

Technology Gap Summary for Naval Unmanned Aerial Vehicles

Technology			Sub Technology	"Reds"	"Yellows"
Air Vehicle	4	5	Airframe	1	4
			Powerplant	3	1
Automatic Control System	44	60	Auto Takeoff & Landing	1	3
			Automatic Target Recognition	5	6
			Automatic Targeting	1	0
			Automatic Taxi	1	0
			Data Fusion	7	4
			Data Management	8	6
			Detect, See and Avoid	4	7
			Mission Control	9	10
			Payload Control	8	24
Autonomous Network	9	12	LAN	9	11
			WAN	0	1
Data Link	40	64	Antenna	10	24
			Data Management	8	6
			Narrowband	1	0
			Standards	9	12
			Wideband	12	22
Payload	72	108	Comm Relay	3	7
			EO/IR	41	19
			ESM	4	12
			IRST	7	3
			Laser Designator	2	2
			MMR	9	23
			NBC	1	4
			Plug and Play	5	25
			Survivability Subsystem	0	3
			Weapons	0	10
TCS AV Control	7	6			
TCS C4I	1	4			
TCS Data Link	4	49	Encryption	1	0
			Interoperability & Standards	1	0
			Man Portable Wideband	2	0
			Narrowband	0	4
			Narrowband Antennas & Standards	0	45
TCS HCI	0	1			
TCS IT Design Standards	0	2			
TCS MMP Control	27	15			
TCS Payload Product Management	0	11			

Technology Maturity

Red	This technology does not exist in form, fit, and function required to be used in the capacity designated in the chart
Yellow	This technology does exist, but has limitations in form, fit, or function and would require some new technology to be used in the capacity designated in the chart
Blue	The technology exists in form, fit, and function and only requires design and integration to be used in the capacity designated in the chart
Green	This technology exist in a system or program of record which can be used in the capacity designated in the chart

System requirements with "Blue" and "Green" Technology Maturities are not included in the Detailed Technology Gap database. For this information, contact PMA Architecture IPT Lead, CAPT Jim Clifton, (301)757-5886.