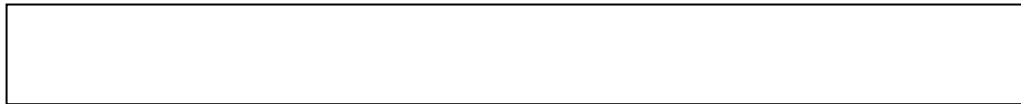
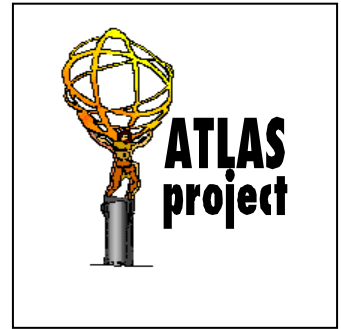


CERN-RRB-2009-023

ATLAS Resources Review Board, April 28, 2009



Closing Report of the ATLAS Baseline and Cost to Completion Budgets



CERN-RRB-2009-023

ATLAS Resources Review Board, April 28, 2009

For RRB approval




Part 1

Closing Report for 2008 ATLAS Baseline and Cost to Completion Budgets

Introduction

The ATLAS management, supported by the ATLAS Executive and Collaboration Boards, kindly invites the RRB to approve the final baseline and cost to completion payments for 2008.

The RRB approved the year 2008 baseline budget for construction activities in October 2007, amounting at that time to 4.8 MCHF in commitments and 3.0 MCHF in payments (CERN-RRB-2007-071). Neither Commissioning and Integration (C&I) nor Construction Completion (CC) payments were planned at that time as these activities were completed in 2007. Updates were provided in April 2008 (CERN-RRB-2008-033) and in October 2008 (CERN-RRB-2008-120).

BASELINE BUDGET
REPORT ELEMENTS
 Activity Description
 Budget Evolution
 Table References

1. Baseline Budget for 2008

The baseline budget estimates for 2008 were updated in April and October 2008, respectively. Final baseline budget figures in 2008 amounted to 3.7 MCHF for commitments and 1.8 MCHF for payments. The decrease in the sub-systems (TDAQ) by 1 MCHF w.r.t original plans reflects the delay in starting the machine in the Autumn of 2008.

Table 1 shows the 2008 ATLAS baseline budget evolution, historically including also CC-A in the Common Projects part.

Table 1. Evolution of the 2008 ATLAS Baseline and CC-A Budget (MCHF)

Budget Evolution	Sub-systems		Common Projects		Total (MCHF)	
	Comm.	Paym.	Comm.	Paym.	Comm.	Paym.
2008 Budget (Oct '07)	4.2	2.4	0.6	0.6	4.8	3.0
2008 Update (April '08)	3.9	4.1	0.3	0.3	4.2	4.4
2008 Update (Nov'08)	2.0	2.1	0.3	0.3	2.2	2.4
2008 Actual	3.7	1.8	-	-	3.7	1.8

Details by system/sub-detector and Funding Agencies are presented in **Tables 2 and 3**. It should be noted that the commitments for TDAQ in Table 2 complete the

commitments as part of the construction MoU for the related Funding Agencies, including the staged or deferral items.

Table 4 shows the income received to the Common Fund (and CC-A) as well as payments made during the year 2008. It is observed that the income amounted to 5.3 MCHF, thus leaving a deficit of 4.8 MCHF in terms of planned contributions (see CERN-RRB-2008-120, Table 2).

Details about the status of contributions made to the Common Projects by Funding Agencies can be found in **Annex 3** (previously reported in document CERN-RRB-2008-080).







C & I BUDGET	
REPORT ELEMENTS	
 Activity Description	2. Commissioning and Integration (C&I) for 2008
 Payment Report	The Commissioning and Integration (C&I) activities ended in 2007. Some open commitments dating back to 2007 or earlier, were all settled in 2008, as reported in November 2008 (CERN-RRB-2008-120, Part 1). All payments are within the endorsed Completion Plan (CERN-RRB-2002-114 rev./Annex).
 Table References	

Table 5 shows the status of received Category-1 contributions from Funding Agencies in 2008. The received contributions amounted to 1.6 MCHF. The payments of past, remaining open commitments were 429 kCHF.

CC BUDGET	
REPORT ELEMENTS	
 Activity Description	3. Construction Completion (CC-B) for 2008
 Payment Report	The Construction Completion Category-B (CC-B) activities ended in 2007. All payments were within the endorsed Completion Plan (CERN-RRB-2002-114 rev./Annex). There were no outstanding commitments from past years.
 Table References	

During the year 2008, a total of 299 kCHF were received from Funding Agencies as Category-1 income. The details are shown in **Table 6**.

CORE and CC-A Contributions to ATLAS Detector Construction
during 2008 by Funding Agency
 (Commitments, in kCHF)

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						0	0
Armenia						0	0
Australia						0	0
Austria						0	0
Azerbaijan						0	0
Belarus						0	0
Brazil						0	0
Canada						0	0
Chile					180	0	180
China NSFC+MSTC						0	0
Colombia						0	0
Czech Republic						0	0
Denmark						0	0
Finland						0	0
France IN2P3						0	0
France CEA						0	0
Georgia						0	0
Germany BMBF						0	0
Germany DESY						0	0
Germany MPI						0	0
Greece						0	0
Israel						0	0
Italy						0	0
Japan						0	0
Morocco						0	0
Netherlands						0	0
Norway						0	0
Poland						0	0
Portugal					150	0	150
Romania						0	0
Russia						0	0
JINR						0	0
Serbia						0	0
Slovak Republic						0	0
Slovenia						0	0
Spain						0	0
Sweden						0	0
Switzerland					930	0	930
Taipei						0	0
Turkey						0	0
United Kingdom						0	0
US DOE+NSF					845	0	845
CERN					1570	0	1570

from past Common Fund contributions

0

total sub-detector

-	-	-	-	3,675	-	3,675
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**CORE and CC-A Contributions to ATLAS Detector Construction during
2008 by Funding Agency
(Payments, in kCHF)**

