Pitch Day 1

> "Most importantly, we must empower our incredible Airmen to solve any problem."
>
> -Gen Brown

What: Airmen's pitches for SIF and other resources
When: 26 March 2020 @ 1400
Where: Palmetto Spark Innovation Lab
Uniform: UOD

SIF Current State:

	628 ABW	437 AW	Total
Original	$403,000	$403,000	$806,000
Allocated	$123,924	$65,000	$188,924
Available for Pitch Day	$279,076	$338,000	**$617,076**

Project Name	Sq	628ABW Amount	437AW Amount	Lab Amount
ATAK	628 SFS	$15,000		
CPTS Harddrives	628 CPTS	$2,984		
LIDAR	628 CES	$7,500		
Tron TDY	PS			$10,000
Blotter	628 CES	$18,500		
VR/AR Training	437 OSS		$20,000	
3D Scanner	PS			$40,000
PA Photo Booth	PA	$14,000		
MDG RPA	628 MDG	$18,400		
EOD ATAK	628 CES	$2,540		

Pitch Day Flow

Welcome

Status of SIF

Expectations

Pitches

Closing Remarks

Expectations:
- 5-7 Minute Presentations
- 3 Minutes for Q&A
- Funding decisions will not be made until all pitches are heard

628 LRS LGRM PITCH DAY
CAPT DAVID SAGE

THE PROBLEM

LOW TECH PROCEDURES
Warehouse operations in the civilian market are being driven by technology. Many processes conducted by Airmen should leverage digital technologies but are still utilizing analog methods.

REPETITIVE PROCESS
Some accountability processes are repetitive and time consuming. Processes that take large amounts of time introduce error and duplication of work.

THE SOLUTION

Overhaul of LRS warehouse operations:

In the storage category we have identified RFID tags that reduce inventories from weeks to days.

For mobility support, we identified improvements to acquire storage shelving that enhances accountability of assets.

WHY IT MATTERS

MIRRORS PROCESSES AND PROCEDURES IN INDUSTRY
By improving the way we enable our Airmen to do their jobs we can improve retention, morale, and lethality of the force.

REVITALIZING OPERATIONS WITH MODERN TECHNOLOGY
This proposal targets improvements both large and small that return valuable time and resources to our Airmen. Airmen who conduct inventories and catalog them save hundreds of hours per year, while Airmen who are supported by these personnel are afforded more direct attention and assistance while processing for a mobilization.

BENEFICIARIES

LGRM Supply Technicians
Installation Deployment Readiness Cell
Deploying Members from JBC

POTENTIAL ROADBLOCKS

RFID Tagging
Ensuring network system is compatible and secure

Shelving
High acquisition cost of warehouse shelving module.
Acquisition and construction time for the shelving unit.

THE ASK: FUNDING

Requesting approximately $665,000 of Joint Base Charleston Innovation Fund money to purchase provided solutions.

KEY PARTNERS

RFID Tagging

628 CS	**Required to ensure systems are network compatible**
628 SE	Required to ensure appropriate security measures are maintained in the secure vault area
AFIMCS	Standardizing processes- adopt as a best practice, create guidance
Tesseract	Innovation cell within the LogR Enterprise

Vertical Shelving Solution

628 CS	Network hook-ups
628 SE	Required to ensure appropriate lock out, tag out procedures are in place
628 CES	Required to ensure adequate power is supplied to unit

ACQUISITION STRATEGY

RFID TAGS—Available on GSA Advantage
- Procurement would be done via expanded use GPC purchase
- This unit's price is the most reasonable for the application we intend to use it for
   o Tracking government property

Vertical Storage Shelving—VENDOR, pending cost estimate
- This purchase has multiple possible sources of acquisition
- One vendor has conducted a site visit and is drafting a cost estimate
- Two additional vendors are being coordinated with to ensure fair market pricing

DEPLOYABLE MPC/INTEL
CAPT CARLEN VICIAN

THE PROBLEM

NO EFFECTIVE DEPLOYABLE MPC/INTEL CAPABILITY
The 437 AW does not have the communications infrastructure to conduct ACE operations, such as a Mission Planning Cell at the SECRET level world-wide.

THE SOLUTION

Purchase 1x VIASAT MMT or GATR system with NIPR/SIPR/JWICS capabilities.

Purchase rapidly deployable MPC tent to house communications suite, plus the intel and aircrew mission planning cells.

Create a scalable deployment ready system from three-four individuals with 2-3 pelican cases up to a ready-to-fly ISU containing all the required materials.

