



SAF AQ Office of Transformational Innovation (OTI)

“Who Cares” brief on the new USAF
Open Systems Acquisition OSA
Option...

Motivation

- Open System Approaches are promising, but so far government success has been elusive...

Meanwhile...

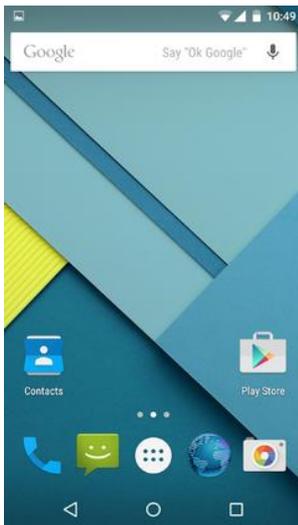
- Better Buying Power 3.0 says “Do more without more...”
- Congress (Sect 801 FY15 NDAA) says Thou Shalt use MOSA to get better, faster, and cheaper...
- Etc...(lots of unfunded mandates and wonderful ideas...)



OSA aims to help beleaguered PMs by providing top cover, training, and tools... such as the OSA OTA...

Open System Architectures

- Transitioning Air Force systems to open architectures is a cost, schedule, and capability imperative. But why aren't we there yet?
 - Agreement on standards...or even basic principles of open architectures
 - Archaic and cumbersome acquisition process
 - Archaic and cumbersome accreditation & authorization process



Download an App using the Defense Acquisition System

- 2+ years to procure
- ~2 years for A&A

Would you buy the app...or the phone?

A New Way of Doing Business

Open Accelerated Procurement

+

Open System Engineering

= Open System Acquisition (OSA)

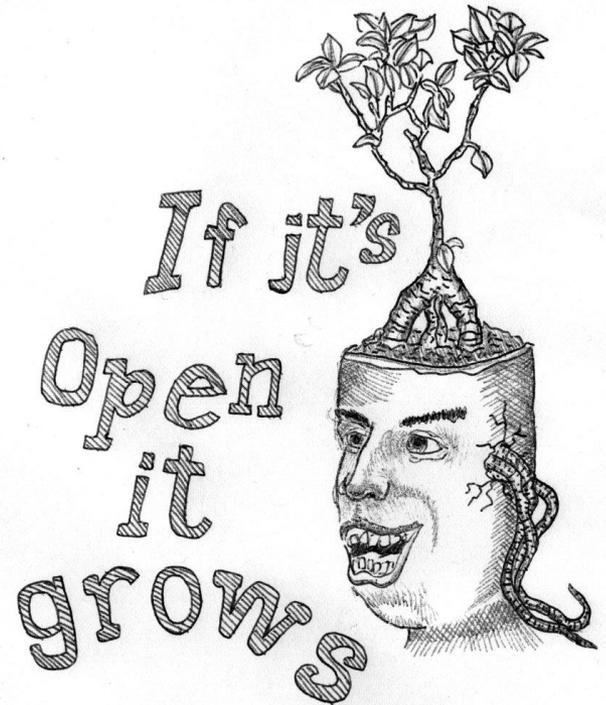
Open Accelerated Procurement

- Using “Other Transactions” Agreement (OTA) to prototype better procurement vehicles.
 - Non- FAR based approach to procurement
 - Designed to prototype new tech...and...new concepts...like OSA
 - “Performer” is non-profit consortium
 - Incentivizes non-traditional firms to compete
 - Conceptually similar to a BAA + IDIQ but more flexible and faster
 - Flexible Intellectual Property Rights options
 - Boilerplate OSA CLINS, CDRLs, PWS, SOO, DIDS etc. “bake” open system engineering into contract language
- USAF OSA OTA is open for business!



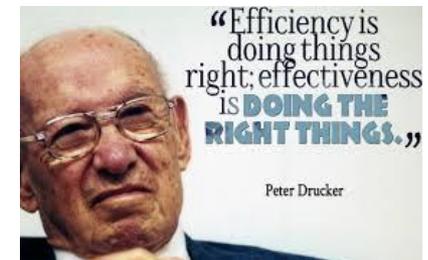
Open System Engineering

- Product Line Architecture (PLA) aligns MOSA to business strategy
- Customer-in-the-loop (mission thread-based requirements)
- Rapid, iterative, parallel development
- Virtualized, open standard security and A&A
- V&V and A&A via Plug Testing
- Component-level tech transition to supported COTS/GOTS
- Guidance and boilerplate per all the above



Why Should I?

- Free-and-Open RFP to Award \leq 30 days
 - Expert traditional and non-traditional firms already “on contract” as members of OTA consortium
 - AoA/Trades/due diligence is a documented by-product of solicitation process
- OSA Best Practices are Built In
 - “Chinese menu” of templates for OSA procurement: e.g., SOO, PWS, CDRLs, CLINS, DIDS, metrics, data rights
 - “Plug Test” option for
 - Competition/award
 - Program V&V,T&E, A&A
 - Front-end-loaded prototype-to-sustainment transition strategy



What are the Constraints?

- Must address open system requirements
- \$10M ceiling per award*
- Current OTA only supports “prototyping”
 - Must transition tech to sustainment phase via another vehicle**
 - Color of money must be appropriate to nature of prototype, usually (not always) RDT&E
- New paradigms for, e.g., Security/A&A, Open System IP regime, Plug Testing, are works in progress

*Total ceiling of \$99M can be increased.

**SAF AQ OTI is working to expand application of OTA. Meanwhile, OTI can assist with strategies for OSA-appropriate, streamlined tech transition

What's The Risk? (Mitigation)

- New approach means learning curves and growing pains

(Concept is to fail fast and cheap, learn by mistakes, and then succeed.)

- OTAs are not pro-forma or constrained by the FAR. They start with a “clean sheet of paper” to reduce “arms-length” bureaucracy. Perception is that this introduces risk of abuse.

(Historical facts do not bear out perception. Further, OTA's have much higher bar for industrial protest compared to FAR vehicles. ... Flip side is reduced risk to cost & schedule... In any case, AFRL has taken on this risk on behalf of USAF.)



How Do I Play?

- Scope OSA project execution plan*
 - Parse OSA requirements to address in rapid incremental development.
 - Consider including Plug Test plan.
 - Include transition strategy for delivering life-cycle-supported plug-and-play capability
- Prepare concise, rapid turn around, solicitation for first increment
- Iterate with OSA OTA contract office to MIPR funds and engage consortium to execute solicitation, award, and development. (POC: Maj. Steve Nielson (steven.nielson.1@us.af.mil) (315-330-4917))

→ *Contact SAF AQ OTI for advice, suggested partners, lessons learned, boilerplate templates, and/or more background. (POC: Chris Gunderson christopher.r.gunderson.civ@mail.mil
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