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						0	0
Armenia						29	29
Australia						0	0
Austria					135	0	135
Azerbaijan						0	0
Belarus						0	0
Brazil						0	0
Canada						0	0
Chile					180	75	255
China NSFC+MSTC						0	0
Colombia						69	69
Czech Republic						0	0
Denmark					350	0	350
Finland						0	0
France IN2P3						0	0
France CEA						0	0
Georgia						0	0
Germany BMBF						0	0
Germany DESY						0	0
Germany MPI						0	0
Greece						0	0
Israel					40	250	290
Italy						2288	2288
Japan						600	600
Morocco						50	50
Netherlands						0	0
Norway						0	0
Poland						0	0
Portugal						0	0
Romania						0	0
Russia						197	197
JINR						260	260
Serbia						0	0
Slovak Republic						0	0
Slovenia						0	0
Spain						0	0
Sweden						0	0
Switzerland					100	0	100
Taipei						0	0
Turkey						0	0
United Kingdom						0	0
US DOE+NSF					845	1447	2292
CERN					195	0	195

from past Common Fund contributions

0

missing contributions to meet planned project payments

-

total sub-detector

-	-	-	-	1,845	5,265	7,110
---	---	---	---	-------	-------	-------

CORE Common Project Contributions
during 2008 by Funding Agency
 (Baseline+CC-A, in kCHF)

Funding Agency	payments				new commitments needed		
	in-kind contrib.	cash contrib.	m.s. contrib.	total contrib.	in-kind contrib.	Common Fund	total contrib.
Argentina	0	0	0	0	0	0	0
Armenia	0	0	29	29	0	0	0
Australia	0	0	0	0	0	0	0
Austria	0	0	0	0	0	0	0
Azerbaijan	0	0	0	0	0	0	0
Belarus	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0
Canada	0	0	0	0	0	0	0
Chile	0	0	75	75	0	0	0
China NSFC+MSTC	0	0	0	0	0	0	0
Colombia	0	0	69	69	0	0	0
Czech Republic	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0
Finland	0	0	0	0	0	0	0
France IN2P3	0	0	0	0	0	0	0
France CEA	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0
Germany BMBF	0	0	0	0	0	0	0
Germany DESY	0	0	0	0	0	0	0
Germany MPI	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0
Israel	0	250	0	250	0	0	0
Italy	0	2288	0	2288	0	0	0
Japan	0	600	0	600	0	0	0
Morocco	0	50	0	50	0	0	0
Netherlands	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0
Romania	0	0	0	0	0	0	0
Russia	0	197	0	197	0	0	0
JINR	0	260	0	260	0	0	0
Serbia	0	0	0	0	0	0	0
Slovak Republic	0	0	0	0	0	0	0
Slovenia	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	0	0
Taipei	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0
US DOE+NSF	0	1447	0	1447	0	0	0
CERN	0	0	0	0	0	0	0
Common Fund	0	0	0	0			
missing contributions to meet planned project payments				-			
total	-	5,092	173	5,265	-	-	-

**C+I Contributions (cash and in-kind)
for ATLAS in 2008 by Funding Agency
(Categories A and B, in kCHF)**

Funding Agency	Cat. A items	Category B item contributions						Total Cat. B	Total A+B
		Pixel	SCT	TRT	IDGen	LAr	TileC		
Argentina								0	0
Armenia								0	0
Australia								0	0
Austria								0	0
Azerbaijan								0	0
Belarus								0	0
Brazil								0	0
Canada								0	0
China NSFC+MSTC								0	0
Czech Republic								0	0
Denmark				50				50	50
France IN2P3								0	0
France CEA	13							0	13
Georgia								0	0
Germany BMBF								0	0
Germany DESY								0	0
Germany MPI								0	0
Greece								0	0
Israel								0	0
Italy								0	0
Japan								0	0
Morocco								0	0
Netherlands								0	0
Norway								0	0
Poland								0	0
Portugal								0	0
Romania								0	0
Russia								0	0
JINR								0	0
Serbia								0	0
Slovak Republic								0	0
Slovenia								0	0
Spain								0	0
Sweden								0	0
Switzerland								0	0
Taipei								0	0
Turkey								0	0
United Kingdom								0	0
US DOE + NSF	1572							0	1572
CERN								0	0
total contributions	1,585	0	0	50	0	0	0	0	1,635
other income*								0	0
total payments				231	4		194	429	429
balance									1,206

Notes:

*Funds available either in baseline or by using deferral funds or contribution advancements

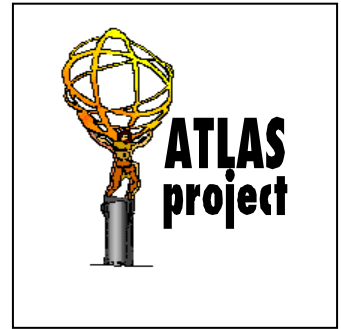
Cost sharing based on CORE contributions

CC-B Contributions (cash and in-kind)
for ATLAS in 2008 by Funding Agency
(in kCHF)

Funding Agency	Category B item contributions							Total Cat. B
	Pixel	SCT	TRT	IDGen	LAr	TileC	Muon	
Argentina								0
Armenia								0
Australia								0
Austria								0
Azerbaijan								0
Belarus								0
Brazil								0
Canada								0
Chile								0
China NSFC+MSTC								0
Colombia								0
Czech Republic								0
Denmark		10						10
France IN2P3								0
France CEA					213		60	273
Georgia								0
Germany BMBF								0
Germany DESY								0
Germany MPI								0
Greece								0
Israel								0
Italy								0
Japan								0
Morocco					3			3
Netherlands								0
Norway								0
Poland								0
Portugal						13		13
Romania								0
Russia								0
JINR								0
Serbia								0
Slovak Republic								0
Slovenia								0
Spain								0
Sweden								0
Switzerland								0
Taipei								0
Turkey								0
United Kingdom								0
US DOE + NSF								0
CERN								0
total contributions	0	0	10	0	216	13	60	299
other income*								0
total payments								0
balance								299

Notes:

*Funds available either in baseline or by using deferral funds or contribution advancements



CERN-RRB-2009-023

ATLAS Resources Review Board, April 28, 2009

For RRB approval

Part 2

Summary of ATLAS Baseline and Cost to Completion Budgets (1995 - 2008)




Introduction

The ATLAS management, supported by the ATLAS Executive and Collaboration Boards, kindly invites the RRB to approve the summary report for the 1998 - 2008 baseline and cost to completion budgets.

