



CERN Tier0 / CAF	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	233400	264100	220800	Offered	62000	75000	106100	21000	264100
				Required	62000	75000	106100	21000	264100
				% of Req.	100%	100%	100%	100%	100%
Disk (Tbytes)	14790	74000	22800	Offered	6100	7000	4500	1500	19100
				Required	6100	7000	4500	1500	19100
				% of Req.	100%	100%	100%	100%	100%
Tape (Tbytes)	31600	43100	49700	Offered	6800	12200	21600	2500	43100
				Required	6800	12200	21600	2500	43100
				% of Req.	100%	100%	100%	100%	100%

Canada Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10800	11300	11150	Offered		11300			11300
				% of Total		5%			5%
Disk (Tbytes)	1095	1240	1350	Offered		1240			1240
				% of Total		5%			5%
Tape (Tbytes)	710	1505	1950	Offered		1505			1505
				% of Total		5%			5%

FZK-GridKa	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	58730	83550	90425	Offered	29250	28250	15000	11050	83550
				% of Total	25%	13%	10%	17%	15%
Disk (Tbytes)	6924	7805	9780	Offered	2130	3125	1950	600	7805
				% of Total	27%	13%	10%	17%	14%
Tape (Tbytes)	8932	13290	18485	Offered	3250	3750	5700	590	13290
				% of Total	25%	12%	11%	17%	13%

IN2P3 Lyon	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44186	72331	74361	Offered	8190	33222	11146	19773	72331
				% of Total	7%	15%	7%	30%	13%
Disk (Tbytes)	5109	6761	7761	Offered	708	3646	1342	1065	6761
				% of Total	9%	15%	7%	30%	12%
Tape (Tbytes)	5300	10426	13515	Offered	1069	4425	3876	1056	10426
				% of Total	8%	15%	7%	30%	11%

INFN CNAF	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44000	59500	61000	Offered	18000	18500	15000	8000	59500
				% of Total	15%	8%	10%	12%	11%
Disk (Tbytes)	5300	6250	7700	Offered	1350	2250	2200	450	6250
				% of Total	17%	9%	11%	13%	11%
Tape (Tbytes)	5450	9900	15850	Offered	1900	2400	5200	400	9900
				% of Total	15%	8%	10%	12%	10%

Netherlands LHC/Tier1 (Note 1)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	47296	61296	63296	Offered	6808	39496		14992	61296
				% of Total	6%	17%		23%	15%
Disk (Tbytes)	4186	4736	5286	Offered	478	3451		807	4736
				% of Total	6%	14%		23%	13%
Tape (Tbytes)	3629	5593	7193	Offered	492	4101		1000	5593
				% of Total	4%	14%		29%	12%

NDGF Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	13710	18319	18561	Offered	6883	11436			18319
				% of Total	6%	5%			5%
Disk (Tbytes)	1720	1964	2080	Offered	703	1261			1964
				% of Total	9%	5%			6%
Tape (Tbytes)	1770	2566	2960	Offered	1042	1524			2566
				% of Total	8%	5%			6%

Spain PIC	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	17238	23272	23778	Offered		11774	6971	4527	23272
				% of Total		5%	5%	7%	5%
Disk (Tbytes)	1968	2438	2846	Offered		1292	902	244	2438
				% of Total		5%	5%	7%	5%
Tape (Tbytes)	2136	4234	5233	Offered		1568	2424	242	4234
				% of Total		5%	5%	7%	5%



Taipei ASGC	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	28000	32000	36000	Offered		16000	16000		32000
				% of Total		7%	11%		8%
Disk (Tbytes)	3500	3600	3800	Offered		1800	1800		3600
				% of Total		7%	9%		8%
Tape (Tbytes)	3500	4000	4000	Offered		2000	2000		4000
				% of Total		7%	4%		5%

UK Tier1 (Note 2)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44376	54736	54946	Offered	2340	28250	12056	12090	54736
				% of Total	2%	13%	8%	19%	10%
Disk (Tbytes)	4638	5469	6333	Offered	158	3100	1560	651	5469
				% of Total	2%	13%	8%	19%	10%
Tape (Tbytes)	4877	8860	11345	Offered	260	3763	4192	645	8860
				% of Total	2%	13%	8%	19%	9%

