BALLISTIC MISSILE DEFENSE

Program Plan
Briefing For Allied Attaches

BALLISTIC
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ORGANIZATION

4 APR 94

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

AGENDA

- Situation
- Mission
- Execution
- Resources
- Issues
- Conclusion

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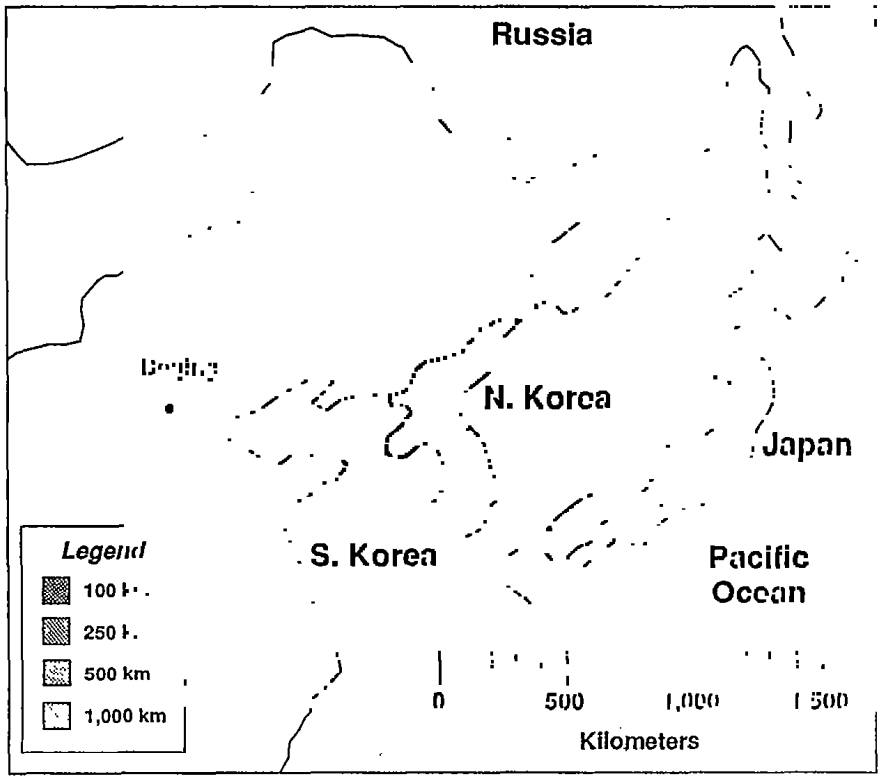
DISTANCES FROM NORTH KOREA



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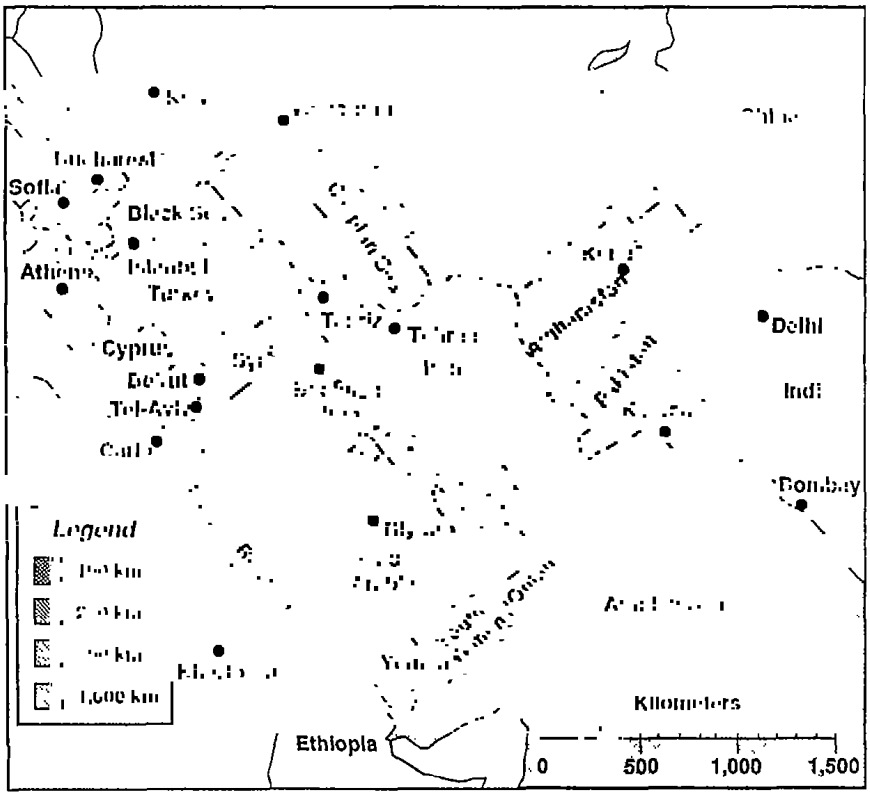
DISTANCES FROM IRAN



