



# **Air Force Small Business Innovation Research (SBIR)**

**-- Commercialization Pilot Program (CPP)**

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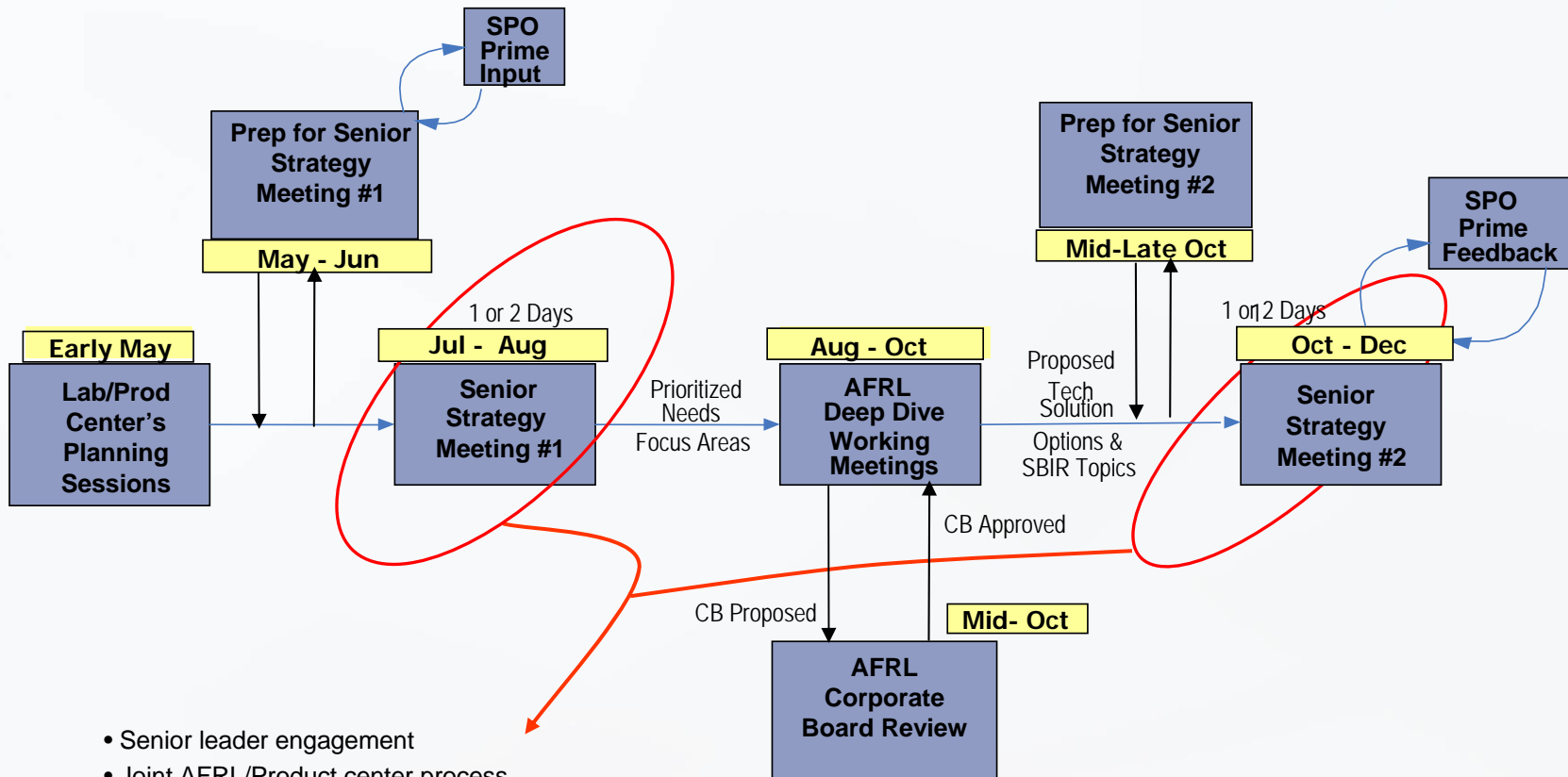


# AF SBIR: What's New?

*-- revitalization in progress*

- **New SBIR Topic Allocation Distribution**
  - Based on \$\$ Contribution: 64% allocated to PEOs vice 47% last year
  - Goal: Focus on near term funded acquisition technology based needs
- **Strategy vs Tactics**
  - More strategic topic generation process with closer ties to acquisition community and prime contractors
- **Air Force SBIR Commercialization Pilot Program (CPP)**