The ATLAS Construction MoU (RRB-D 98-44 rev.) was signed in 1998 by Funding Agencies. The approved construction budget at the time was 474.7 MCHF and pledged contributions 472.2 MCHF, respectively, in 1995 prices.

In 2002, the RRB endorsed the financial plan to complete the initial detector (CERN-RRB-2002-114 rev.). The Cost to Completion (CtC) plan included two components, Commissioning and Integration (C&I) and Construction Completion (CC), amounting to 68.2 MCHF in 2002 prices. In 2006, following announced delays, the recognized CtC expenditures were further extended by 4.4 MCHF in 2006 prices (CERN-RRB-2006-069 and CERN-RRB-2006-071).

As reported in the November 2008 RRB (CERN-RRB-2008-120), all initial construction activities were completed by early 2008 w.r.t the CtC plan endorsed by the RRB in 2002, except for the TDAQ. Following the start-up of the LHC machine in September 2008 and in consultation with the CERN management, the initial construction period of ATLAS is declared as completed by December 31, 2008.

<i>B A S E L I N E B U D G E T</i>
<i>R E P O R T E L E M E N T S</i>
 CORE Reporting
 CORE Summary
 Outstanding
Contributions

1. Baseline Budgets (1995 - 2008)

The reporting of the ATLAS project in the RRB started in 1995 (RRB-D 95-1). The expenditure plan was endorsed by the CORE Review in 1995 and the costing was based on material costs, excluding taxes, R&D, prototyping, and institute infrastructure. Exchange rates were fixed (see ATLAS Cost Review Estimate Version 7, dated January 31, 1998). Regular reporting of CORE contributions per Funding Agency started in the RRB in 1998.

Final expenditures for 1997 were approved by the RRB in April 1998 (ATLAS RRB-D 98-49) and this reporting format has been maintained ever since.

Table 7 shows the registered contributions per Funding Agency and sub-system (for a previous update, see Table 5 in CERN-RRB-2008-033). The total received baseline contributions amount to 454.3 MCHF, excluding CtC and deferral contributions (reported in Sections 2 and 3 of this document). The share of sub-system deliverables is 248.5 MCHF and Common Projects contributions (including annual member fees up to 2003) 205.8 MCHF, respectively. For accounting purposes, 454.3 MCHF will be declared as the initial, baseline capital value of ATLAS.




It should be noted that for some Funding Agencies, sub-system deliverables reported differ from the original estimates given in the Construction MoU (RRB-D 98-44 rev., Annex 8.A). There are two reasons for this.

First, during the nearly 15-year construction period there were changes in the scope of chosen technologies and sharing of responsibilities among participating institutes, also including new ones joining ATLAS since 1998. This is particularly visible in the TDAQ where new institutes joined and some original institutes left. Moreover, as part of the CtC plan approved in 2002 by the RRB, some 12 MCHF were intended to be put aside for deferral purposes (see Section 3) thus temporarily reducing the scope of the initial TDAQ system. Some 2.5 MCHF worth of original CORE TDAQ deliverables remain to be installed at ATLAS by the related institutes and supporting Funding Agencies. In addition, some Funding Agencies contributed to the Common Fund beyond their original CORE sharing.

Second, the initial CORE values were in 1995 prices. No indexation was applied in the annual reporting, although the Construction MoU acknowledged its use for monitoring purposes. As a consequence, the book keeping value of deliverables for a given Funding Agency may differ from the original CORE values. Details of such variations can be provided upon request.

It should also be noted that the recognized Common Fund contributions cover the remaining open contractual commitments left from 2007 or earlier. As of January 1, 2009, the remaining open commitments amount to 1.3 MCHF. These result from contracts placed by the Common Fund as part of approved in-kind contributions.

As noted in Part 1 of the present document, the outstanding Common Fund contributions amount to 4.8 MCHF. These include Russia and JINR (2.6 MCHF), Canada (1.5 MCHF; pledged), Australia (0.4 MCHF; pledged) and others (0.3 MCHF). At risk is 2.7 MCHF. More detailed information about due contributions can be found in **Annex 2**.

CTC BUDGET	
REPORT ELEMENTS	
	CtC Description
	CtC Summary
	Outstanding Contributions

2. Cost to Completion (2002 – 2008)

The RRB accepted the additional Cost to Completion (CtC) of 68.2 MCHF in 2002 (CERN-RRB-2002-114 rev.). It consisted of two components; Commissioning and Integration (C&I), budgeted at 20.9 MCHF and Construction Completion (CC) at 47.3 MCHF, respectively.

At the time, Funding Agencies were able to commit 46.5 MCHF as firm pledges (so-called Category-1 funding). As a result, the Full Design Luminosity Detector (FDL), as defined in the Technical Proposal (CERN/LHCC/94-43) and which formed the basis of the ATLAS Construction MoU (RRB D 98-44 rev.), was reduced in scope on a temporary basis until the full amount (68 MCHF) were to be fully covered by financial pledges.




The amount of pledges received from Funding Agencies by the end of 2008 amounted to 62.2 MCHF. The total expenditures were 67.7 MCHF, splitting into 19.7 MCHF for C&I and 48.0 MCHF for CC, respectively. The funding gap was bridged using deferred funds (see Section 3).

In 2006, due to engineering changes in the project, the RRB accepted additional costs up to 4.4 MCHF (CERN-RRB-2006-069, CERN-RRB-2006-071). These costs could be covered within the present planned income plan as CERN had pledged 5.2 MCHF more than its calculated share. The additional 4.4 MCHF was thus fully covered by the contribution from CERN.

