

**Strengthening Alabama's Critical Infrastructure Resiliency**

**S A C I R**

**(pronounced "secure")**

## **Background...**

- Identification of Cyber Challenges and Opportunities
- Idea of a Workforce Study
- Engaged with Key Stakeholders
  - Business: Manufacturers, Large, and Small Businesses
  - Education: K12, Community Colleges, Universities
  - State and Local Governments
  - Alabama National Guard
- Report end of 2021; developed concept throughout 2022

## @CyberAlabama

Alabama can do in cyber what it did in automobile manufacturing – become the go-to destination for businesses and workers!

### The Problem



**Security:** Increasing threat of bad actors infiltrating networks



**Resiliency:** Ensuring connectivity during power failures and natural disasters

### The Opportunity

- **Workforce Development:** Train Alabamians for these in demand jobs
- **Economic Prosperity:** Grow businesses and jobs in all regions of the state

### Next Steps:

Consider Workforce Recommendations  
Consider Concept for a Technical Pilot

# Workforce Recommendations

1. Establish a **Alabama National Cybersecurity Center of Excellence (ACE)**
2. Establish an **Alabama Cyber Corps**
3. Lead the founding of a national **Artemis Academic Alliance (3A)**
4. Establish **Security Clearance Workforce Incentive Programs**
5. Leverage cyber opportunities with the **Alabama National Guard**
6. Expand Aerospace and Defense Industry **Incentive and Partnership Programs**
7. Expand Aerospace and Defense **Industry and Education Partnership Programs**
8. Partner with business organizations to expand **Supplier and Student Outreach**

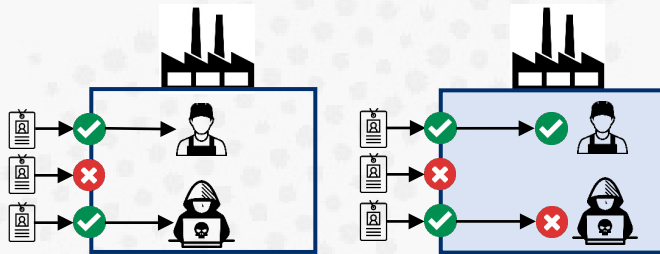
# Technical Recommendation

## SAFeNet Pilot

– Securing Alabama’s Future Network Pilot –

### Secure

#### Mission Critical “Zero Trust” Network

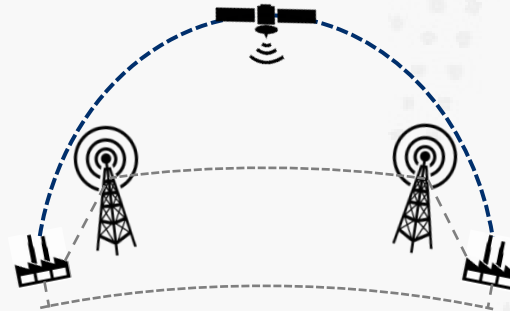


Current Technology:  
Secured at **boundary**

Zero Trust Technology:  
Secured everywhere

### Resilient

#### Space Based Infrastructure Layer



Critical operations switch to secure spaced enabled communication when terrestrial compromised or unavailable

## Recommended Funding

- \$30m for Workforce Recommendations
- \$5m for Technical Recommendation (SAFeNet Pilot)
- See “Cyber Ed Budget Recommendations” for details

Intent is to leverage state investments in SACIR to obtain federal grants and contracts and investments from the private sector, just a few examples...

- Big Ten Academic Alliance: ~\$10B funded research each year
  - State and Local Cyber Security Grant Program: \$400m
    - NSF: \$29m for Cyber Security Workforce
- Contracts with the federal government and private businesses