

TABLE 6

Department of Defense, total obligational authority for research, development, test, and evaluation, by DOD budget activity: FYs 2020–22

(Millions of dollars and percent change)

Funding category and agency	Budget activity	2020 actual	2021 preliminary	2022 proposed	2020–21 (% change)	2021–22 (% change)
RDT&E total budget authority	-	104,964	106,446	111,964	1.4	5.2
R&D budget authority within RDT&E accounts ^a	-	68,679	68,189	69,089	-0.7	1.3
RDT&E total obligational authority ^b	-	106,138	106,791	109,680	0.6	2.7
Basic research		2,522	2,626	2,283	4.1	-13.1
Defense agencies		813	887	717	9.0	-19.2
Department of the Air Force		517	536	491	3.7	-8.5
Space Force	1	na	0	0	-	-
Department of the Army		557	553	473	-0.9	-14.3
Department of the Navy		634	650	602	2.6	-7.4
Applied research		6,059	6,436	5,509	6.2	-14.4
Defense agencies		2,013	1,961	2,130	-2.6	8.6
Department of the Air Force		1,688	1,561	1,312	-7.5	-15.9
Space Force	2	na	217	176	-	-18.9
Department of the Army		1,228	1,519	914	23.7	-39.8
Department of the Navy		1,130	1,179	976	4.3	-17.2
Advanced technology development		7,332	7,754	6,893	5.8	-11.1
Defense agencies		4,044	3,978	4,008	-1.6	0.7
Department of the Air Force		956	1,000	734	4.6	-26.6
Space Force	3	na	0	77	-	-
Department of the Army		1,520	1,940	1,297	27.6	-33.1
Department of the Navy		811	836	778	3.0	-6.9
Advanced component development and prototypes		26,670	27,997	31,255	5.0	11.6
Defense agencies		10,437	10,096	9,854	-3.3	-2.4
Department of the Air Force		8,138	7,428	8,937	-8.7	20.3
Space Force	4	na	1,366	1,579	-	15.6
Department of the Army		2,896	3,577	3,806	23.5	6.4
Department of the Navy		5,199	5,530	7,078	6.4	28.0
System development and demonstration		16,558	15,748	15,761	-4.9	0.1
Defense agencies		922	726	549	-21.2	-24.5
Department of the Air Force		6,521	2,449	2,570	-62.4	4.9
Space Force	5	na	3,749	3,339	-	-10.9
Department of the Army		3,073	2,948	3,392	-4.0	15.1
Department of the Navy		6,042	5,876	5,910	-2.8	0.6
RDT&E management support		9,539	7,627	7,387	-20.0	-3.1
Defense agencies		1,992	1,401	1,384	-29.7	-1.2
Department of the Air Force		3,912	2,880	3,016	-26.4	4.7
Space Force	6	na	274	356	-	30.0
Department of the Army		1,760	1,834	1,417	4.2	-22.8
Department of the Navy		1,648	981	999	-40.5	1.8
Operational test and evaluation		228	257	217	12.9	-15.8
Operational system development		37,459	38,603	40,592	3.1	5.2
Defense agencies		6,458	6,533	6,607	1.1	1.1
Department of the Air Force		24,070	20,506	21,706	-14.8	5.8
Space Force	7	na	4,785	5,585	-	16.7
Department of the Army		1,810	1,717	1,380	-5.1	-19.6
Department of the Navy		5,121	5,062	5,313	-1.1	5.0

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(Millions of dollars and percent change)

Funding category and agency	Budget activity	2020 actual	2021 preliminary	2022 proposed	2020–21 (% change)	2021–22 (% change)
Adjustment for RDT&E budget authority ^c	-	-1,174	-345	2,284	na	na

na = not applicable.

DOD = Department of Defense; RDT&E = research, development, test, and evaluation.

^a Totals for development spending across all years do not include DOD Budget Activity 7 (BA-7) (Operational Systems Development) due to implementation of the narrowed definition of development described by the Office of Management and Budget (OMB) in its Circular A-11 of July 2016. These BA-7 funds support development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year.

^b RDT&E budget activity codes are broad categories reflecting different types of RDT&E efforts, as specified in the DOD Financial Management Regulation.

^c Detailed budget information on DOD RDT&E activities is available only in total obligational authority (TOA), which is the sum of new budget authority, unobligated budget authority from previous years, and other authorized credits. The adjustment converts TOA to budget authority by subtracting unobligated budget authority from previous years and other authorized credits from TOA.

Note(s):

Detail may not add to total because of rounding. Percent change is calculated on unrounded data.

Source(s):

Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, supplemental data obtained from agencies' budget offices, and Executive Office of the President, OMB, *Budget of the United States Government, Fiscal Year 2021*, U.S. Government Printing Office (2020).