

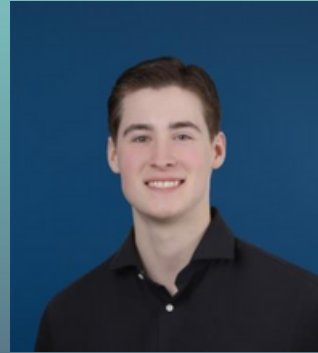
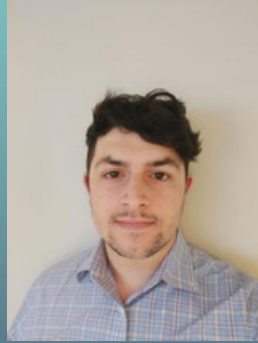


Hacking for Diplomacy

DS 25 -Outsmarting Smart Devices

Meet The Team

Mitch Lamosek, Sierra Kennedy, Arthur Tonoyan, Camden Robertson, Jacob Herman



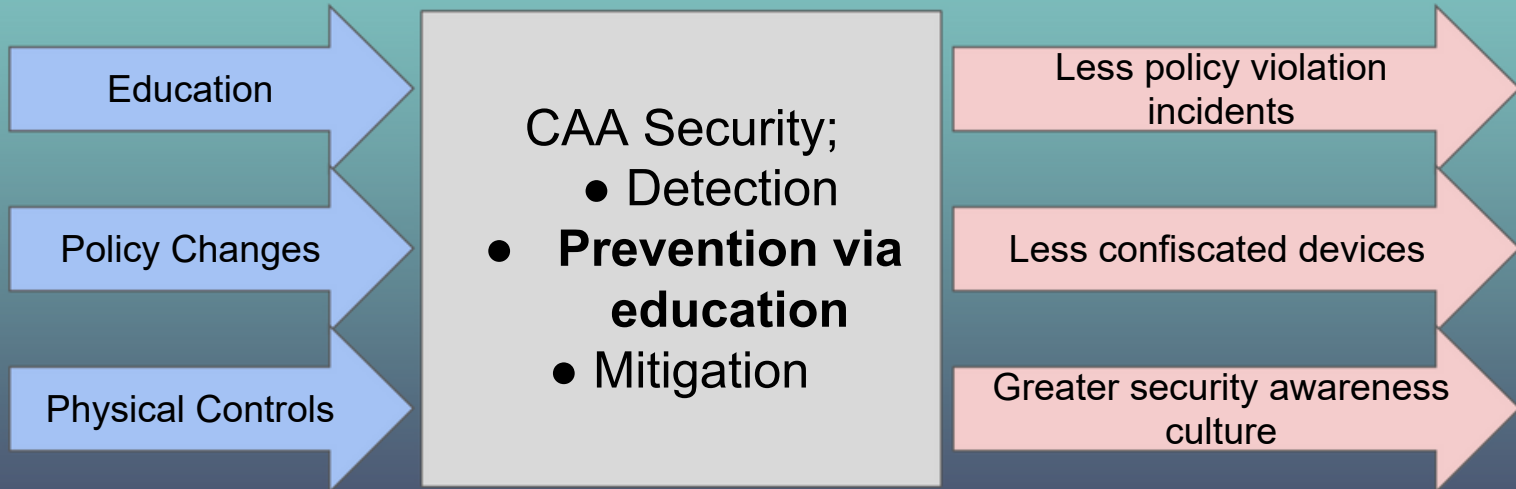
Initial Problem Statement

Foreign Service Officers (FSOs) at the U.S. Tri-Mission Brussels need to be alerted when they inadvertently bring personal devices, which may contain unauthorized wireless capabilities, into Controlled Access Areas (CAAs) in order to prevent adversaries from using wireless signals to collect and/or transmit classified information.

