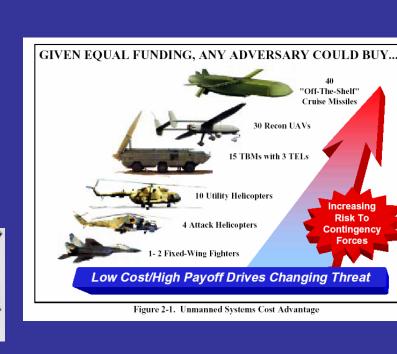


Battle Group "Force FIXED-WING AIRCRAFT protection"



Risk To



A DIFFERENT PROBLEM!



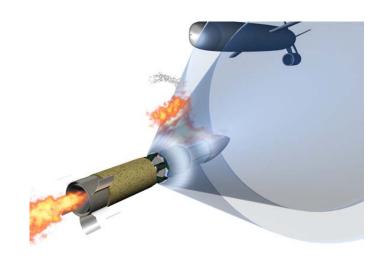
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ABRAHAM – Short Range Air Defence

Combating a large number of simultaneously incoming small targets, i.e. Cruise Missiles



- Unguided Rocket Fire and forget
- High Velocity Short time to reach target
- Directed Warhead Large stand off
- High Rotation Rate Pinpoint target



Launcher Concepts

Lightweight Launcher Concepts

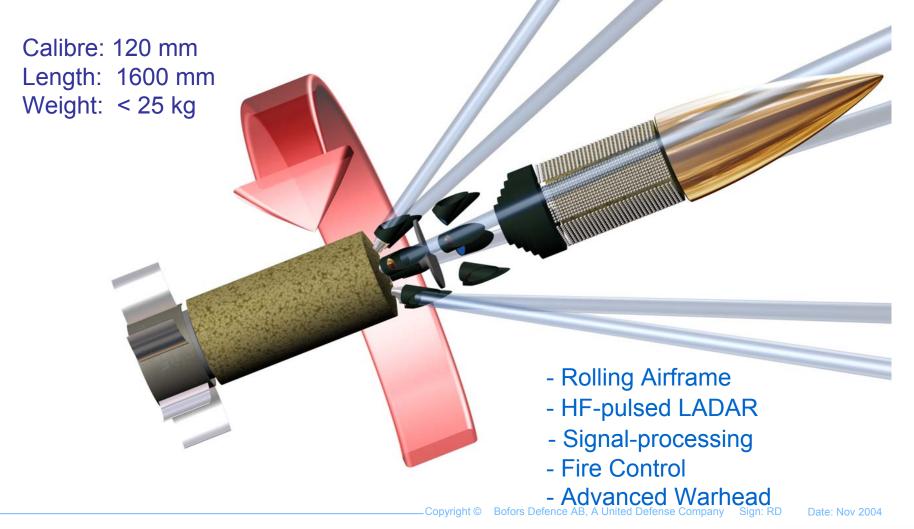
Recoiless Launch

Could use existing Mount

Rocket Motor provide fly-out speed



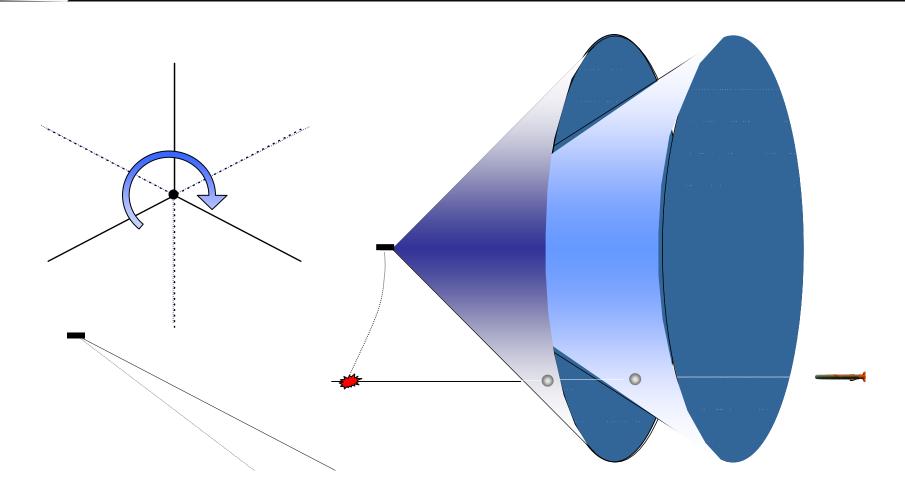
Rocket Functionality







TARGET ACQUISITION









Air Threat

Saturation Attacks

10:s / 10 km²

Passing/Attacking

100:s / km²



Protection systems

Combat so that

probability

of own survival

is maximized

JAV, mini CM`s Attack msl saturation

SM's saturation

Helicopters

ABRAHAM TECHNOLOGY Single CM's

/SHORAD Msl Single C

VSHORAD MS

Fix-winged

IGHTERS

Fix-winged

Ballistic missiles

"Rented systems"