WHY IT MATTERS

ENABLES THE 437 AW TO COMPETE VERSUS A NEAR-PEER ADVERSARY
Agile Combat Employment (ACE) is one of the key concepts to achieving Gen Brown's "Accelerate Change, or Lose" initiative. In order to compete versus a near-peer adversary, the 437 AW must be able to conduct both Mission Planning and Intelligence Activities world-wide with a small and rapid footprint.

GETTING INTEL IN THE JET / CONNECTING THE MAF TO JOINT PARTNERS
Information has become one of the dominant facets of modern warfare, and the VIASAT/GATR communications systems will enable 437 AW/Intel to connect to the Intelligence Community, providing real-time threat analysis, indications and warnings, and access to the many tools on both SIPR/JWICS. This will provide a high level of situational awareness across the Air, Land, Sea, Space, and Cyber Domains. The comms suite will also enable C-17A aircrew to connect to both CAF and Joint partners to conduct mission planning anywhere and anytime, enchancing integration.

BENEFICIARIES

All Aircrew, Intel Airmen, Joint Partners

POTENTIAL ROADBLOCKS

High Cost

THE ASK

MONEY
Requesting approximately $500,000 to purchase provided solution.

KEY PARTNERS

437 OSS/OSK	Will be primary organization using the system for a MPC

ACQUISITION STRATEGY

VIASAT MMT or GATR Communications Suites Development ($500k) –

Form 9 most likely

V.I.S.A
SSGT JESSE LEDOUX

THE PROBLEM

ELIMINATING HUMAN ERROR/ENHANCING BASE SECURITY
The 628th ABS has a redundant process for searching and inputting data into our system of tracking commercial vehicles entering the installation.

THE SOLUTION

To purchase 2x V.I.S.A. systems that integrate with NCIC, DBIDS, and Air Force NIPR networks to be installed at the Visitor Centers along with search pit ECP's so defenders can access and rapidly determine if entry is permitted onto the installation. Doing so eliminates human error along with streamlining the process to ensure speedy and safe entry into the installation.

WHY IT MATTERS

ENABLES THE 628 AB SECURITY FORCES TO REDUCE HUMAN ERROR AND ENHANCE BASE SECURITY
V.I.S.A. is a new system in process of being employed at Eglin AFB that will be in place 1 April 2021. In doing so they have been able to test the system before installing and identified any discrepancies along with giving positive feedback on how to properly employ, train, and become proficient in daily operations at the Visitor centers and Commercial Vehicle Search Gates.

ADDITIONAL BENIFITS
Streamlining traffic through the Search Pit and having a readily accessible and responsive system that incorporates multiple beneficial/crucial components used daily. This ensures the bases security, the safety of all personnel coming onto the installation, as well as shifting focus to verifying cargo integrity from data entry.

BENEFICIARIES

All Security Forces, Contracting agencies, Base operations

POTENTIAL ROADBLOCKS

Cost of the system, along with getting training all agencies and having them on board with how to use and employ this new system correctly.

THE ASK

BETWEEN $90K AND $660K FOR VISA SYSTEM AND IMPROVEMENTS

KEY PARTNERS

628 CPTS	MIPR the funds
628 CONS	Phase 3 Contract

ACQUISITION STRATEGY

MIPR to Platform One
SBIR Sole Source Phase 3

ROBOTIC PROCESS AUTOMATION

THE PROBLEM

LEGACY/CLOSED SYSTEMS DO NOT TALK TO EACH OTHER…OR POWERPOINT

THE SOLUTION

Robotic Process Automation

WHY IT MATTERS

AIRMEN TIME IS A VALUABLE RESOURCE
Our Airmen are a resource that we cannot easily get more of therefor anytime spend transcribing data from system to system or manually building slides is Airmen time that could have otherwise been spent on tasks that require critical thought or creativity.

ADDITIONAL BENEFITS – BETTER DASHBOARDS
Leaders rely on dashboards to visualize large amounts of information in a readily digestible manner, but most dashboards are rarely updated because of the Airmen time required to do compile and format the data. Reducing the Airmen commitment to a button press will enable us to build better, more accurate, and more frequently updated dashboards for leaders at all levels.

BENEFICIARIES

Any Airmen who transcribes data to/from legacy or closed systems.

