

# CalHFA's 2020 Technology & Security Update

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# Agenda

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- Aligning IT initiatives to Agency Goals
- COVID-19 Response (Teleworking)
- Cybersecurity

DREAM  
BIG.

2021

2020



# Aligning IT initiatives to Agency Goals

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- Strategic Project Advisory Group (SPAG)
- Information Technology Governance Committee (ITGC)
- Digital Transformation
- Enhancements and Implementation of new applications

*“We are truly looking at IT as an enabler and growth driver.”*

# COVID & Teleworking



## What did we have?

- Limited connection
- One server
- Equipment shortage



## What did we do?

- Built connection servers
- Remote access to desktops
- Increased bandwidth



## Where are we now?

- 80% of staff teleworking successfully & are being supported by IT

*“Incredible things in the business world are never made by a single person, but by a team.”*

# Cybersecurity

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- Nationwide Cyber Security Review (NCSR)
- AB670: Independent Security Assessment (ISA)
- Office 365 Security Features
- KnowBe4 Security Training Software
- Network Traffic Monitoring



2020  
Accomplishments

# Cybersecurity

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- There's been a huge increase in the number of ransomware attacks over the course of 2020.
- Ransomware attacks have been on the rise and getting more dangerous in recent years, with cyber criminals aiming to encrypt as much of a corporate network as possible. A single attack can result in cyber criminals making hundreds of thousands or even millions of dollars not to mention the lost of trust in protecting user's information.
- The CalHFA Information Technology Division has been working on protecting our staff and data.

# Nationwide Cyber Security Review (NCSR)

State Agency Average 2019	2018	2019	2020
4.69	6.22	6.21	6.22



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Accomplishments

# AB670: Independent Security Assessment (ISA)

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## Why do we need it?

- State of California Requirement
- Mandated by Office of Information Security
- These assessment assist in protecting CalHFA information assets

## What does this get us?

- Detailed Report on observations/findings on 32 control objectives
- Suggested remediation steps for rating less than an “I”

I	P	N

## How was it is being carried out?

- Internal Vulnerability Assessment (Email Phishing)
- External Penetration Testing
- Web Application Testing



2020  
Accomplishments

# Office 365 Security Features

- Anti-Malware Policy
- Anti-Spam Policy
- Anti-Phish Policy
- Safe Attachments
- Safe Links



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Accomplishments

# KnowBe4 Security Training Software



CYBER SECURITY TRAINING



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Accomplishments

# Network Traffic Monitoring (Darktrace)

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2020

Accomplishments

# Looking Ahead to 2021



# Implement a Security Information and Events Management (SIEM)

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- A SIEM collects security data from network devices, servers, endpoints and more.
- Bird's- Eye view into our infrastructure.

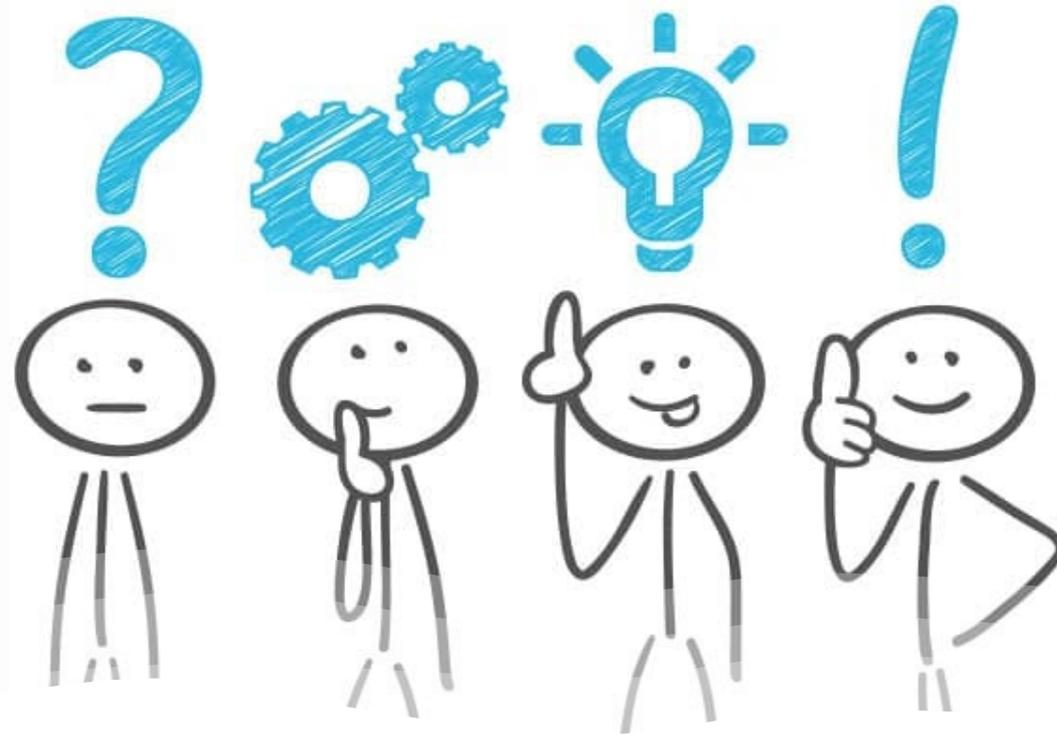


# Create and Implement Conditional Access Policies for O365 remote use

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- Security policies what allow us to manage and monitor the devices used to access CalHFA data remotely.





# Questions