Fix-winged ,AWACS

FIGHTERS

10:s / world



Air-Defence Systems
Combat as soon as
possible

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SUCCESSFUL TESTS



RANGE

FOCUSING

ACCURACY

PENETRATION



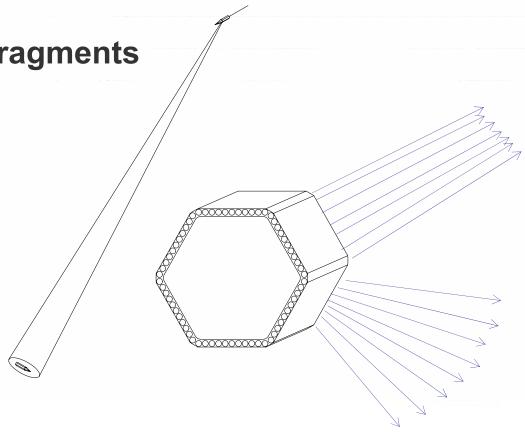


ABRAHAM Warhead

- Airframe-integrated, 10 kg

- Tungsten Pre-Formed Fragments

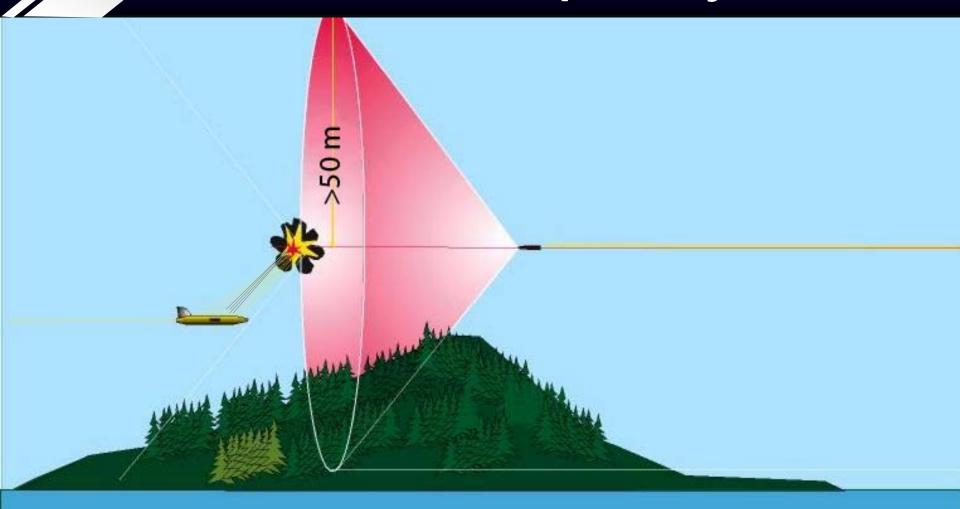
- Long Range
- Short Range







Stand-Off Capability







LONG-RANGE MODE













AIR THREAT INCREASES

Saturation Attacks

100:s / km²



10:s / 10 km²



Single CM's

/SHORAD Msl

Fix-winged

SHORAD MSI

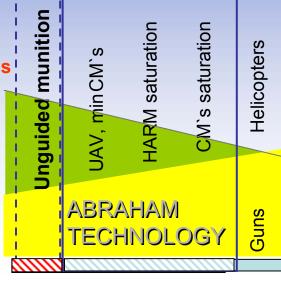
Passing/Attacking

10:s / world



Protection systems!

Combat so that probability of own survival is maximized



Fix-winged, AWACS -ix-winged

> "Rented systems" FIGHTERS FIGHTERS

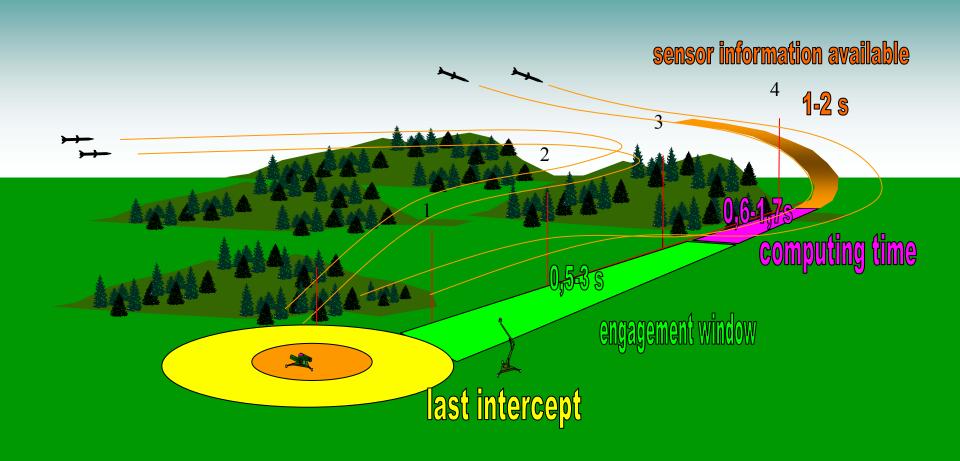
Sallistic missiles

Air-Defence Systems Combat as soon as

possible



Engagement Planning





LEO BETWEEN PLATFORMS





- DECISION SUPPORT IN A LIMITED AREA
- OPTIMISES & MAÑAGES SENSORS AND WEAPON IN A CLUSTER

___Convright @

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Date: Nov 2004



Window of opportunity

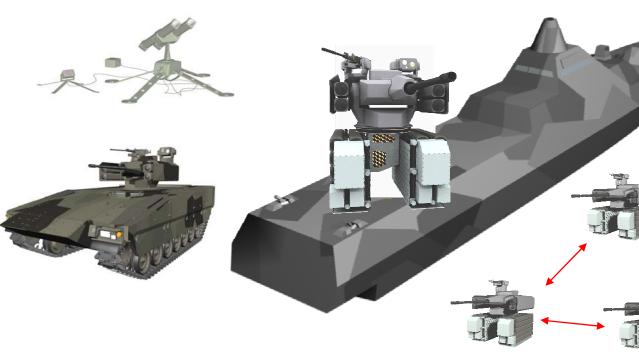


ABRAHAM Concepts

Land Platform

Naval Platform

Air Platform





In a Cluster

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ABRAHAM RAP

SENSOR

ROCKET MOTOR

WARHEAD





QUESTIONS?