The total CtC payments therefore amounted to 72.1 MCHF.

A summary of total received CtC contributions and project payments made is provided in Annex 2.

By the end of 2008, some 0.4 MCHF remained as outstanding pledged Category-1 contributions (notably Russia). More detailed information about due contributions can be found in Annex 1.

DEFERRAL	
FUNDING REPORT	
ELEMENTS	
	CtC Description
	CtC Summary
	Outstanding Contributions

3. Deferral Funding

The RRB endorsed, as part of the additional Cost to Completion (CtC) in 2002 (CERN-RRB-2002-114 rev.), the concept of deferred funding to bridge the gap between total budgeted expenses (68.2 MCHF) and the original, firm pledges available (46.5 MCHF). It required leaving out components included in the original, FDL detector (CERN/LHCC/94-43) until the funding became available.

The RRB agreed that the collected deferral funds will be used like Common Funds and that the Funding Agencies who made the cash contributions are no longer responsible, except for the related manpower effort.

The mechanism for covering the missing pledges was to defer the delivery of selected parts of ATLAS until a later date. Following a detailed (physics) analysis, a list of deferred items was approved by the Collaboration Board in 2002. The total CORE value of the deferred components added up to ca. 30 MCHF, of which up to 14 MCHF was originally expected to be liberated in cash, if needed. In practice, the expected amount would be up to 12 MCHF and the Funding Agencies concerned would negotiate also with the sub-systems how to, over in time, restore the planned deliverables.

As more pledges were made since 2002, by the end of 2008, 9.1 MCHF worth of original CORE value was collected as deferred cash, mostly originating from the TDAQ HLT system (processors). The deferred funds have been used to manage the financing of CtC but also, due to missing contributions, the baseline (notably the Common Fund). At the end of 2008, the collected cash balance amounted to 7.7 MCHF and was used to balance the equivalent amount of due contributions and outstanding contractual commitments. Once the due contributions exceed outstanding commitments, the deferred funds will become available for the Collaboration towards completing the FDL detector.

More details concerning the collected deferral funds and their present use is summarized in **Table 8**. The received deferral funds are in addition to contributions reported in Table 7.

4. Global Summary

The total contributions received from Funding Agencies, as well as the outstanding (pledged) amounts are shown in Annex 2. No indexation has been applied.

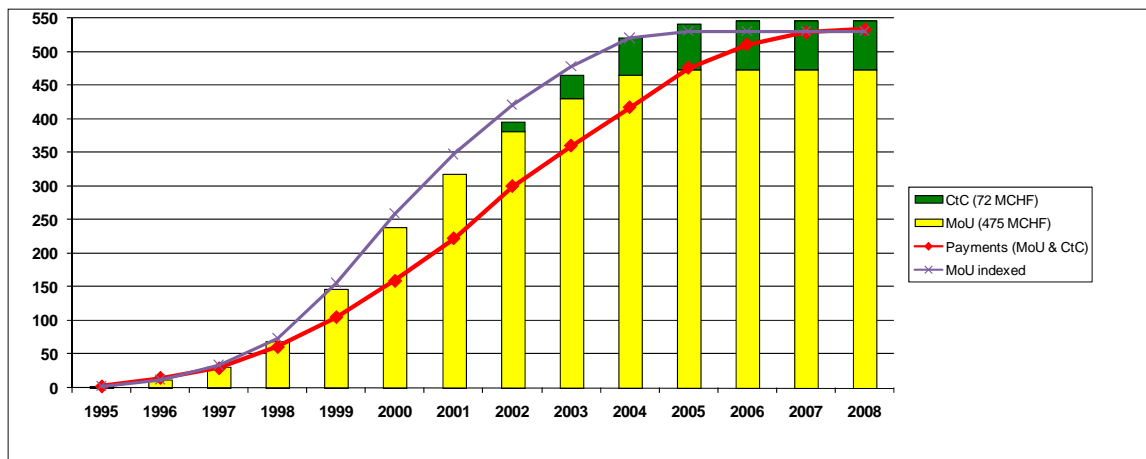
By the end of 2008, total baseline contributions of 457.1 MCHF have been received, including cash deferrals worth 9.1 MCHF. Some 11.3 MCHF remains to be received within the approved CORE Construction MoU framework (RRB D 98-44 rev.). The total project payments amounted to 458.7 MCHF by the end of 2008, given that 5.9 MCHF was used to offset the CtC deficit.

The received Cost to Completion (CtC) contributions amounted to 66.3 MCHF and payments 72.1 MCHF by the end of 2008.

In total, 523.4 MCHF of contributions have been received by the end of 2008 and corresponding total project payments and including outstanding commitments amount to 535.1 MCHF. The deficit is reduced using deferral funds until all due contributions are received. More details are provided in Annex 2.

Figure 1 shows the annual distribution of the total project payments since 1995 until the end of 2008, without applying any indexation (lower curve). It also shows the original, planned CORE MoU payment profile of 475 MCHF (yellow bar) and the same profile in current prices, using the CERN index applied for the LHC machine expenditures at 2% (upper curve).

