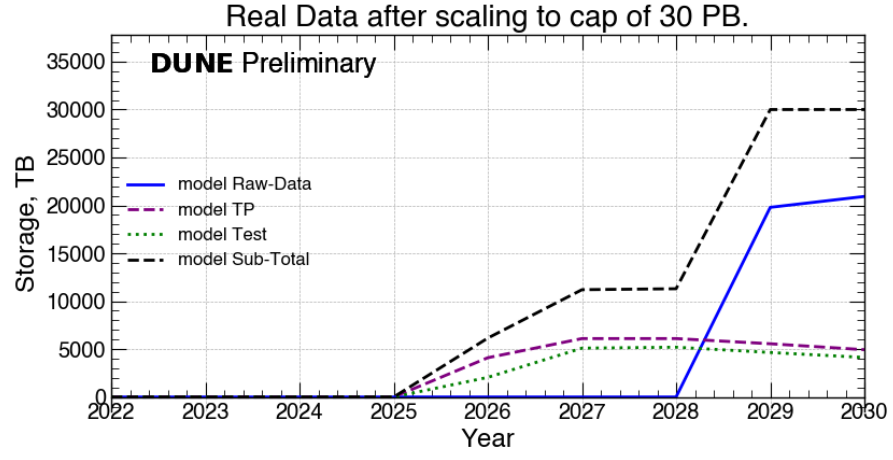


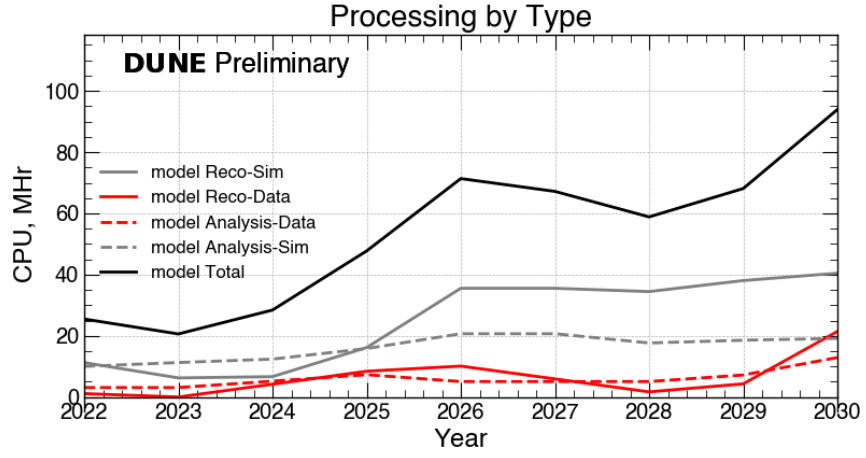
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	0	0	0	0	0	0	0	21725	25850
TP	0	0	0	0	4100	6100	6100	6100	6100
Test	0	0	0	0	2050	5100	5200	5100	5100
Sub-Total	0	0	0	0	6150	11200	11300	32925	37050

Table 1: Real data create/year in TB



DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	0	0	0	0	0	0	0	19794	20931
TP	0	0	0	0	4100	6100	6100	5558	4939
Test	0	0	0	0	2050	5100	5200	4646	4129
Sub-Total	0	0	0	0	6150	11200	11300	30000	30000

Table 2: Real data created/year in TB, after scaling to cap of 30 PB. All data types are scaled by the same factor.



DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reco-Sim	11.2	6.2	6.7	16.2	35.5	35.5	34.5	38.0	40.5
Reco-Data	1.1	0.0	4.2	8.4	10.1	5.9	1.7	4.3	21.4
Analysis-Data	3.1	3.1	5.2	7.3	5.1	5.1	5.1	7.2	12.9
Analysis-Sim	10.0	11.3	12.4	15.8	20.7	20.7	17.7	18.6	19.2
Total	25.5	20.6	28.4	47.7	71.4	67.2	58.8	68.1	93.9

Table 3: CPU resources by data types by year.

