Bottom Line Up Front

The Current Fleet Of DoD Rotorcraft Cannot Continue To Be Incrementally Improved To Meet Future Operational Requirements. Significant Increases In Range, Speed, Payload, Survivability, Reliability, And Reduced Logistical Footprint Are All Required And Can Only Be Met Through The Application Of New Technologies, Which Are Best Developed Through A Joint Multi-role/Commonality Approach.

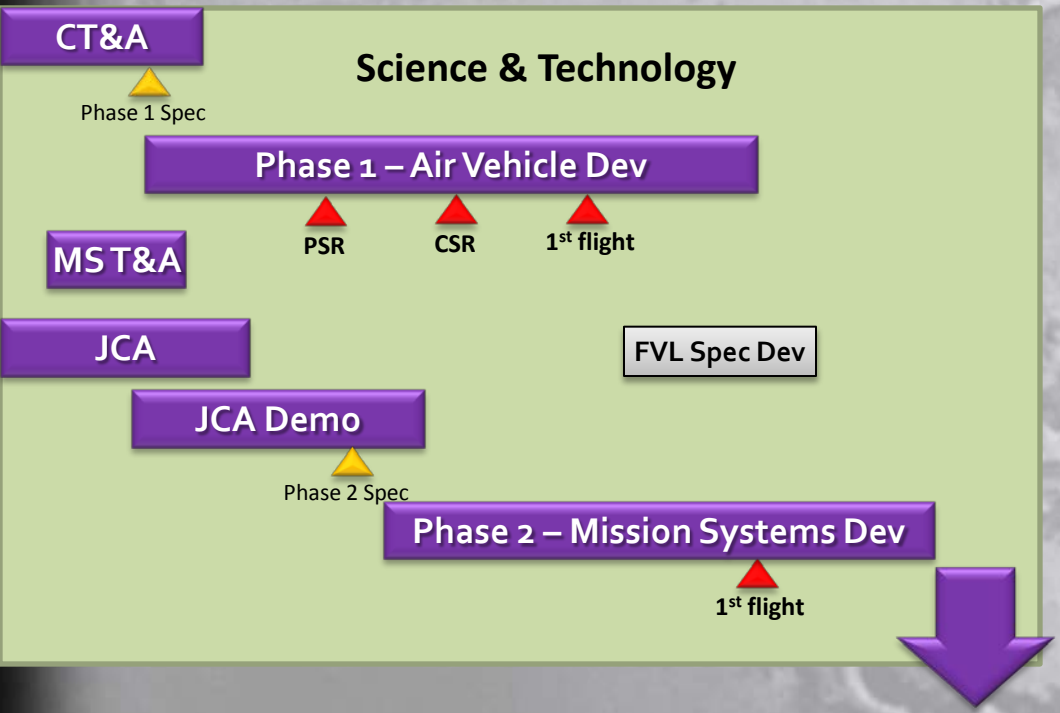
Agenda

- FVL Development Timeline
- SOF FVL Transformation
- SOF FVL Mission Package
- Way Ahead

FVL Timeline

FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30

FVL Technology Demonstrator Program



FVL Development

FVL ICD approved by JROC May 13

FVL Medium Class will "Lead the Fleet"

FVL Technology Development FY 13-18

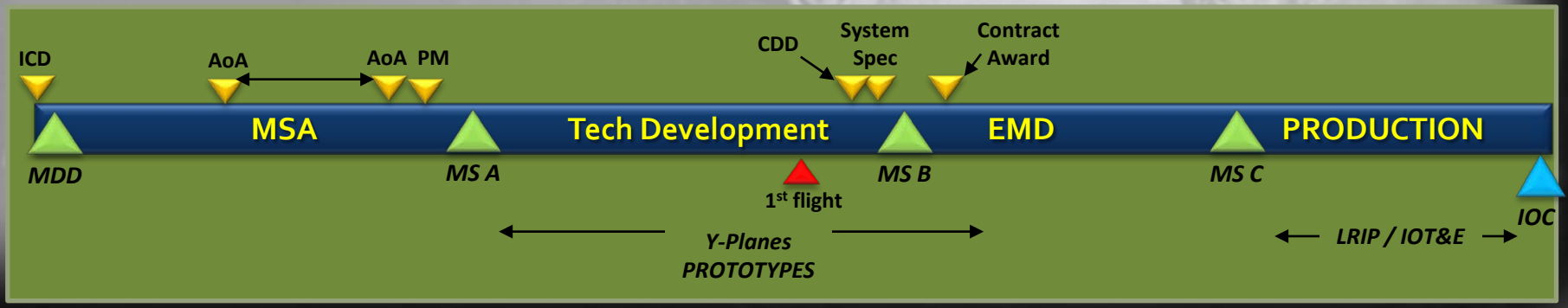
Prototype Development FY 19-26

FVL Medium
Capabilities Development Document FY22

Low rate initial production FY 27

FVL Medium IOC FY 30

Notional FVL-Medium Acquisition Program



SOF FVL Transformation

SOF FVL Intent: To assist the Services and DoD in the development, production, and fielding of the most capable Service common vertical lift platform

Key developmental requirements:

- **Lighter & Faster**
- **Increase Payloads**
- **Increase Lethality**
- **Increase Survivability**
- **Increase Situational Awareness**
- **Reduce Crewmember Workload**
- **Seamless & Quick Aircraft Integration**

SOF FVL Transformation

A/MH-6M (51)

FVL Light
200+ knots in mission configuration
6k/95 – high hot capability
Internal load 4-6 passengers/2-4.5k pounds
SOF mission package

MH-60M (72)

FVL Medium
200+ knots in mission configuration
6k/95 – high hot capability
Internal load 11-24 passengers/6-20k pounds
SOF mission package

MH-47G (69)

FVL Heavy
200+ knots in mission configuration
6k/95 – high hot capability
Internal load 33-44 passengers/33-44k pounds
SOF mission package

SOF Mission Package

- Aerial Refuel
- Shipboard Compatible
- Integrated Weapons Systems
- Optionally Manned/Unmanned Teaming LOI 4
- Enhanced Voice and Data Communications
- Collaborative Mission Planning and Execution
- Increased Power Capability
- Integrated 360 degree Multi-spectrum Sensor Capabilities
- Active/Passive Integrated Survivability System
- Active/Passive Signature Reduction

FVL/RW SOF Peculiar (SO-p) Integration

- ❑ Range/Speed
  - Compound Helicopters
  - Composite Structures
  - Dynamically Shapeable Rotor Blades
- ❑ Survivability
  - Small Arms/RPG Shields
  - Transparent Armor
- ❑ Signature Management
  - Low Observable
  - Color Changing Paint
  - Low Acoustic Signature
  - Active Acoustic Suppression
- ❑ Penetration
  - Penetration into hostile/ non-permissive environments
- ❑ Weapons
  - Point Target
  - Area Effect
- ❑ Mission Equipment
  - OPV – Optional Piloted Vehicles with BLOS data links
  - Manned/Unmanned Teaming: Control UAV Helos From Manned Helo Teammate
  - ADAS

Questions ?