US-ATLAS Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	49680	51980	51290	Offered		51980			51980
				% of Total		23%			23%
Disk (Tbytes)	5037	5704	6210	Offered		5704			5704
				% of Total		23%			23%
Tape (Tbytes)	3266	6923	8970	Offered		6923			6923
				% of Total		23%			23%

US-CMS Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44400	56000	56000	Offered			56000		56000
				% of Total			37%		37%
Disk (Tbytes)	4100	6500	6500	Offered			6500		6500
				% of Total			33%		33%
Tape (Tbytes)	11000	21000	26000	Offered			21000		21000
				% of Total			40%		40%

Summary Ext. Tier1s	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	402416	524284	540807	Offered	71471	250208	132173	70432	524284
				Required	117000	226000	150700	65000	558700
				Balance	-39%	11%	-12%	8%	-6%
Disk (Tbytes)	43577	52467	59646	Offered	5527	26869	16254	3817	52467
				Required	7900	24800	19500	3500	55700
				Balance	-30%	8%	-17%	9%	-6%
Tape (Tbytes)	50570	88297	115501	Offered	8013	31959	44392	3933	88297
				Required	13000	30100	52400	3470	98970
				Balance	-38%	6%	-15%	13%	-11%

Ext. Tier1 Requ. 2011	ALICE	ATLAS	CMS	LHCb	SUM
CPU (HEP-SPEC06)	117000	226000	150700	65000	558700
Disk (Tbytes)	7900	24800	19500	3500	55700
Tape (Tbytes)	13000	30100	52400	3470	98970

TIER 1 Notes

Note 1: Netherlands These pledges are unconfirmed due to incomplete negotiations with the Funding Agency. The current assumption is that they will be accepted before end 2010 enabling procurement to commence however the compute and disk resource deployment will be delayed, available by summer 2011.

Note 2: UK Tape is provisioned on demand. The full pledge will not be deployed until required.

Austria, Austrian Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8850	5057	5057	Offered		1857	3200		5057
				% of Total		1%	1%		1%
Disk (Tbytes)	594	420	420	Offered		120	300		420
				% of Total		0%	2%		1%
Australia, University of Melbourne (Note 1)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2500	4000	6500	Offered		4000			4000
				% of Total		1%			1%
Disk (Tbytes)	250	400	700	Offered		400			400
				% of Total		1%			1%
Belgium, Belgian Tier-2 Fed. FNRS/FWO (Note 1)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9000	9600	9600	Offered			9600		9600
				% of Total			3%		3%
Disk (Tbytes)	670	1190	1370	Offered			1190		1190
				% of Total			6%		6%
Brazil, SPRACE, Sao Paulo	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	2630	4030	Offered			2630		2630
				% of Total			1%		1%
Disk (Tbytes)	120	120	270	Offered			120		120
				% of Total			1%		1%
Canada, Canada-East Federation (Note 3)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5760	6672	7080	Offered		6672			6672
				% of Total		2%			2%
Disk (Tbytes)	595	902	1056	Offered		902			902
				% of Total		2%			2%
Canada, Canada-West Federation (Note 3)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5760	6672	7080	Offered		6672			6672
				% of Total		2%			2%
Disk (Tbytes)	595	902	1056	Offered		902			902
				% of Total		2%			2%
China, IHEP, Beijing	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8000	8000	9600	Offered		4000	4000		8000
				% of Total		1%	1%		1%
Disk (Tbytes)	600	600	640	Offered		300	300		600
				% of Total		1%	2%		1%
Czech Rep., FZU, Prague	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5900	8500	11000	Offered	5000	3500			8500
				% of Total	4%	1%			2%
Disk (Tbytes)	201	525	900	Offered	125	400			525
				% of Total	2%	1%			1%
Estonia, NICPB, Tallinn	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	16000	16000	Offered			16000		16000
				% of Total			5%		5%
Disk (Tbytes)	120	280	280	Offered			280		280
				% of Total			1%		1%
Finland, NDGF/HIP Tier-2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2680	2680	2680	Offered			2680		2680
				% of Total			1%		1%
Disk (Tbytes)	210	346	346	Offered			346		346
				% of Total			2%		2%
France, CC-IN2P3, Lyon	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	15654	26087	27130	Offered	2412	10859	7347	5469	26087
				% of Total	2%	4%	2%	15%	3%
Disk (Tbytes)	1001	2314	2671	Offered	207	1469	558	80	2314
				% of Total	3%	4%	3%	400%	4%
France, GRIF, Paris	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	25808	36856	39064	Offered	5952	10564	9296	11044	36856
				% of Total	5%	4%	3%	31%	5%
Disk (Tbytes)	1570	2338	2833	Offered	324	1429	579	6	2338
				% of Total	5%	4%	3%	30%	4%

