

# Information Security Report

2021

June 2, 2021

Joint Legislative Committee on Information  
Management and Technology



OREGON  
STATE  
TREASURY

# Oregon's Financial Services Hub

## Vision Statement

Leading the way for Oregonians to achieve long-term financial security

## Mission Statement

Improving Oregon governments' and citizens' financial capabilities

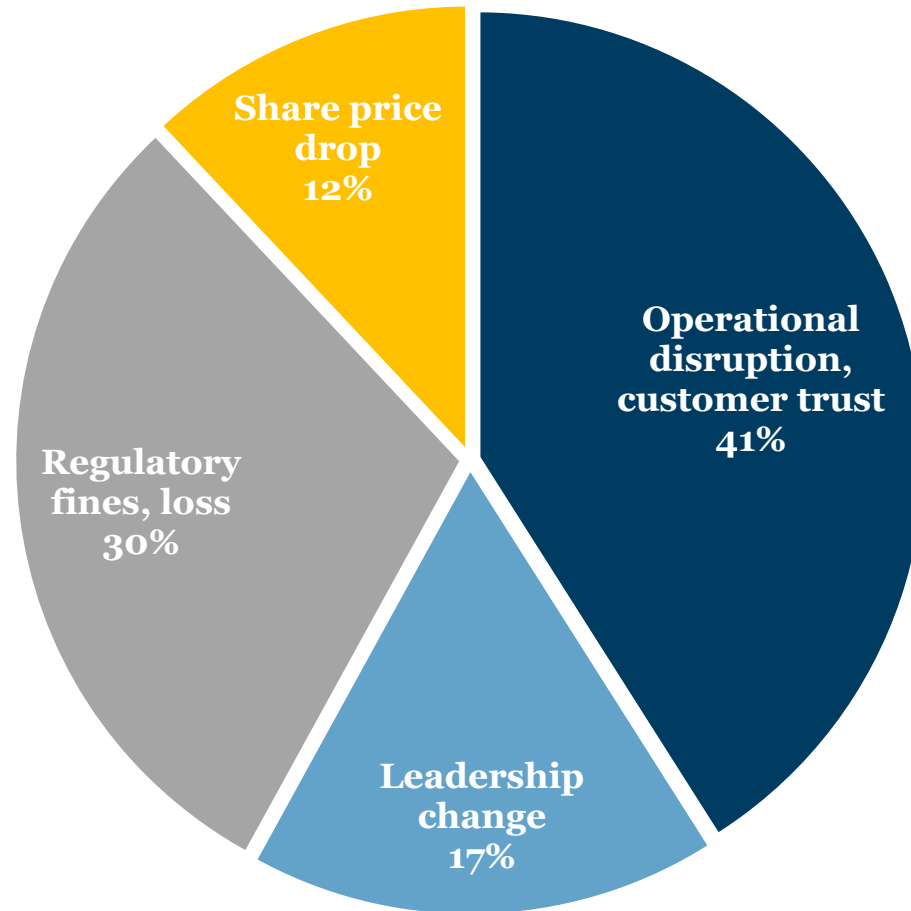
## Our IT Mission

Improving Oregon governments' and citizens' financial capabilities *through collaborative, resilient, innovative, and secure technology solutions.*

# Cybersecurity Financial Services Industry

- Cyberattacks have spiked **400% since March 2020**
- **29.6%** chance of experiencing a data breach
- **\$5.85** million – average cost of breach in the FSI
- **233 days** – time to identify and contain a breach
- **52%** of data breaches are financially motivated
- **87 %** of cost is business disruption and information loss

# Most Common Impacts of Cyber Events



# Threats to Financial Services Organizations

- Compromised credentials
- Cloud misconfiguration
- Vulnerabilities in third-party software
- Customer- and employee-targeted phishing
- Supply chain attacks
- Virtual Private Network (VPN) attacks
- Ransomware

# Barriers to Better Cybersecurity

- Lack of sufficient funding
- Inadequate staffing
- Increased sophistication of threats
- Lack of support from program areas
- Inadequate availability of cybersecurity professionals

\*2018 Deloitte NASCIO Cybersecurity Study

# Finance Industry Investment Priorities

- Access control
- Protective technology
- Data security
- Detection processes
- Threats and anomalies

\* 2020 Deloitte-FS-ISAC – Reshaping the Cybersecurity Landscape

# Treasury's Cyber Security Profile

- Millions of annual transactions, hundreds of billions of dollars
- Provide the computing infrastructure and expertise needed to conduct business securely and reliably
- Three connected locations (Salem, Capitol, Tigard)
- Design and manage solutions that meet business needs through a combination of cloud-based, purchased, and custom in-house developed applications
- Process and organizational maturity



