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# **BALLISTIC MISSILE DEFENSE**

## **Program Plan Briefing For Allied Attaches**

### **BALLISTIC *MISSILE* *DEFENSE* ORGANIZATION**

**4 APR 94**

**LTG Malcolm O'Neill, USA  
Director,  
Ballistic Missile Defense Organization**

**BALLISTIC MISSILE DEFENSE ORGANIZATION**

pl-42/17 / 033194

# **AGENDA**

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- **Situation**

- **Mission**

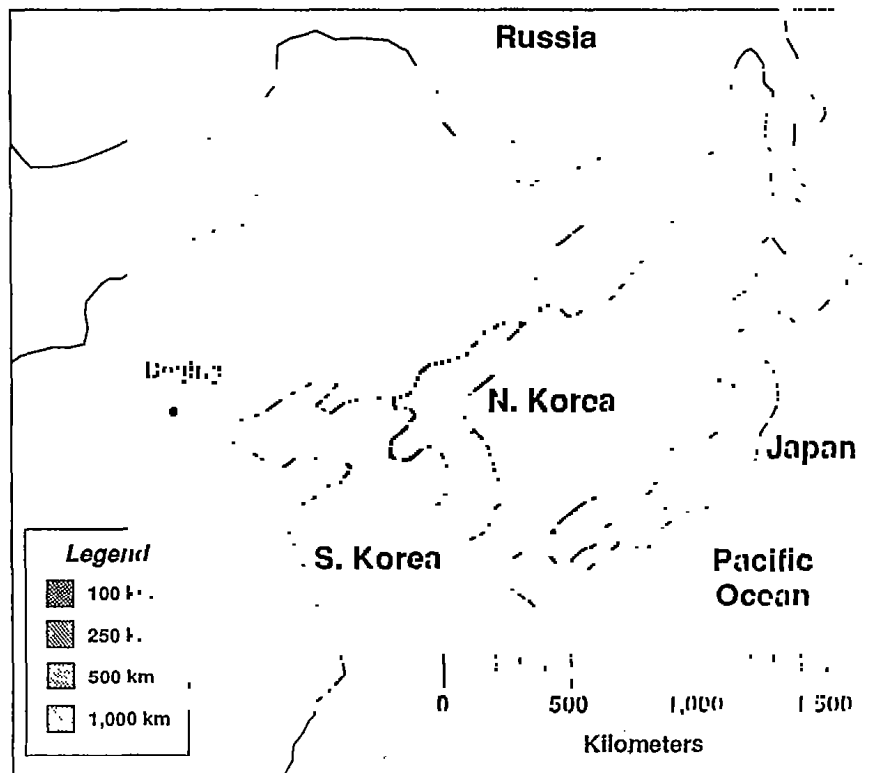
- **Execution**

- **Resources**

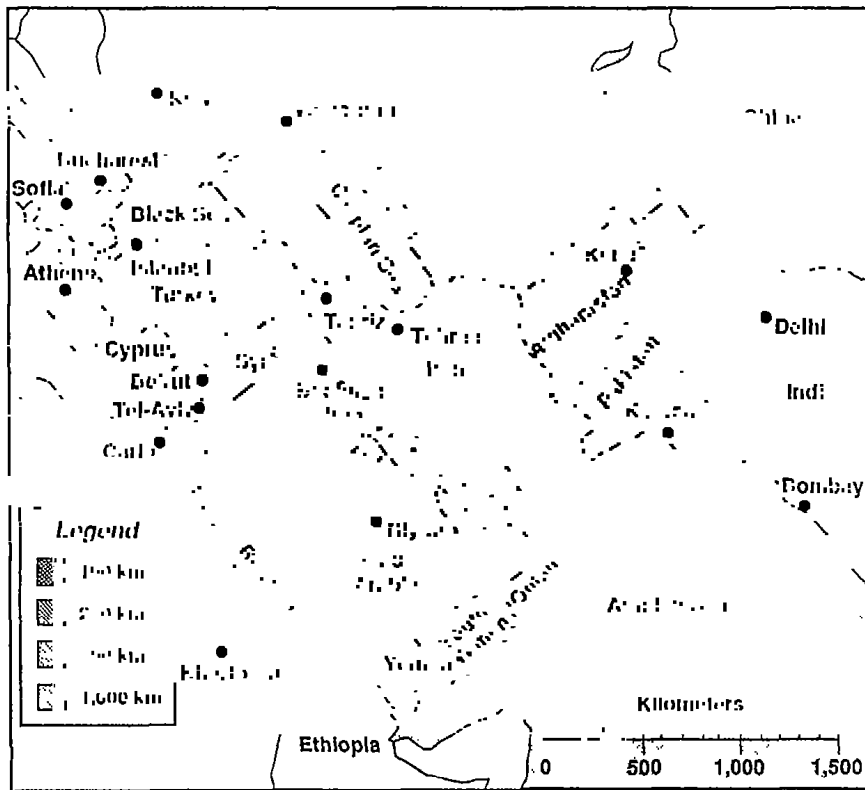
- **Issues**

- **Conclusion**

# DISTANCES FROM NORTH KOREA



# DISTANCES FROM IRAN



# BALLISTIC MISSILE THREAT TO THE UNITED STATES

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## Emerging Attack Capability From Third World Country

"...To Acquire Ballistic Missiles That Could Threaten The Continental United States. We Can't Give You A Precise Date – Whether It's Eight Years Or Ten Years Or Fifteen Years From Now. ...A Shortcut...Would Be...To Buy ICBMs Or Major Components..."