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BALLISTIC MISSILE THREAT TO THE UNITED STATES

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

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BALLISTIC MISSILE DEFENSE KEY COMPONENT OF DoD DEFENSE STRATEGY

SECDEF's New World Dangers	BMDO Contributions
• Regional Aggression	• Protect Forces For Power Projection And Relief Operations • Coalition Flexibility / Stability
• Proliferation	• Support Defense Counterproliferation Initiative • Develop Improved Ballistic Missile Defense
• Dangers To Democracy	• Cooperative R&D • Potential Multilateral Defense
• U.S. Economic Concerns	• Dual Use Technologies • Advanced Technology - Aerospace - Electronics • Commercialization Of Military R&D

• Commercialization Of Military R&D

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BMDO MISSION

- 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

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- Utilize Nonnuclear Weapon Technologies

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BUR BMD PROGRAM GUIDANCE (1 SEP 93)

Priority	Program	Focus	Funding* (FY 95-99)
First	TMD →	Acquisition Programs → • Core → Near And Midterm Capabilities • Advanced → Follow-on TMD Acquisition	$12B
Second	NMD →	Technology Readiness Program → • Emphasize Technology Long Poles • Maintain Contingency Options	$3B
Third	Technology / R&S →	Support Acquisition Programs And Provide Tech Base → • Near Term And Advanced Technology • Infrastructure / Personnel	$3B

The Administration's Commitment To BMD Is Clear

* Subsequently Decreased $1.1 Billion

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TMD ACQUISITION APPROACH (Focus On Active Defense And C^3I)

- 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

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DELIVERABLES

What's In It For CINCs	*When*
• Quick Fixes To Existing Systems • Faster Response In BM / C^3 • Playing TMD In Wargames And CPXs	Today (FY 94 - 95)
• Improve Engagement Of Short-range TBMs • Wide Area Alerting	Near Term (FY 94 - 97)
• Contingency Area Protection • Protection Against Weapons Of Mass Destruction • Initial Littoral Protection • Significant Increase In Protected Area Against TBMs	Midterm (FY 97 - 2002)
• Significant Increase In Range And Lethality Of Missile Against TBMs • Can Engage TBMs In Boost And Post Boost Flights • Enhance Protection For Maneuver Forces • Reduce Strategic Lift For TMD	Advanced (FY 2002+)

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SUPPORTING THE WARFIGHTER TODAY

Program	Goal
• PAC-2 (Quick Reaction Program)	• Field Near Term Improvements In TBM Detection, Tracking, And Intercept
• TALON SHIELD / JTAGS / Radiant Ivory	• Provide TBM Warning Capability To Various CINCs
• CINCs' TMD Experiments	• Provide Opportunity To Exercise TMD Tactics, Warning And Cueing, Plans And Procedures
• Gaming (Example TMD Added To Yearly Newport Global Wargame And The Johns Hopkins Applied Physics Lab (APL) Warfare Analysis Lab Exercise)	• Highlights Awarness Of TMD Employment And Interoperability Issues

