

**GENERAL ASTRONAUTICS
ARCA SPACE**

**The A1
Ballistic and
Hypersonic Missile
Strategic Interceptor**

PARTNERSHIP PROGRAM

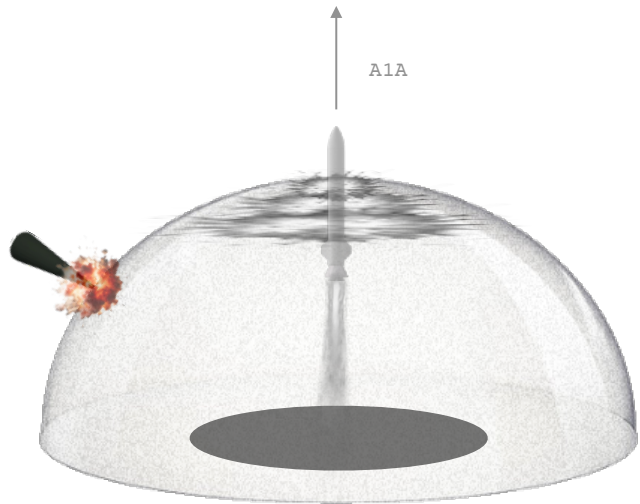
5 January 2024, pre-release version 1

The A1 overview

The A1 is a ballistic and hypersonic missile strategic interceptor built in two versions:

- The A1A is an extremely low-altitude, anti-ballistic, hypersonic and supersonic missiles interceptor, designed to protect small, high value assets, by deploying a dome, or a high density dome sector, consisting of 10 tons of pellets, chaff and flare, at altitudes of up to 200m, in the path of the incoming targets. The targets are destroyed or diverted through kinetic impact, or by deceiving them with chaff and flare.

The A1A interceptor has the capability to engage incoming MIRV-ed ICBM, SLBM, IRBM, MRBM, RV-ed SRBM, HM and SCM carrying ground detonation warheads, both conventional and nuclear.