*James Woolsey, Director, CIA, February 1993*

"...It's Entirely Possible That Within A Year Or Two, We May Have Intelligence Information Which Leads Us To Believe That We Should Accelerate Our Efforts On National Missile Defense..."

*William Perry, SECDEF, February 1994*

## Accidental Attack From FSU Or PRC

"The Possibility Of Accidental Or Unauthorized Launches Of (FSU) Nuclear Forces... Remains Highly Unlikely..."

*Dr. Lawrence K. Gershwin, CIA, September 1992*

# BALLISTIC MISSILE DEFENSE KEY COMPONENT OF DoD DEFENSE STRATEGY

SECDEF's New World Dangers	BMDO Contributions
<ul style="list-style-type: none"> <li>• Regional Aggression</li> </ul>	<ul style="list-style-type: none"> <li>• Protect Forces For Power Projection And Relief Operations</li> <li>• Coalition Flexibility / Stability</li> </ul>
<ul style="list-style-type: none"> <li>• Proliferation</li> </ul>	<ul style="list-style-type: none"> <li>• Support Defense Counterproliferation Initiative</li> <li>• Develop Improved Ballistic Missile Defense</li> </ul>
<ul style="list-style-type: none"> <li>• Dangers To Democracy</li> </ul>	<ul style="list-style-type: none"> <li>• Cooperative R&amp;D</li> <li>• Potential Multilateral Defense</li> </ul>
<ul style="list-style-type: none"> <li>• U.S. Economic Concerns</li> </ul>	<ul style="list-style-type: none"> <li>• Dual Use Technologies</li> <li>• Advanced Technology                             <ul style="list-style-type: none"> <li>- Aerospace</li> <li>- Electronics</li> </ul> </li> <li>• Commercialization Of Military R&amp;D</li> </ul>

## **BMDO MISSION**

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- **BMDO Shall Manage, Direct, And Execute The BMD Program To Acquire And Develop Systems And Architectures To**
  - **Enable Deployment Of A Theater Missile Defense Capability To Protect Forward-deployed Armed Forces Of U.S., Friends, And Allies**
  - **Develop Options For And Acquire When Directed, An Antiballistic Missile System That Is Capable Of Providing Highly Effective Defense Of The U.S. Homeland Against Limited Attacks Of Ballistic Missiles**
  - **Demonstrate Advanced Technologies For Near Term Insertion Options And Concept Development Of New Systems**
  
- **Program Shall**
  - **Be Conducted In Compliance With Existing Treaty Obligations**
  - **Utilize Nonnuclear Weapon Technologies**
  - **Utilize Nonnuclear Weapon Technologies**



# BUR BMD PROGRAM GUIDANCE (1 SEP 93)

Priority	Program	Focus	Funding* (FY 95-99)
First	TMD →	<div style="border: 1px solid black; padding: 5px; text-align: center;">Acquisition Programs</div> <ul style="list-style-type: none"> <li>• Core → Near And Midterm Capabilities</li> <li>• Advanced → Follow-on TMD Acquisition</li> </ul>	\$12B
Second	NMD →	<div style="border: 1px solid black; padding: 5px; text-align: center;">Technology Readiness Program</div> <ul style="list-style-type: none"> <li>• Emphasize Technology Long Poles</li> <li>• Maintain Contingency Options</li> </ul>	\$3B
Third	Technology / R&S →	<div style="border: 1px solid black; padding: 5px; text-align: center;">Support Acquisition Programs And Provide Tech Base</div> <ul style="list-style-type: none"> <li>• Near Term And Advanced Technology</li> <li>• Infrastructure / Personnel</li> </ul>	\$3B

**The Administration's Commitment To BMD Is Clear**

\* Subsequently Decreased \$1.1 Billion

# **TMD ACQUISITION APPROACH (Focus On Active Defense And C<sup>3</sup>I)**

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- **New Acquisition Approach To Provide Prototype Capabilities Early**
  - **Near Term TMD Upgrades Through CINCs' Experiments Program**
  - **Build On Existing Capability**
  - **Provide Early Contingency Capability**
  - **Encourage International Participation**
  