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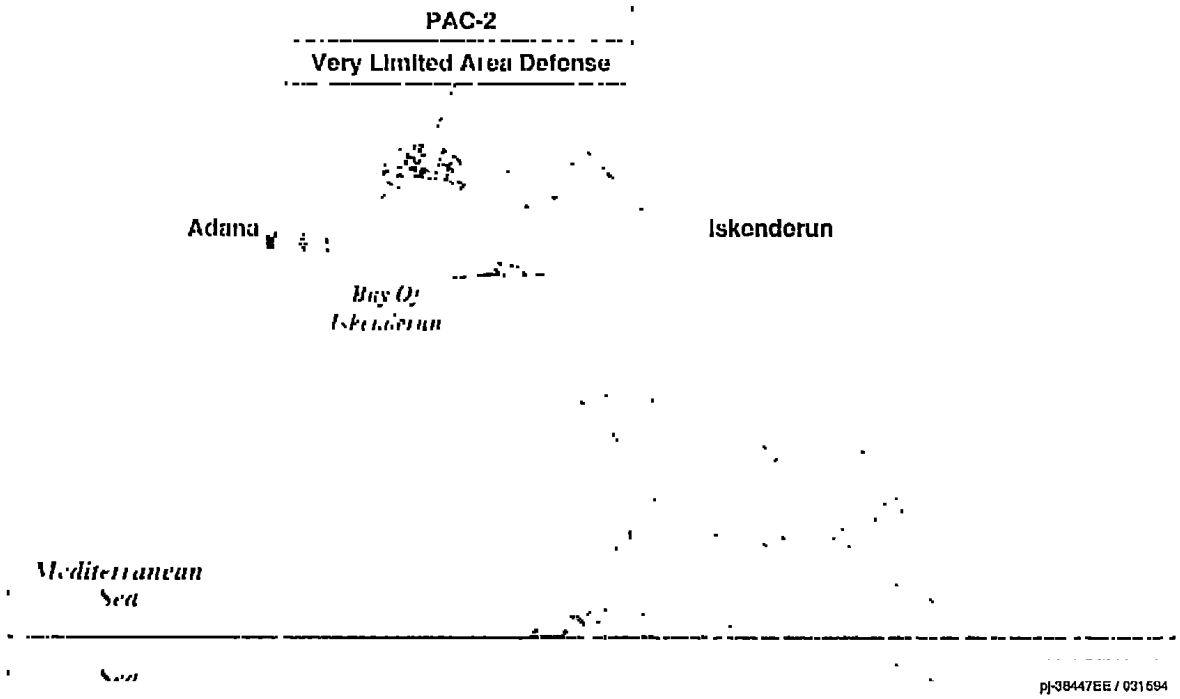
TODAY'S CAPABILITIES (FY 94-95)



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WORKING *NOW* ON TMD WITH CINCS

PACOM	USACOM	CENTCOM	EUCOM	SPACECOM / NORAD
• CINC Experiments (ORNATE IMPACT) (SEP / OCT 93) - Voice Warning Net Through PACOM To USFK - 1st TBM Play For USFK CPX • Gaming Exercises (May / June 1993) • BMD Meetings *(December 1993 - International Flavor)* • TALON SHIELD *	• Gaming Exercises (June 1993) • BMD Meetings (November 1993) • *Fleet TMD Task Force (JTF - 95)* • Cooperative TMD Engagment Concept • TALON SHIELD *	• CINC Experiments (INTERNAL LOOK) Canceled Due To Somalia Situation, Next Scheduled Exercise Is FY 95 • *Drafting JTMD Functional Document* • BLUE FLAG (March 1994) • TALON SHIELD*	• CINC Experiments (OPTIC NEEDLE) (APR / MAY 93) - Tactical Surveillance Demo (TSD) Set Up And Operational • Gaming Exercises (December 1994) • TALON SHIELD * • *Ad Hoc Group On TMD for NATO*	• CINC Experiments (OPTIC NEEDLE And ORNATE IMPACT) (APR / MAY 93, SEP / OCT 93) - Passed TBM Data To EUCOM And Through PACOM To USFK • Cueing Mechanism To Other CINCs • Gaming Exercise (October / November 1993) • National Test Bed • *TALON SHIELD (In Use Today)*