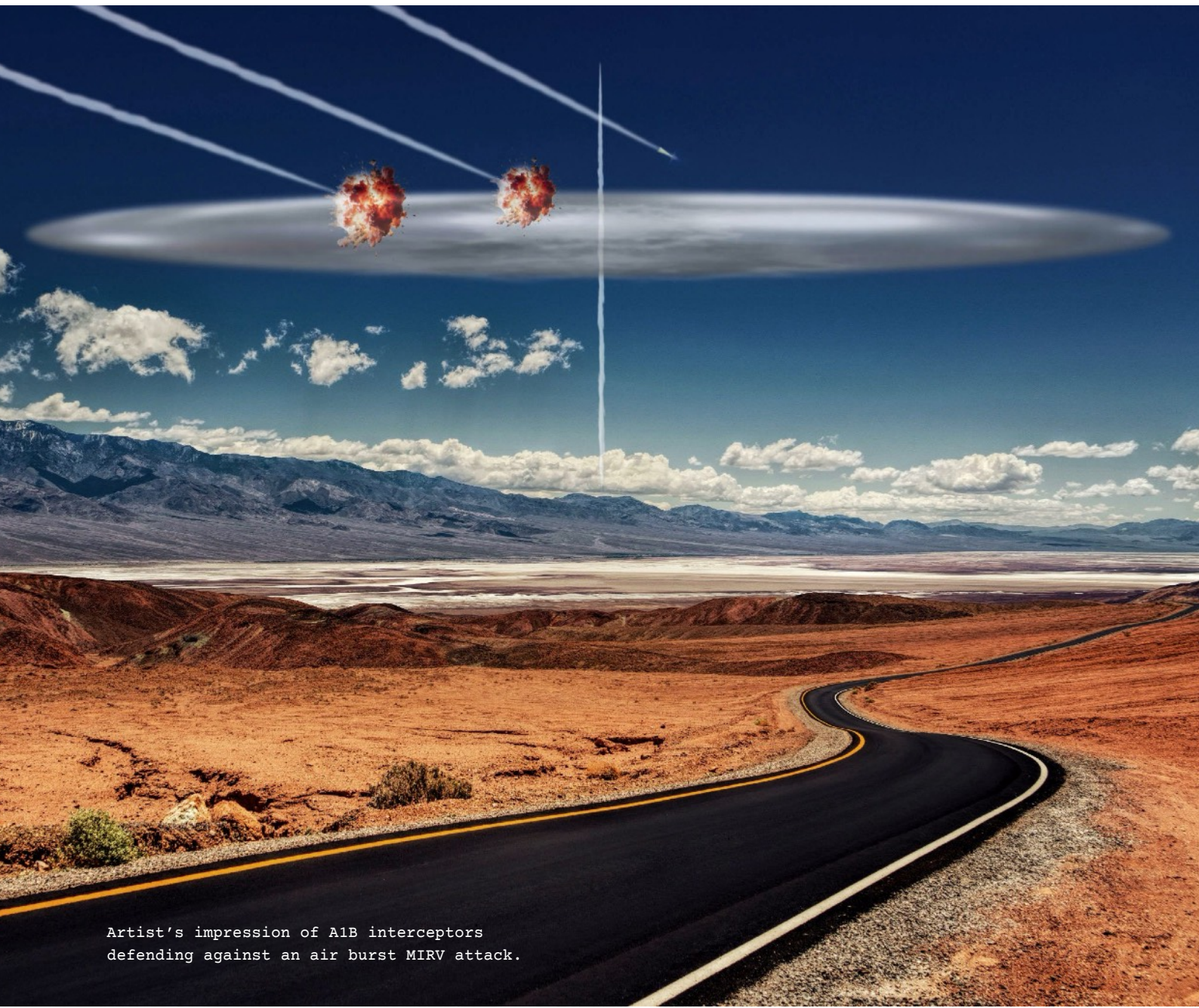
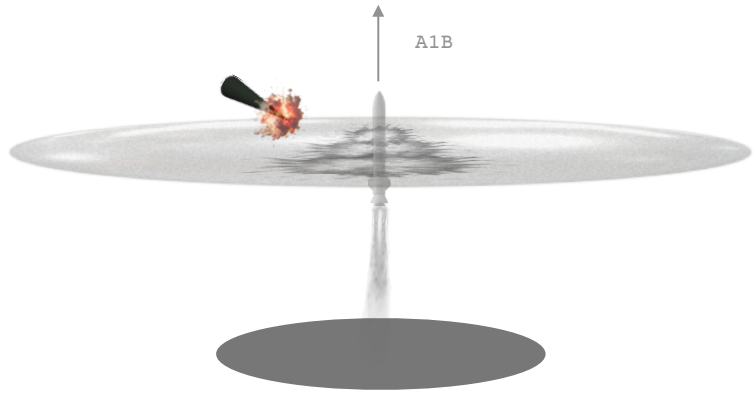
Artist's impression of A1A interceptors defending hardened ground assets attacked with MIRVs.

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- The A1B is a low-altitude, anti-ballistic, hypersonic and supersonic missiles interceptor, designed to protect small, high value assets, by deploying a dome consisting of 6 tons of pellets, at an altitude of up to 2,000m, in the path of the incoming targets. The targets are destroyed or diverted through kinetic impact, or by deceiving them with chaff and flare.