- **Low-To-Moderate Concurrency And Risk**

# DELIVERABLES

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<i>What's In It For CINCs</i>	<i>When</i>
<ul style="list-style-type: none"><li>• Quick Fixes To Existing Systems</li><li>• Faster Response In BM / C<sup>3</sup></li><li>• Playing TMD In Wargames And CPXs</li></ul>	Today (FY 94 - 95)
<ul style="list-style-type: none"><li>• Improve Engagement Of Short-range TBMs</li><li>• Wide Area Alerting</li></ul>	Near Term (FY 94 - 97)
<ul style="list-style-type: none"><li>• Contingency Area Protection</li><li>• Protection Against Weapons Of Mass Destruction</li><li>• Initial Littoral Protection</li><li>• Significant Increase In Protected Area Against TBMs</li></ul>	Midterm (FY 97 - 2002)
<ul style="list-style-type: none"><li>• Significant Increase In Range And Lethality Of Missile Against TBMs</li><li>• Can Engage TBMs In Boost And Post Boost Flights</li><li>• Enhance Protection For Maneuver Forces</li><li>• Reduce Strategic Lift For TMD</li></ul>	Advanced (FY 2002+)

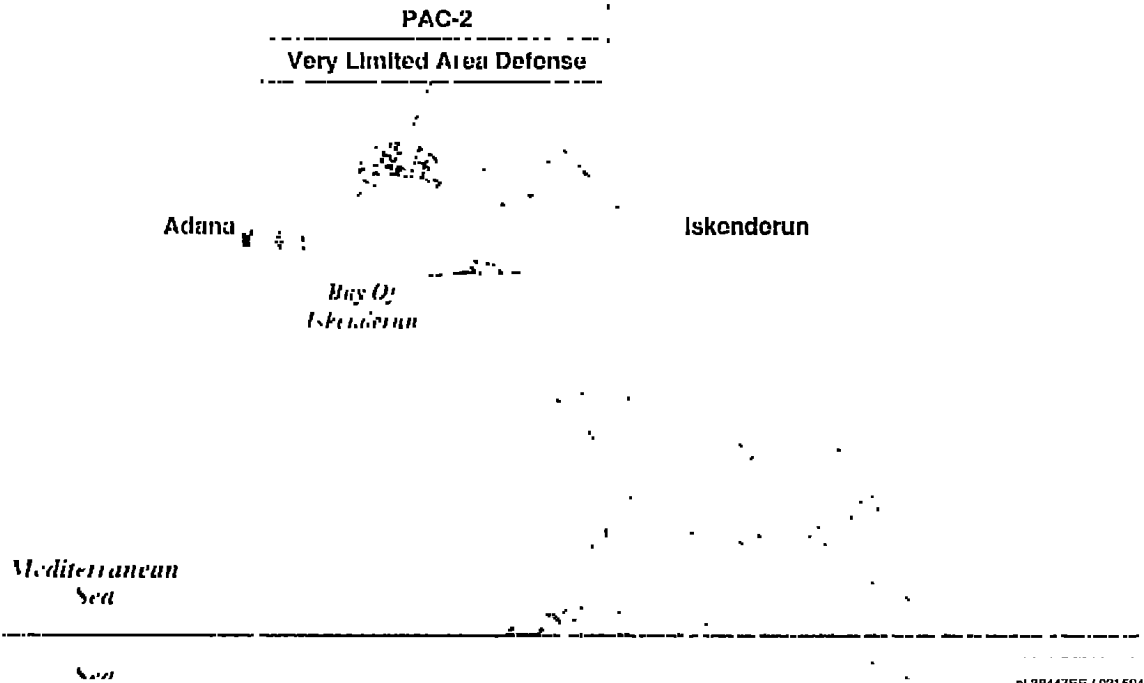
Reduce Strategic Lift For TMD

# **SUPPORTING THE WARFIGHTER TODAY**

<b>Program</b>	<b>Goal</b>
<ul style="list-style-type: none"><li>• PAC-2 (Quick Reaction Program)</li></ul>	<ul style="list-style-type: none"><li>• Field Near Term Improvements In TBM Detection, Tracking, And Intercept</li></ul>
<ul style="list-style-type: none"><li>• TALON SHIELD / JTAGS / Radiant Ivory</li></ul>	<ul style="list-style-type: none"><li>• Provide TBM Warning Capability To Various CINCs</li></ul>
<ul style="list-style-type: none"><li>• CINCs' TMD Experiments</li></ul>	<ul style="list-style-type: none"><li>• Provide Opportunity To Exercise TMD Tactics, Warning And Cueing, Plans And Procedures</li></ul>
<ul style="list-style-type: none"><li>• Gaming (Example TMD Added To Yearly Newport Global Wargame And The Johns Hopkins Applied Physics Lab (APL) Warfare Analysis Lab Exercise)</li></ul>	<ul style="list-style-type: none"><li>• Highlights Awareness Of TMD Employment And Interoperability Issues</li></ul>