France, IPHC, Strasbourg	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8000	9100	9100	Offered	2700		6400		9100
				% of Total	2%		2%		2%
Disk (Tbytes)	420	550	680	Offered	150		400		550
				% of Total	2%		2%		2%

France, LAPP, Annecy	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4400	4720	5200	Offered		3520		1200	4720
				% of Total		1%		3%	2%
Disk (Tbytes)	272	452	602	Offered		450		2	452
				% of Total		1%		10%	1%

France, LPC, Clermont	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7080	6527	7620	Offered	2078	3146		1303	6527
				% of Total	2%	1%		4%	2%
Disk (Tbytes)	610	609	771	Offered	164	443		2	609
				% of Total	2%	1%		10%	1%

France, Subatech, Nantes	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2400	3000	3000	Offered	3000				3000
				% of Total	2%				2%
Disk (Tbytes)	200	270	270	Offered	270				270
				% of Total	4%				4%

France, IN2P3-CPPM	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3350	3350	4500	Offered		1850		1500	3350
				% of Total		1%		4%	1%
Disk (Tbytes)	152	254	404	Offered		250		4	254
				% of Total		1%		20%	1%

Germany, ATLAS Federation, DESY	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4800	6200	6600	Offered		6200			6200
				% of Total		2%			2%
Disk (Tbytes)	740	1050	1350	Offered		1050			1050
				% of Total		3%			3%

Germany, ATLAS Federation, U. Goettingen	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2280	3800	4000	Offered		3800			3800
				% of Total		1%			1%
Disk (Tbytes)	250	400	590	Offered		400			400
				% of Total		1%			1%

Germany, CMS Federation DESY	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8000	11800	12900	Offered			11800		11800
				% of Total			4%		4%
Disk (Tbytes)	400	640	900	Offered			640		640
				% of Total			3%		3%

Germany, CMS Federation RWTH Aachen	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5000	6600	8700	Offered			6600		6600
				% of Total			2%		2%
Disk (Tbytes)	250	330	435	Offered			330		330
				% of Total			2%		2%

Germany, DESY-LHCb	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	3200	3200	Offered				3200	3200
				% of Total				9%	9%
Disk (Tbytes)	2	2	2	Offered				2	2
				% of Total				10%	10%

Germany, GSI, Darmstadt	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4400	5700	7400	Offered	5700				5700
				% of Total	5%				5%
Disk (Tbytes)	340	440	570	Offered	440				440
				% of Total	7%				7%

Germany, ATLAS Federation Munich	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3440	9220	11560	Offered		9220			9220
				% of Total		3%			3%
Disk (Tbytes)	370	1040	1340	Offered		1040			1040
				% of Total		3%			3%

Germany, ATLAS Fed. FR/W Wuppertal	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3436	4633	4917	Offered		4633			4633
				% of Total		2%			2%
Disk (Tbytes)	369	633	733	Offered		633			633
				% of Total		2%			2%

Germany, ATLAS Fed. FR/W Freiburg	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3436	4610	5780	Offered		4610			4610
				% of Total		2%			2%
Disk (Tbytes)	369	518	668	Offered		518			518
				% of Total		1%			1%

Hungary, HGCC Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2500	3340	3340	Offered	840		2500		3340
				% of Total	1%		1%		1%
Disk (Tbytes)	140	146	171	Offered	36		110		146
				% of Total	1%		1%		1%

India, VECC/SINP, Kolkata	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	1800	4700	6000	Offered	4700				4700
				% of Total	4%				4%
Disk (Tbytes)	150	150	240	Offered	150				150
				% of Total	2%				2%

India, TIFR, Mumbai	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	10400	10400	Offered			10400		10400
				% of Total			3%		3%
Disk (Tbytes)	600	750	750	Offered			750		750
				% of Total			4%		4%