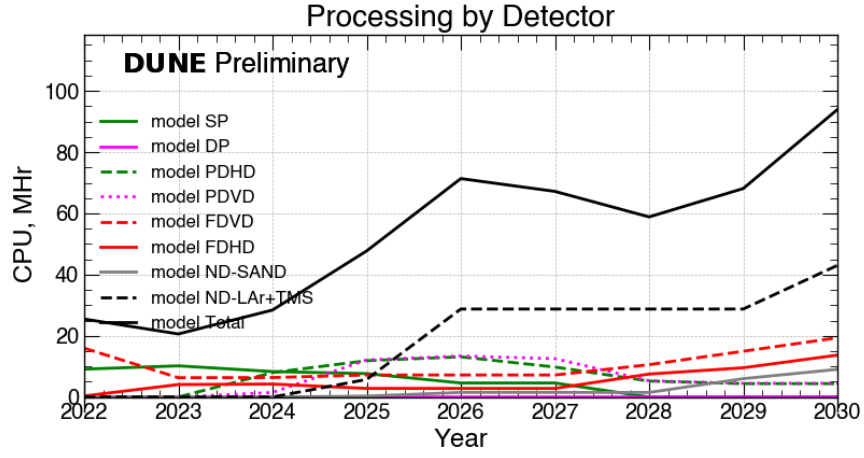
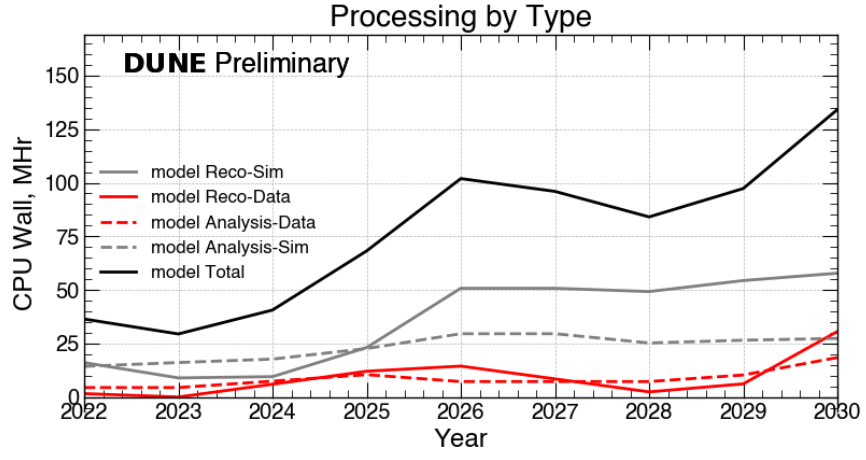
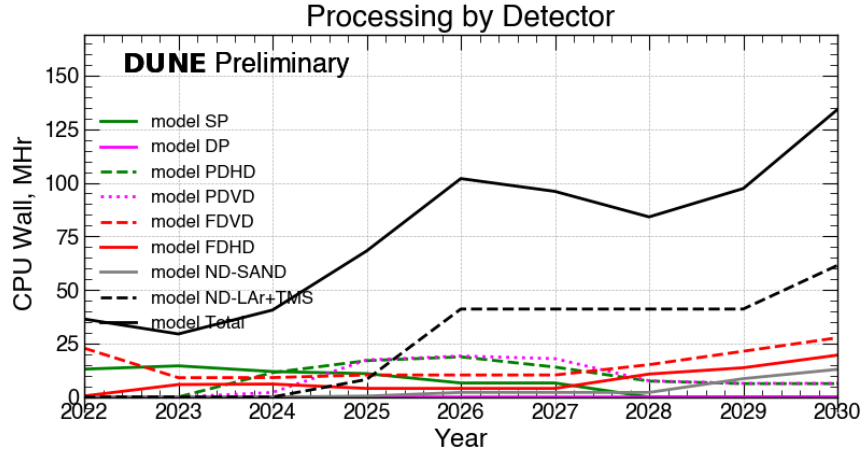


Table 4: CPU resources by detector by year.



DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reco-Sim	16	8	9	23	50	50	49	54	57
Reco-Data	1	0	5	12	14	8	2	6	30
Analysis-Data	4	4	7	10	7	7	7	10	18
Analysis-Sim	14	16	17	22	29	29	25	26	27
Total	36	29	40	68	101	95	84	97	134

Table 5: CPU Wall resources by data types by year.



Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	13	14	11	10	6	6	0	0	0
DP	0	0	0	0	0	0	0	0	0
PDHD	0	0	11	16	18	13	7	6	6
PDVD	0	0	2	17	19	17	7	6	6
FDVD	22	9	9	10	10	10	15	21	27
FDHD	0	5	6	4	4	4	10	13	19
ND-SAND	0	0	0	0	2	2	2	8	12
ND-LAr+TMS	0	0	0	8	41	41	41	41	61
Total	36	29	40	68	101	95	84	97	134

Table 6: CPU Wall resources by detector by year.