* Can Be Called Forward By CINC

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NEAR TERM CAPABILITIES (FY 94-97)

Program Area	What We Are In The Process Of Doing
• PATRIOT PAC-2 / Guidance Enhancement Missile (GEM)	• Improving Accuracy Against TBMs • Increasing Battlespace • Capability In FY 94 / 95 (Deploy FY 95-97)
• TPS-59 (Radar) / HAWK Upgrade	• Enhancing TBM Surveillance And Tracking For USMC HAWK Intercept • Cueing Other Theater Sensors • Capability FY 95 / 96 (Deploy FY 97)
• BM / C^3 (DSP Data Dissemination)	• Expanding User Availability Of Early Warning Information • Capability FY 93 / 94

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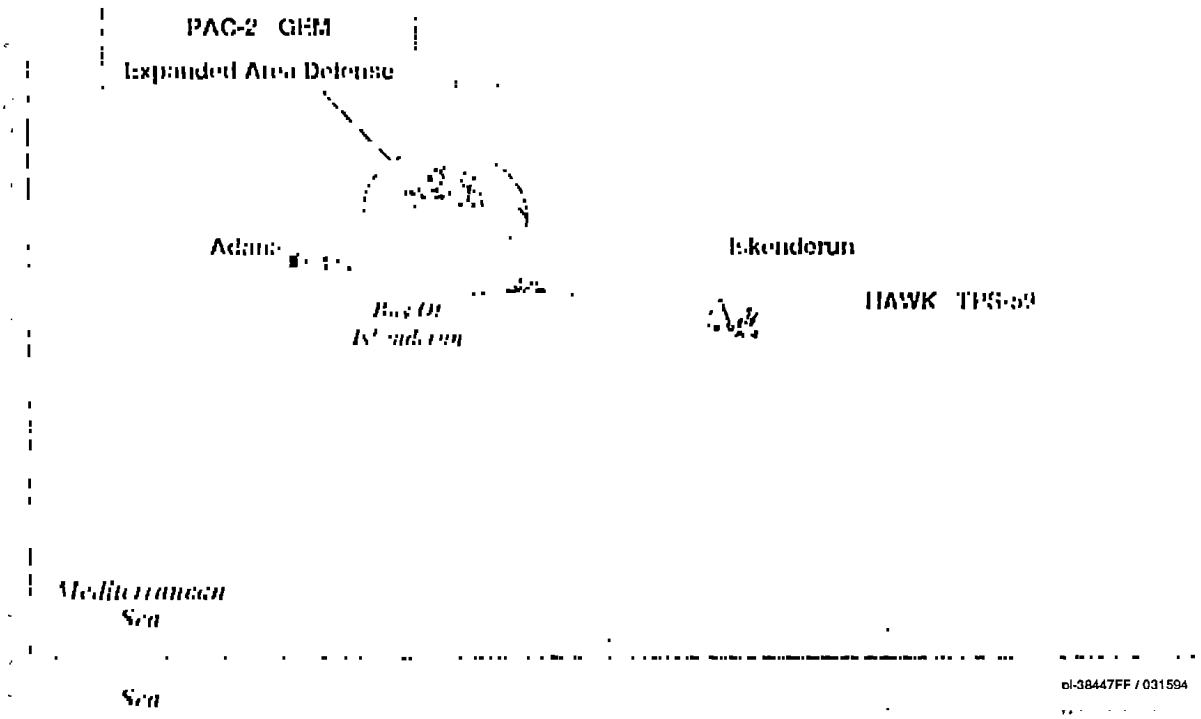
NEAR TERM CAPABILITIES (FY 94-97)



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MIDTERM CAPABILITIES (FY 97-2002)