POTENTIAL ROADBLOCKS

DHA Cyber approvals, Training required

THE ASK

20 LICENSES $66,637
10 VIRTUAL TRAINING SLOTS $12,000
10 IN PERSON 5 DAY COURSE SLOTS $30,000

KEY PARTNERS

628 CONS	Contract Support

ACQUISITION STRATEGY

Local contracts

FLIGHTLINE LIGHTNING NOTIFICATION PROJECT
MSGT CHAD TAYLOR

THE PROBLEM

DELAYED LIGHTNING NOTIFICATIONS
The current notification process can take upwards of 7-8 minutes to notify individuals working on the flightline due to the number of agencies involved.

THE SOLUTION

Purchase the fully automatic lightning monitoring & notification system from Earth Networks.

WHY IT MATTERS

ENABLES INSTANTANEOUS LIGHTNING NOTIFICATIONS
During the summer pop-up thunderstorms pose a significant threat to our maintainers and aircrew in terms of lightning strikes. This solar powered system will monitor lightning and automatically provide audible/visual notifications for the entire flightline with no human interaction, thus removing any delay that currently exist.

ADDITIONAL BENIFITS
This system could be expanded to include other parts of base like the running track or golf course.

BENEFICIARIES

Individuals on the airfield and anyone on base via smartphone notification.

POTENTIAL ROADBLOCKS

Possible interference with other notification systems (Giant voice) and airfield lighting compatibility. This solar powered system is self-contained but a hardwired option is available and will require electrical power to be ran to each light by either CE or another contractor.

THE ASK

FUNDING (SOLAR POWERED OPTION)
$90k for system installation plus $3k/yr for software and data feeds.
-OR-
$30k for system installation and first year LEASE plus $23k/yr thereafter.
   *Lease includes ALL maintenance and repairs.
   ** Hardwired option is less for both options but will require electrical.

KEY PARTNERS

Requestor And Additional Players	437AW Flight Safety
	In coordination with the 437 OSS and 628 ABW Safety

ACQUISITION STRATEGY

Earth Networks will install and maintain the system
Form 9

PUCKBOARD LOGGING
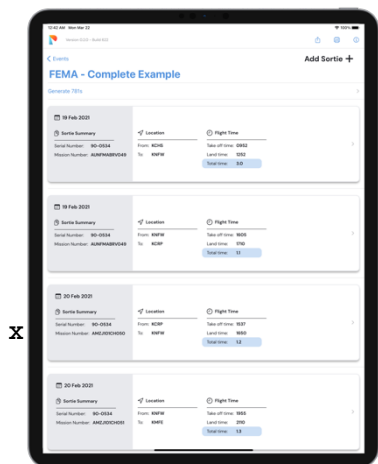## CAPT CHRISTIAN BRECHBUHL

THE PROBLEM

ELIMINATING AIRMEN TIME SPENT TRANSCRIBING POST-MISSION PAPERWORK

Across the MAF Airmen spend hours transcribing data from paper forms to multiple systems of record in a slow, error prone, and frustrating process.

THE SOLUTION

Puckboard Logging is an EFB based app that auto-calculates, error checks, and transcribes post mission data into systems of record. Built on top of the Puckboard ecosystem PBL can be accessed anywhere in the world and securely transmits data back to the home squadron and HHQ.

WHY IT MATTERS

POST MISSION DATA IS SLOW & ERROR PRONE

Slow, manual, and error prone post mission data degrades our mission generation process by requiring Airmen to constantly re-check work done during previous stages, correct errors (while often accidentally introducing new ones), and the entire process must wait until a crew lands back at Charleston and physically turns in paperwork. Squadrons (Go/No Go) and HHQs depend on accurate, up to date, and reliable data to make mission impacting decisions daily, our current technology does not support this requirement.

ADDITIONAL BENEFITS – AIRMEN TIME

On average 12 Airmen from the Aircrew to SARM reviewer handle each 781, often manually re-doing the math and transcribing the data into multiple systems of record. Each mission post-mission package takes 8-10 hours of Airmen time to validate and input into the systems of record. Puckboard Logging saves 90% of this Airmen time by automating the math/error checking process and pushing data directly to ARMS.

BENEFICIARIES

Pilots, Loadmasters, SARM, ADOs, and Maintenance Debrief.

POTENTIAL ROADBLOCKS

ARMS integration continues to be a big lift.

THE ASK

$100K INCREMENTS TO FUND THE EXISTING TEAM PAST INITIAL SBIR

PALMETTO SPARK, JOINT BASE CHARLESTON SC

PALMETTO.SPARK@AFWERX.AF.MIL | PALMETTOSPARK.ORG

KEY PARTNERS

628 CPTS	MIPR the funds

ACQUISITION STRATEGY

MIPR to GSA