Key to the Future:



UAE's Security Overhaul



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Approved Continuing Education

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Course Description

- This course offers an in-depth look into the challenges and solutions encountered during the comprehensive rekey project undertaken to enhance security and accessibility across campus.
- Participants will learn about the strategic planning, technological innovations, and operational adjustments made to successfully navigate unforeseen obstacles, including the impacts of COVID-19, and achieve project goals.
- The course aims to share valuable insights on project management, adaptive strategies, and collaborative problemsolving in a large-scale, dynamic environment.



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Learning Objectives

- Understand key system overhaul for improved security and accessibility.
- Learn project planning and execution with a focus on cost-effective solutions.
- Explore technological innovations for enhanced accountability and efficiency.
- Identify strategies for accomplishing multiple objectives with a single investment.
- Discuss adaptive strategies for overcoming unexpected challenges.
- Highlight collaboration in implementing security and efficiency enhancements.

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Acknowledgement

I would like to acknowledge the Alaska Native nations upon whose ancestral lands our campuses reside. In Fairbanks, our Troth Yeddha' campus is located on the ancestral lands of the Dena people of the lower Tanana River. I appreciate their legacy of stewardship.

I would also like to acknowledge the indigenous nations upon whose ancestral lands we gather today.



/



We're a little different...





Man walking in ice fog February 2024.



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Background and Solutions



The Predicament:

- Emergency re-keys were frequent and costly,
- Security practices outdated.
- Fragmented key system compromised access control.
- Over 20 incompatible key systems.
- Maintenance costs high, hardware old, rekey & reissue, repeat.
- Accountability was deficient.
- Key management outdated, manual, incomplete and inefficient.
- Lax security culture.
- Absence of a formal key policy.
- Master keys by default.
- A major overhaul was necessary to improve safety, accountability, and cost-effectiveness.

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Stand Up for Security!

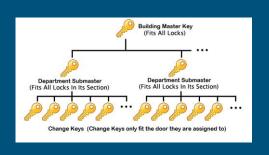
If you agree, STAND.

If you don't, REMAIN SEATED.

Project Foundations

In Depth Assessment & Planning

- Robust, Scalable Design
- Good Key Management to Protect Investment
- What Value Can We Add?





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Goals and Envisioned Outcomes

What are we trying to accomplish?

Safety & Cost reduction!

Complete Door/lock Survey

Ensure ADA Compliance

Implement Access Control Policy

Eliminate Exterior Building Keys

Better Management, Requests & Reporting

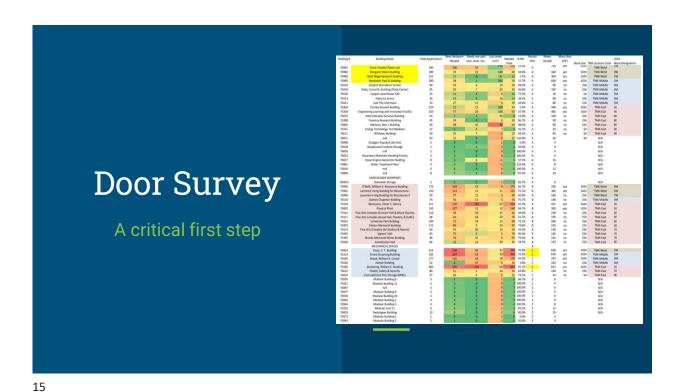
Increase Accountability/Reduce Risk

Simplify Emergency Response

Incorporate AS/SIP Guidelines

Meet Federal Grant Standards

Minimize the Impact on Operations & Research



How Many
Doors?

What is your guess?

68 (50 Major) UAF buildings
? locking doors
? require hardware upgrades
? fire-rated doors
? card readers

How Many Doors?

answers

68 (50 Major) UAF buildings

7,784 locking doors

4,250 require hardware upgrades

2,038 fire-rated doors

986 card readers

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Access Control Policy Highlights

Make it timeless & adaptable

- Approach
- Fees
- Integrate keys & cards
- Responsibility definition & shift
- Request and audit processes
- 2 years to "final"

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System Design

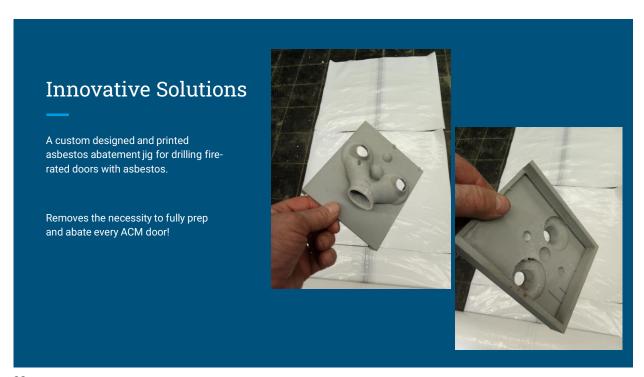
flexible and resilient

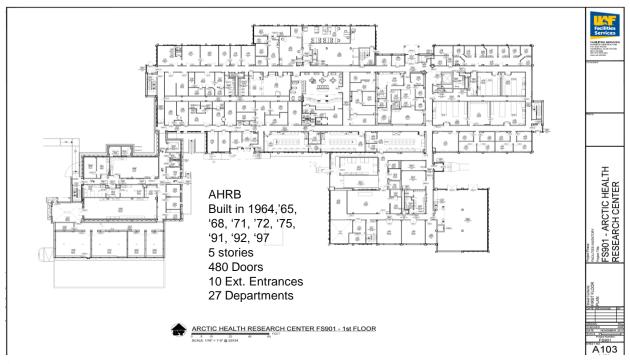
7-pin registered & patented Simple hierarchy Smaller emergency keyrings











Costs

So, how much does it cost to do all of this?

