




it's kind of fun
to do the
impossible
WALT DISNEY



DRIVING CHANGE & DEFYING ENTROPY

BRIG GEN LINDA HURRY
DIRECTOR OF LOGISTICS, AF/A4L

A fighter jet is parked on a tarmac during sunset. The sky is filled with dramatic, dark clouds. A person is visible in the cockpit area. The jet's nose is prominent in the foreground. The text "We have a once in a generation opportunity..." is overlaid in white. On the side of the jet, the name "SSgt THEODORE BROOKS" and "SP4 JUSTIN ARMSTRONG" are visible, along with the number "5029".

**We have a once in a
generation opportunity...**

**To fundamentally change
Logistics**





**UNLOCK THE UNREALIZED CAPACITY
OF THE
SUSTAINMENT ENTERPRISE**



SUSTAINMENT STRATEGIC FRAMEWORK

North Star Metrics

Focused on **Readiness** through End to End Performance Measurement

Optimize Scheduled Maintenance

Align, synchronize, and better schedule inspections – match requirements with capacity

Key Enablers

BLADE

Tesseract

AME

Theory of Constraints

Fleet Management

Pursue **Enterprise Fleet Management** function based on **Fleet Readiness Level** framework *(Under Construction)*

VISION

Quickly assess **Ready Aircraft** and leading indicators of **Fleet Health**

AIRMEN

ENDSTATE

Healthier Fleet and **Readiness** to support ACE Concepts

Predictive Analytics

Expanding CBM+ implementation and enabling a digital-physical feedback loop

Resilient Supply Chain

Proactive and **Resilient** Supply Chain oriented toward Weapon Systems

Integrated Repair

Expanded and fully **integrated** Repair Networks





THEORY OF CONSTRAINTS



**RECOVER
READINESS
FASTER**

**We must listen to
our Airmen**



//

HERE'S TO THE CRAZY ONES.

The misfits.

The rebels.

The troublemakers.

The round pegs in the square holes.

The ones who see things differently.

They're not fond of rules.

And they have no respect for the status quo.

You can quote them, disagree with them,

Glorify or vilify them.

About the only thing you can't do is ignore them.

Because they change things.

They push the human race forward.

And while some may see them as the crazy ones,

We see genius.

Because the people who are crazy enough

To think they can change the world,

//

ARE THE ONES WHO ACTUALLY DO.

-Apple





EDUCATION WITH INDUSTRY CAPSTONE PROPOSAL

An Air Force EWI Application of Business Best Practices

Project Tesseract: Trusting Airmen to Transform the Logistics Enterprise

→ Why the Air Force needs to manage fleets like Delta and modernize its supply chains with AI and automation using Amazon's agile culture

→ How Airmen embedded with industry and academia can reform processes, leverage data, and develop software and robotics