# Information Security Program

- Oversees Treasury's InfoSec program
- Work is divided into four main areas:
  1. Security engineering
  2. Security operations
  3. Incident response
  4. Program management
- Responsible for implementing robust threat and anomaly detection capabilities
- Activities include extensive outreach to and education of Treasury staff

## Information Security

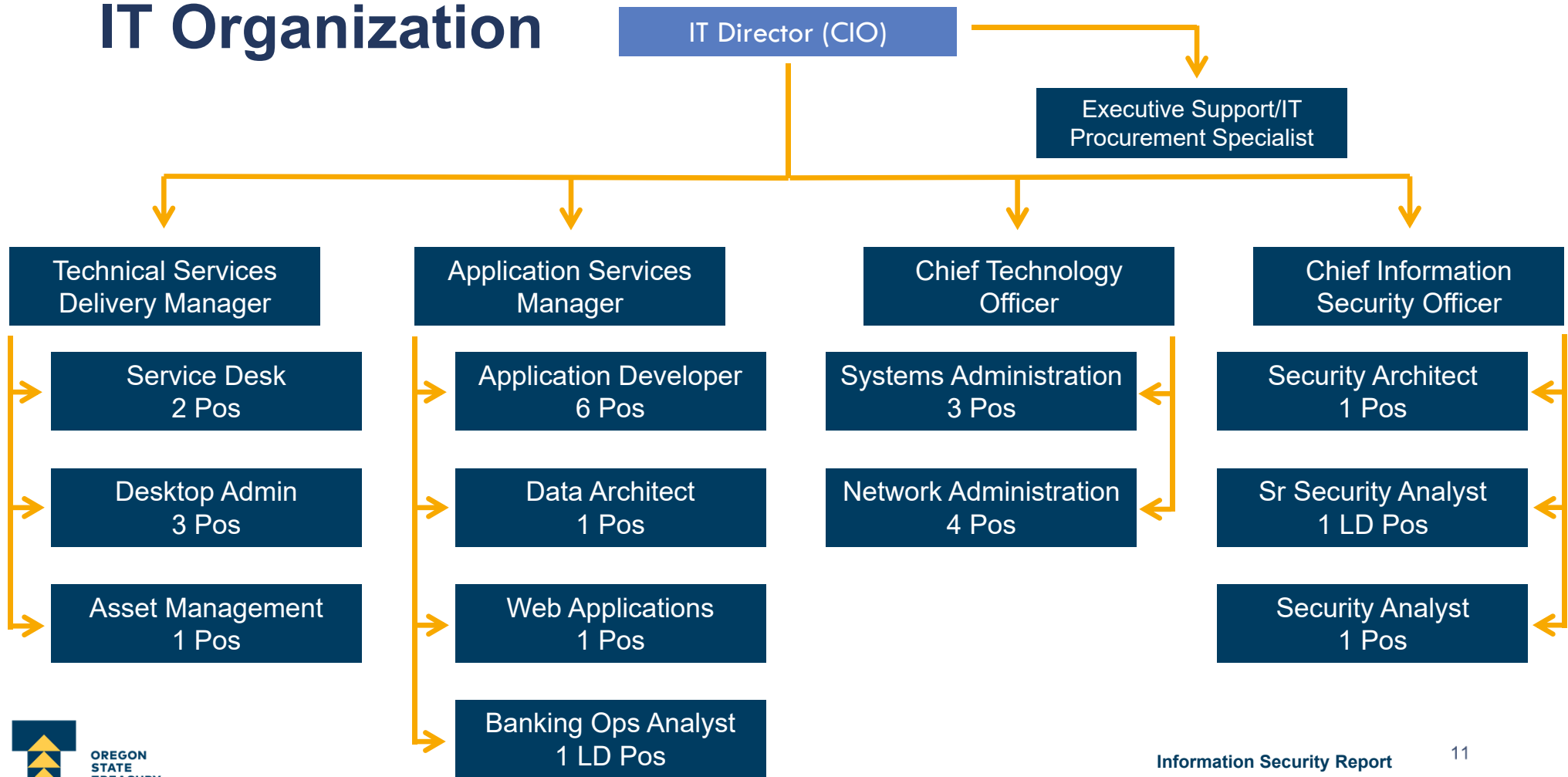
Agency-wide Information Security Program  
Information Security Risk Management  
Application Security  
Information Security Policy  
Network & Systems Security  
Third-party Due Diligence  
Security Awareness  
Incident Response  
Threat and Vulnerability Management  
Continuous Monitoring  
Identity and Access Management  
Data Security