# Air Force Technology Needs Gathering Process



- Senior leader engagement
- Joint AFRL/Product center process
- Multi-directorate AFRL engagement
- PEO/TEO approval
- SPO Primes participation

**Strategy Driven Process**



# Product Center Needs

## --Identification/Documentation Template

Program of Record: \_\_\_\_\_ Product Center Need Id # (ex. ESC-07-001): \_\_\_\_\_

Technology Need Description:

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Technology freeze date if applicable: \_\_\_\_\_

Desired Key Performance Parameters:

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Product Center's POC to support AFRL Deep Dive team (Name & Contact Info):

Related Development Efforts:

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<b>PEO Priority</b>	
High	<input checked="" type="checkbox"/>
Medium	<input type="checkbox"/>
Low	<input type="checkbox"/>
System Specific?	<input checked="" type="checkbox"/>
or	
Pervasive Need?	<input type="checkbox"/>
Prime Input to	YES <input checked="" type="checkbox"/>
Tech Need?	NO <input type="checkbox"/>



# Product Center/AFRL

## -- Tech Need Solution Template

### Technology Challenge Description:

Product center defined need

Prog Office: F-15 (POC name)

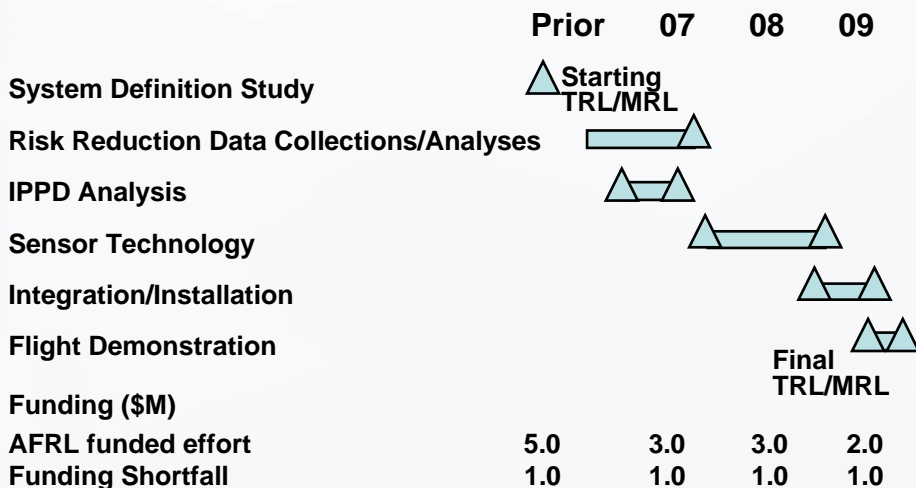
### AFRL Proposed Approach:

- Brief description of the proposed solution

Core	<input checked="" type="checkbox"/>
POM	<input type="checkbox"/>
SBIR	<input checked="" type="checkbox"/>
ManTech	<input type="checkbox"/>
IR&D	<input type="checkbox"/>
Referral	<input type="checkbox"/>