# TODAY'S CAPABILITIES (FY 94-95)

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# WORKING NOW ON TMD WITH CINCS

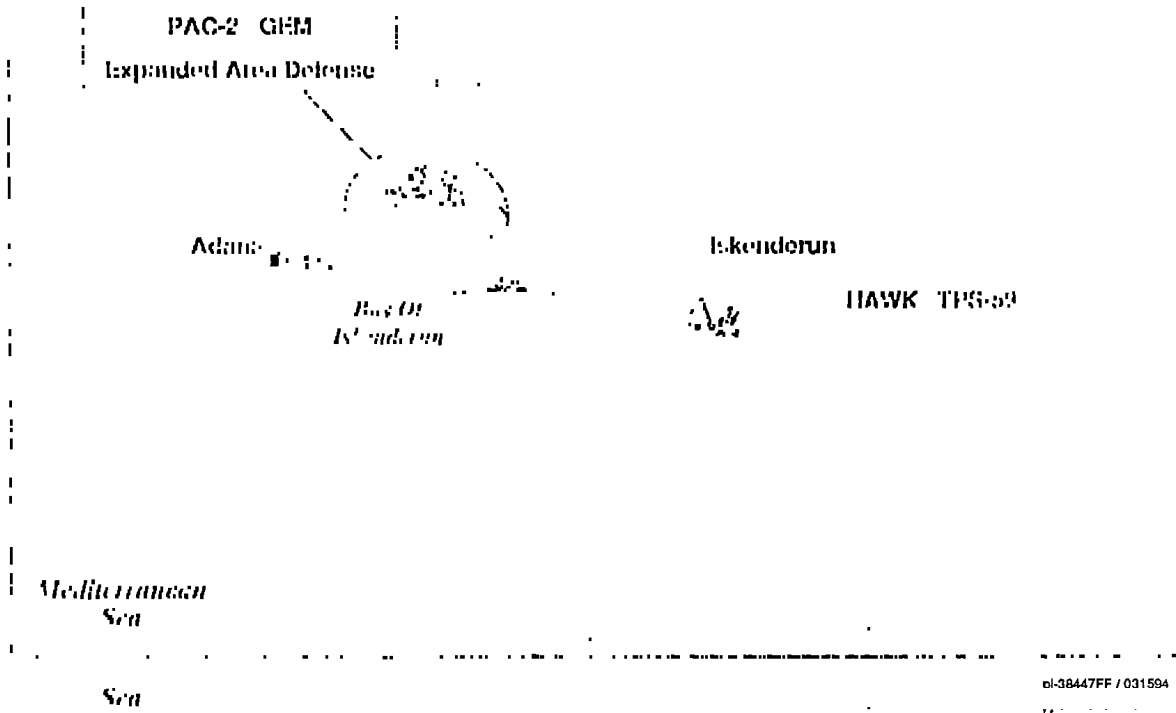
P A C O M	U S A C O M	C E N T C O M	E U C O M	S P A C E C O M N O R A D
<ul style="list-style-type: none"> <li>• CINC Experiments (ORNATE IMPACT) (SEP / OCT 93)               <ul style="list-style-type: none"> <li>- Voice Warning Net Through PACOM To USFK</li> <li>- 1<sup>st</sup> TBM Play For USFK CPX</li> </ul> </li> <li>• Gaming Exercises (May / June 1993)</li> <li>• BMD Meetings (December 1993 - International Flavor)</li> <li>• TALON SHIELD *</li> </ul>	<ul style="list-style-type: none"> <li>• Gaming Exercises (June 1993)</li> <li>• BMD Meetings (November 1993)</li> <li>• Fleet TMD Task Force (JTF - 95)</li> <li>• Cooperative TMD Engagement Concept</li> <li>• TALON SHIELD *</li> </ul>	<ul style="list-style-type: none"> <li>• CINC Experiments (INTERNAL LOOK) Canceled Due To Somalia Situation, Next Scheduled Exercise Is FY 95</li> <li>• Drafting JTMD Functional Document</li> <li>• BLUE FLAG (March 1994)</li> <li>• TALON SHIELD *</li> </ul>	<ul style="list-style-type: none"> <li>• CINC Experiments (OPTIC NEEDLE) (APR / MAY 93)               <ul style="list-style-type: none"> <li>- Tactical Surveillance Demo (TSD) Set Up And Operational</li> </ul> </li> <li>• Gaming Exercises (December 1994)</li> <li>• TALON SHIELD *</li> <li>• Ad Hoc Group On TMD for NATO</li> </ul>	<ul style="list-style-type: none"> <li>• CINC Experiments (OPTIC NEEDLE And ORNATE IMPACT) (APR / MAY 93, SEP / OCT 93)               <ul style="list-style-type: none"> <li>- Passed TBM Data To EUCOM And Through PACOM To USFK</li> </ul> </li> <li>• Cueing Mechanism To Other CINCS</li> <li>• Gaming Exercise (October / November 1993)</li> <li>• National Test Bed</li> <li>• TALON SHIELD (In Use Today)</li> </ul>