# Information Security Program

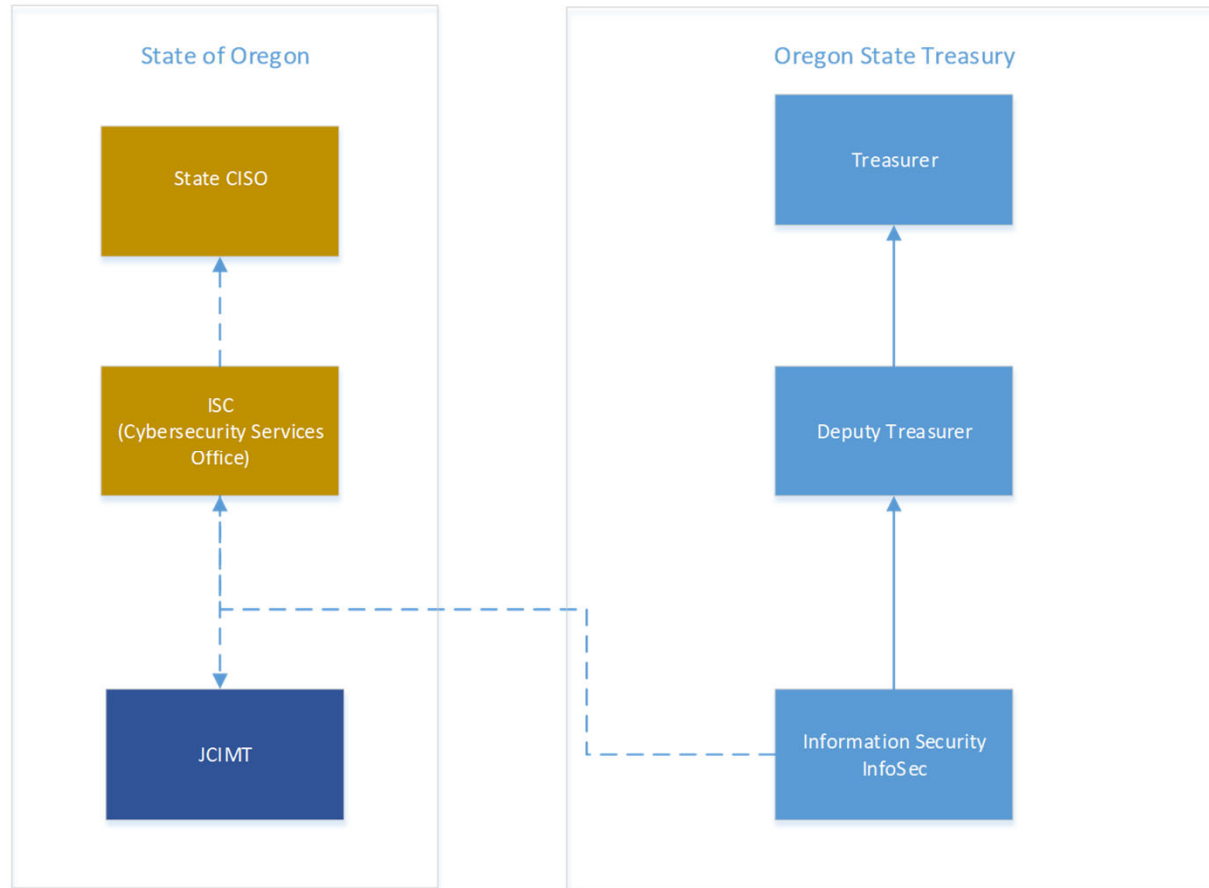
Built on information security frameworks:

- International Standards Organization (ISO) 27001:2013
- Cybersecurity Framework v1
- Center for Internet Security (CIS) Critical Security Controls v7.1
- Oregon Statewide Information Security Standards (2019)