List TDs participating in solution and Include Lead POC

### Technology Investment Schedule (FY)

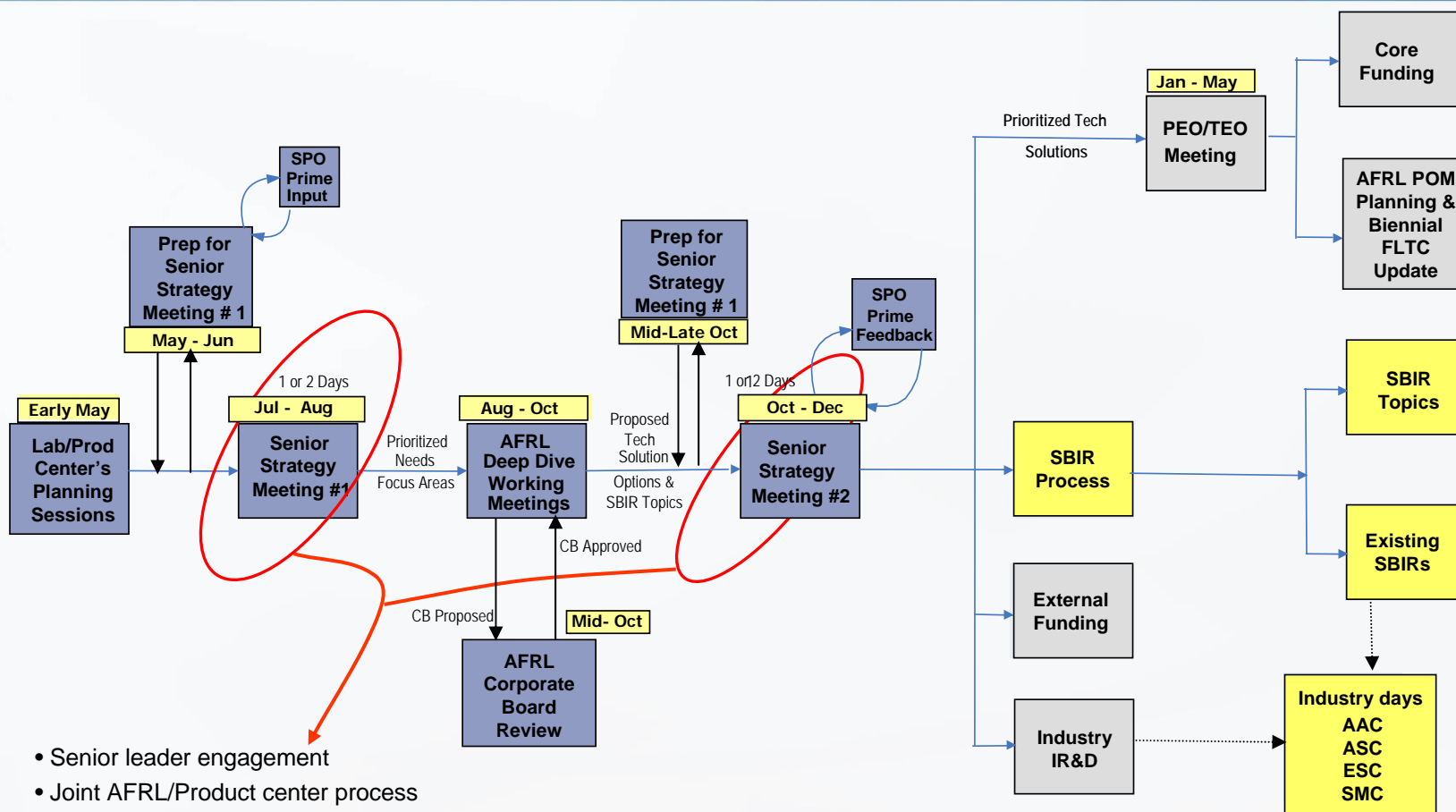


### Solution Options:

- Core Funding - Modify existing program (6.2 or 6.3)
- New AFRL POM Initiative (6.2 or 6.3)
- SBIR
  - Topic: "Interesting SBIR prog" (ID potential Jumbo topics) in FYxx
  - Modify existing Phase I or II prog
- 7.8 (ManTech) Effort
- IR&D opportunity
- Identify other agency S&T efforts
- External programs (Customer, other agency)



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**Strategy Driven Process**



## AF CPP Strategy

- Utilize CPP to significantly strengthen the impact and appreciation of the SBIR Program for AF PEOs and staff
  - Strategic vs. Tactical framework
  - Improve connectivity among all critical AF SBIR program participants
    - PEO Organizations/Log Centers/Test Centers
    - AF Research Lab
    - PEO Prime Contractors and Suppliers
  - Increase technology transition opportunities to support the Warfighter





## AF CPP Strategy (con't)

*--SBIR Transition Support Contract*

- SBIR Phase 2 Success Stories
  - Track and record all AF SBIR product transitions (Phase III)
- Coordinates with Local AF SBIR Program Managers
  - Assists in identifying SBIR Phase 2 programs with high probability of transitioning
- Facilitates all aspects of SBIR Workshops