Figure 1. Annual distribution of total payments (MCHF), 1995 - 2008



**Total received CORE Contributions from Funding Agencies
up to end of 2008 (in kCHF)**

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	muon cham.	trigger /DAQ	total contrib.	Common Projects			total	
							in-kind contrib.	cash contrib.	m.s. contrib.		
Argentina									200	200.0	200
Armenia			95			95			130	129.5	225
Australia	1395					1395	250	300	200	750.0	2145
Austria					150	150	200		100	300.0	450
Azerbaijan									100	100.0	100
Belarus									200	200.4	200
Brazil			85			85			75	75.0	160
Canada	100	8590				8690	3360	1040	700	5100.0	13790
Chile											
China NSFC+MSTC		370		765		1135		340	100	440.0	1575
Colombia											
Czech Republic	470		500		40	1010	315		300	615.0	1625
Denmark	900				500	1400	200	1100	100	1400.0	2800
Finland									100	100.0	100
France IN2P3	1755	18630	2110			22495	10595	5936	600	17131.0	39626
France CEA		5715		2175		7890	4420	1280	100	5800.0	13690
Georgia									100	99.6	100
Germany BMBF	7105	3158		2980	3865	17108	13315	7	900	14222.1	31330
Germany DESY											
Germany MPI	1690	1722		865		4277	2075	1125	100	3300.0	7577
Greece			90	985		1075	260	190	300	750.0	1825
Israel				2565	375	2940	1000	800	300	2100.0	5040
Italy	4610	4245	1375	10885	4250	25365	18600	2288	1200	22088.0	47453
Japan	6845			6805	3775	17425	11800	700	1500	14000.0	31425
Morocco		210				210		50	38	87.5	298
Netherlands	1530			3035	525	5090	6700		200	6900.0	11990
Norway	2325					2325	1150	450	200	1800.0	4125
Poland	405				160	565	140	60	200	400.0	965
Portugal			1005			1005	799	88	100	986.5	1992
Romania			300			300	120	30	100	250.0	550
Russia	2790	3950	811	2715		10266	4385	865	613	5862.6	16129
JINR	1120	1495	1099	1765		5479	1660	360	100	2120.0	7599
Serbia											
Slovak Republic		305	45			350	50	50	100	200.0	550
Slovenia	840					840		600	100	700.0	1540
Spain	1210	2340	1970			5520	4300		300	4600.0	10120
Sweden	3080	1530	895		605	6110	1240	3060	400	4700.1	10810
Switzerland	4955	1055			1170	7180	8400	276	200	8875.5	16056
Taipei	1000	700				1700		1219	100	1319.0	3019
Turkey									200	200.0	200
United Kingdom	13170				4830	18000	2852	10851	1300	15003.0	33003
US DOE+NSF	12040	16860	3560	8770	1985	43215	15100	17079	3301	35479.5	78695
CERN	9010	8610	3000	1500	5675	27795	7860	19438	100	27398.0	55193
total sub-detector	78345	79485	16940	45810	27905	248485	121146	69581	15055	205782	454267

**Status of Deferral Contributions (cash and in-kind)
for ATLAS by Funding Agency (in kCHF)
(December 31, 2008)**

4/2/2009

Funding Agency	Contribution		Deferral contribution allocated to							Total alloc.	
	Pixel	TDAQ	Magnets	LArCC	Infrastr.	ID	LAr	TileC	Muon		TDAQ
Argentina											0
Armenia											0
Australia											0
Austria		150	150								150
Azerbaijan											0
Belarus											0
Brazil											0
Canada											0
China NSFC+MSTC											0
Czech Republic											0
Denmark		500	500								500
France IN2P3	380		380								380
France CEA											0
Georgia											0
Germany BMBF	810	780	915					275	400		1590
Germany DESY											0
Germany MPI											0
Greece											0
Israel											0
Italy	605								605		605
Japan	750		750								750
Morocco											0
Netherlands	325		325								325
Norway											0
Poland											0
Portugal	50		50								50
Romania											0
Russia											0
JINR											0
Serbia											0
Slovak Republic											0
Slovenia											0
Spain											0
Sweden											0
Switzerland	2000		95		80	851	834		140		2000
Taipei											0
Turkey	150		150								150
United Kingdom	1110		1110								1110
US DOE + NSF	100								100		100
CERN	2950		1446		224		767	513			2950
total contributions	1,190	9,470	5,871	0	304	851	1601	513	415	1105	10,660

Notes:

Deferral scheme as part of the Cost to Completion Plan (CERN-RRB-2002-114 rev.)

Deferral funds refer to resources allocated to original CORE obligations now staged

Total of approved deferral funding is 13 MCHF for TDAQ and 2 MCHF for Pixels

Resources directed back to TDAQ reduce the available cash accordingly. Some resources are provided as in-kind

ACTUAL & PLANNED INCOME FOR ATLAS C&I (kCHF)