\* Can Be Called Forward By CINC

## **NEAR TERM CAPABILITIES (FY 94-97)**

<b>Program Area</b>	<b>What We Are In The Process Of Doing</b>
<ul style="list-style-type: none"><li>• <b>PATRIOT PAC-2 / Guidance Enhancement Missile (GEM)</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Improving Accuracy Against TBMs</b></li><li>• <b>Increasing Battlespace</b></li><li>• <b>Capability In FY 94 / 95 (Deploy FY 95-97)</b></li></ul>
<ul style="list-style-type: none"><li>• <b>TPS-59 (Radar) / HAWK Upgrade</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Enhancing TBM Surveillance And Tracking For USMC HAWK Intercept</b></li><li>• <b>Cueing Other Theater Sensors</b></li><li>• <b>Capability FY 95 / 96 (Deploy FY 97)</b></li></ul>
<ul style="list-style-type: none"><li>• <b>BM / C<sup>3</sup> (DSP Data Dissemination)</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Expanding User Availability Of Early Warning Information</b></li><li>• <b>Capability FY 93 / 94</b></li></ul>

# NEAR TERM CAPABILITIES (FY 94-97)



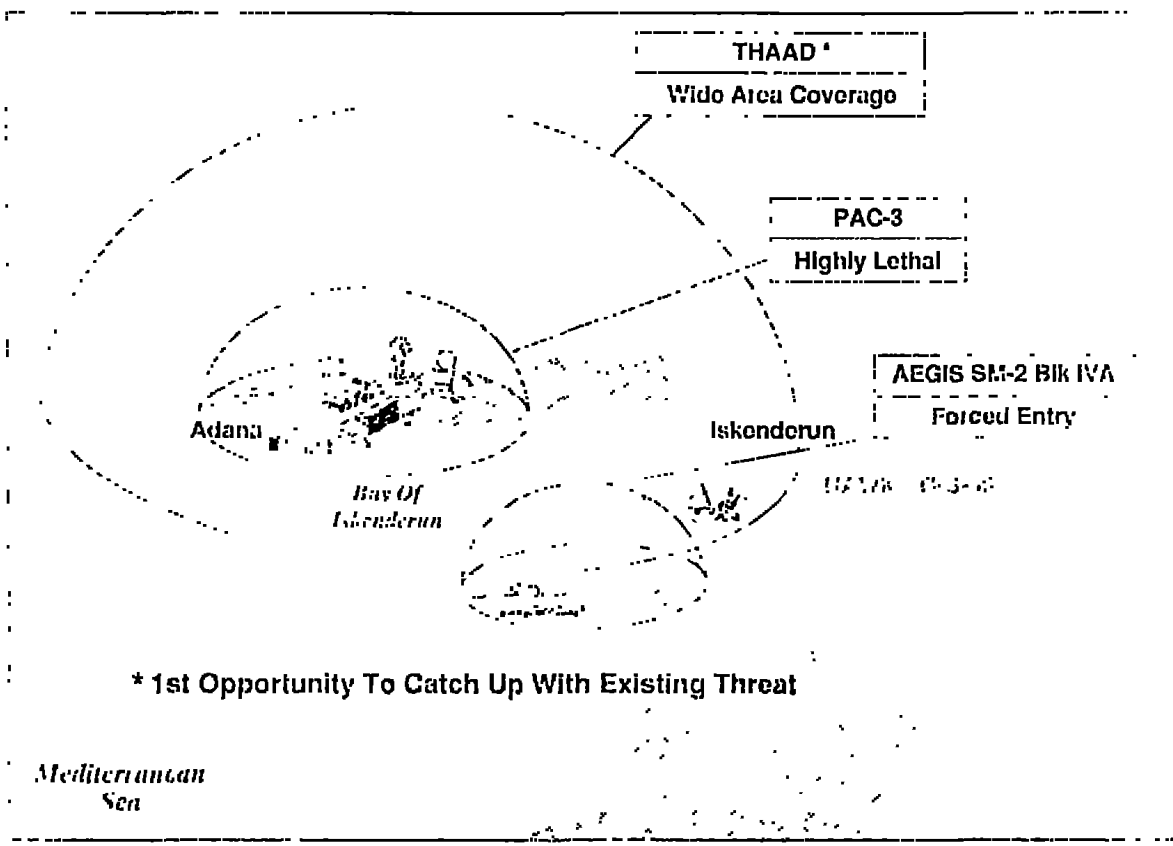


## **MIDTERM CAPABILITIES (FY 97-2002)**

<b>Program Area</b>	<b>What We Are Going To Do</b>
<ul style="list-style-type: none"><li>• <b>THAAD / TMD-GBR</b></li></ul>	<ul style="list-style-type: none"><li>• <b>First Wide Area Protection Against TBMs</b></li><li>• <b>Provide Multiple Shot Opportunities</b></li><li>• <b>Enhance Protection Effectiveness</b></li><li>• <b>User Operational Evaluation</b></li><li>• <b>Contingency Capability (FY 97-00)</b></li><li>• <b>Objective Capability (FY 01-02)</b></li></ul>
<ul style="list-style-type: none"><li>• <b>PATRIOT PAC-3</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Improve Lethality Against TBMs</b></li><li>• <b>Increase Protected Area</b></li><li>• <b>Provide Remote Launch Capability</b></li><li>• <b>Improve Discrimination</b></li><li>• <b>Improve Low Altitude Performance</b></li><li>• <b>FUE FY 98</b></li></ul>
<ul style="list-style-type: none"><li>• <b>AEGIS / SM-2 Block IVA</b></li></ul>	<ul style="list-style-type: none"><li>• <b>Improve Detection And Intercept Effectiveness</b></li><li>• <b>Improve Warhead Against Hard Targets</b></li><li>• <b>User Operational Evaluation</b></li><li>• <b>Two Ship Capability (FY 97-99)</b></li></ul>

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# MIDTERM CAPABILITIES (FY 97-2002)