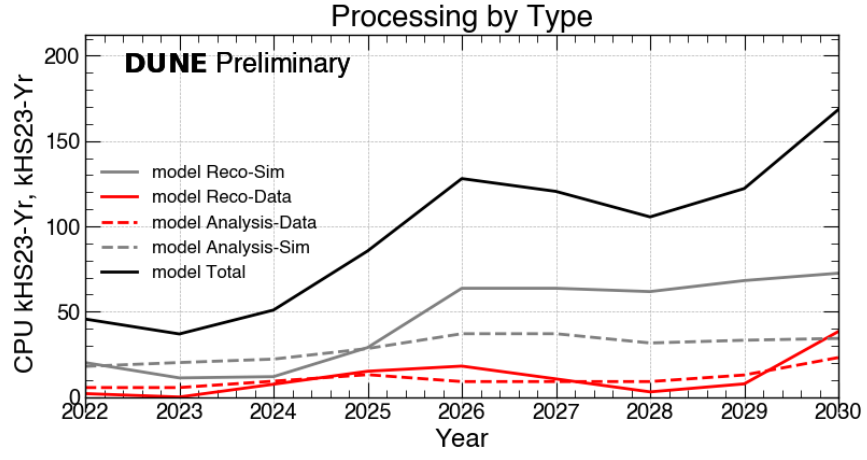
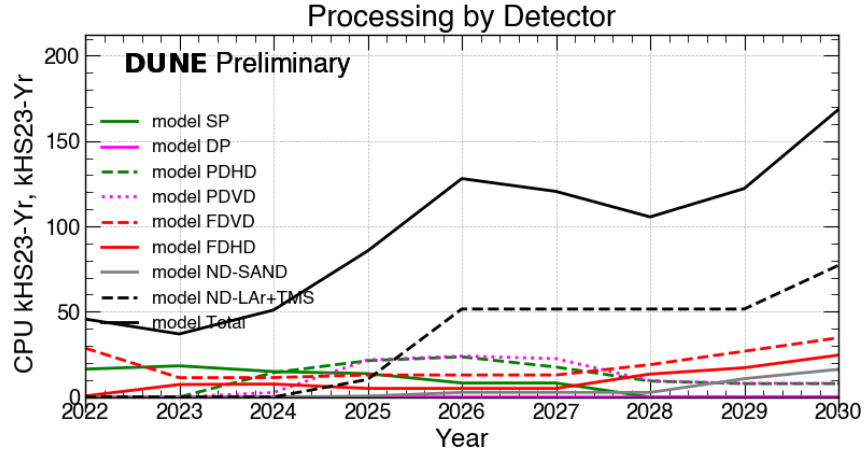


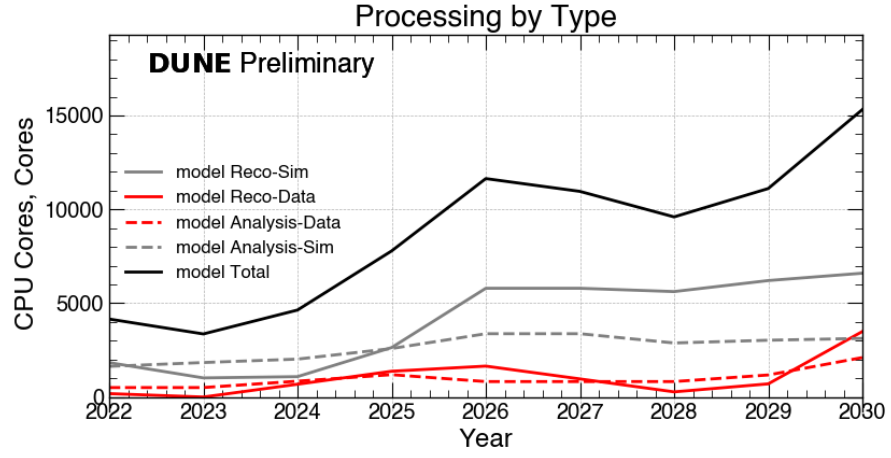
Table 7: CPU kHS23-Yr resources by data types by year.



Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	16	18	14	13	8	8	0	0	0
DP	0	0	0	0	0	0	0	0	0
PDHD	0	0	14	21	23	17	9	7	7
PDVD	0	0	2	21	24	22	9	8	8
FDVD	28	11	11	12	12	12	18	26	34
FDHD	0	7	7	5	5	5	13	17	24
ND-SAND	0	0	0	0	2	2	2	10	16
ND-LAr+TMS	0	0	0	10	51	51	51	51	77
Total	45	36	50	85	128	120	105	122	168

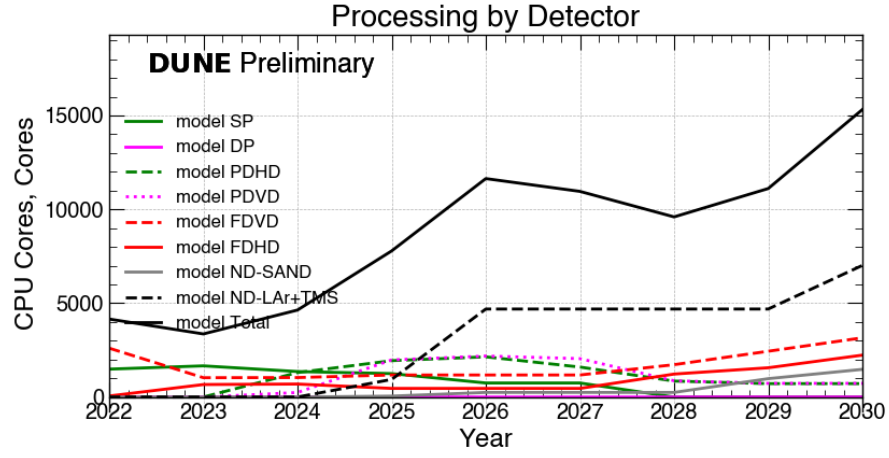
Table 8: CPU kHS23-Yr resources by detector by year.





