The Advantages of Continuous Vetting:
Securing Radioactive Sources in the Age of AI

Moving from Static Trust to Dynamic Resilience

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Why 'Hire and Forget' Is No Longer Enough

- Traditional reliability = snapshot background check
  - Periodic reinvestigations every 5–10 years
  - Human risk factors change over time
  - Digital & AI-driven threats evolve daily
  - Static tools cannot protect dynamic assets

The Digital Exhaust Problem

• Employees leave digital footprints (social media, forums, public records)

- • Attackers use public data to profile vulnerabilities

- • Financial stress, grievances, behavioral signals

- • Defenders must see what adversaries already see

- • Continuous vetting uses public data ethically for protection

AI as an Amplifier

- AI crafts realistic phishing emails
  - Deepfake audio & video impersonation
  - 'Ghost employees' in remote hiring
  - AI leverages digital exhaust for social engineering
  - Identity verification must be continuous

Introducing Continuous Vetting

Framework: Hire → Monitor → Analyze → Intervene → Repeat

- Automated risk monitoring
- Ethical oversight
- Near real-time risk indicators
- Trust + Continuous Verification

Advantage 1: From Snapshot to Live Feed

- Detect behavioral drift
    - Identify financial distress or radicalization signals
    - Early intervention (EAP, wellness checks)
    - Adjust access before incidents occur

Advantage 2: Spotting the Anomaly

- User & Entity Behavior Analytics (UEBA)
  - Learn baseline behavior patterns
  - Flag abnormal access times or data downloads
  - Detect stolen credentials misuse

Advantage 3: Countering AI-Enhanced Social Engineering

- Monitor consistency over time
  - Detect non-human behavioral patterns
  - Identify deepfake or AI-driven anomalies
  - Continuous identity validation

Advantage 4: Proportional & Ethical Security

- Risk-based monitoring
  - Focus on high-risk actions/assets
  - Avoid blanket surveillance
  - Transparency with workforce
  - Conduct bias audits

Advantage 5: The Holistic View

- Break down HR, IT, Security silos
    - Fuse behavioral, digital, and HR indicators
    - Unified risk dashboard
    - Connect risk signals for faster decisions

The Path Forward

1. Dynamic risk monitoring

2. Proactive anomaly detection

3. AI-era identity verification

4. Ethical & proportional oversight

5. Holistic risk visibility

   – Static trust is a vulnerability.
   – Continuous trust is resilience.

Q&A / Discussion:

Thank you for your attention.

I'd now like to open the floor to questions. Please use the chat/Q&A function. Let's discuss how we can start implementing these principles in your organizations in our counties .