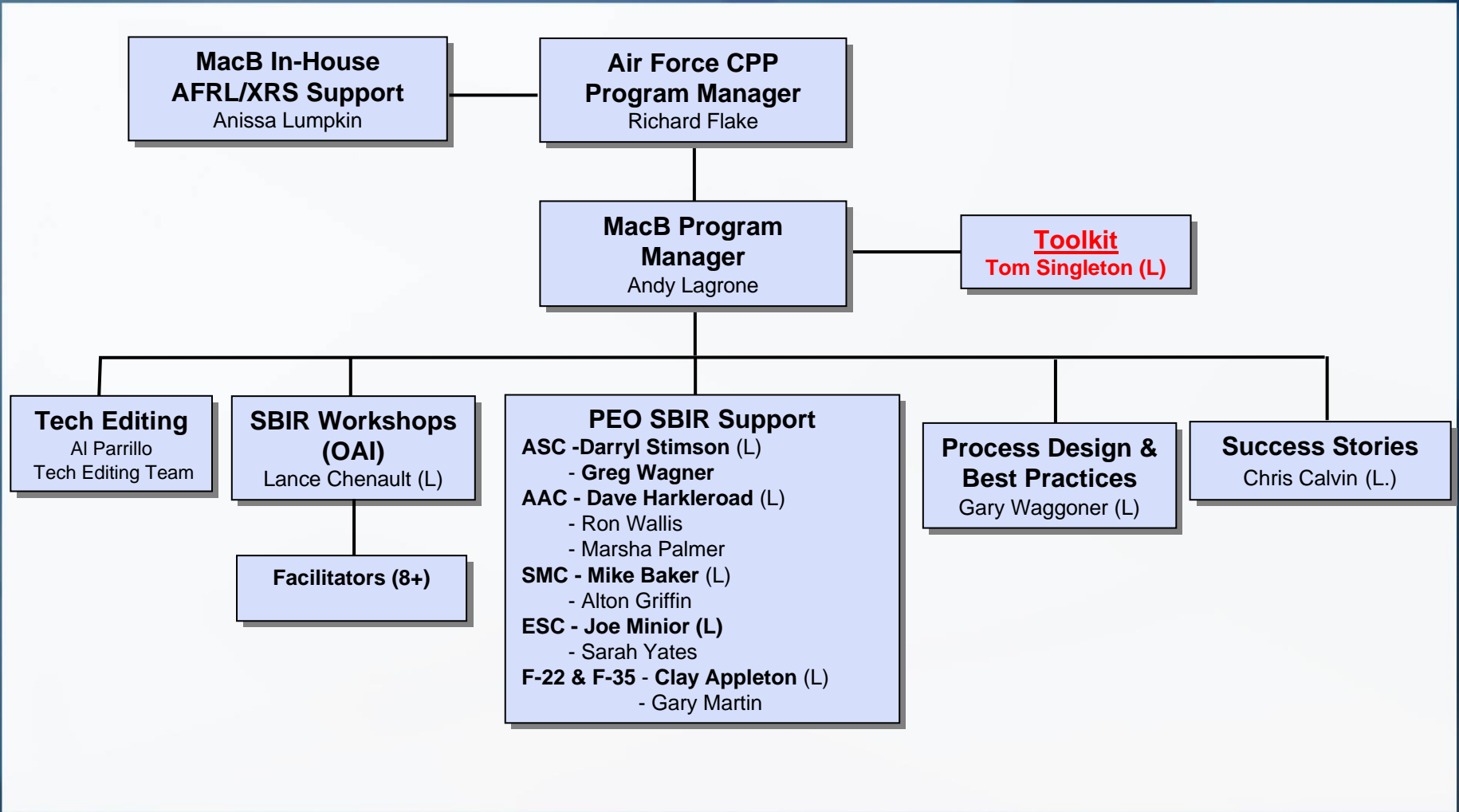
# Air Force CPP Implementation

- Use needs gathering process to identify SBIR Topics tied directly to Acquisition Technology Based Needs
  - Transition Agents are Active members on AF PEO Need gathering teams
- Supports AF acquisition program offices in gathering topic inputs
  - provide a bridge between the laboratory & product centers & both program offices (JSF & F-22);
  - Product Centers:
    - Space and Missile Systems Center (SMC)
    - Aeronautical Systems Center (ASC)
    - Electronic Systems Center (ESC)
    - Air Armament Center (AAC)
- Coordinates Prime Contractor Input
  - Assist with Specific SBIR Topic Generation
- Helps develop transition strategies, plans & agreements
  - **S**BIR **I**echnology **I**ransition **P**lan (STTP)



# SBIR Transition Support Team

-- "Transition Agents"





## Tool-Kit (Assistance Instruments)

- SBIR
  - Enhancements
  - Extensions
- Mission funding
  - AFRL
  - PEO
- IR&D funding
- Mentor-Protégé
- Manufacturing Technical Assistance Production Program (MTAPP)
- Etc.