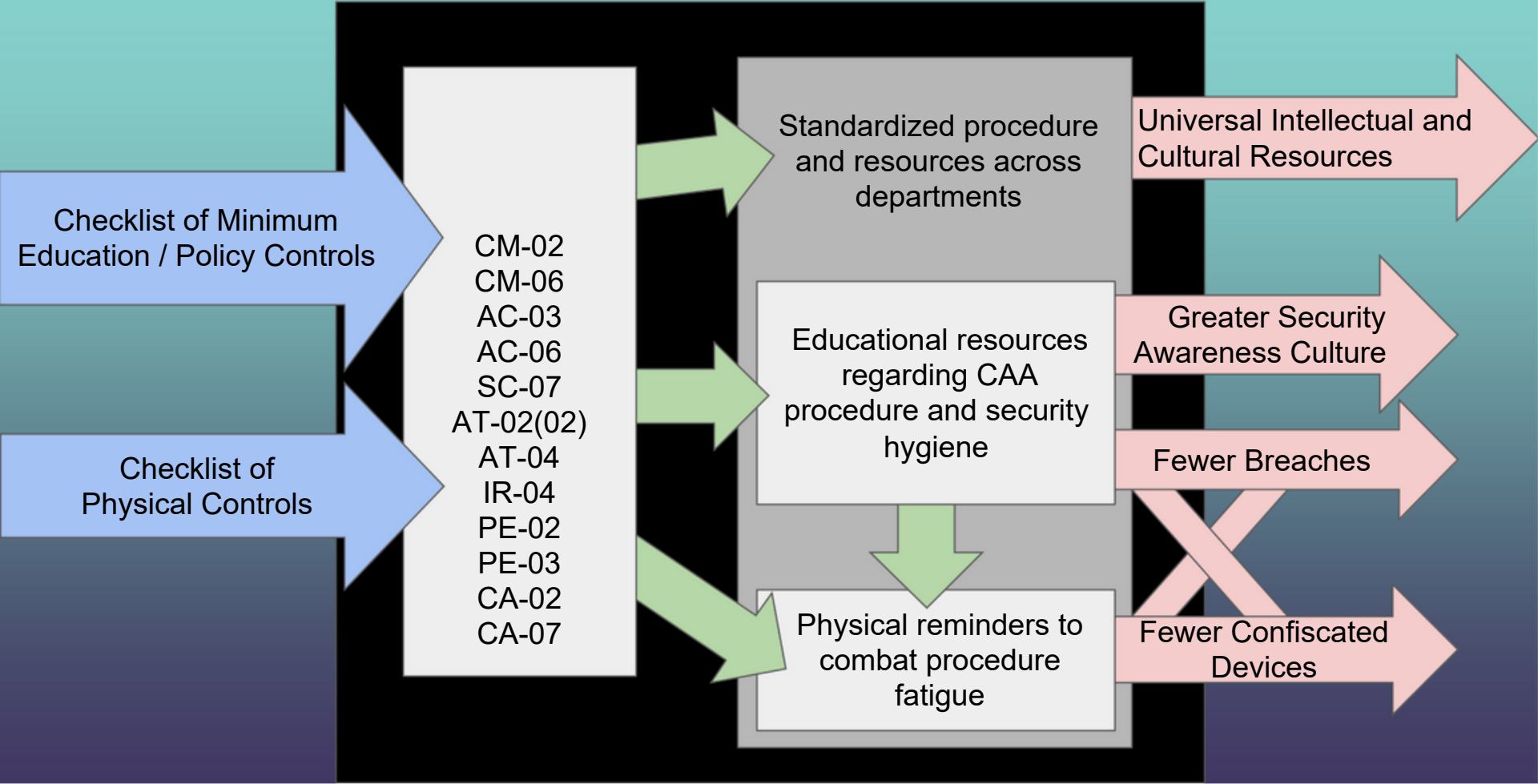
Final Problem Statement

Stop people from inadvertently bringing in smart devices in Controlled Access Areas (CAAs) by **establishing an umbrella standard for both security education and physical controls using standardized NIST 800-53 protocols and Intelligence Community Directives (ICDs)**