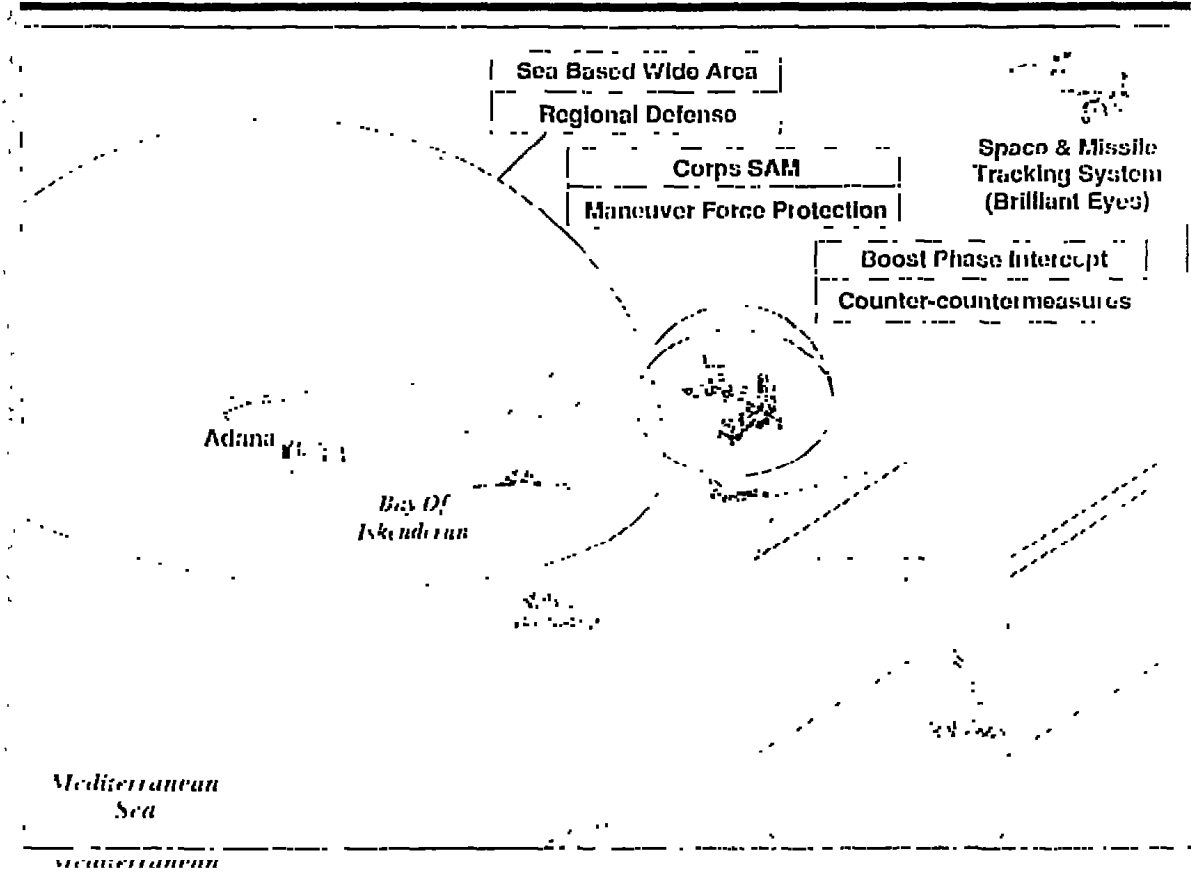
## **ADVANCED CONCEPTS (FY 2002+)**

<b>Program Area</b>	<b>What We Are Going To Do</b>
<ul style="list-style-type: none"> <li>• <b>Sea Based (Wide Area)TMD Interceptor*</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Significantly Increase Range And Lethality Of Missile</b></li> <li>• <b>Provide Greater Defense In Depth</b></li> <li>• <b>Increase Shot Opportunities = Higher Probability Of Kill</b></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Corps SAM*</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Provide Maneuver Forces TBM Protection</b></li> <li>• <b>Counter