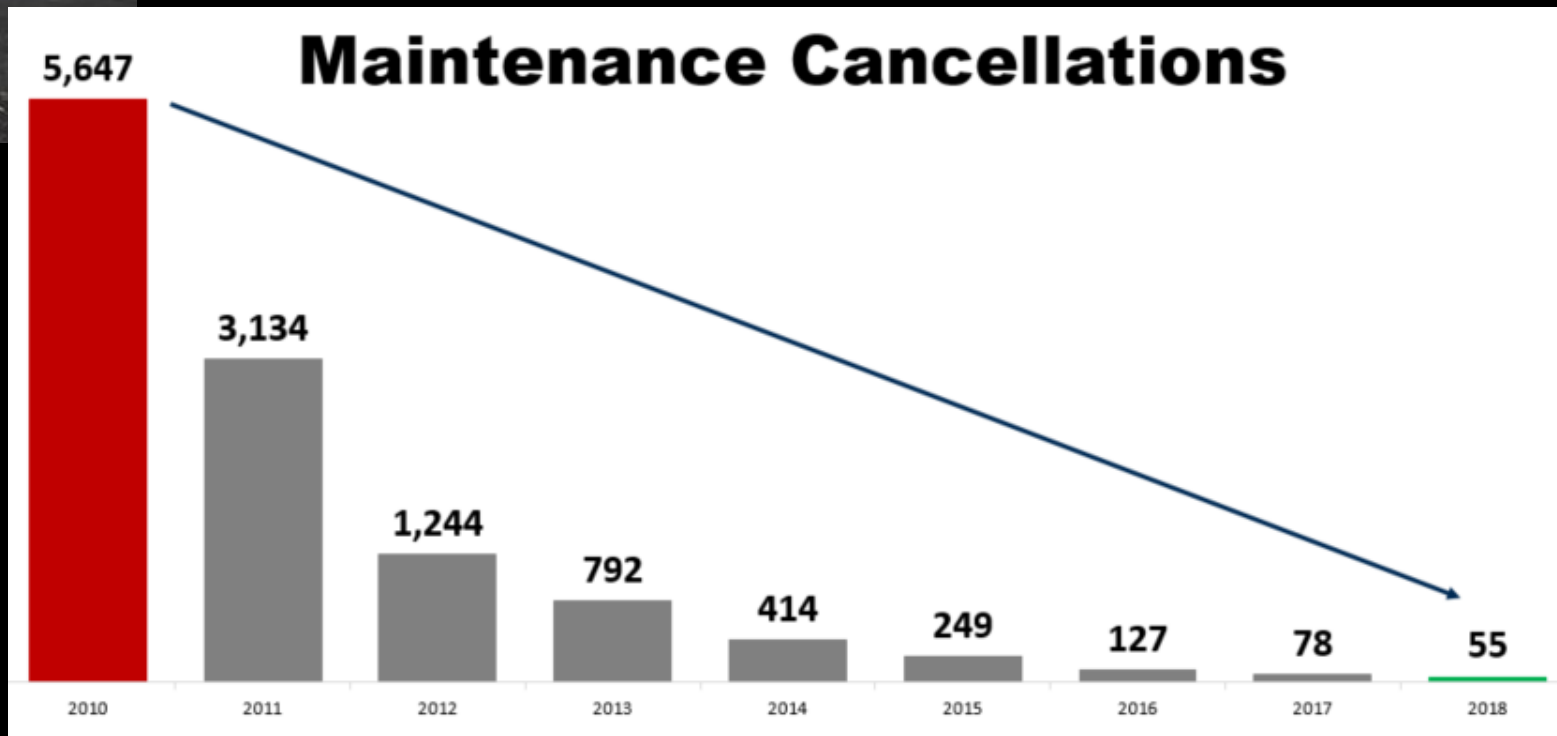
Garrett Hernandez, Major, USAF
Logistics Readiness Officer
Amazon, Seattle, WA