Program Area	What We Are Going To Do
• THAAD / TMD-GBR	• First Wide Area Protection Against TBMs • Provide Multiple Shot Opportunities • Enhance Protection Effectiveness • User Operational Evaluation • Contingency Capability (FY 97-00) • Objective Capability (FY 01-02)
• PATRIOT PAC-3	• Improve Lethality Against TBMs • Increase Protected Area • Provide Remote Launch Capability • Improve Discrimination • Improve Low Altitude Performance FUE FY 98
• AEGIS / SM-2 Block IVA	• Improve Detection And Intercept Effectiveness • Improve Warhead Against Hard Targets • User Operational Evaluation • Two Ship Capability (FY 97-99)

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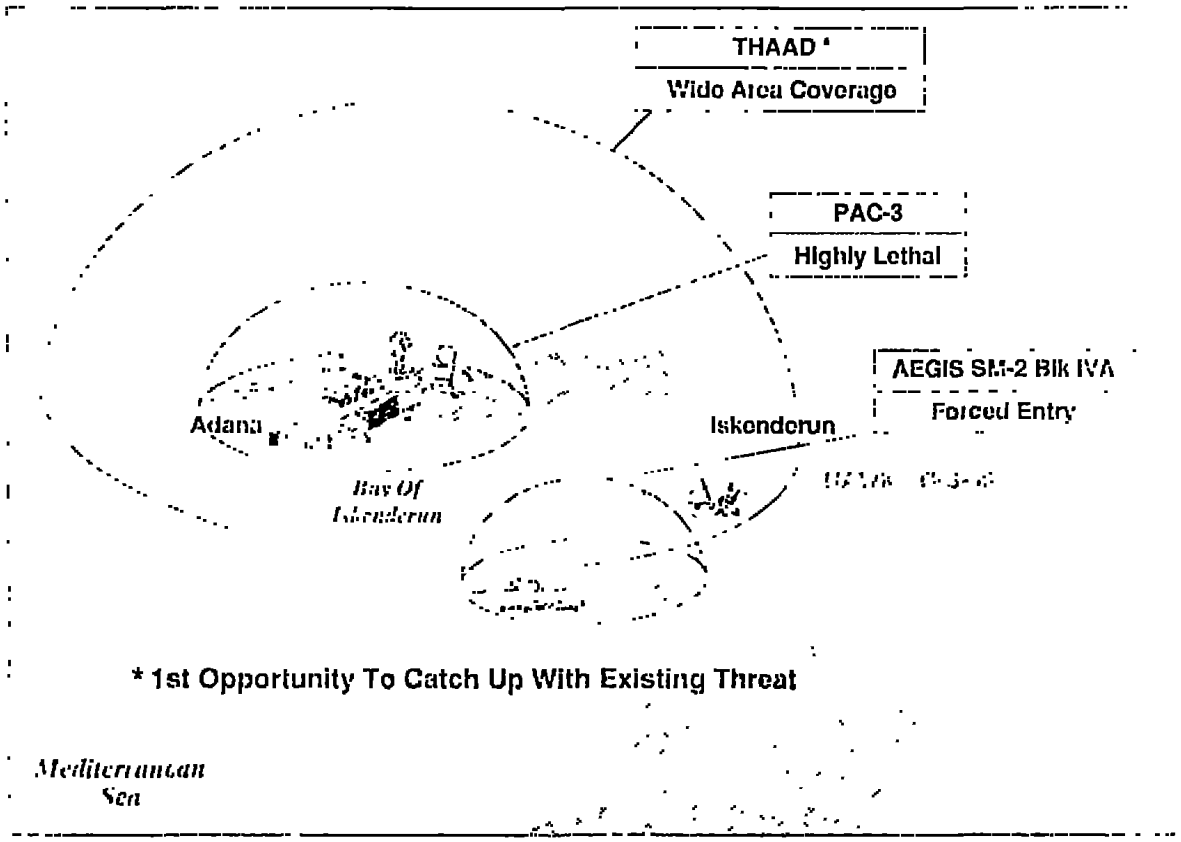
MIDTERM CAPABILITIES (FY 97-2002)