# SBIR Workshop Planning Process

- Data Mining
  - Match PEO needs to existing Phase II SBIRs
- Technical POC
  - Make contact with Government Technical POCs to verify SBIR status
- Small Business
  - Collect information from Small Business Principle Investigators
- Primes/Industry
  - Review SBIR Business summary reports
  - Select small business for invitation to workshop
- AF Acts as “Honest Broker” & Workshop Facilitator
- MacB Transition Team
  - Facilitate one-on-one sessions between SBIR & supply chain contractors



# SBIR Workshops

- Air Force conducts interchange workshops between industry supply chain & small business contractors
  - JSF & F-22 Industry Workshop Nov 07
  - ESC Industry Workshop Feb 08
  - SMC Industry Workshop Apr 08
  - ASC Industry Workshop Summer 08
- Objectives of Workshops
  - Identify areas of mutual interest
  - Initiate a “Way Forward” for small businesses and supply chain contractors

**Small Businesses - By invitation only**



# Technical Information Document

- SBIR Topic Number/Contract Number/SBIR Project Title
- Company Name
- Government SBIR PM and TPOC
- Description of Work (Phase II Abstract)

**Collected  
prior to  
TPOC calls**

- Verify Company PI and POC contact information
- Additional Funding (Extension/Enhanced)
- Current status of Technology Development
  - Meeting milestones
  - Expected TRL at completion
- Potential match for PEO need?

**Collected  
from TPOC**



# Business Information Document

- SBIR Topic Number/Contract Number/SBIR Project Title
- Company Name
- Company PI and POC contact information
- Description of Work (Phase II Abstract)

**Collected  
prior to  
TPOC calls**

- Do they have:
  - Tech Transition/Commercialization Experience
  - Ability to manufacture the technology
  - Past/current contact with major DOD Primes/Suppliers
  - Industry certifications (ISO 9001, ASE, EN 2000, etc.)
- Do they intend to:
  - Manufacture the technology
  - License the technology

**Collected  
from  
TPOC**





# Business Summary Document

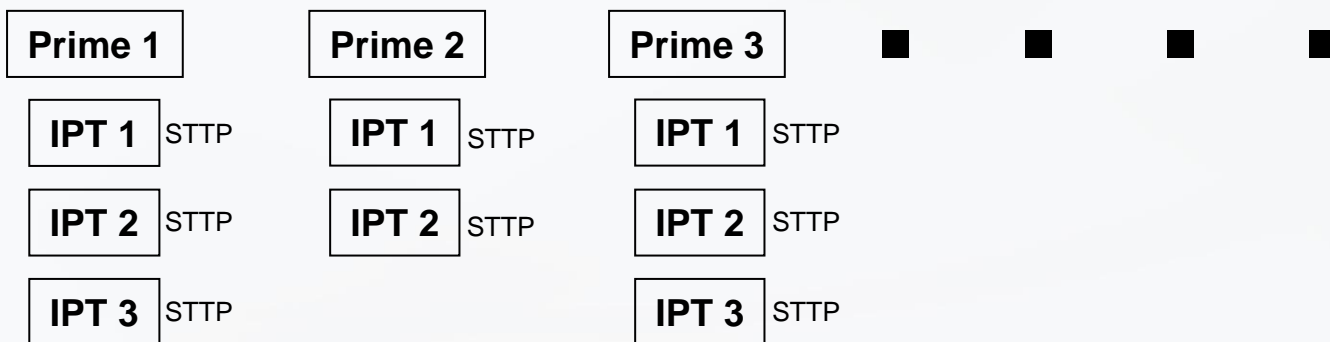
*-- Information sent to Primes/Suppliers*

- SBIR Topic Number/Contract Number/SBIR Project Title
- Company Name
- Company PI and POC contact information
- Description of Work (Phase II Abstract)
- Status of:
  - Funding (Extension/Enhanced)
  - Technology Development
- Company Qualifications:
  - Tech Transition/Commercialization Experience
  - Ability to manufacture the technology
  - Past/current contact with major DOD Primes/Suppliers
  - Industry certifications (ISO 9001, ASE, EN 2000, etc.)
- Company intend to:
  - Manufacture the technology
  - License the technology



