Research & Engineering

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Presented to:
NAVAIR LRAF Industry Day

Presented by:
Mr. Tony Cifone
Deputy Assistant Commander for Research & Engineering, AIR-4.0

NAVAIR

NAWCAD Research and Engineering

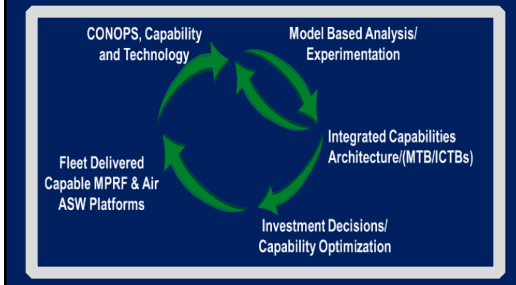
Air Vehicle

Human Systems

Cost

A/C Launch & Recovery

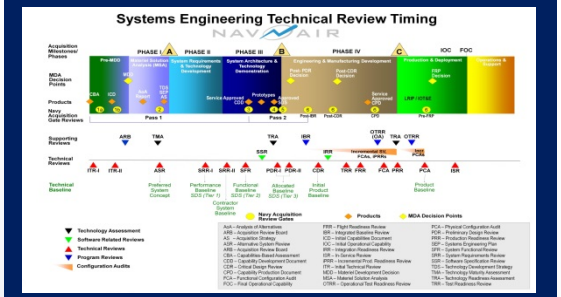
Rapid Capability Integration



Mission Area Engineering

Avionics

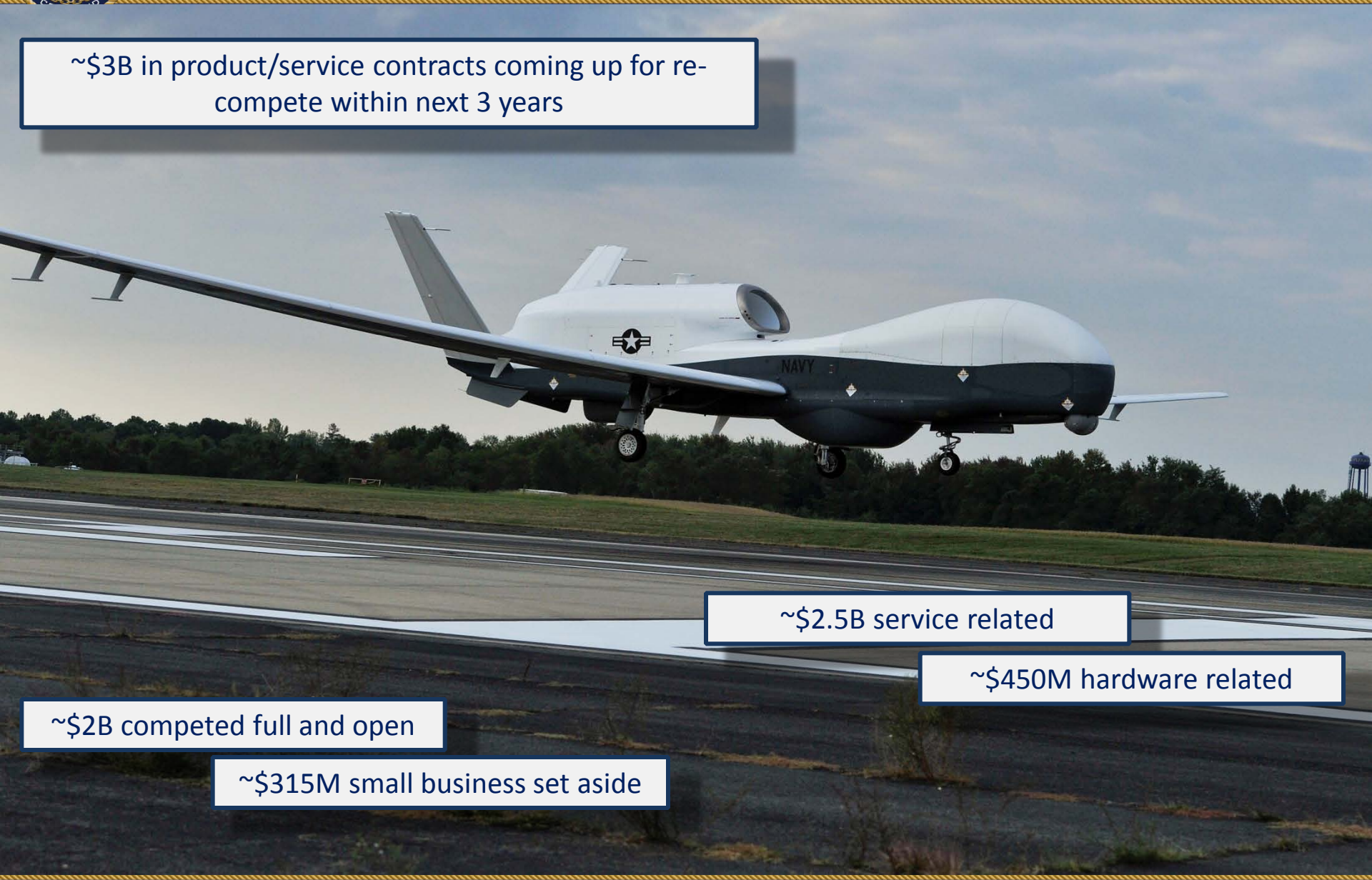
Propulsion & Power



Systems Engineering

Research and Engineering Contracts

~$3B in product/service contracts coming up for re-compete within next 3 years



~$2.5B service related

~$450M hardware related

~$2B competed full and open

~$315M small business set aside

Research and Engineering Contracts

- Support Services
- Research
- Hardware/Software
- Prototyping
- Design
- Fabrication

- C4I
- Fatigue Effects
- Launch & Recovery
- Flight Controls
- Electromagnetic Environmental Effects
- Navigation

- Propulsion Systems
- Flight Simulation
- Operator Training
- Energy Conservation
- Aircrew Systems
- Imagery
- Data

Future Work Areas in Research and Engineering

- Continued Support of:
  - Program Of Record (Major Platforms) Acquisition
  - Unmanned Systems
  - Maintainability and Supportability of Platforms (reduction in total ownership cost)

- Emerging Areas:
  - Cyber
  - Integrated Warfighting Capabilities
  - Rapid Response, Rapid Prototyping
  - Open Architecture Systems
  - Data Fusion
  - Additive Manufacturing
  - Autonomy

Summary

- **Industry support is a vital aspect of Aircraft Division Research and Engineering**
- **Significant opportunities for industry to engage**
- **Our work is diverse and evolving**

We need your help to solve Naval Aviation's tough challenges - now and in the future