* 1st Opportunity To Catch Up With Existing Threat

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ADVANCED CONCEPTS (FY 2002+)

Program Area	What We Are Going To Do
• Sea Based (Wide Area)TMD Interceptor*	• Significantly Increase Range And Lethality Of Missile • Provide Greater Defense In Depth • Increase Shot Opportunities = Higher Probability Of Kill
• Corps SAM*	• Provide Maneuver Forces TBM Protection • Counter Cruise Missile Threat • Increase Tactical Mobility • Decrease Strategic Lift Requirement
• Boost Phase Intercept*	• Kill TBM In Boost Phase (Counter Submunitions) • Defeat Deployed Countermeasures • Assure Shortfall Of Debris And Unexpected Munitions

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

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A Single New System (FY 98 Start)

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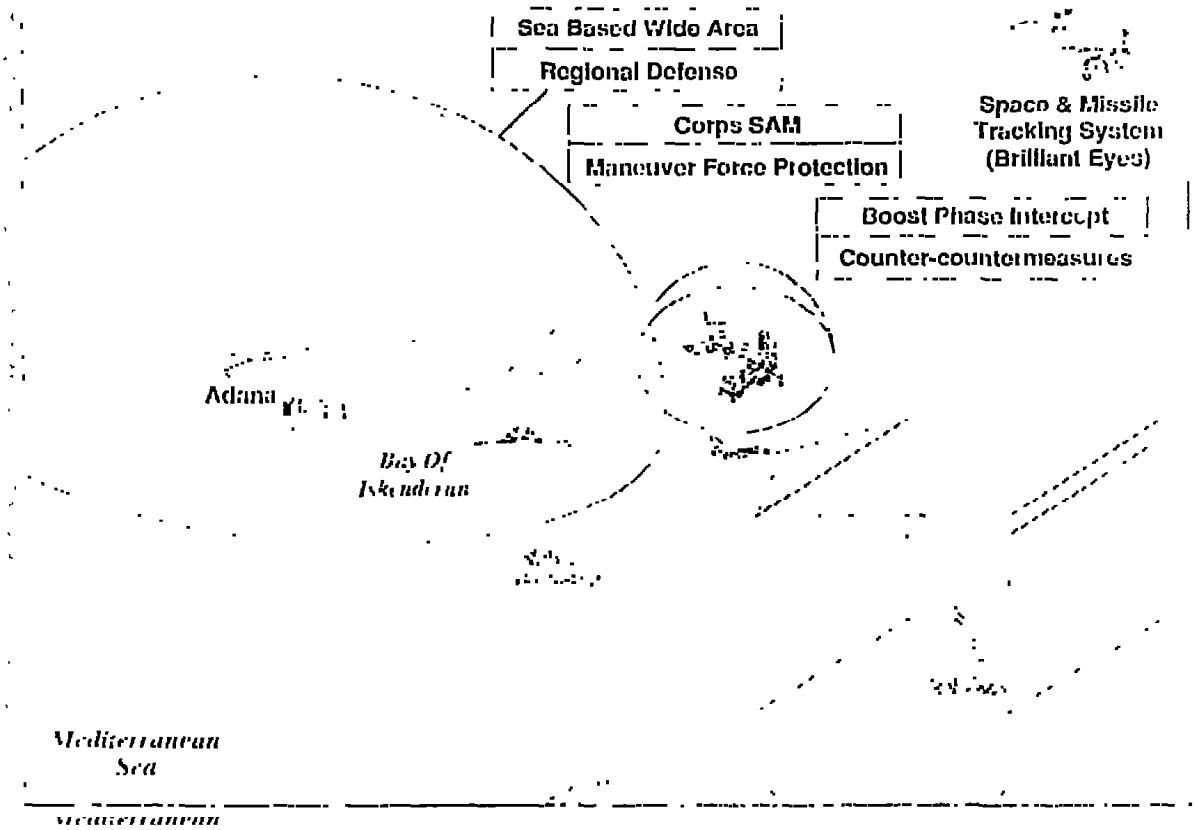
ADVANCED CONCEPTS (FY 2002+)