Annex 1

Funding Agency	C&I (A)										Calc. Total	C&I (B)										Calc. Total	Invoice Total	Calc. G.Total			
	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total		2002	2003	2004	2005	2006	2007	2008	2009	2010	Total						
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Armenia	0	0	0	0	0	0	0	0	0	0	0	5	3	4	0	0	0	0	0	0	0	0	7	13	7	18	
Australia	0	0	0	0	0	56	0	0	0	0	56	56	13	17	0	0	0	29	0	0	0	59	59	115	115		
Austria	0	5	6	4	0	0	0	0	0	0	15	15	0	0	0	0	0	0	0	0	0	0	0	15	15		
Azerbaijan	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Belarus	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
Brazil	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	1	11	1	15		
Canada	0	0	0	336	0	0	0	0	0	0	336	336	0	71	0	155	0	0	0	0	0	226	226	562	562		
Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
China NSFC+MSTC	0	7	8	5	0	0	0	0	0	0	20	20	0	10	9	3	0	0	0	0	0	22	22	42	42		
Colombia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Czech Republic	2	9	20	0	0	0	0	0	0	0	31	31	14	33	22.7	19.3	0	0	0	0	0	89	89	120	120		
Denmark	0	0	0	0	0	0	0	0	0	0	0	71	10	0	0	0	0	50	0	0	0	60	60	60	131		
France IN2P3	0	0	0	11	740	0	0	0	0	0	751	865	54	40	146	238	372	0	0	0	0	850	850	1601	1715		
France CEA	0	0	0	0	245	0	13	0	0	0	258	295	0	0	0	0	265	0	0	0	0	265	265	523	560		
Georgia	0	0	0	0	0	4	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4	
Germany BMBF	252	0	18	454	0	0	0	0	0	0	724	724	253	0	183	16	105	0	0	0	0	557	557	1281	1281		
Germany DESY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Germany MPI	0	44	69	54	0	0	0	0	0	0	167	167	36	34	45	44	1	0	0	0	0	160	165	327	332		
Greece	0	0	0	0	0	36	0	0	0	0	36	36	0	0	0	0	52	0	0	0	0	52	52	88	88		
Israel	0	0	0	0	106	0	0	0	0	0	106	107	14	72	50	0	0	0	0	0	0	136	135	242	242		
Italy	0	350	206	205	205	0	0	0	0	0	966	1007	0	418	93	190	262	0	0	0	0	963	980	1929	1987		
Japan	0	0	247	436	0	0	0	0	0	0	683	683	0	0	290	360	0	0	0	0	0	650	650	1333	1333		
Morocco	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6	0	10		
Netherlands	0	118	141	82	0	0	0	0	0	0	341	341	34	65	83	43	0	0	0	0	0	225	225	566	566		
Norway	0	32	38	22	0	0	0	0	0	0	92	92	23	29	26	20	0	0	0	0	0	98	98	190	190		
Poland	0	0	0	0	20	0	0	0	0	0	20	20	2	0	0	0	2	0	0	0	0	4	22	24	42		
Portugal	0	0	0	38	6	0	0	0	0	0	44	46	3	0	0	60	72	0	0	0	0	135	135	179	181		
Romania	0	0	0	15	0	0	0	0	0	0	15	15	0	0	29	11	0	0	0	0	0	40	40	55	55	All in-kind	
Russia	150	320	220	398	0	0	0	0	0	0	1088	408	28	122	0	65	91	0	0	0	0	306	588	1394	996	All in-kind	
JINR	0	0	0	0	0	0	0	0	0	0	0	117	48	78	144	62	0	0	0	0	0	332	289	332	406		
Serbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Slovak Republic	0	0	0	0	0	0	0	0	0	0	0	11	10	36	0	0	0	0	0	0	0	46	8	46	19		
Slovenia	0	0	0	0	36	0	0	0	0	0	36	36	0	0	0	0	35	0	0	0	0	35	35	71	71		
Spain	0	0	163	53	0	0	0	0	0	0	216	220	22	55	211	83	10	0	0	0	0	381	381	597	601		
Sweden	0	83	99	57	0	0	0	0	0	0	239	239	45	90	0	0	195	0	0	0	0	330	330	569	569		
Switzerland	0	0	0	0	433	0	0	0	0	0	433	433	3	0	0	0	235	0	0	0	0	238	238	671	671		
Taipei	0	22	27	16	0	0	0	0	0	0	65	65	8	26	12	15	0	0	0	0	0	61	61	126	126		
Turkey	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10		
United Kingdom	0	0	250	250	232	32	0	0	0	0	764	764	0	269	174	116	0	0	0	0	0	559	559	1323	1323		
US DOE + NSF	0	0	0	0	0	1500	0	1572	0	0	3072	1807	51	25	0	0	0	0	0	0	0	76	2001	3148	3808		
CERN	111	5485	0	0	0	0	0	0	0	0	5596	1428	199	1081	0	0	80	0	0	0	0	1360	1260	6956	2688		

total	515	6475	1512	2436	2023	1628	13	1572	0	16174	10496	874	2575	1518	1500	1460	346	50	0	0	8323	10410	24497	20906
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calculated total	865	2775	4341	2515	0	0	0	0	0	10496	0	1405	2770	3375	2825	35	0	0	0	0	0	10410
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%	154	80
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Actual payments	332	1425	1474	6696	352	5	0	0	0	10284	376	1710	1978	2366	1972	548	429	0	0	0	0	9379
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Income-actual payments	183	5050	38	-4260	1671	1623	13	0	0	4318	498	865	-460	-866	-512	-202	-379	0	0	0	0	-1056
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balance cumulative

ACTUAL & PLANNED INCOME FOR ATLAS CONSTRUCTION COMPLETION (kCHF)