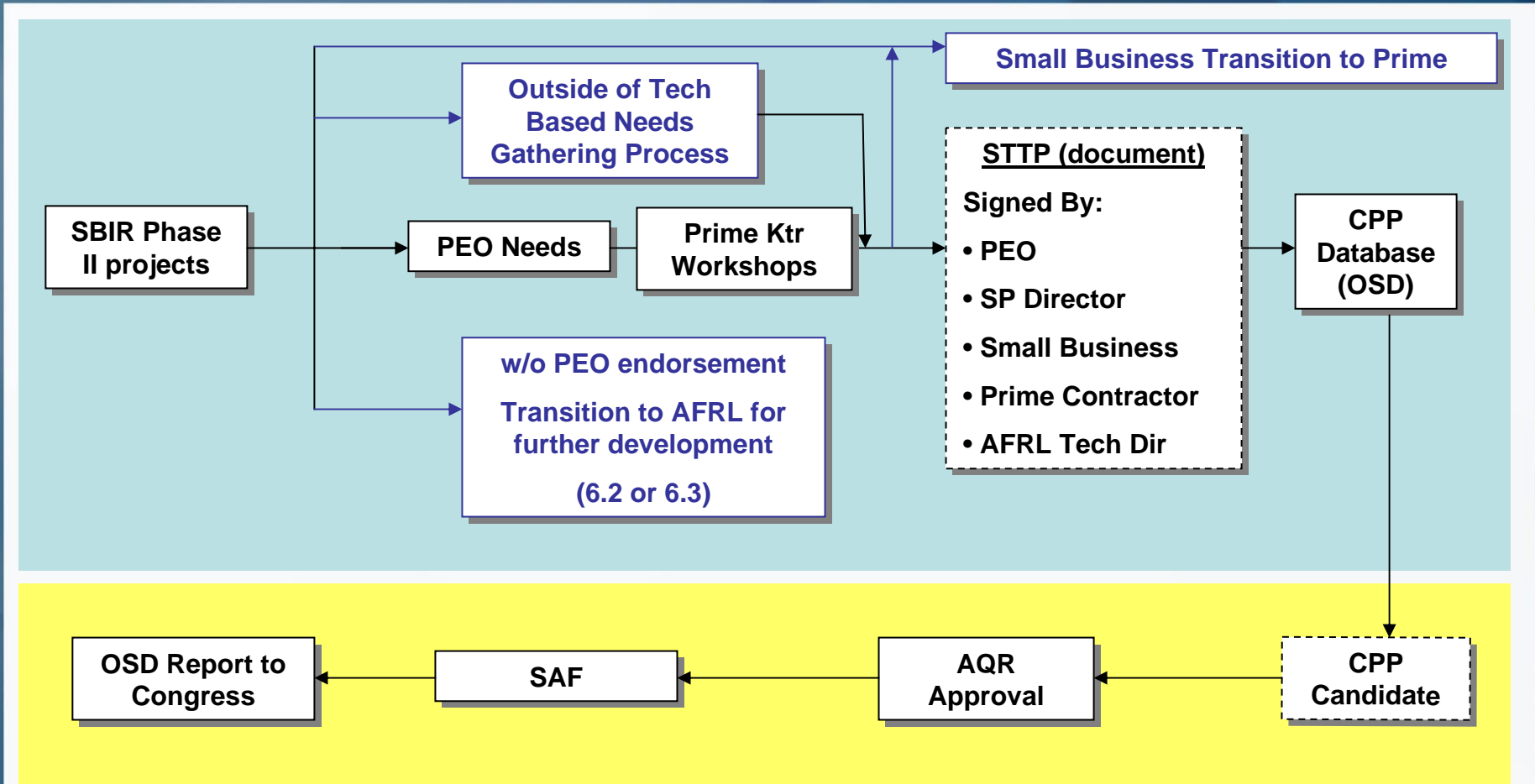
# Workshop Follow-Up Process

- Facilitators Conduct One-on-One Wrap-Up for each session
- Transition Team conducts follow-up telecons, arrange meetings, etc.
- Transition Team coordinates plans with AF stakeholders
  - Initiates SBIR Technology Transition Plan (STTP) as needed



**Primes – Be Proactive!**

# AF SBIR Transition Support Process



■ AF SBIR CPP Manager

■ MacAulay-Brown Inc.



## Summary

### -- AF CPP Process

- Provides new SBIR Topic Allocation
  - Increased Focus on Product Center Tech needs/challenges
- Doesn't require a data call
  - Internal AF Process
  - Transition agents facilitating necessary collaborations
- Accelerates technology transition of successfully developed SBIR technologies
- Provides method to rapidly address critical SBIR technologies identified by warfighters

**AF SBIR program is CPP**