# IT Organization



# Security Governance

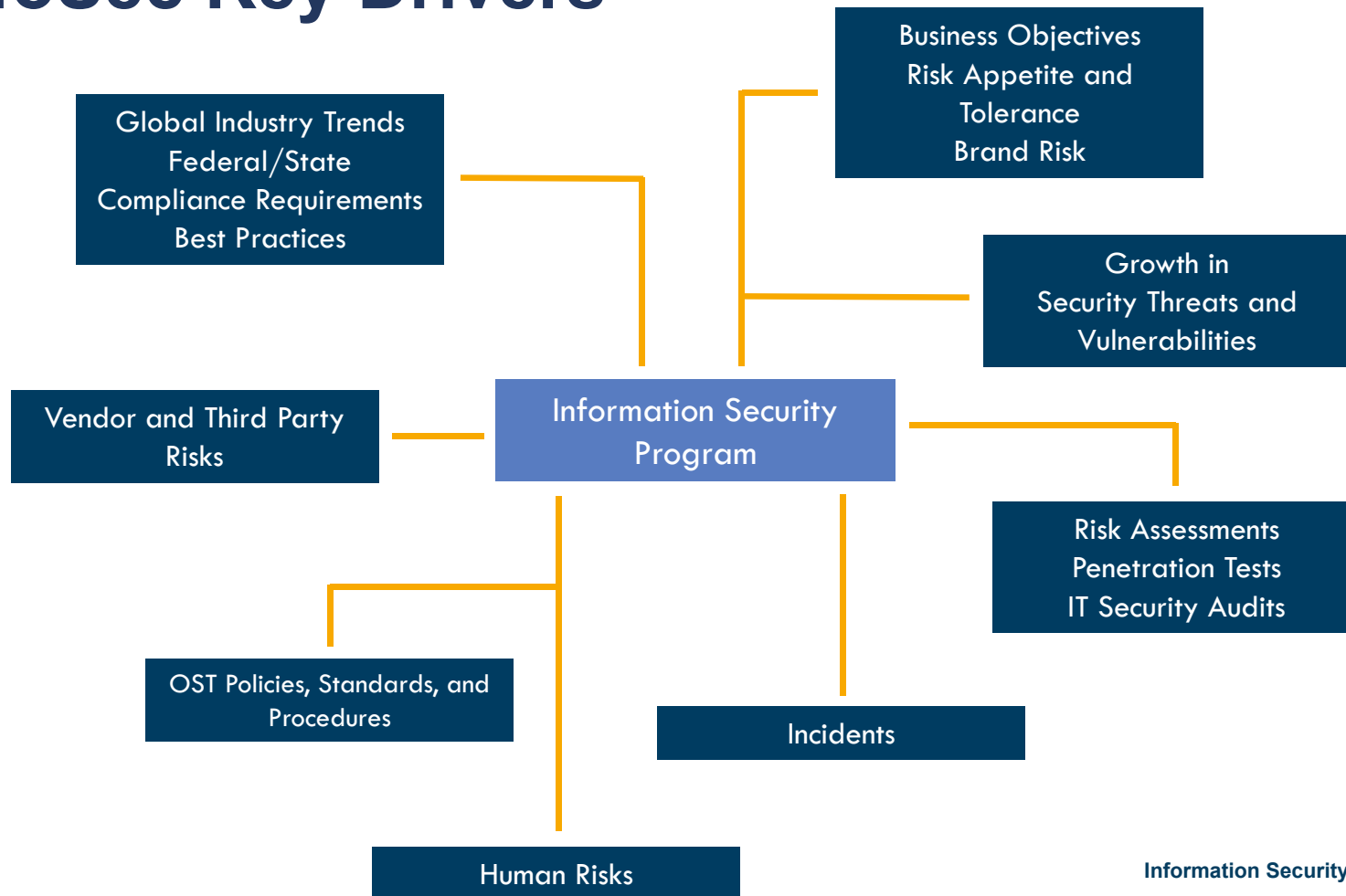


# Security Collaboration

- Financial Services – Information Sharing and Analysis Center (FS-ISAC)
- Independent Agency Security
- Cybersecurity Services office (CSS)



# InfoSec Key Drivers



# Security Assessments

- Comprehensive Penetration Test – (2019)
- SoS Cybersecurity Audit – (2021)
- Application Penetration Testing – (2021)
- Comprehensive Program Assessment – (2022)



# Recent Key Improvements

- Vendor cybersecurity rating service (2019)
- Threat and anomaly detection (2019)
- Enhanced malware protection (2020)
- Security awareness (2020)
- Enhanced third-party risk management (2020)
- Advanced email protection services (2021)





# Information Security Investments

- Identity and Access Management
- Network access control enhancements
- Zero-Trust security integration
- Expansion of multi-factor authentication
- Baking security into applications
- Focus on data security
- Expansion of threat and anomaly detection capabilities



# Ongoing Staff Training

- Cybersecurity Security Conferences
- Financial Industry Conferences
- SANS Security Training
- Cybersecurity webinars
- Security Certifications
- Information Security Community





# OREGON STATE TREASURY

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