Annex 1

Funding Agency	CC (A)											Calc. Total	CC (B)											Calc. Total	Invoice Total	Calc. G.Total	
	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total	2002		2003	2004	2005	2006	2007	2008	2009	2010	Total						
Argentina	0	0	0	0	0	75	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
Armenia	0	0	0	0	9	0	29	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	10	38	48
Australia	0	0	0	50	25	115	0	0	0	190	190	10	14	11	0	0	17	0	0	0	0	0	0	52	52	242	242
Austria	0	12	14	13	13	0	0	0	0	52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	52
Azerbaijan	0	0	20	0	0	18	0	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38
Belarus	0	0	0	0	0	75	0	0	0	75	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75
Brazil	0	0	0	0	0	0	0	38	0	38	38	2	0	0	0	0	0	0	0	0	0	0	0	2	9	40	47
Canada	0	0	87.5	212	411	428	0	0	0	1138.5	1139	32	177	0	180	0	0	0	0	0	0	0	0	389	389	1527.5	1528
Chile	0	0	0	0	0	0	0	38	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0
China NSFC+MSTC	0	25	18	13	13	0	0	0	0	69	69	0	9	13	6	2	0	0	0	0	0	0	0	30	30	99	99
Colombia	0	0	0	0	0	0	0	38	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0
Czech Republic	22	98	0	0	0	0	0	0	0	120	113	16	33	26	1	0	0	0	0	0	0	0	0	76	83	196	196
Denmark	0	0	38	0	0	0	0	0	0	38	242	0	0	10	0	0	0	10	0	0	0	0	0	20	49	58	291
France IN2P3	0	730	520	912.5	62.5	710	0	0	0	2935	2935	569	0	116	370	145	155	0	0	0	0	0	0	1355	1241	4290	4176
France CEA	0	300	712	13	13	0	0	0	0	1038	1001	21	30	0	0	0	55	273	0	0	0	0	0	379	379	1417	1380
Georgia	0	0	0	0	25	13	0	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	38
Germany BMBF	1992	0	0	0	458	0	0	2	0	2452	2452	430	368	0	0	0	0	0	0	0	0	0	0	798	798	3250	3250
Germany DESY	0	0	0	0	38	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0
Germany MPI	122	290	0	100	58	0	0	0	0	570	570	61	51	82	2	0	0	0	0	0	0	0	0	196	191	766	761
Greece	0	0	0	0	75	46	0	0	0	121	121	0	0	0	0	0	52	0	0	0	0	0	0	52	52	173	173
Israel	0	0	37	38	288	0	0	0	0	363	363	6	128	0	0	0	0	0	0	0	0	0	0	134	134	497	497
Italy	80	350	80	160	151	0	2288	0	0	3109	3418	14	393	323	267	253	0	0	0	0	0	0	0	1250	1233	4359	4651
Japan	0	0	1438	229	750	0	0	0	0	2417	2417	0	0	212	400	0	0	0	0	0	0	0	0	612	612	3029	3029
Morocco	0	0	12	13	0	0	0	13	0	38	38	0	0	0	1	0	0	3	0	0	0	0	0	4	9	42	47
Netherlands	0	0	25	1107	25	0	0	0	0	1157	1157	22	34	101	41	13	0	0	0	0	0	0	0	211	211	1368	1368
Norway	0	187	18	25	41	40	0	0	0	311	311	22	33	21	4	0	0	0	0	0	0	0	0	80	80	391	391
Poland	0	0	25	25	46	0	0	0	0	96	75	3	0	0	0	0	5	0	0	0	0	0	8	19	104	94	
Portugal	0	0	15	12	21	2	0	0	0	50	155	0	0	0	73	0	24	13	0	0	0	0	110	110	160	265	
Romania	0	15	0	37	0	0	0	0	0	52	52	0	0	17	16	0	0	0	0	0	0	0	33	33	85	85	
Russia	0	0	0	0	0	0	0	263	0	263	1381	36	12	3	0	51	0	0	0	0	0	0	0	102	614	365	1995
JINR	0	0	12	0	0	25	0	0	0	37	397	3	76	58	0	2	0	0	13	0	0	0	152	263	189	660	
Serbia	0	163	0	137	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0
Slovak Republic	0	0	15	15	1	0	0	0	0	31	39	5	0	0	0	0	0	0	0	0	0	0	5	14	36	53	
Slovenia	0	0	12	13	35	61	0	0	0	121	121	0	0	0	0	19	0	12	0	0	0	0	31	31	152	152	
Spain	0	0	446	258	38	0	0	0	0	742	738	58	54	242	13	0	0	0	0	0	0	0	367	367	1109	1105	
Sweden	0	441	213	157	0	0	0	0	0	811	811	45	131	0	0	135	0	0	0	0	0	0	311	311	1122	1122	
Switzerland	0	1213	225	12	13	12	0	0	0	1475	1475	21	61	0	0	144	0	0	0	0	0	0	226	226	1701	1701	
Taipei	0	134	59	18	13	0	0	0	0	224	224	10	42	27	12	4	0	0	0	0	0	0	95	95	319	319	
Turkey	0	0	25	25	25	0	0	0	0	75	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	75
United Kingdom	0	0	613	433	322	1222	0	0	0	2590	2590	137	195	121	21	0	0	0	0	0	0	0	474	474	3064	3064	
US DOE + NSF	0	1830	232	723	883	0	173	0	0	3841	6129	156	914	778	0	435	0	0	0	0	0	0	2283	2308	6124	8437	
CERN	978	4523	0	0	0	0	0	0	0	5501	8927	294	949	0	0	0	0	0	0	0	0	0	1243	1243	6744	10170	

Profile as calculated

As calculated total, 100k/year 2003-2006

Profile (A) changed as in letter RCN 24.9.03

All In-kind

total	3194	10311	4912	4751	3853	2842	2490	392	0	32744	40004	1973	3704	2161	1407	1203	308	311	13	0	11080	11670	43824	51674
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calculated total	9550	11900	9350	4700	100	-4400				40000	4	2510	2945	4035	1645	535						0	11670	0
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% 82 % 95

Actual payments	8415	4490	3690	5940	6962	10503				40000	1126	1007	1044	4207	1941	3026						12351
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Income-actual payments	-5221	5821	1222	-1190	-3110	-7661				-7257	847	2697	1117	-2800	-738	-2718							-1271
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balance cumul.

Status of Contributions to ATLAS from Funding Agencies (December 31, 2008), kCHF

Annex 2

Funding Agency	Construction MoU obligations (kCHF)					CC and C&I accepted (kCHF)			Grand total committed (CORE-CC-C&I)	Part not yet pledged		Additional contributions (CtC-2)	
	total paid	detectors		CF remaining contrib.	total CMoU	total paid	remaining contrib.	total committed		CC	C&I		
		remaining deliverables	remaining deferrals										
Argentina	200				200	75		75	275				
Armenia	195				195	45		45	240	10	11		
Australia	2145			350	2495	357		357	2852				
Austria	550				550	80		80	630				
Azerbaijan	100				100	38		38	138		4		
Belarus	200				200	75		75	275		10		
Brazil	160			25	185	3	38	41	226	7	14		
Canada	13575			1500	15075	2090		2090	17165				
Chile	260			25	285		38	38	323				
China NSFC+MSTC	1575				1575	141		141	1716				
Colombia	69			31	100		38	38	138				
Czech Republic	1610		35		1645	316		316	1961				
Denmark	3300				3300	118		118	3418	183	121		
Finland	100				100				100				
France IN2P3	39080				39080	5891		5891	44971				
France CEA	13679				13679	1940		1940	15619				
Georgia	100				100	38		38	138		4		
Germany BMBF	32568				32568	4531		4531	37099				
Germany DESY	100				100	38		38	138				
Germany MPI	7545				7545	1093		1093	8638				
Greece	1725				1725	261		261	1986				
Israel	5035				5035	739		739	5774				
Italy	43185		1925		45110	6288		6288	51398	292	58		
Japan	32175				32175	4362		4362	36537				
Morocco	243			113	355	29	13	42	397	5	10		
Netherlands	12115				12115	1934		1934	14049				
Norway	4120				4120	581		581	4701				
Poland	965				965	123		123	1088	6	2		
Portugal	1930	150	100		2180	339		339	2519	105	2		
Romania	550				550	140		140	690				
Russia	16117			2138	18255	1496	263	1759	20014	1232			
JINR	7340	100		440	7880	521		521	8401	471	74		
Serbia						300		300	300				
Slovak Republic	550				550	82		82	632				
Slovenia	1540				1540	183		183	1723				
Spain	9775				9775	1706		1706	11481				
Sweden	10800				10800	1691		1691	12491				
Switzerland	17675	830			18505	2372		2372	20877				
Taipei	3000				3000	445		445	3445				
Turkey	350				350	75		75	425		10		
United Kingdom	34100				34100	4387		4387	38487				
US DOE+NSF	78557		1983	195	80735	7700		7700	88435				
CERN	58140	1375			59515	9300		9300	68815			4400	
TOTAL	457098	2455	4043	4817	468412	61923	390	62313	530725	2311	320	4400	
					<i>of which for CtC</i>			5858				0	
Available for payments					Total baseline available	462555		RRB accepted CtC(1)	68170			RRB accepted CtC (2)	4400
Notes										Grand total		535125	