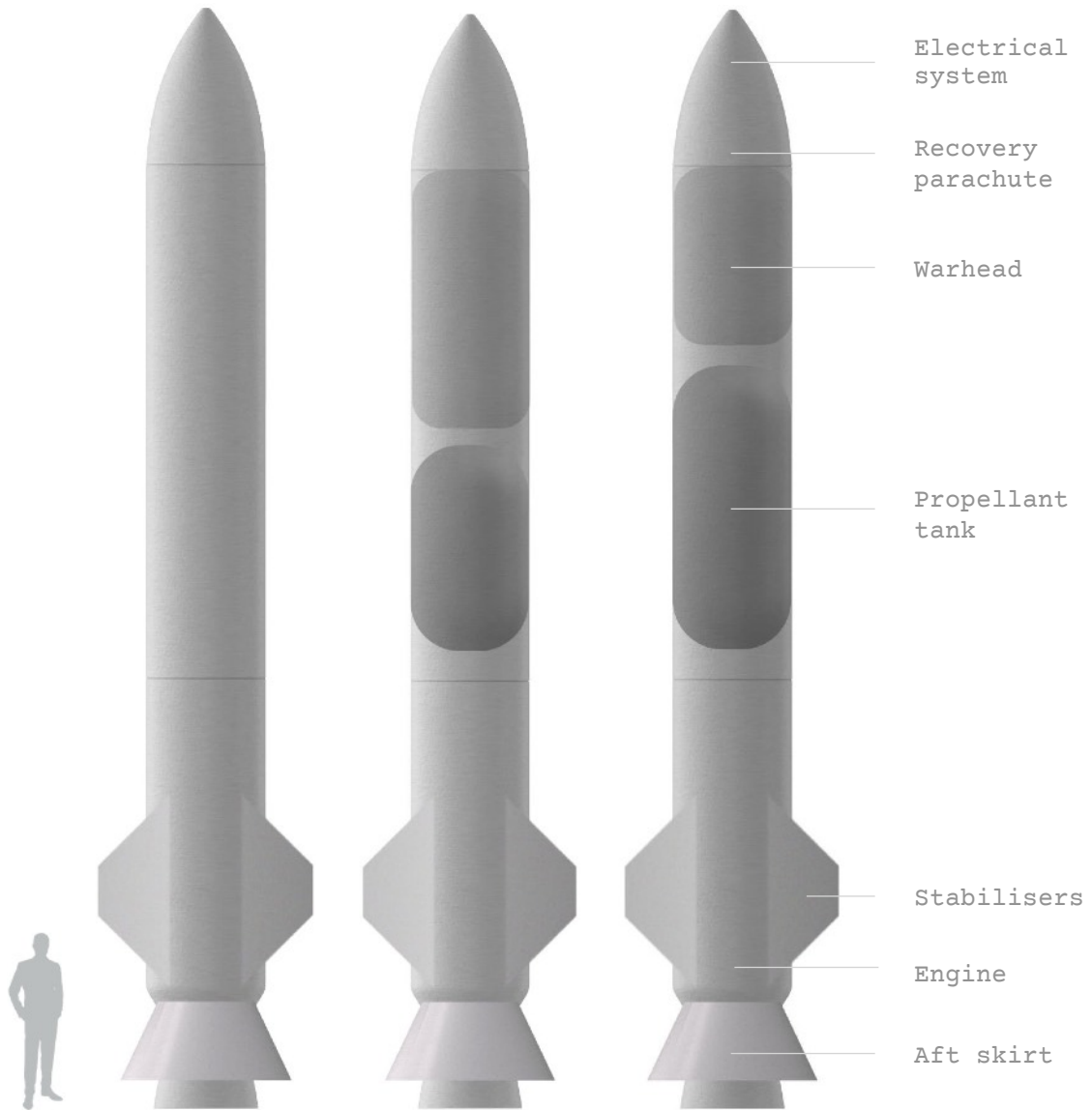
The A1B interceptor has the capability to engage incoming MIRV-ed ICBM, SLBM, IRBM, MRBM, RV-ed SRBM, and HM carrying carrying nuclear air burst warheads or conventional cluster munition.

The A1B could engage nuclear warheads up to 500 kiloton at their optimum detonation altitude.



Artist's impression of A1B interceptors defending against an air burst MIRV attack.

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The A1A and A1B interceptors. The A1A, designed to counter ground detonation warheads, has a larger warhead than the A1B, which is designed to counter air burst warheads.



Example of pellets options for the A1 warhead.

Partnership Program

The A1 Partnership Program is designed to enable military customers to participate in the development phase of the A1 interceptor, to localise part fabrication, and to benefit from discounts for future purchases.

	Tier 1	Tier 2	Tier 3	Tier 4
Tier value, USD million	1	2	3	4
Participation in technical development				X
Participation in deployment architecture			X	X
Participation in testing phase		X	X	X
Participation in interception testing	X	X	X	X
Participation in homologation phase	X	X	X	X
Parts fabrication, up to 10%	X			
Parts fabrication, up to 20%		X		
Parts fabrication, up to 30%			X	
Parts fabrication, up to 40%				X
First ten squadrons purchase discount, 5%	X			
First ten squadrons purchase discount, 10%		X		
First ten squadrons purchase discount, 15%			X	
First ten squadrons purchase discount, 20%				X



Artist's impression of the A1A and A1B interceptors firing simultaneously against ground detonation and air burst attacks.



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