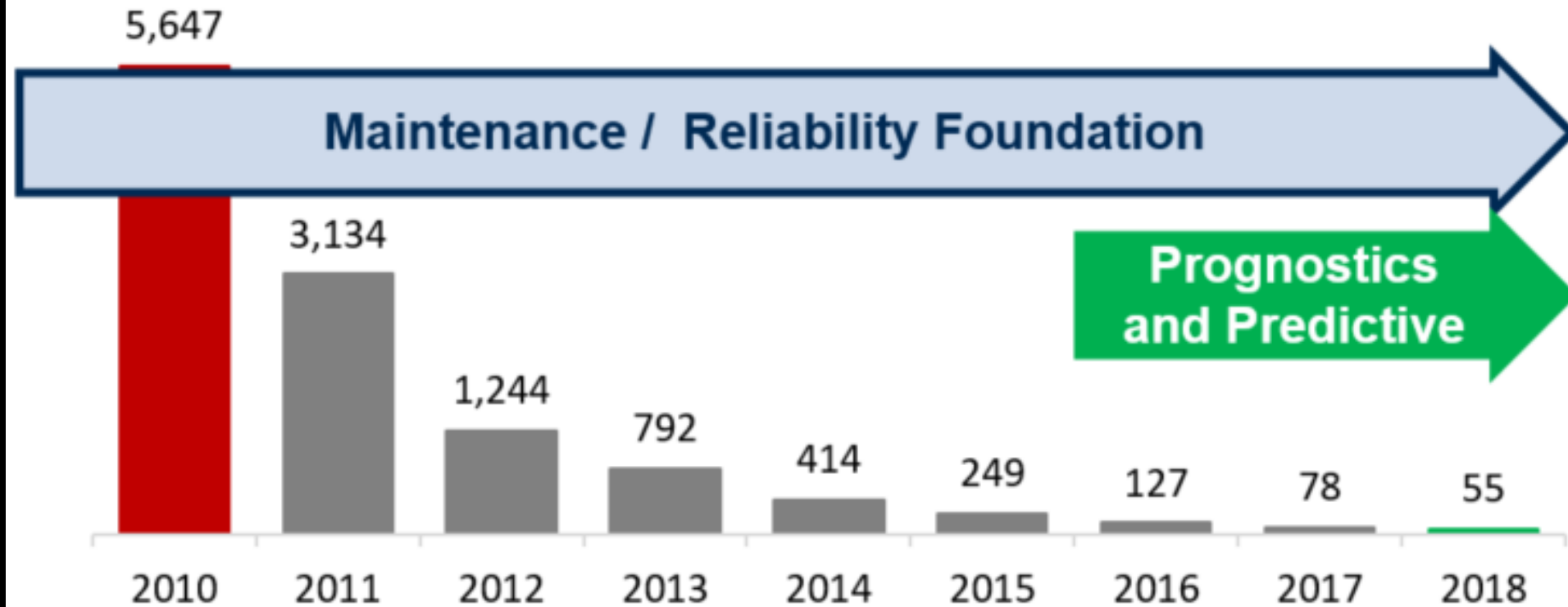
Kelsey Smith, Captain, USAF
Aircraft Maintenance Officer
Delta Tech Ops, Atlanta, GA



Executive Summary: The Secretary of the Air Force has directed logistics and maintenance leaders to leverage mature, new, and emerging technology to reduce sustainment costs and improve readiness. "We will no longer pay premiums for things we can manufacture on our own," said Wilson. "We will leverage agile manufacturing and reform legacy sustainment processes to drive down costs and meet warfighter needs rapidly."¹ To meet that intent, the logistics and maintenance



Maintenance Cancellations



Here's Amazon's new transforming Prime Air delivery drone



More than 100 million Alexa devices have been sold



What's next for Amazon Scout?



New York Proves Amazon Go Works, And An Even Bigger Rollout Is Only A Matter Of Time



Just Walk Out!

Why Kiva Is Worth \$775 Million to Amazon

Random Stow + Mobile Shelves =
Capacity!





Snowball Edge for Defense Ops

→ Tactical edge without connectivity

Brings AWS to tactical field locations with no network connectivity

Tamper-resistant



- Handles up to **200G impact**
- Airdrop-able
- MIL-S-901D Grade B
- Meets FISMA High, FedRAMP ITAR, CJIS, and DoD SRG Impact Level 6 requirements



Operates on unconditioned power and harsh environments (0° to 45°C)



- Data secured with military-grade encryption
- Designed to be operated by non-technical personnel

49lb

Weighs 49 lbs, can be handled by a single person

Tesseract?! Huh?!





**“Everyday the Air Force breaks down...
and Logistics Airmen Put It Back Together Again.
They Defy Entropy.”**

Fix a process?

Code an app?