First Minimal Viable Product

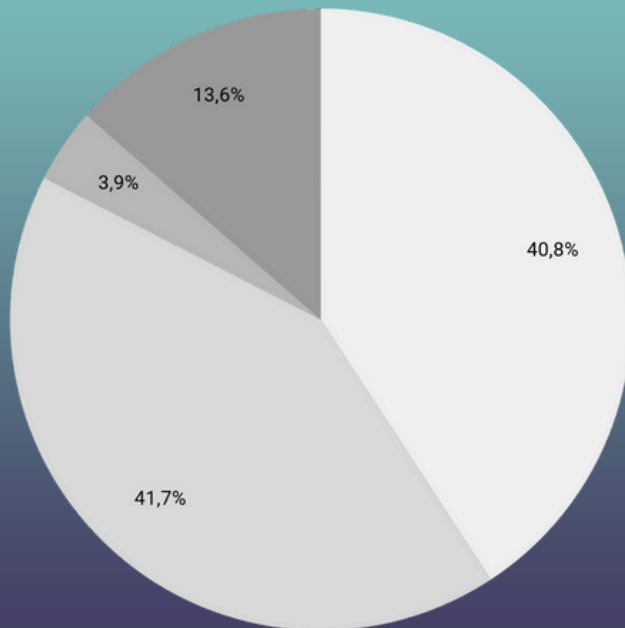


Final Minimal Viable Product



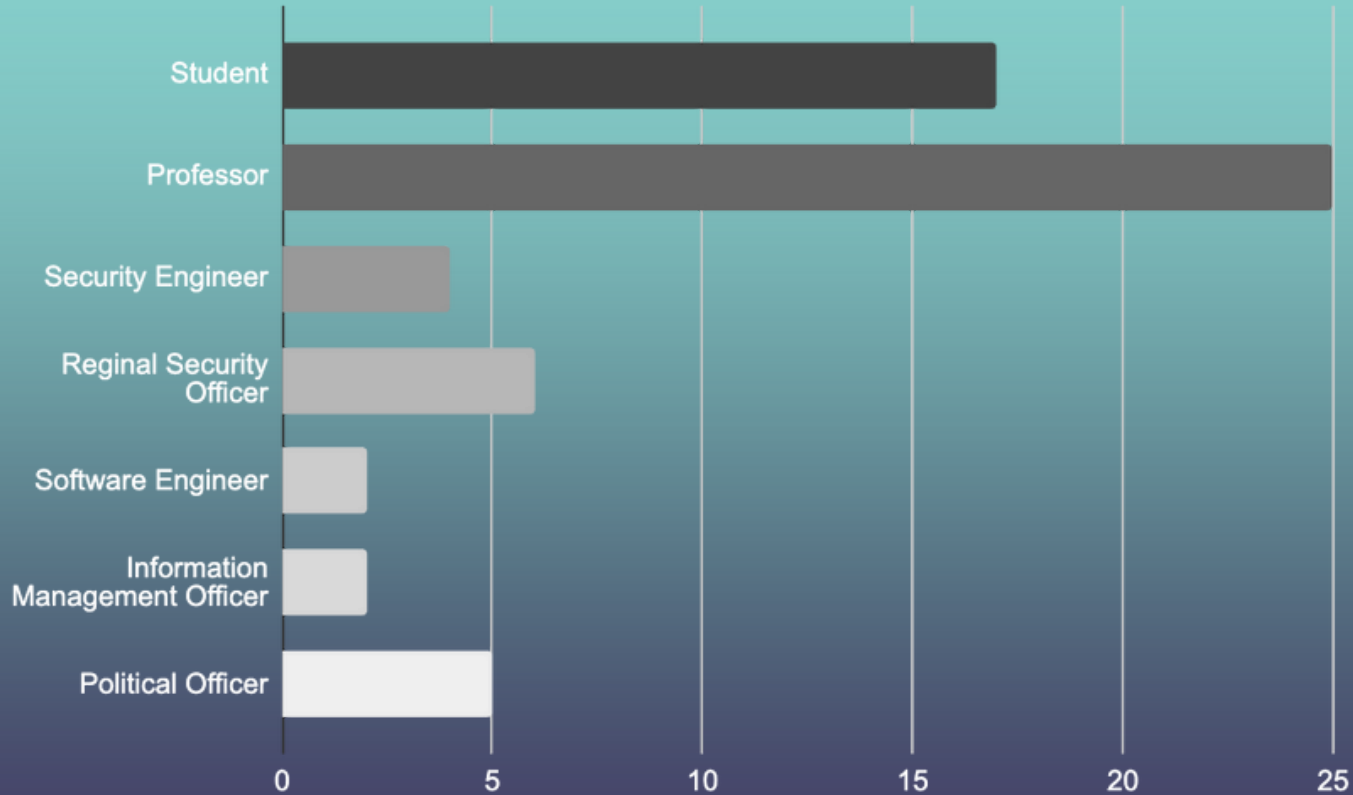
Interview Breakdown

Total Interviews: 103



- Academic
- State Department
- Department of Defense
- Private Sector

Interview Archetype Breakdown



Project Timeline



Weeks 1-5

Total Interview: 21

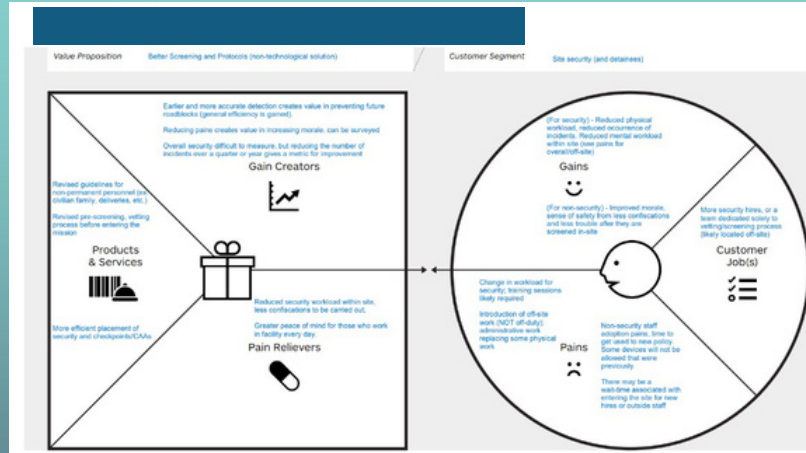
Days Left: 70

Weeks 1-5

- Meeting with our sponsors to gain a better understanding of our problem statement
- Discovery Interviews
 - Interviewed with educators, fellow students, intelligence community, and security engineers



Weeks 1-5 Interviews



Week 3 Pivot: Stop people from inadvertently bringing in smart devices in Controlled Access Areas (CAAs) and how we can make using smart devices for work purposes easier



Weeks 1-5 Mission Model Canvas










The Mission Model Canvas

Mission/Problem Description:

Designed by:

Date:

Version:

<p>Key Partners </p> <p>Security technology providers for smart device detectors and wearable signal blockers</p> <p>Security experts and trained for briefings and trainings</p> <p>Technology vendors for automate reminder systems and AI powered security cameras</p> <p>Problem statement sponsors</p>	<p>Key Activities </p> <p>Development and deployment of smart device detectors and blockers</p> <p>Establishment of personal device lockers</p> <p>Training and culture shift</p> <p>Personal reminder / alert systems</p> <p>Conducting surprise device audits</p> <p>Implementation of integrated security camera analysis</p>	<p>Value Propositions </p> <p>Enhanced security by preventing the inadvertent entry of smart devices into controlled access areas</p> <p>Increased awareness and vigilance among security personnel</p> <p>Peace of mind for employees</p> <p>Avoidance of legal issues with solutions</p> <p>Avoidance of security breaches</p> <p>Avoidance of unnecessary delays and unwanted confiscations</p>	<p>Buy-in & Support </p> <p>Local embassy security officers</p> <p>Local embassy management</p> <p>Buy in if we achieve both traffic flow efficiency and increase security</p> <p>Department of state bureau of diplomatic security</p>	<p>Beneficiaries </p> <p>Marine Security guards</p> <p>Public diplomacy</p> <p>Office of legal attaché</p> <p>Federal aviation federation</p> <p>Regional security officer</p> <p>Joint administrative services</p> <p>Office of defense attaché</p> <p>Department of homeland security</p> <p>Ambassadors</p> <p>Foreign agriculture service</p>
<p>Key Resources </p> <p>Education</p> <p>Communication systems for personalized alerts</p> <p>Feedback mechanisms for system improvement</p> <p>Training materials and instructors</p> <p>Automatic reminder systems</p> <p>Physical controls</p> <p>Wearable signal blockers</p> <p>Security cameras</p> <p>Smart device detectors</p> <p>Faraday cage</p> <p>Personal device lockers</p>		<p>Deployment </p> <p>Pilot test at tri-mission Brussels</p> <p>Department of defense attaché</p> <p>Full-scale rollout across multiple us embassies and consulates</p>		
<p>Mission Budget/Cost </p> <p>Costs associated with technological implementation</p> <p>Expenses for training sessions and materials</p> <p>Maintenance and operational costs for automated reminders and security cameras</p> <p>Personnel costs for surprise audits and system monitoring</p>		<p>Mission Achievement/Impact Factors </p> <p>Number of CAAs with implemented solutions</p> <p>Percentage reduction in security breaches related to smart devices</p> <p>Frequency and effectiveness of training</p> <p>Maintenance and system performance metrics</p> <p>Feedback and satisfaction ratings from security personnel and stakeholders</p>		