Cruise Missile Threat</b></li> <li>• <b>Increase Tactical Mobility</b></li> <li>• <b>Decrease Strategic Lift Requirement</b></li> </ul>
<ul style="list-style-type: none"> <li>• <b>Boost Phase Intercept*</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Kill TBM In Boost Phase (Counter Submunitions)</b></li> <li>• <b>Defeat Deployed Countermeasures</b></li> <li>• <b>Assure Shortfall Of Debris And Unexpected Munitions</b></li> </ul>

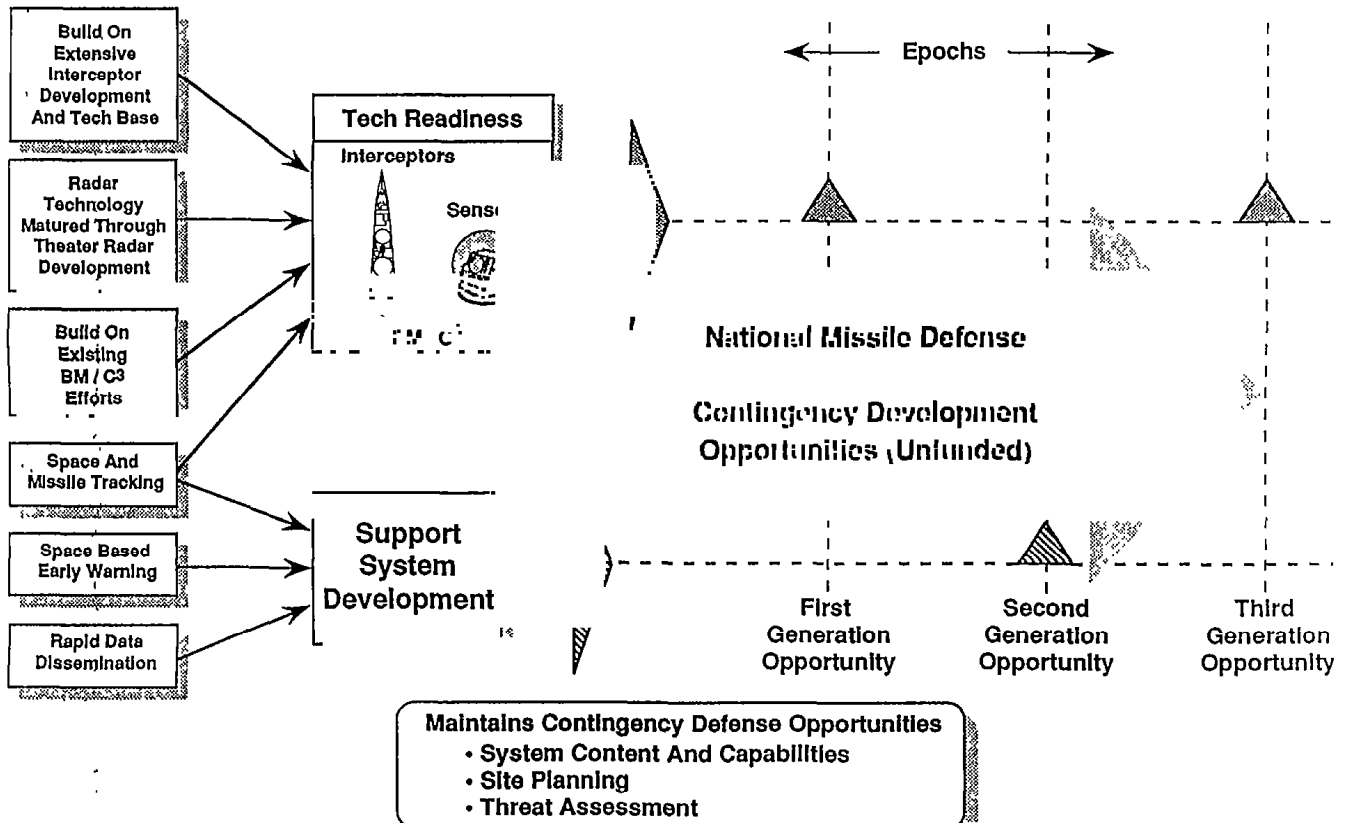
\* These Programs Are Competing For Funds; TMD Program Only Funds  
A Single New System (FY 98 Start)

A Single New System (FY 98 Start)