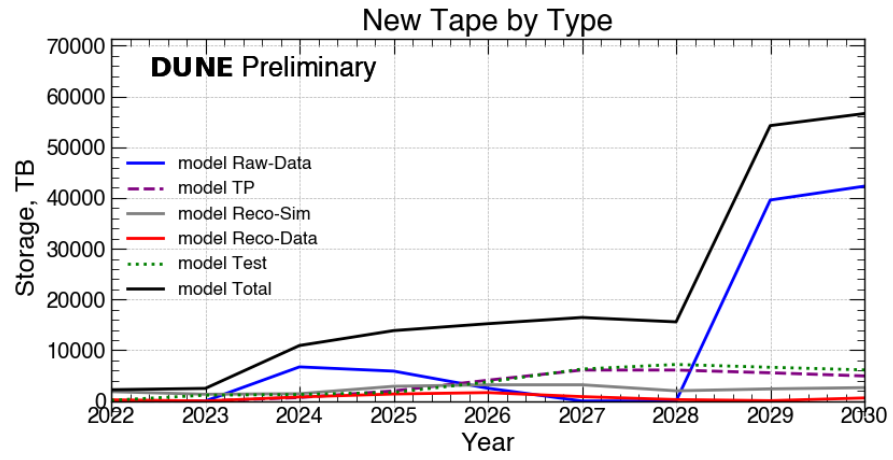
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Reco-Sim	1833	1018	1086	2636	5793	5793	5618	6205	6596
Reco-Data	182	0	682	1372	1647	965	274	701	3491
Analysis-Data	504	504	845	1190	823	823	823	1174	2103
Analysis-Sim	1634	1837	2019	2583	3372	3372	2879	3026	3124
Total	4154	3360	4633	7783	11637	10955	9595	11107	15315

Table 9: CPU Cores resources by data types by year.



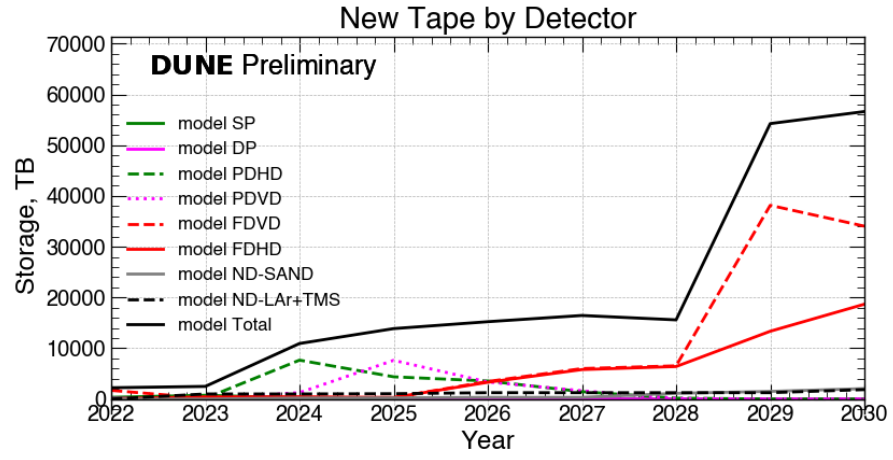
Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	1486	1661	1357	1248	748	748	0	0	0
DP	9	4	4	4	0	0	0	0	0
PDHD	0	0	1302	1936	2140	1596	849	713	713
PDVD	0	0	240	1975	2183	2044	866	727	727
FDVD	2602	1029	1037	1173	1173	1173	1723	2439	3155
FDHD	55	665	691	458	458	458	1223	1559	2232
ND-SAND	0	0	0	48	244	244	244	978	1474
ND-LAr+TMS	0	0	0	937	4688	4688	4688	4688	7012
Total	4154	3360	4633	7783	11637	10955	9595	11107	15315

Table 10: CPU Cores resources by detector by year.



