

Upgrades to U.S. ATLAS WBS Profile Estimates

Funding Source: All

Funding Type: Project

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Institutions: All

WBS Number	Description	FY 03 (k\$)	FY 04 (k\$)	FY 05 (k\$)	FY 06 (k\$)	FY 07 (k\$)	FY 08 (k\$)	FY 09 (k\$)	FY 10 (k\$)	FY 11 (k\$)	FY 12 (k\$)	Total (k\$)
4.1	Silicon	0	978	1864	2762	1980	2708	2405	1538	4353	6353	24942
4.1.1	Pixels	0	790	1676	2068	1532	1968	1444	366	0	0	9843
4.1.1.1	Upgrade R&D	0	517	676	1331	0	0	0	0	0	0	2524
4.1.1.1.1	Mechanics/Services	0	78	103	103	0	0	0	0	0	0	285
4.1.1.1.2	Sensors	0	74	69	114	0	0	0	0	0	0	257
4.1.1.1.3	Electronics	0	340	349	667	0	0	0	0	0	0	1356
4.1.1.1.4	Hybrids	0	0	86	203	0	0	0	0	0	0	289
4.1.1.1.5	Module assembly	0	26	57	220	0	0	0	0	0	0	303
4.1.1.1.6	Test beam support	0	0	11	23	0	0	0	0	0	0	34
4.1.1.2	Third hit upgrade	0	272	1000	736	241	0	0	0	0	0	2250
4.1.1.2.1	Mechanics	0	0	347	254	182	0	0	0	0	0	782
4.1.1.2.2	Sensors	0	164	0	0	0	0	0	0	0	0	164
4.1.1.2.3	Electronics	0	0	208	58	0	0	0	0	0	0	266
4.1.1.2.4	Flex Hybrids/Optical Hybrids	0	0	315	254	0	0	0	0	0	0	569
4.1.1.2.5	Module assembly/Test	0	108	131	170	60	0	0	0	0	0	469
4.1.1.3	B-layer replacement	0	0	0	0	1291	1968	1444	366	0	0	5069
4.1.1.3.1	Mechanics/Services	0	0	0	0	339	501	630	366	0	0	1836
4.1.1.3.2	Sensors	0	0	0	0	104	204	0	0	0	0	308

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4.1.1.3.3	Electronics	0	0	0	0	512	596	304	0	0	0	1412
4.1.1.3.4	Hybrids	0	0	0	0	192	283	186	0	0	0	661
4.1.1.3.5	Modules	0	0	0	0	143	384	324	0	0	0	851
4.1.2	SCT	0	188	188	188	165	387	387	1000	4000	6000	12502
4.1.2.1	Upgrade R&D	0	188	188	188	165	387	387	0	0	0	1502
4.1.2.1.1	Spare R&D	0	188	188	188	55	0	0	0	0	0	619
4.1.2.1.2	Replacement R&D	0	0	0	0	110	387	387	0	0	0	883
4.1.2.2	Upgrades	0	0	0	0	0	0	0	1000	4000	6000	11000
4.1.3	ReadOut Drivers	0	0	0	507	283	353	574	172	353	353	2597
4.1.3.1	Upgrade R&D	0	0	0	210	283	0	0	0	0	0	493
4.1.3.2	Upgrade - pixel RODs	0	0	0	297	0	353	574	0	0	0	1224
4.1.3.3	Upgrade - SCT RODs	0	0	0	0	0	0	0	172	353	353	879