

Data Breaches and the Insider Threat: What to Do?

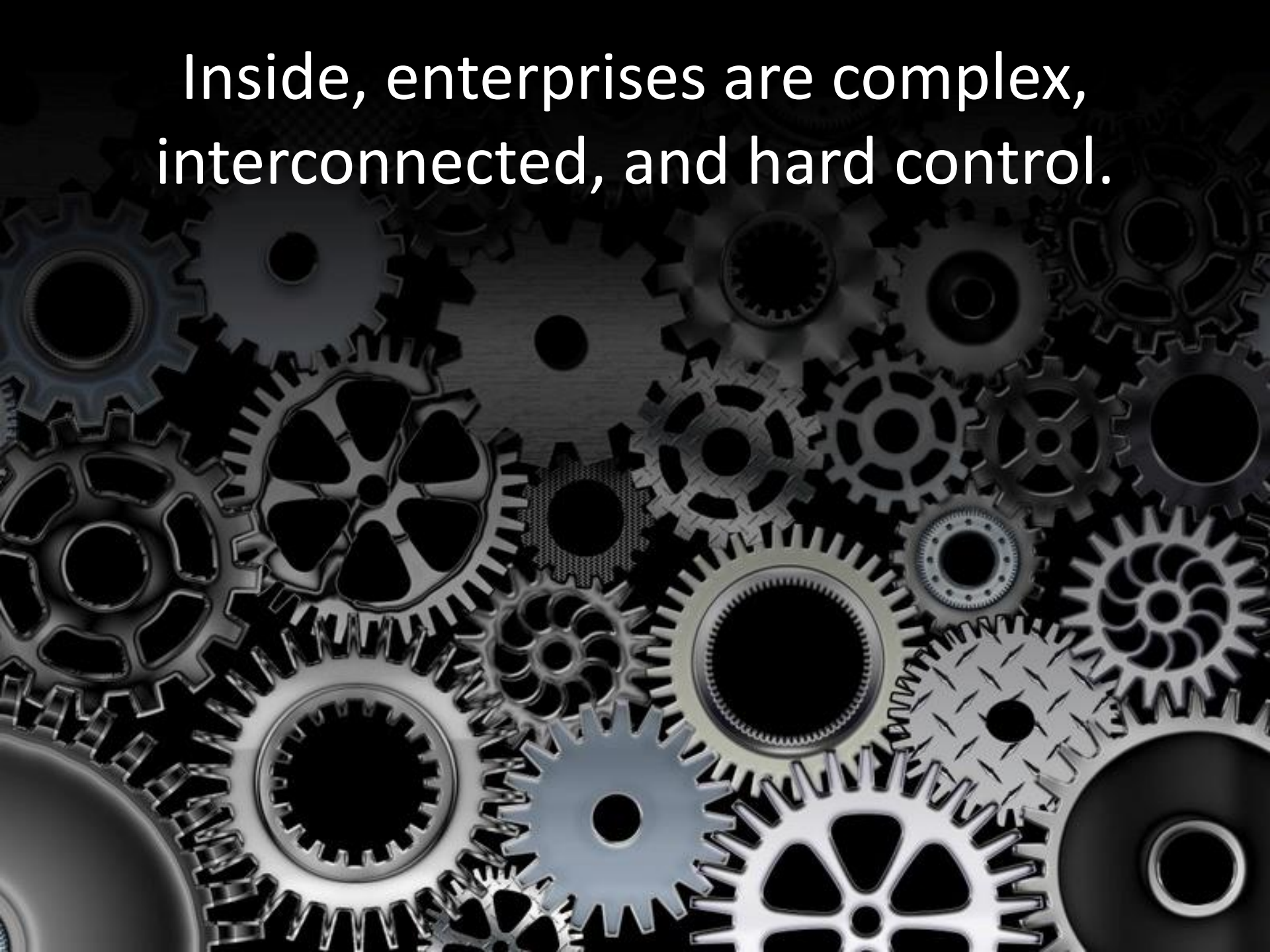


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Layered perimeter defenses tend to focus on external threats.