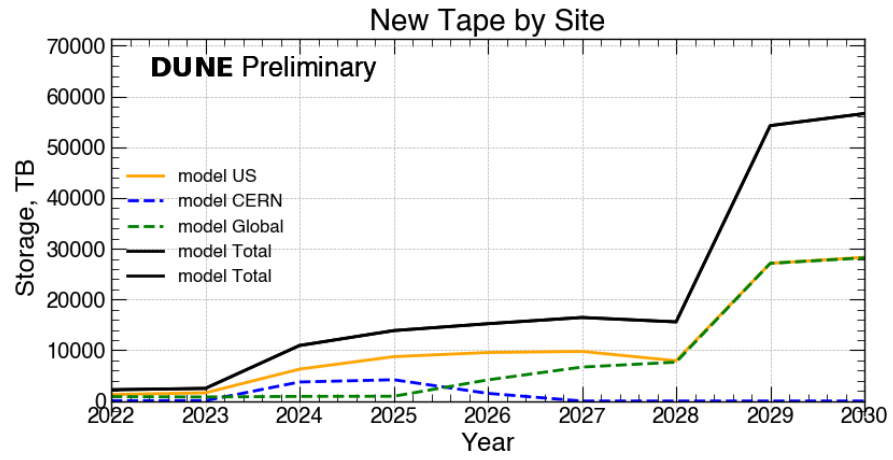
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	0	0	6722	5888	2522	0	0	39589	42312
TP	0	0	681	2000	4100	6100	6100	5558	4939
Reco-Sim	1849	1336	1438	2897	3197	3197	2015	2390	2640
Reco-Data	234	0	802	1385	1662	860	277	66	604
Test	138	1149	1291	1700	3750	6300	7200	6646	6129
Total	2222	2486	10934	13870	15231	16457	15592	54250	56625

Table 11: New Tape by data type.



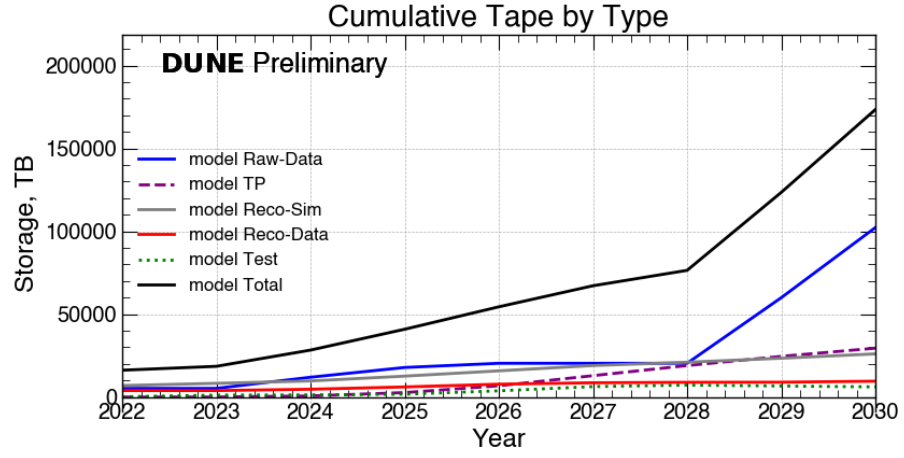
Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	337	742	195	0	0	0	0	0	0
DP	137	0	0	0	0	0	0	0	0
PDHD	8	144	7655	4375	3550	1450	175	0	0
PDVD	0	5	1263	7620	3356	1632	102	0	0
FDVD	1702	159	166	300	3450	6000	6540	38150	34045
FDHD	36	435	452	300	3300	5800	6400	13350	18679
ND-SAND	0	0	200	225	325	325	1125	1500	2050
ND-LAr+TMS	0	1000	1000	1050	1250	1250	1250	1250	1850
Total	2222	2486	10934	13870	15231	16457	15592	54250	56625

Table 12: New Tape by detector.



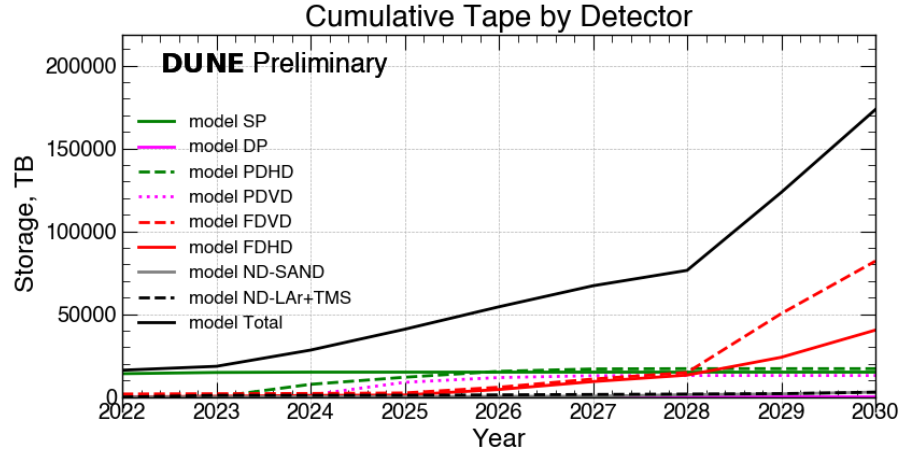
Locations	2022	2023	2024	2025	2026	2027	2028	2029	2030
US	1283	1614	6277	8738	9557	9769	7934	27125	28312
CERN	69	74	3747	4194	1511	0	0	0	0
Global	869	797	909	937	4162	6687	7657	27125	28200
Total	2222	2486	10934	13870	15231	16457	15592	54250	56625
Total	2222	2486	10934	13870	15231	16457	15592	54250	56625

Table 13: New Tape by site.