# **ADVANCED CONCEPTS (FY 2002+)**

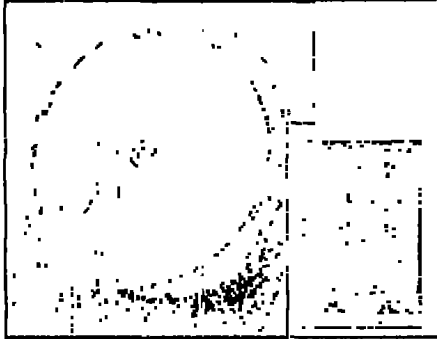


# NATIONAL MISSILE DEFENSE (NMD) TECHNOLOGY READINESS PROGRAM

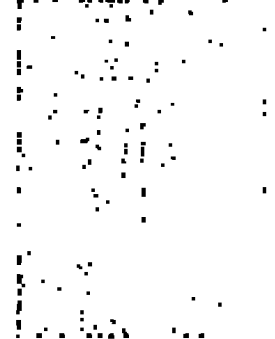


# ADVANCED TECHNOLOGY

*Directed Energy Boost Phase Intercept*



*Kinetic Energy Boost Phase Intercept*



- Builds Foundation For Future Systems
- Focused On BMD High Leverage, High Payoff Technologies
- Emphasizes Theater Boost Phase Intercept

*Advanced Sensor Technology And Demos*

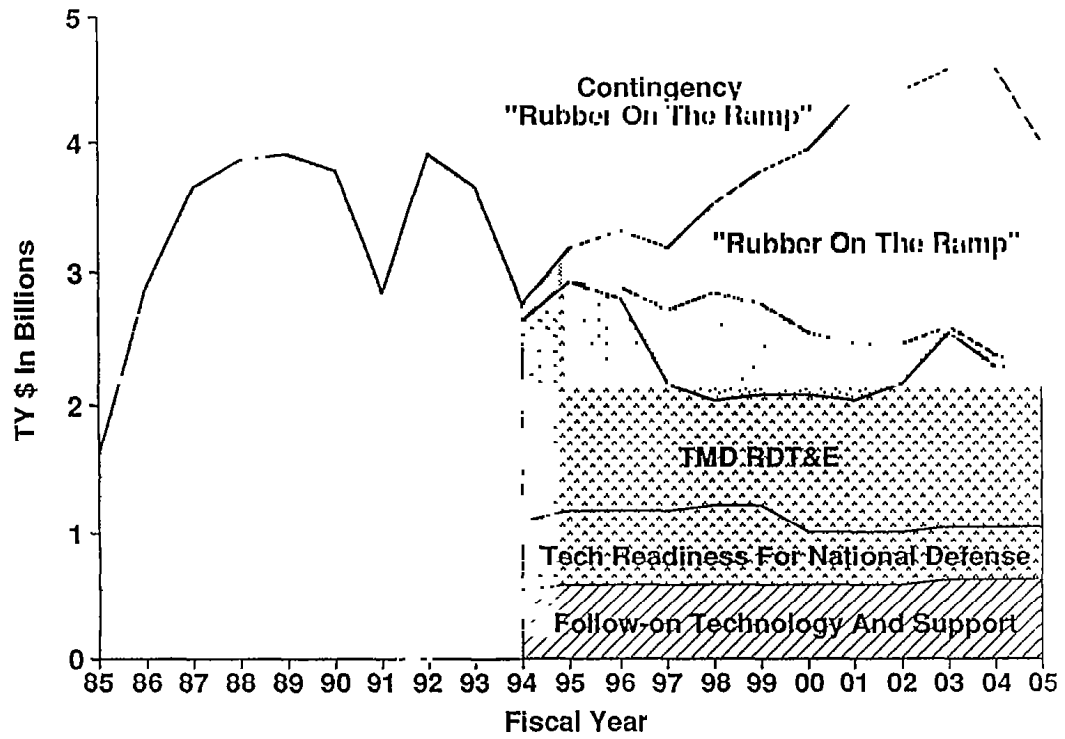


*International Cooperative Technology*



Future System Foundation To Counter Evolving, Proliferating Threats

# TOTAL BMDO PROGRAM



- Need For Missile Defense
- Contingency *THAAD* To Reduce Risk In Midterm
- Inclusion Of *TMD In Planning* For Future Operations And Exercises
- Exclusion Of TMD Systems From ABM Treaty Coverage
  - *THAAD* (Being Looked At Now)
  - Advanced Systems (Navy Wide Area And Air Force Ascent / Boost Phase)
- Technology Readiness *Options for NMD*
- BMDO *Focal Point* For BMD Advanced Technology



## **CONCLUSION**

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- **Active Missile Defense Is An Essential Insurance Policy For Counterproliferation**
- **For Tactical / Theater Missile Defense, We Are Putting TMD "Rubber On The Ramp" Now And Throughout The 1990s**
- **For Strategic Missile Defense, We Have A Technology Program Which Will Protect The Option To Deploy**

**"Making Ballistic Missile  
Defense A Reality"**