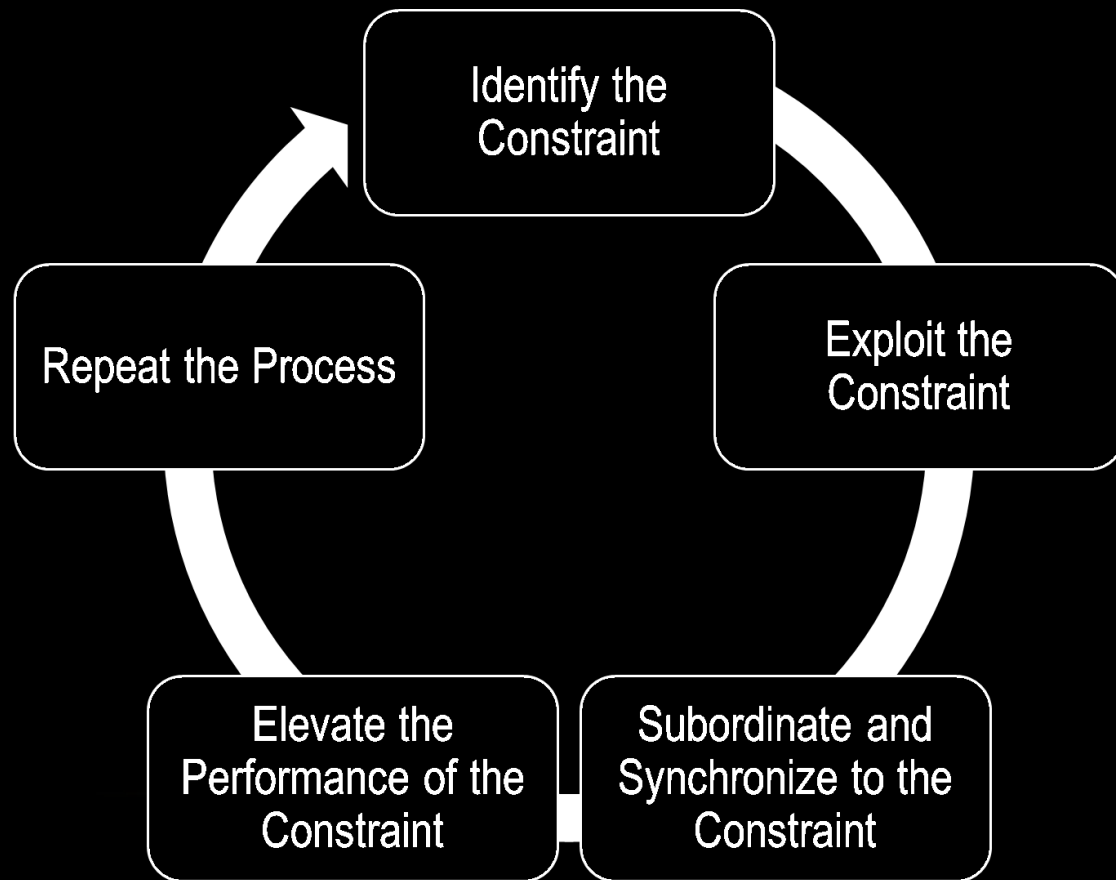
Build a robot?

Build *a team!*

Launch *a startup!*

Simple Math

**Comprehensive Process Re-Engineering
Using Lean Management Techniques**



+

**Agile Tech Insertion to
Close IT Gaps & Harness Data**



*—Jack Arehart
President,
Delta MRO
Services*

“Knowing what we know today, if we could go back and change one thing, we would have increased our investment in targeted IT solutions to accelerate our progress.”



TESSERA CT

Target. Fix. Launch...Culture, Process, Technology

Atlanta-based triple-helix team of Logistics and Sustainment Airmen standing shoulder-to-shoulder with Delta TechOps & GTRI

Comprehensive Process Reengineering using Theory of Constraints to target culture, policy, process, & resource constraints

Infuse Health
Like Delta



Inject Tech
Like Amazon

Agile Tech Insertion through continuous software delivery and hardware integration to optimize enterprise data-driven logistics

Align Agile Combat Employment & MDC2 with Flight Line of the Future & Log IT transformation to win the NDS fight

What policy and processes would you change?

What technology do you need?

**We want your answers... and we're looking for
volunteers!**

**Email Name, Rank, AFSC, Unit, Base to
tesseractAF@gmail.com
Tweet @tesseractAF**

FORCE & DEVELOPMENT LEADERSHIP





LOGISTICS IS A TEAM SPORT





Family... and Thank You!