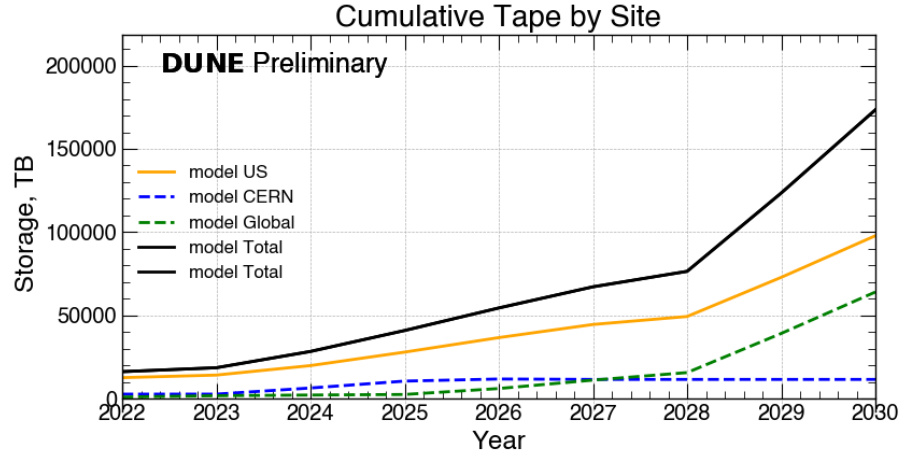
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	5218	5218	11940	17828	20350	20350	20350	59939	102252
TP	0	0	681	2681	6781	12881	18981	24539	29478
Reco-Sim	6928	8265	9703	12600	15797	18994	21009	23399	26039
Reco-Data	3895	3895	4697	6082	7744	8604	8881	8947	9551
Test	138	1149	1291	1700	3750	6300	7200	6646	6129
Total	16180	18528	28313	40891	54422	67129	76421	123472	173451

Table 14: Cumulative Tape by data type.



Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	14083	14825	15021	15021	15021	15021	15021	15021	15021
DP	227	97	97	97	97	97	97	97	97
PDHD	8	144	7656	11939	15489	16939	17114	17114	17114
PDVD	0	5	1264	8883	11739	12871	12973	12973	12973
FDVD	1824	1983	2149	2449	5899	10849	14789	50340	82016
FDHD	36	471	924	1224	4524	9324	13224	23974	40376
ND-SAND	0	0	200	225	350	475	1400	1900	2950
ND-LAr+TMS	0	1000	1000	1050	1300	1550	1800	2050	2900
Total	16180	18528	28313	40891	54422	67129	76421	123472	173451

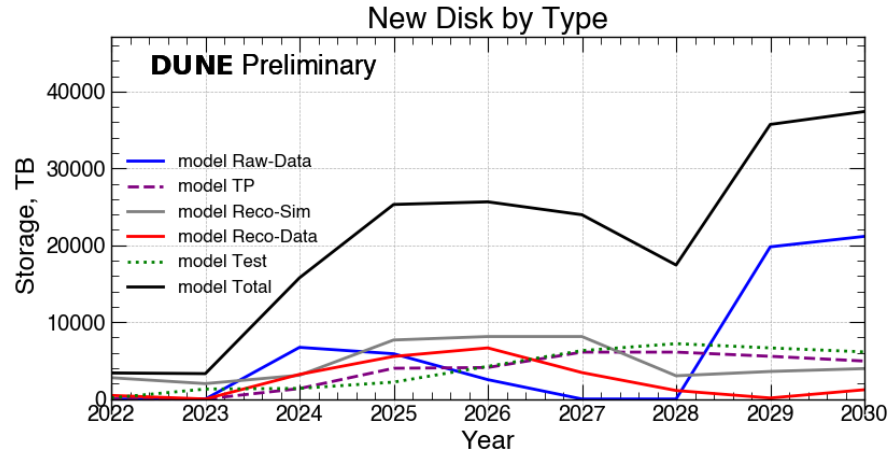
Table 15: Cumulative Tape by detector.



Locations	2022	2023	2024	2025	2026	2027	2028	2029	2030
US	12571	14116	19820	27912	36620	44514	49299	72824	97813
CERN	2678	2683	6356	10504	11765	11515	11515	11515	11515
Global	930	1727	2137	2474	6037	11099	15607	39132	64009
Total	16180	18528	28313	40891	54422	67129	76421	123472	173451
Total	16180	18528	28313	40891	54422	67129	76421	123472	173451

