



Life Cycle Industry Days Propulsion Directorate Review 2024

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PEO for Propulsion
Air Force Life Cycle Management Center



- **Propulsion Portfolio**
 - **Propulsion Focus Area**
 - **Propulsion Challenges**
 - **Propulsion Priorities**
 - Powering the Future Fleet
 - Powering the Fielded Fleet
 - Powering the Fast Fleet
 - **Propulsion Partnerships**
 - **Summary**
-

AFLCMC/LP Directorate Portfolio



GENERATING THE
SOUND OF FREEDOM
FOR ALL **9** MAJCOMS
AND ANG

INVESTING IN THE FUTURE
THROUGH **111** ADVANCED TECH
INITIATIVES & **8** EMERGING
ENGINE TECHNOLOGIES

POWERING **22,833**
ENGINES ACROSS USAF
AND PARTNER NATION
INVENTORY VALUED AT
\$64.6B

SUPPORTING **51**
GLOBAL
PARTNER
NATIONS

EXECUTING
\$5.7B BUDGET
ANNUALLY

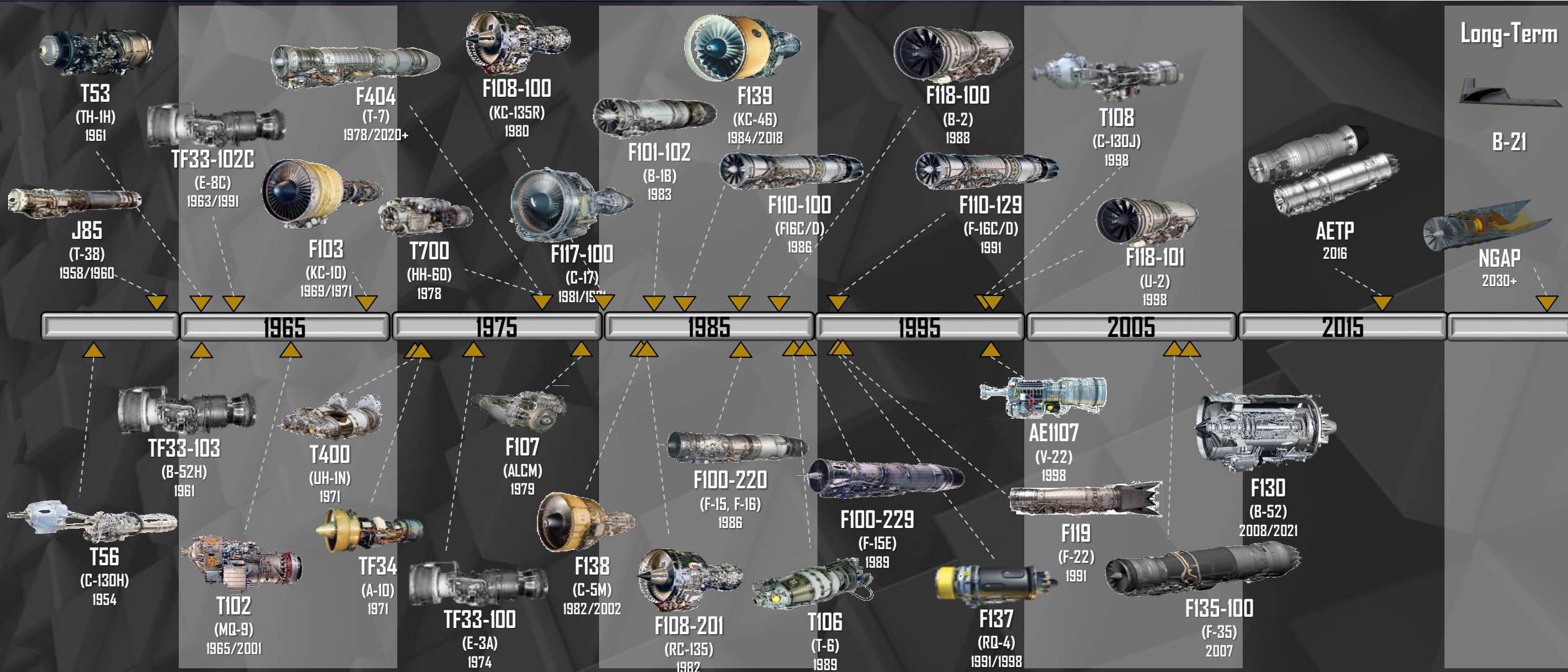
GENERATING THE SOUND OF FREEDOM 24/7/365
POWERING THE WARFIGHTER'S EDGE



Data current as of 2QFY24



Propulsion Directorate Execution Scope



FROM EARLY TECHNOLOGY TO CUTTING EDGE PROPULSION SYSTEMS

UNCLASSIFIED

URGENT THREATS



ACCELERATED CHANGE



CONTESTED ENVIRONMENTS



ASCENDING DOMAINS



IMPROVE READINESS

DRIVE INNOVATION

MAINTAIN SAFETY

DELIVER CAPABILITY

FOR THE DEPARTMENT OF THE AIR FORCE TO DETER AND, IF NECESSARY, PREVAIL IN ANY FUTURE CONFLICT, WE MUST REOPTIMIZE FOR GREAT POWER COMPETITION.



DEVELOP PEOPLE

GENERATE READINESS

PROJECT POWER

DEVELOP CAPABILITIES



LOSING OUR PROPULSION LEAD



ABSENCE OF DIGITAL TOOLS



**EXTENSIVE AGE-RELATED
MAINTENANCE**



**TECHNOLOGY TRANSITION
SHORTFALLS**



**DECLINING INDUSTRIAL BASE
RESPONSIVENESS**



**INSUFFICIENT INVESTMENT
RESOURCES/FLEXIBLE FUNDING**



THE FUTURE FLEET

Providing increased range, thrust, and performance through FUTURE fleet capabilities.



THE FIELDIED FLEET

Delivering warfighter readiness to fly, fight, and win through FIELDIED fleet capabilities.



THE FAST FLEET

Producing innovation at a threat-relevant cadence through FAST fleet capabilities.