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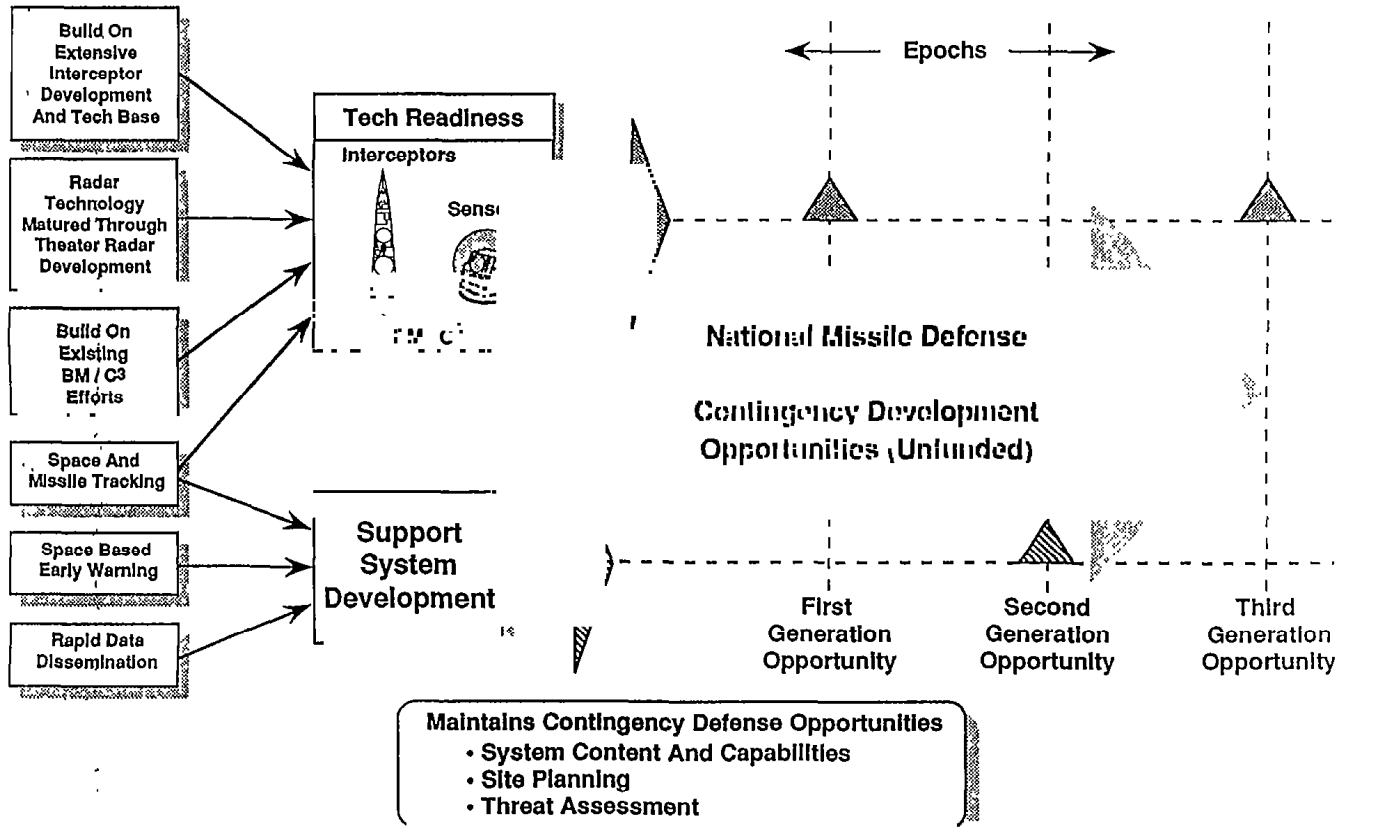
NATIONAL MISSILE DEFENSE (NMD) TECHNOLOGY READINESS PROGRAM