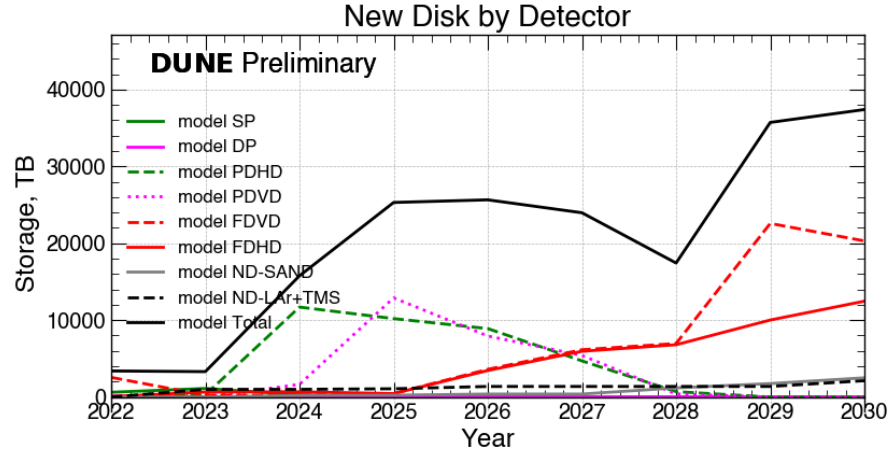
Table 16: Cumulative Tape by site.





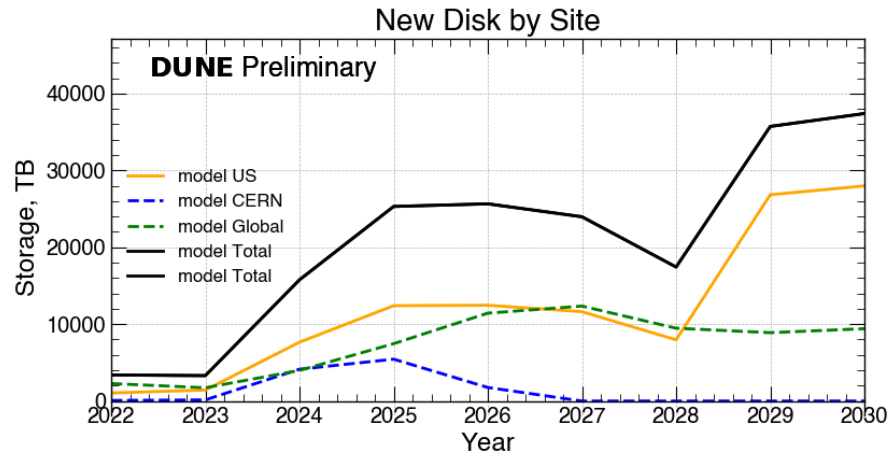
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	0	0	6722	5888	2522	0	0	19794	21156
TP	0	0	1362	4000	4100	6100	6100	5558	4939
Reco-Sim	2773	2004	3091	7678	8128	8128	3022	3585	3960
Reco-Data	469	0	3208	5540	6648	3440	1108	132	1208
Test	147	1298	1383	2200	4250	6300	7200	6646	6129
Total	3390	3303	15766	25306	25648	23968	17430	35717	37393

Table 17: New Disk by data type.



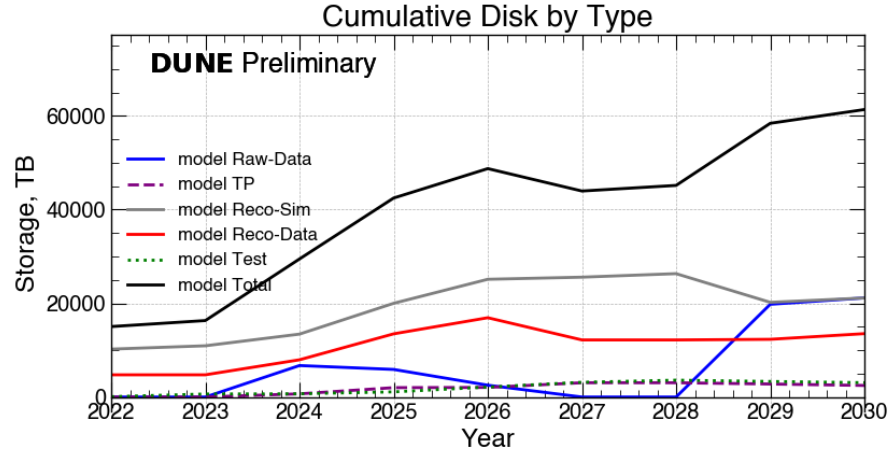
Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	620	1113	293	0	0	0	0	0	0
DP	144	0	0	0	0	0	0	0	0
PDHD	17	288	11695	10200	8900	4700	700	0	0
PDVD	0	11	1649	12894	7936	5406	408	0	0
FDVD	2553	238	249	450	3600	6150	6960	22578	20302
FDHD	54	652	678	450	3450	5950	6800	10013	12465
ND-SAND	0	0	200	237	387	387	1187	1750	2500
ND-LAr+TMS	0	1000	1000	1075	1375	1375	1375	1375	2125
Total	3390	3303	15766	25306	25648	23968	17430	35717	37393

Table 18: New Disk by detector.