Israel, IL-HEP Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	4000	5000	Offered		4000			4000
				% of Total		1%			1%
Disk (Tbytes)	375	560	660	Offered		560			560
				% of Total		1%			1%

Italy, INFN ALICE Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8000	20000	22000	Offered	20000				20000
				% of Total	17%				17%
Disk (Tbytes)	500	1000	1200	Offered	1000				1000
				% of Total	15%				15%

Italy, INFN ATLAS Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	12000	18000	22000	Offered		18000			18000
				% of Total		6%			6%
Disk (Tbytes)	1000	2400	2700	Offered		2400			2400
				% of Total		6%			6%

Italy, INFN CMS Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	24000	40000	40000	Offered			40000		40000
				% of Total			13%		13%
Disk (Tbytes)	1300	2500	2500	Offered			2500		2500
				% of Total			13%		13%

Italy, INFN LHCb Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4750	6000	6000	Offered				6000	6000
				% of Total				17%	17%
Disk (Tbytes)	0	0	0	Offered				0	0
				% of Total				0%	0%

Japan, ICEPP, Tokyo	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	12000	12000	12000	Offered		12000			12000
				% of Total		4%			4%
Disk (Tbytes)	1000	1000	1000	Offered		1000			1000
				% of Total		3%			3%

Republic of Korea, KISTI, Daejeon	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	600	600	600	Offered	600				600
				% of Total	0%				0%
Disk (Tbytes)	50	30	50	Offered	30				30
				% of Total	0%				0%

Republic of Korea, CHEP of KNU, Daegu (note 5)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2840	2840	2840	Offered			2840		2840
				% of Total			1%		1%
Disk (Tbytes)	205	205	205	Offered			205		205
				% of Total			1%		1%

Norway, UNINETT SIGMA Tier2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	1280	2905	3224	Offered		2905			2905
				% of Total		1%			1%
Disk (Tbytes)	90	273	365	Offered		273			273
				% of Total		1%			1%

Pakistan, Pakistan Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3480	4352	5440	Offered			4352		4352
				% of Total			1%		1%
Disk (Tbytes)	200	300	300	Offered			300		300
				% of Total			2%		2%

Poland, Polish Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10540	13050	15800	Offered	3500	4000	3350	2200	13050
				% of Total	3%	1%	1%	6%	2%
Disk (Tbytes)	599	810	1020	Offered	240	385	185	0	810
				% of Total	4%	1%	1%		1%

Portugal, LIP Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	6400	6400	6400	Offered		3200	3200		6400
				% of Total		1%	1%		1%
Disk (Tbytes)	400	420	420	Offered		220	200		420
				% of Total		1%	1%		1%

Romania, Romanian Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	12092	19000	20240	Offered	10600	6800		1600	19000
				% of Total	9%	2%		4%	4%
Disk (Tbytes)	816	1705	1756	Offered	1200	500		5	1705
				% of Total	18%	1%		25%	4%

Russian Federation, RDIG (Note 5)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	30000	30000	30000	Offered	8100	9600	9600	2700	30000
				% of Total	7%	3%	3%	8%	4%
Disk (Tbytes)	2800	2800	5000	Offered	790	930	930	150	2800
				% of Total	12%	2%	5%	750%	4%

Slovenia, SiNET, Jozef Stefan Inst.	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5200	8000	12000	Offered		8000			8000
				% of Total		3%			3%
Disk (Tbytes)	350	600	900	Offered		600			600
				% of Total		2%			2%

Spain, ATLAS Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10308	13900	14750	Offered		13900			13900
				% of Total		5%			5%
Disk (Tbytes)	1107	1880	2200	Offered		1880			1880
				% of Total		5%			5%

Spain, CMS Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9040	16000	16000	Offered			16000		16000
				% of Total			5%		5%
Disk (Tbytes)	670	1000	1200	Offered			1000		1000
				% of Total			5%		5%

Spain, LHCb Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3420	2340	2340	Offered				2340	2340
				% of Total				7%	7%
Disk (Tbytes)	1	1	1	Offered				1	1
				% of Total				7%	7%

Sweden, SNIC Tier2 (note 6)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7870	7870	7870	Offered	2820	5050			7870
				% of Total	2%	2%			2%
Disk (Tbytes)	920	920	920	Offered	400	520			920
				% of Total	6%	1%			2%