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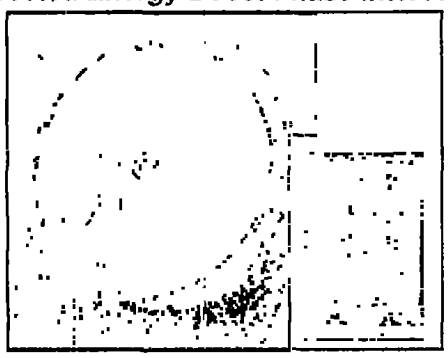
ADVANCED TECHNOLOGY

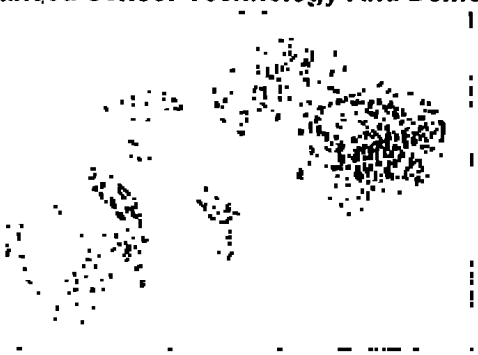
Directed Energy Boost Phase Intercept



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

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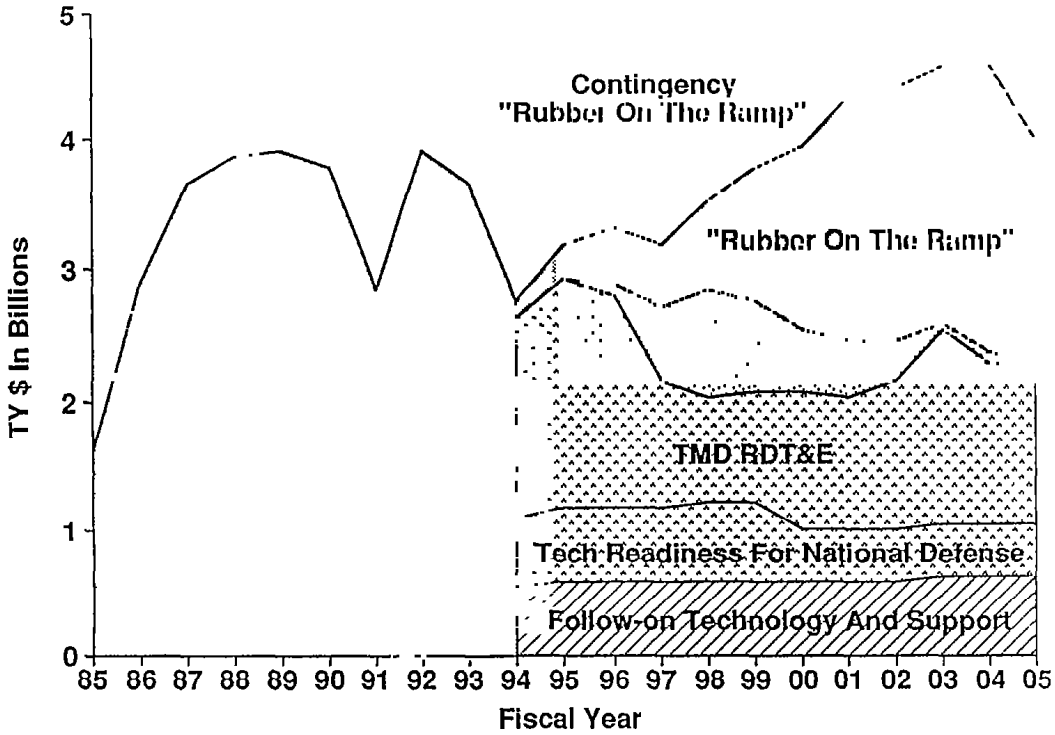
TOTAL BMDO PROGRAM



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ISSUES

- 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

- 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"