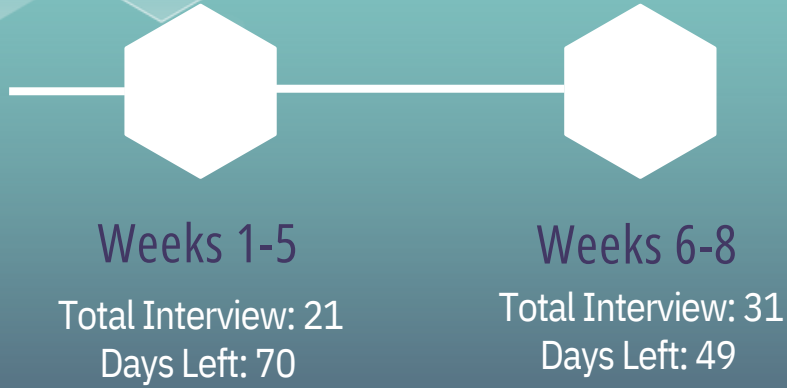


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Project Timeline



Weeks 6-8

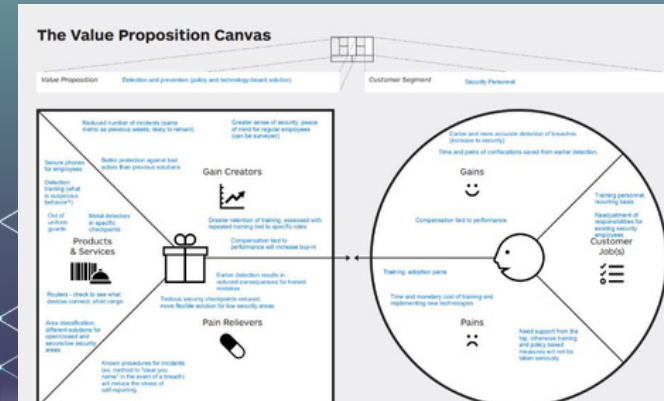
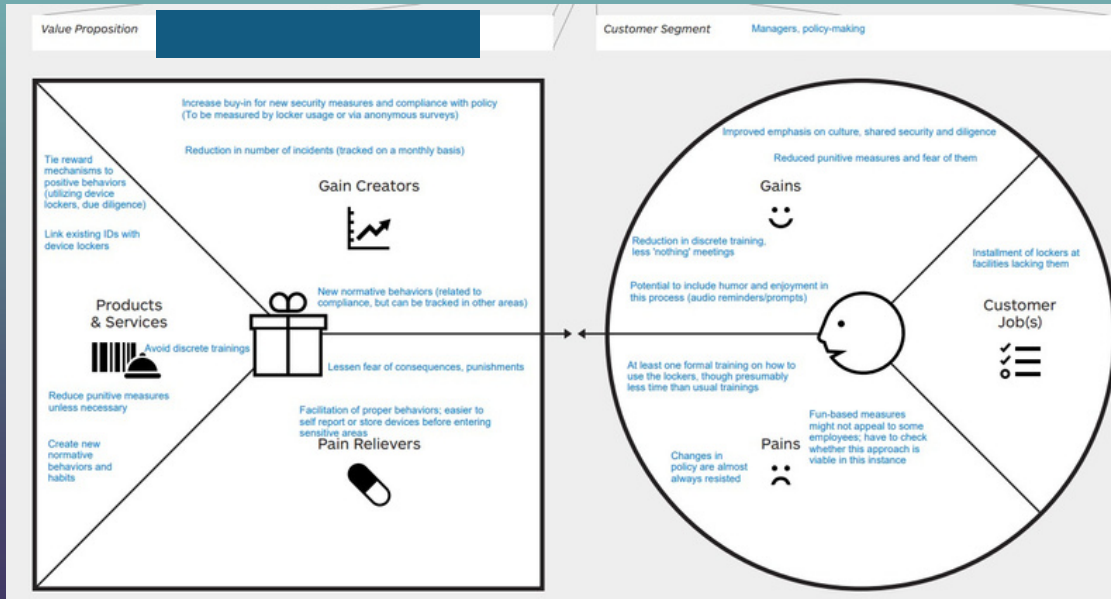
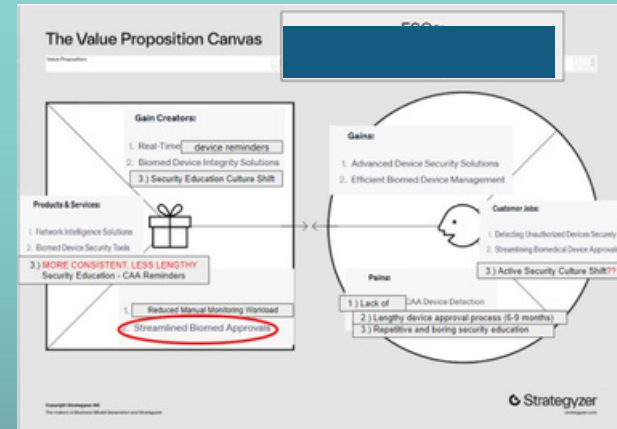
- Focused on finding ways to make using smart devices easier in CAA's
- Shift towards an educational solution
- Increased emphasis on policy
- Increased awareness of the cultural element



Weeks 6-8 Interviews

Security Personnel: Solution categorization, focal points of training

Management: OB, cultural element



Weeks 6-8 Mission Model Canvas










The Mission Model Canvas

Mission/Problem Description:

Designed by:

Date:

Version:

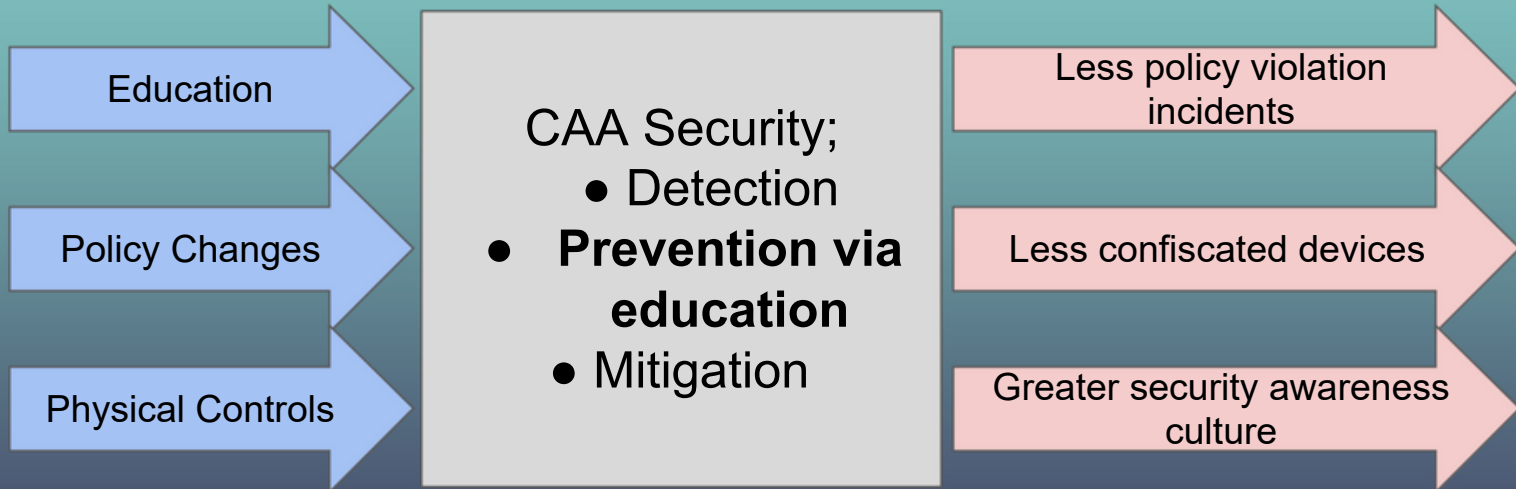
<p>Key Partners </p> <p>Security experts and trained for briefing</p> <p>Security technology providers for smart device detectors and signal blockers</p> <p>Sponsors</p>	<p>Key Activities </p> <p>AT-1: training and culture shift</p> <p>SI-5: personal reminder/alert</p> <p>IA-3: device smart detectors</p> <p>PE-7: personal device lockers</p> <p>Key Resources </p> <p>System for alerts</p> <p>Feedback for system improvement</p> <p>Training materials and instructor</p> <p>Wearable signal blockers</p> <p>Smart device detectors</p> <p>Faraday cage</p> <p>Personal device lockers</p>	<p>Value Propositions </p> <p>Increased awareness and vigilance among security personal</p> <p>Avoidance of legal issues</p> <p>Enhanced security by preventing entry of smart devices in CAA</p> <p>Avoidance of unnecessary delays and confiscations</p> <p>Avoidance of security breaches</p> <p>Peace of mind for employees</p>	<p>Buy-in & Support </p> <p>Local embassy security officers</p> <p>Local embassy management</p> <p>Department of state bureau of diplomatic security</p> <p>Deployment </p> <p>Pilot test at Tri-Mission Brussels</p> <p>Department of Defense Attaché</p> <p>Full-scale rollout across multiple embassies and consulates</p>	<p>Beneficiaries </p> <p>Marine Security Guards</p> <p>Office of Legal Attaché</p> <p>Regional Security Officer</p> <p>Department of Homeland Security</p> <p>Office of Defense Attaché</p> <p>Public Diplomacy</p> <p>Intelligence Community</p>
<p>Mission Budget/Cost </p> <p>Cost associated with technological implementation</p> <p>Expenses for training sessions and materials</p> <p>Maintenance and operational cost for personal reminders</p> <p>Cost for audit and monitoring</p>		<p>Mission Achievement/Impact Factors </p> <p>CAA with implemented solution</p> <p>Percentage reduction in security breaches related to smart devices</p> <p>Frequency and effectiveness of trainings</p> <p>Maintenance and system performance metrics</p> <p>Feedback and satisfaction ratings from security personnel and stakeholders</p>		



