Cybersecurity

CDOT Security Incident lessons learned
- Need to be faster at implementing security projects
- Need better controls in place for privileged accounts
- Need better cloud governance
- Need better visibility into internal traffic

Security Operations budget request $11.8 million
- The majority of the funding is for FY20 only
- To implement the projects to fill known gaps
- Including necessary resources to implement quickly
- $5 million is ongoing - bringing our annual cybersecurity budget to 5% of overall statewide IT spend
Enterprise Data Integration Services

Current state of integrations
- Point to point, often ad hoc interfaces systems
- Maintenance of interfaces not held within the state
- Not systematically secured or governed
- No reusability

Enterprise data integrations based on Enterprise Service Bus (ESB)
- Reuse of application programming interfaces (APIs)
- Standard API security based on data governance and enterprise security
- Long term sustainability of APIs within state
- Technical implementation of data strategy to promote discovery and appropriate sharing and integration of data

Need for Enterprise Service
Modernizing Interface Landscape

Secure, Governed Technology Platform for Data Transfer

Tiered Model of APIs

- Each layer enhances security and reuse and maintains business logic for data use and access

Experience Layer: Innovation and digital products

Process Layer: Agility and new value creation

System Layer: Decentralized access to core assets