We planned to spread the cost over 5 years and complete the rekey within 3 years.

\$5 Million

25

Specific Initiatives

Things we did on purpose!

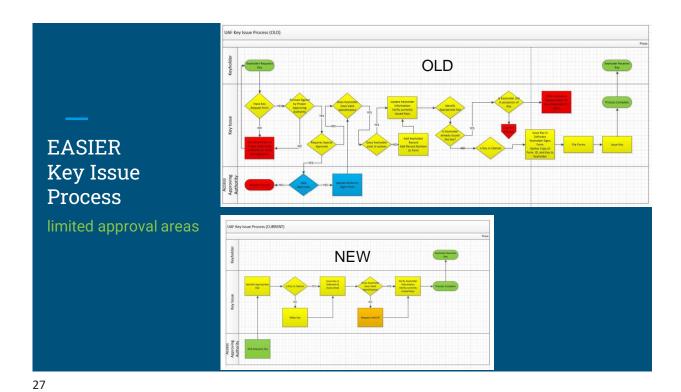
EASIER! Online Request system

Access Approving Authority (AAA)
Training course

Electronic Key Control Boxes

Streamline Knox Boxes

Expand card access whenever affordable



AAA Training Course **Comprehensive Course** Vocabulary Policy UAF Access Approving Authority T... Responsibilities UAF Access Approving Author... Access Evaluation Parameters & Processes Access Approval Questions Are you the appropriate Access Approving Authority for the requested space? i.e. you have been designated to approve access for this space. Does the requestor have a valid business reason to need access to this space? i.e. they require access to these rooms to perform work for UAF. Yes No Have you made the Requestor aware of any safety concerns or additional precautions/training that may pertain to accessing this space? i.e. hazardous materials, special procedures, prior notifications, lab safety training, etc. No No Policy 🗈 Is the requestor aware of the financial responsibility they are committing themselves and your department to if they were to lose keys accessing the requested spaces?



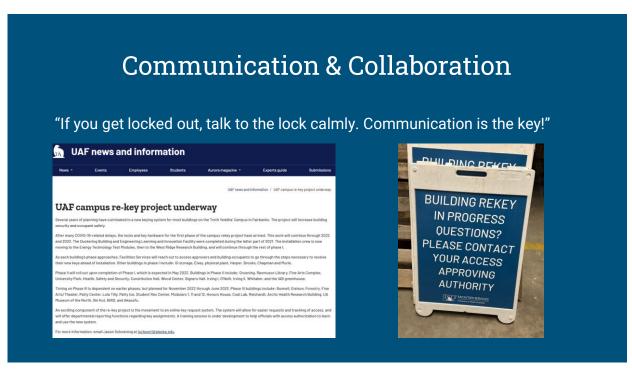


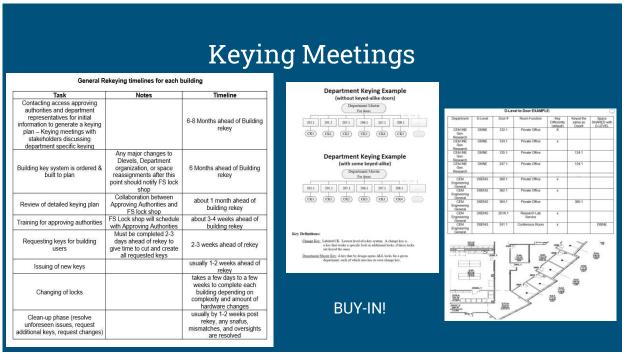


Building Key Rings Before and After Streamlining Knox boxes and simplifying access









85% COMPLETE

Expected completion September/October 2024

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Conclusion:

Summary of Achievements:

- Successfully transitioned to a scalable and secure key system, greatly enhancing campus security.
- Created & implemented comprehensive yet flexible access control policy.
- Changed Hardware across campus to be consistent and compliant.
- Implemented and installed electronic key boxes for reduced risk and increased accountability.
- Reduced risk by transitioning access from master keys to check out rings.
- Introduced Bluetooth key locators to aid in key retrieval
- Expanded card access locations improving accessibility and control.

Interesting facts

- 2,941 lock upgrades to "securable from within" levers
- 24 additional classroom spaces upgraded to card access
- 197 physical combo locks upgrade to digital combo locks
- 32 pallets of lock hardware

Approximately 14,340 pounds of lock hardware - just over 7 TONS!

Additional 1,350 pounds of keys and cores alone.

\$5 million dollar total project cost

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Questions? _



Moose standing in campus core Photo by: Brittany Van Eck

This concludes The American Institute of Architects Continuing Education Systems Course