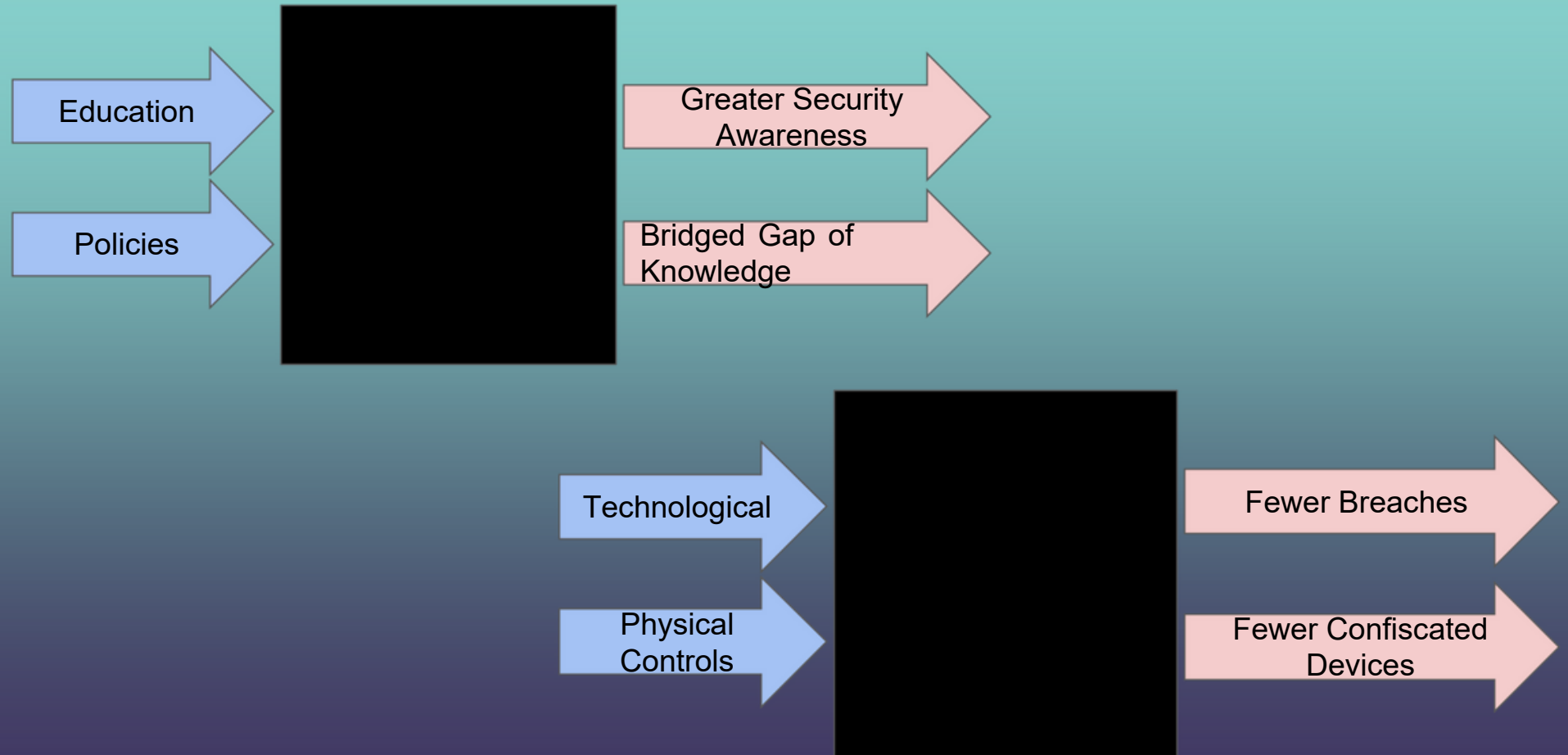
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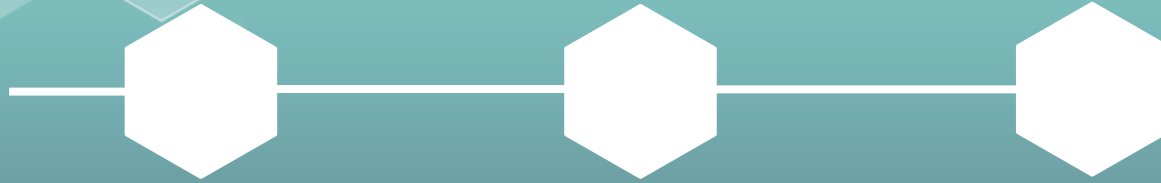
Week 6 -First Minimal Viable Product



Week 7 -Second Minimal Viable Product



Project Timeline



Weeks 1-5

Total Interview: 21
Days Left: 70

Weeks 6-8

Total Interview: 31
Days Left: 49

Weeks 9-11

Total Interview: 49
Days Left: 28

Weeks 9-11

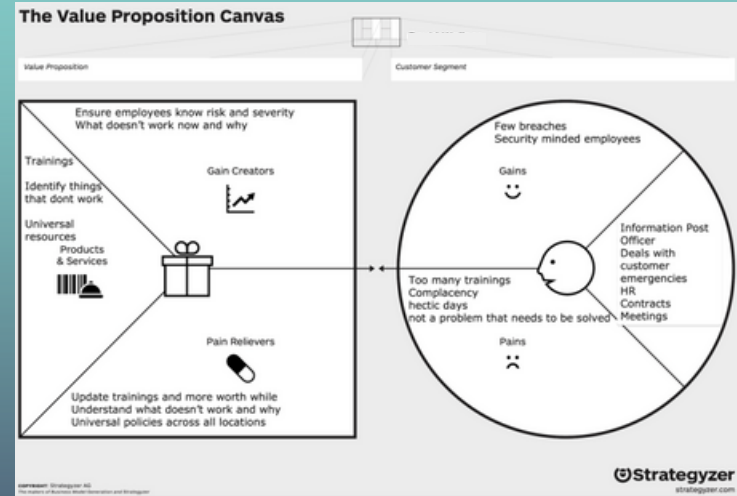
- How can we establish a security culture?
- Changed the entire focus of our project
 - Shifted to finding a standardization across all locations



Weeks 9-11 Interviews

Information Post Officer

- Emphasized that they do not need more training
- Already had a lot of different solutions in place



Weeks 9-11 Mission Model Canvas








The Mission Model Canvas

Mission/Problem Description:

Designed by:

Date:

Version:

<p>Key Partners </p> <p>Security experts and trained for briefing</p> <p>Security technology providers for smart device detectors and signal blockers</p> <p>Intelligence Community</p> <p>Joshua Ellwein</p> <p>Jose Moreno</p>	<p>Key Activities </p> <p>AT-1: Training and culture shift</p> <p>SI-5: Personal reminder / alerts</p> <p>IA-3: Device smart detectors</p> <p>PE-7: Personal device lockers</p> <p>Unified Training material</p>	<p>Value Propositions </p> <p>Increased awareness and vigilance among security personnel</p> <p>Avoidance of legal issues</p> <p>Enhanced security by preventing entry of smart devices in CAA</p> <p>Avoidance of unnecessary delays and confiscations</p> <p>Avoidance of Security Breaches</p> <p>Peace of mind for employees</p>	<p>Buy-in & Support </p> <p>Local Embassy Security Officers</p> <p>Local Embassy Management</p> <p>Department of State Bureau of Diplomatic Security</p>	<p>Beneficiaries </p> <p>Security Engineering Officer</p> <p>Division Director</p> <p>Security Technician Specialist</p> <p>Regional Security Officer</p> <p>Information Management Officer</p> <p>Information Systems Officer</p> <p>Counselor for Political and Economic Affairs</p> <p>Political Officer</p> <p>Economic Officer</p> <p>Marine Security Guards</p>
<p>Mission Budget/Cost </p> <p>Cost associated with technological implementation</p> <p>expenses for training sessions and materials</p> <p>Maintenance and operation cost for personal reminders</p> <p>Cost for audit and monitoring</p>		<p>Mission Achievement/Impact Factors </p> <p>Percentage reduction in security breaches related to smart devices</p> <p>Frequency and effectiveness of trainings</p> <p>Maintenance and system performance metrics</p> <p>Feedback and satisfaction ratings from security personnel and stakeholders</p>		