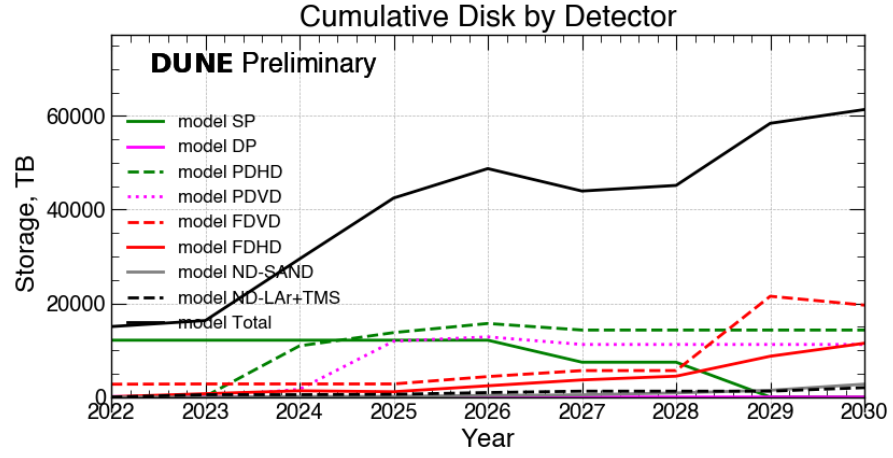
Locations	2022	2023	2024	2025	2026	2027	2028	2029	2030
US	1043	1429	7651	12400	12458	11618	7959	26826	27982
CERN	73	149	4133	5444	1761	0	0	0	0
Global	2273	1725	3982	7462	11428	12349	9470	8890	9410
Total	3390	3303	15766	25306	25648	23968	17430	35717	37393
Total	3390	3303	15766	25306	25648	23968	17430	35717	37393

Table 19: New Disk by site.



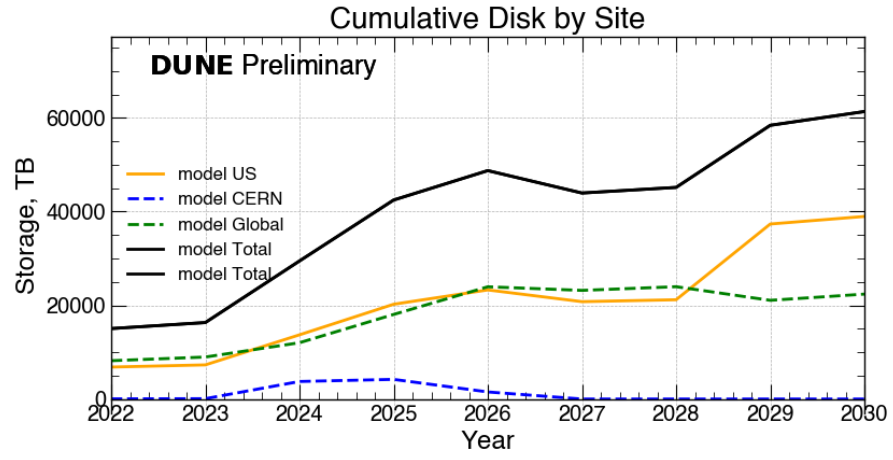
DataTypes	2022	2023	2024	2025	2026	2027	2028	2029	2030
Raw-Data	0	0	6722	5888	2522	0	0	19794	21156
TP	0	0	681	2000	2050	3050	3050	2779	2469
Reco-Sim	10227	10935	13429	20005	25135	25585	26335	20211	21149
Reco-Data	4739	4739	7947	13487	16927	12188	12188	12320	13528
Test	73	649	691	1100	2125	3150	3600	3323	3064
Total	15040	16324	29470	42480	48759	43973	45173	58429	61367

Table 20: Cumulative Disk by data type.



Detectors	2022	2023	2024	2025	2026	2027	2028	2029	2030
SP	12132	12132	12132	12132	12132	7435	7435	0	0
DP	107	42	42	42	42	0	0	0	0
PDHD	8	144	10923	13750	15700	14300	14300	14300	14300
PDVD	0	5	1649	11920	12842	11220	11220	11220	11220
FDVD	2736	2792	2792	2792	4367	5642	5642	21513	19614
FDHD	54	707	1331	1128	2400	3650	4450	8708	11482
ND-SAND	0	0	100	137	325	475	875	1437	2750
ND-LAr+TMS	0	500	500	575	950	1250	1250	1250	2000
Total	15040	16324	29470	42480	48759	43973	45173	58429	61367

Table 21: Cumulative Disk by detector.



Locations	2022	2023	2024	2025	2026	2027	2028	2029	2030
US	6822	7287	13704	20231	23287	20782	21194	37359	38972
CERN	36	74	3747	4194	1511	0	0	0	0
Global	8181	8962	12019	18054	23960	23190	23978	21070	22395
Total	15040	16324	29470	42480	48759	43973	45173	58429	61367
Total	15040	16324	29470	42480	48759	43973	45173	58429	61367

Table 22: Cumulative Disk by site.