Switzerland, CHIPP, Manno	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10560	13550	17400	Offered		5420	5420	2710	13550
				% of Total		2%	2%	8%	2%
Disk (Tbytes)	910	976	1090	Offered		469	469	39	976
				% of Total		1%	2%	195%	2%

Taipei, Taiwan Analysis Facility Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	4480	6080	Offered		2240	2240		4480
				% of Total		1%	1%		1%
Disk (Tbytes)	350	480	600	Offered		240	240		480
				% of Total		1%	1%		1%

Turkey, Turkish Tier-2 Federation	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9800	9800	9800	Offered		5100	4700		9800
				% of Total		2%	1%		2%
Disk (Tbytes)	900	900	900	Offered		550	350		900
				% of Total		1%	2%		2%

UK, London	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10551	28186	28662	Offered		7794	18407	1985	28186
				% of Total		3%	6%	6%	4%
Disk (Tbytes)	781	2440	2839	Offered		1342	1097	1	2440
				% of Total		4%	6%	5%	4%

UK, NorthGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8309	11185	11805	Offered		10135		1050	11185
				% of Total		4%		3%	4%
Disk (Tbytes)	845	1540	1802	Offered		1539		1	1540
				% of Total		4%			4%

UK, ScotGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9025	14630	15409	Offered		12724		1906	14630
				% of Total		5%		5%	5%
Disk (Tbytes)	606	1238	1449	Offered		1237		1	1238
				% of Total		3%		5%	3%

UK, SouthGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9258	15425	16055	Offered	2420	4097	7153	1755	15425
				% of Total	2%	1%	2%	5%	2%
Disk (Tbytes)	669	1210	1482	Offered	132	582	495	1	1210
				% of Total	2%	2%	2%	5%	2%

Ukraine, Ukrainian Tier-2 Federation (Note 7)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	1440	1440	1440	Offered	1152		288		1440
				% of Total	1%		0%		0%
Disk (Tbytes)	108	414	414	Offered	220		194		414
				% of Total	3%		1%		2%

USA, Northeast ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Southwest ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Midwest ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Great Lakes ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, SLAC ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Caltech CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, Florida CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, MIT CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, Nebraska CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, Purdue CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, UC San Diego CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

USA, U. Wisconsin CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	105000	105000	Offered			105000		105000
				% of Total			33%		33%
Disk (Tbytes)	570	6300	7000	Offered			6300		6300
				% of Total			32%		32%

Summary Tier2s with Split in 2011	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	2011
CPU (HEP-SPEC06)	502367	1355767	1405593	Offered	81574	281228	945003	47962	1355767
				Required	121000	278000	319500	36000	754500
				Balance	-33%	1%	196%	33%	80%
Disk (Tbytes)	39255	98543	114267	Offered	5878	34203	58168	295	98543
				Required	6600	37600	19900	20	64120
				Balance	-11%	-9%	192%	1377%	54%

Requirements 2011	ALICE	ATLAS	CMS	LHCb	SUM
CPU (HEP-SPEC06)	121000	278000	319500	36000	754500
Disk (Tbytes)	6600	37600	19900	20	64120
Number of T2s	17	39	33	16	

TIER 2 Notes

Note 1: Australia: numbers are currently constrained by data centre power and cooling limitations. New DC is due for completion early mid-2011. Numbers may be increased.

Note 2: Belgium the FNRS pledges for 2011 are subject to approval of the funding request for 2011 by the FNRS funding agency

Note 3: Canada : These pledges are unconfirmed due to the timing of the Call for Proposals process in Canada. The current assumption is that the proposal will be accepted and all new resources will be available by 1 April 2011.

Note 4: Republic of Korea - no input received.

Note 5: Russia - possibility that resources will increase.

Note 6: The Swedish Research Council will take a decision concerning 2011 Tier2 pledges on 4th November 2010.

Note 7: Ukraine: Awaiting confirmation of CPU in HS06 (core numbers already provided). Figures are given in a reserved manner due to recent budget crisis and as such may be reconsidered.

Colour codes

	Preliminary information delivered, awaiting final confirmation
	Pledge decreased from 2010 pledge
	No response