

# Missile Defense Agency (MDA)



## Ground Systems Architecture Workshop (GSAW) Session 11B – Frameworks MDA Space-Ground Segment Interests

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# The Increasing Ballistic Missile Threat



*Taepo Dong-1 Launch, August 1998*



*North Korean Taepo Dong-2 SLV Launch, December 2012*



*Missile Launches in Iranian Noble Prophet III Exercise 2009*



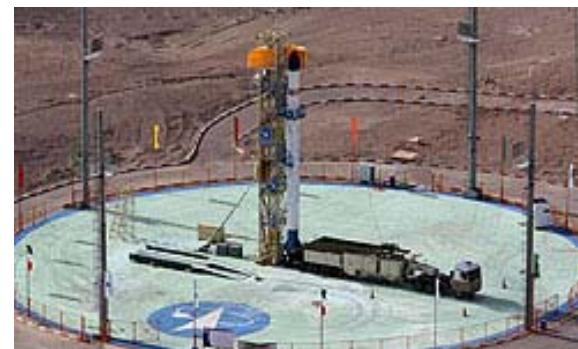
*Iranian Ashura 2-stage solid MRBM launch 2012*



*North Korean Mobile IRBM on Parade, April 2012*



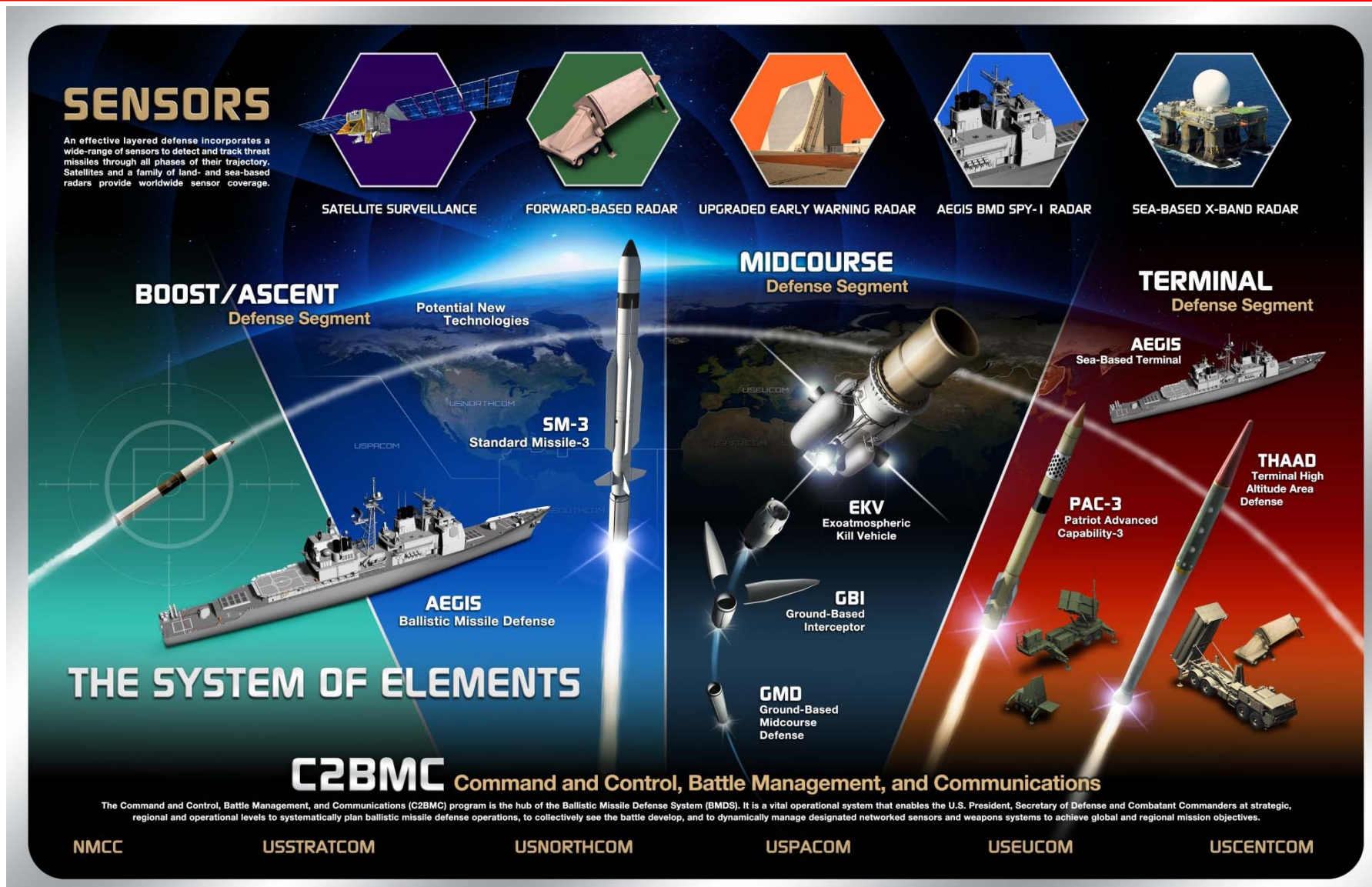
*North Korean KN08 ICBM Launcher on Parade, 2012*



*Iranian Safir SLV on launch pad, 2011*

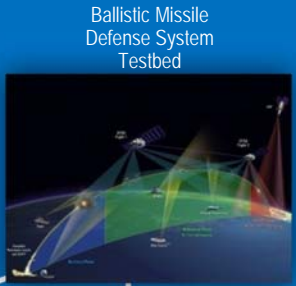
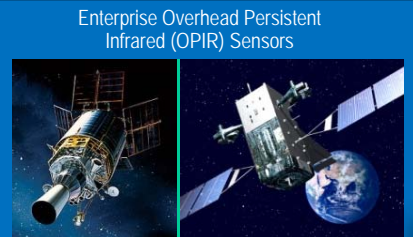


# Today's Ballistic Missile Defense System





# Mission Interfaces



Air Force Satellite Control Network (AFSCN) and Universal Space Network (USN)



Near Field Infrared Experiment (NFIRE)



Space Tracking and Surveillance System-Demonstrators (STSS-D)



Space Situational Awareness Support



Spacebased Kill Assessment (SKA)



Low Orbit Satellite Operations Center (LSOC) Mission Ops Anomaly Resolution



Engineering Mission Operations Center (EMOC)



Joint Space Operations Center (JSpOC)

System Development Integration Facility (SDIF) Test/Ops and Ground Software

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# MDA Objectives

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- **The Missile Defense Agency (MDA) shares common interests in implementing space ground segments with:**
  - **Open Architectures**
  - **Enterprise Services**
  - **Integrated environments**
  - **Cyber Resiliency**
  - **Reduced Infrastructure**
  - **Standard Interfaces**

**Leveraging Capability and Partnerships is Key**