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Project Timeline



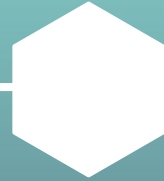
Weeks 1-5

Total Interview: 21
Days Left: 70



Weeks 6-8

Total Interview: 31
Days Left: 49



Weeks 9-11

Total Interview: 49
Days Left: 28

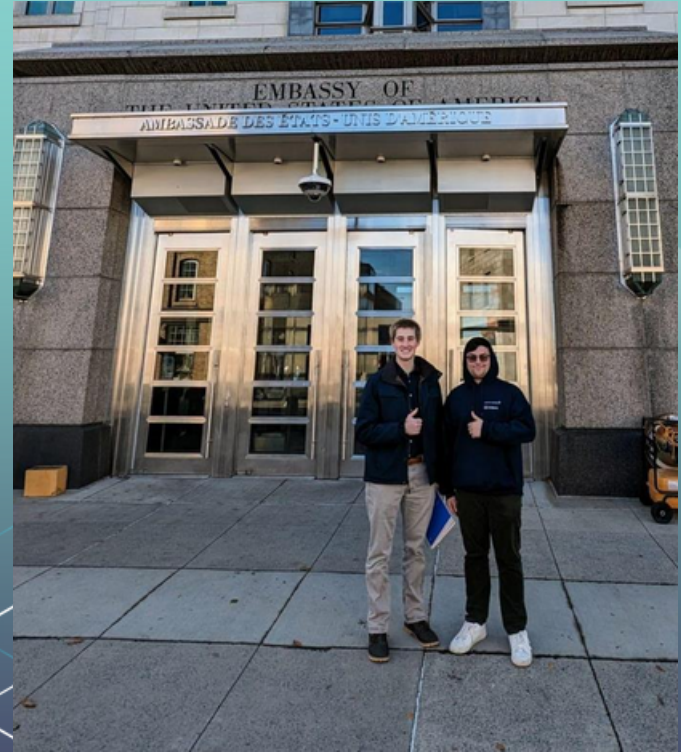


Weeks 12-15

Total Interview: 103
Days Left: 0

Weeks 12-15

- Looked into physical controls using standardized NIST 800-53 protocols and Intelligence Community Directives (ICDs)
- Site Visit to Ottawa Embassy
 - Group discussion regarding challenges when using CAAs
 - Especially regarding the differences in CAA layout between embassies and consulate



Weeks 12-15 Interviews

- Lots of valuable group discussion and “on-the-ground” information gathering
 - Embassy layout differences
 - NEC (New Embassy Compounds) are structured differently than embassies made prior to the Nairobi and Dar es Salaam attacks
- Back to back in-person interviews lets us build discussions off of each other



Weeks 12-15 Mission Model Canvas










The Mission Model Canvas

Mission/Problem Description:

Designed by:

Date:

Version:

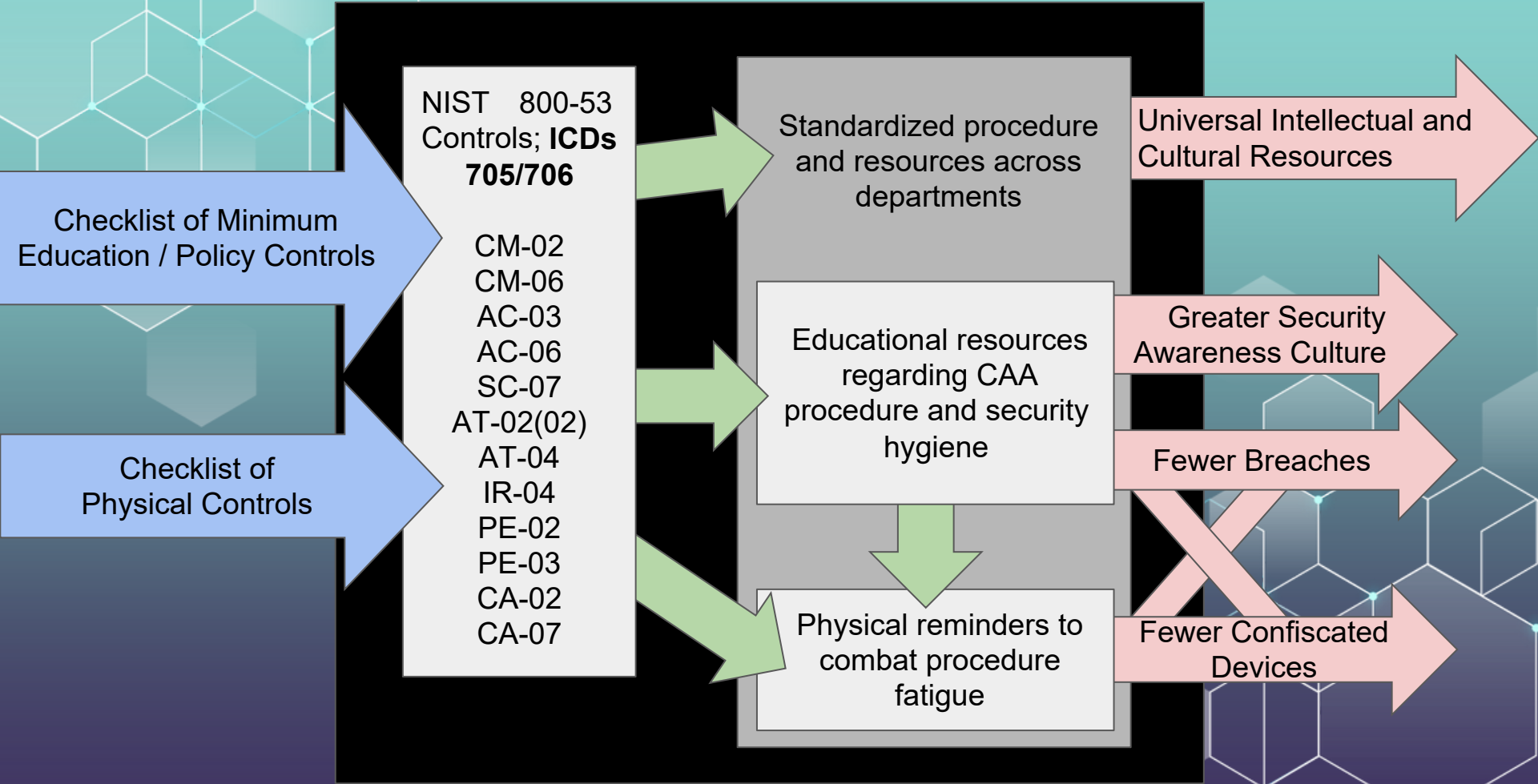
<p>Key Partners </p> <p>Security experts and trained for briefing</p> <p>Security technology providers for smart device detectors and signal blockers</p> <p>Intelligence Community</p> <p>Joshua Ellwein</p> <p>Jose Moreno</p> <p>Jason Hewkin (Ottawa)</p>	<p>Key Activities </p> <p>AT-1: Training and culture shift</p> <p>SI-5: Personal reminder / alerts</p> <p>IA-3: Device smart detectors</p> <p>PE-7: Personal device lockers</p> <p>Unified Training material</p> <hr/> <p>Key Resources </p> <ul style="list-style-type: none"> System for alerts Feedback for system improvements Training materials and instructor Wearable signal blockers Smart device detectors Personal device lockers Rotating auditory prompts 	<p>Value Propositions </p> <ul style="list-style-type: none"> Increased awareness and vigilance among security personnel Avoidance of legal issues Enhanced security by preventing entry of smart devices in CAA Avoidance of unnecessary delays and confiscations Avoidance of Security Breaches Peace of mind for employees 	<p>Buy-in & Support </p> <p>Local Embassy Security Officers</p> <p>Local Embassy Management</p> <p>Department of State Bureau of Diplomatic Security</p> <hr/> <p>Deployment </p> <p>Pilot test at Tri-Mission Brussels</p> <p>Department of Defense Attache</p> <p>Full-scale rollout across multiple embassies and consulates</p>	<p>Beneficiaries </p> <ul style="list-style-type: none"> Security Engineering Officer Division Director Security Technician Specialist Regional Security Officer Information Management Officer Information Systems Officer Counselor for Political and Economic Affairs Political Officer Economic Officer Marine Security Guards
<p>Mission Budget/Cost </p> <p>total cost = physical control procurement + training cost + auditing + incident response</p>		<p>Mission Achievement/Impact Factors </p> <ul style="list-style-type: none"> Percentage reduction in security breaches related to smart devices (<213,000) Frequency and effectiveness of trainings Maintenance and system performance metrics Feedback and satisfaction ratings from security personnel and stakeholders 		



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Final Minimal Viable Product

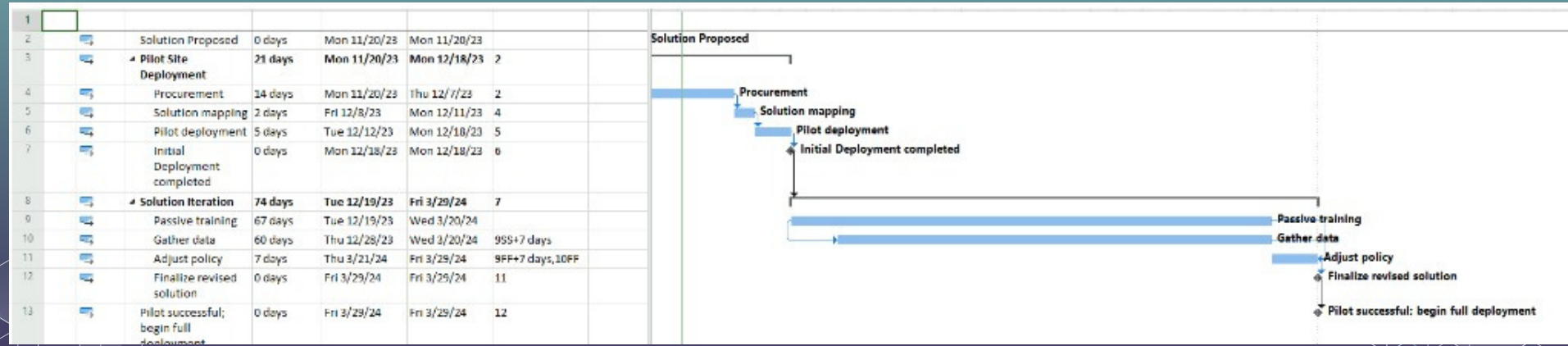


Nist Controls



Deployment

- Pilot Deployment
- Information gathering, adjustments and iteration
- Full deployment



Special Thanks

Joshua Ellwein
Jose Moreno

Problem
Sponsors

Jason Hewkin

ESO -Ottawa
Embassy

Joe Calamari
Lillian
Herrera
Industry Mentors

Jim Santa
Suvam Barui

Course
Managers





Questions?