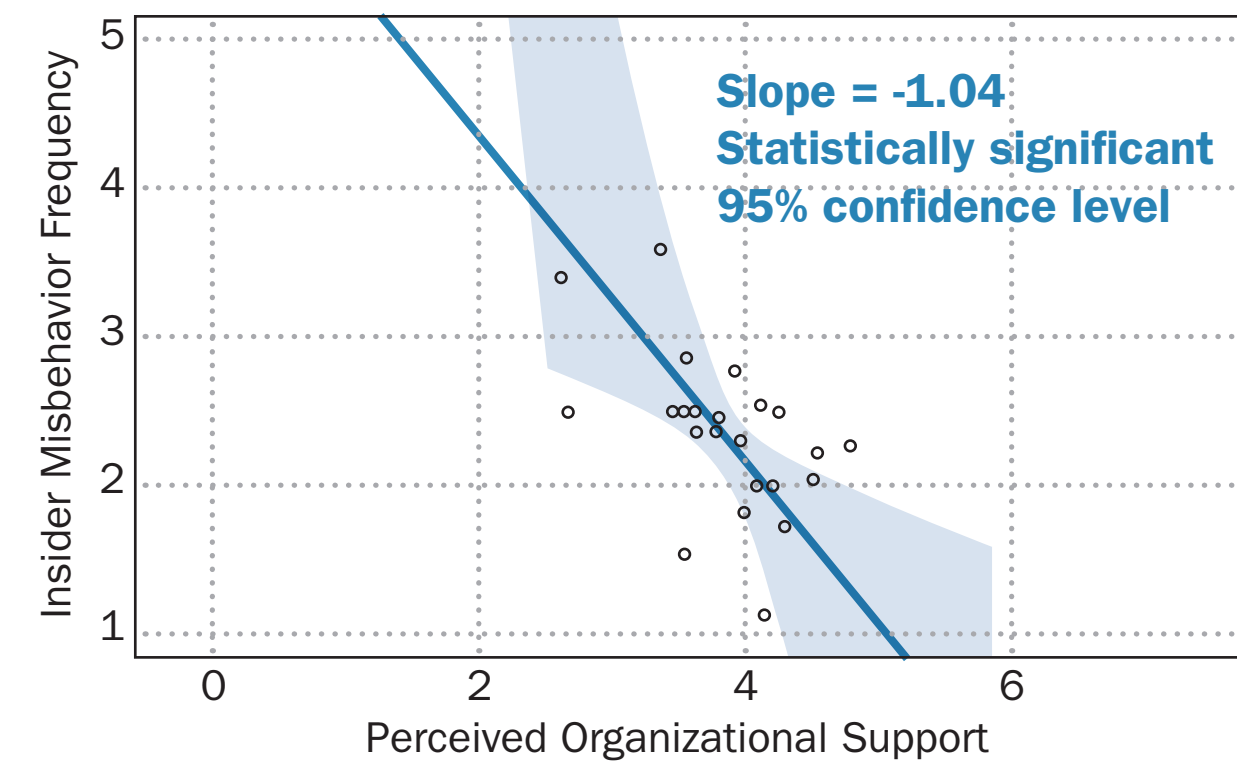


Reducing Insider Threat through Positive Incentives

Extending the Traditional Insider Threat Security Paradigm

Empirical analysis shows insider alienation and the potential of positive incentives for reducing insider threat baseline. A simulation model illustrates benefits in terms of fewer incidents and lower costs. Balanced deterrence is key!

- Preliminary Analysis Conducted:**
- Case analysis shows organization support foundational
 - Insider threat program survey shows negative correlation between organization support, insider threat



- An Emerging Physics of Employee Dissatisfaction and Insider Threat**
- System Dynamics model of how flow of dissatisfaction translates into incidents
 - Empirical analysis providing structural validation of model
 - Annual data on USG employee attitudes grounds simulation model
 - Sensitivity simulation captures uncertainty

- Future Research and Transition:**
- Theory: Experiment to determine cause-effect relationship between positive incentives, threat
 - Adoption: Transition model for organization to go from current state to state with appropriate mix of positive and negative incentives
 - Technology: Detection of insider alienation by identifying at-risk behaviors and indicative changes in networks of coworker relations

Key: A stock (grouping) A flow between stocks A direct (positive) influence of one variable on another