Powering the Future Fleet



CCA

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NEXT-GEN ARIAL REFUELING

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NGAP

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NEXT-GEN AIR LIFT

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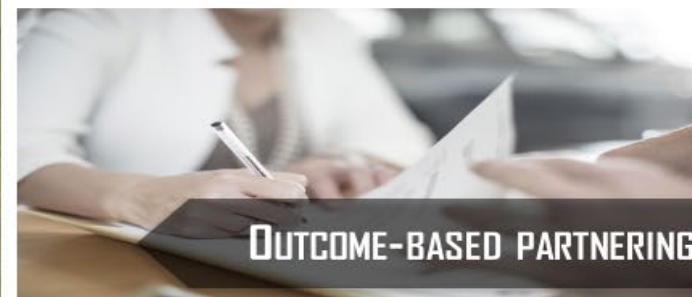
MUNITIONS

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Powering the Fielded Fleet



INCREASED READINESS




Case Study

research, theoretical, single, descriptive, information, criteria, evidence, approach, subject, choice, focus, framework, protocols, decision, weak, quantitative, made, analysis, exploratory, case, data, st, views, key, participants, ability, methods, date, research, single, descriptive, information, criteria, evidence, approach, subject, choice, focus, framework, protocols, decision, weak, quantitative, made, analysis, exploratory, case, data, st

STUDIES

ADDITIVE MANUFACTURING

A stylized illustration of a person standing on a grey platform, looking out over a winding red path that leads towards two red flags in the distance. The word "ROADMAPPING" is written in white capital letters on a dark red background in the bottom left corner.

RAPID PROTOTYPING



**WE
WANT
YOU**

**STRATEGIC ENTERPRISE
PARTNERSHIPS**

INNOVATIVE SOLUTIONS

**RESPONSIVE FORWARD-LOOKING
STRATEGIES**

DRIVING UNIFIED WARFIGHTER SOLUTIONS TOGETHER

Summary



- ! G/a/ B u A u o i H o A U / 1 U / o a x f l e O U e 2 a o y A 2 | ! G U B A y / d u y A U O i o U / o o f f / 2 O 2 B i o a i H o A U
- h H b O A U e o i o a f f A 1 / 2 o i A 4 3 A O 2 U B U a f f O a O i y A U b y a 1 U H 1 a H b u o a i H o A U 1 U / o i o A 1 / 2 A *Ready Innovative Safe U B Effective*
- u o a i H o A U A A U / e f f o a e C e A U 1 B y a l o 2 y u a f f / o / a U i 1 y A A U o 2 B A U / o o
- G a o B B y A U O A U a d U y A U a o y a x H y A 1 o B A e H o a i i a o y H U A o i O 2 o 2 1 U A U A F L C M C . L P . W o r k f l o w @ u s a f . m i l

AFLCMC PROPULSION DIRECTORATE