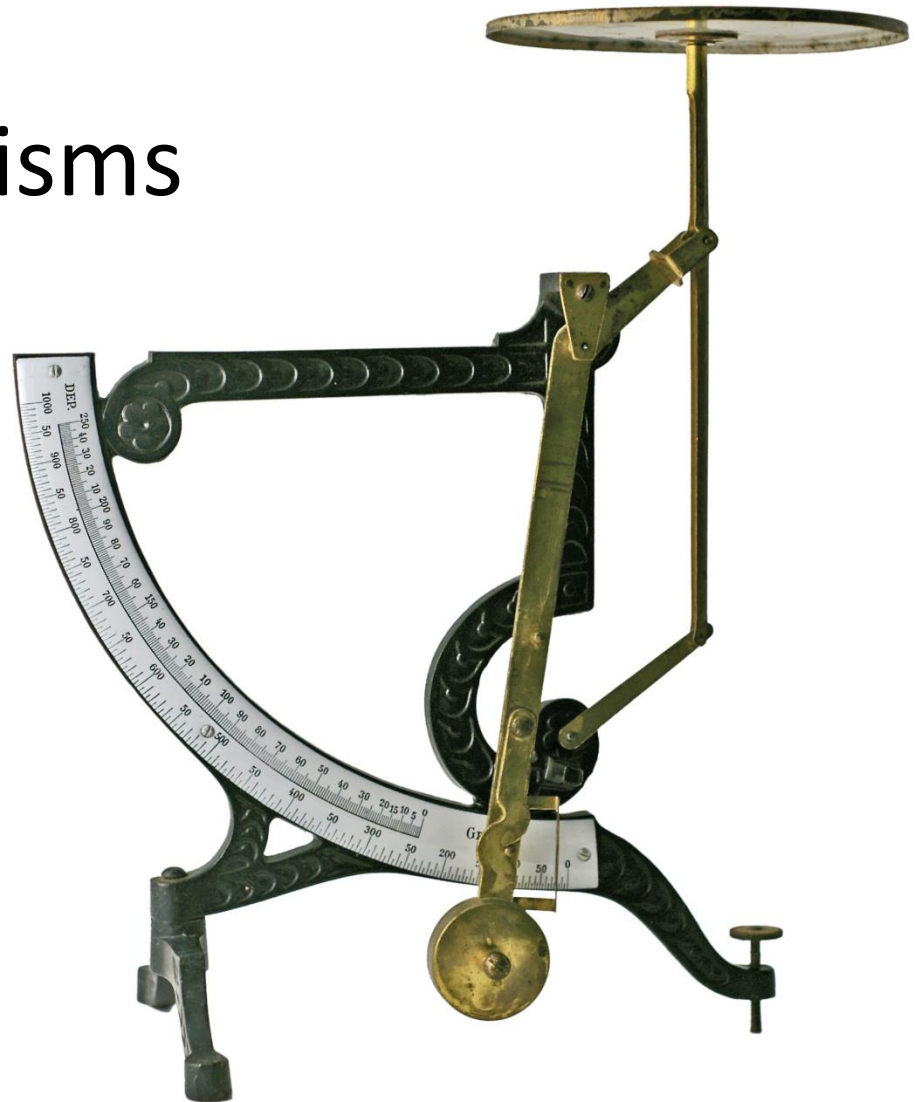
Inside, enterprises are complex,
interconnected, and hard control.



Many of today's breaches are the result of an insider's actions.



Balancing policy,
preventative, and
monitoring mechanisms
helps address the
insider threat.





Let's survey a few
recent breaches
and consider
mitigation
strategies.

Inadvertent Insider Breaches



UK Ministry of Defence laptop stolen
with data of 600,000 would-be recruits





Social Security numbers
on mailing labels to Wisconsin
health care recipients

ABN Amro spreadsheet with customer records leaked via file sharing network




Employee e-mailed out personnel
details of Cameron County workers



University of Pittsburgh Medical Center left patient data on a website





SAIC transmitted
military family
records without
encryption over
the Internet

Weak controls around data dissemination

Unclear processes for “secure”
data handling

Slow detection capabilities



Malicious Insider Breaches

Metropolitan St. Louis
Sewer District employee
in copied records for
retaliation against
employer



Pfizer employee copied
co-workers' records



Electronic Data Systems ex-employee
sold identities of Medicaid recipients



Fidelity National Information
Services worker stole
customers' financial
records



Overly-permissive data access practices

Weak access monitoring
capabilities

Weak leakage detection
capabilities

Data breaches seem to be increasing in frequency and severity.



The breaches are often self-inflicted by insiders—maliciously or accidentally.



People are good at bypassing controls
to get work done or to earn a profit.



Clarify which are the prohibited activities and...

... document processes for sharing information in an approved manner.

Provide data sharing mechanisms
and training to employees.

Enforce the data-sharing policies.

Monitor data traversal and access
to deter, detect, and investigate
breaches.



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