- Column 'Total Paid' in Construction MoU is renormalized, includes also the deferral contributions made so far
- Total CMoU refers to updated CORE construction figures (March 2008)
- TDR detector staged in 2002 for ca 30 MCHF of which < 12 MCHF (cash deferrals) intended to be used for covering cost over-runs
- Sharing between BMBF/MPI and RF/JINR based on CORE MoU
- CEA has contributed 1 MCHF to CF over and above its original MoU share (not shown here)
- Risk of missing contributions in CF is 2.9 MCHF (Russia&JINR 2.8 MCHF, other 0.1 MCHF)
- Remaining US C&I contribution of 2.9 MCHF is agreed on a best effort basis

Status of Contributions to Common Projects and Construction Completion by Funding Agency

Annex 3

Current commitments to CP baseline and CC-A (in kCHF)

Funding Agency	actual situation on 28.02.2009						new in-kind proposals			
	original CP committed	current CC-A committed	in-kind contrib.	cash contrib.	m.s. contrib.	total contrib.	% of CP+CC-A committed	in-kind contrib.	total contrib.	% of CP+CC-A committed
Argentina	200	75	0	0	275	275.0	100%	0	275	100%
Armenia	100	38	0	29	108.8	137.8	100%	0	137.8	100%
Australia	1100	190	250	415	275.0	940.0	73%	0	940.0	73%
Austria	250	52	200	14	150.0	363.5	120%	0	363.5	120%
Azerbaijan	100	38	0	0	137.5	137.5	100%	0	137.5	100%
Belarus	200	75	0	0	275.1	275.1	100%	0	275.1	100%
Brazil	100	38	0	0	75.0	75.0	54%	0	75.0	54%
Canada	6600	1139	3360	1916	962.5	6238.5	81%	0	6238.5	81%
Chile	100	38	0	0	75.0	75.0	54%	0	75.0	54%
China NSFC+MSTC	440	69	0	371	137.5	508.5	100%	0	508.5	100%
Colombia	100	38	0	0	68.8	68.8	50%	0	68.8	50%
Czech Republic	600	120	315	7	412.5	734.5	102%	0	734.5	102%
Denmark	1400	38	200	1100	137.5	1437.5	100%	0	1437.5	100%
Finland	100		0	0	100.0	100.0	100%	0	100.0	100%
France IN2P3	17000	2935	12465	6645	825.0	19935.0	100%	0	19935.0	100%
France CEA*	5800	1038	5420	1280	137.5	6837.5	100%	0	6837.5	100%
Georgia	100	38	0	0	137.5	137.5	100%	0	137.5	100%
Germany BMBF	14200	2452	14115	1321	1237.5	16673.5	100%	0	16673.5	100%
Germany DESY	100	38	0	0	137.5	137.5	100%	0	137.5	100%
Germany MPI	3300	570	2175	1645	137.5	3957.5	102%	0	3957.5	102%
Greece	750	121	260	198	412.5	870.5	100%	0	870.5	100%
Israel	2100	363	1000	1050	412.5	2462.5	100%	0	2462.5	100%
Italy	19800	3109	18810	2449	1650.0	22909.0	100%	0	22909.0	100%
Japan	14000	2417	11800	2555	2062.5	16417.0	100%	0	16417.0	100%
Morocco	150	38	0	50	62.5	112.5	60%	0	112.5	60%
Netherlands	6700	1157	7782	0	275.0	8057.0	103%	0	8057.0	103%
Norway	1800	311	1150	686	275.0	2111.0	100%	0	2111.0	100%
Poland	400	96	161	60	275.0	496.0	100%	0	496.0	100%
Portugal	900	50	811	89	137.5	1037.5	109%	0	1037.5	109%
Romania	250	52	135	30	137.5	302.5	100%	0	302.5	100%
Russia#	8000	263	4385	865	612.5	5862.6	71%	0	5862.6	71%
JINR	2300	38	1660	460	137.5	2257.5	97%	0	2257.5	97%
Serbia	0	300	163	100	37.5	300.5	100%	0	300.5	100%
Slovak Republic	200	31	50	56	125.0	231.0	100%	0	231.0	100%
Slovenia	660	121	0	644	137.5	781.0	100%	0	781.0	100%
Spain	4600	742	4300	629	412.5	5341.6	100%	0	5341.6	100%
Sweden	4700	811	1240	3800	550.0	5590.3	101%	0	5590.3	101%
Switzerland	8500	1475	9600	276	275.0	10150.5	102%	0	10150.5	102%
Taipei	1320	224	0	1406	137.5	1543.0	100%	0	1543.0	100%
Turkey	200	75	0	0	275.0	275.0	100%	0	275.0	100%
United Kingdom	15000	2590	2850	12953	1787.5	17590.5	100%	0	17590.5	100%
US DOE + NSF	35500	3841	15150	19459	4537.5	39146.1	100%	0	39146.1	100%
CERN#	27400	4527	7860	23930	125.0	31914.5	100%	0	31914.5	100%
total	207120	31771	127667	86485	20652.7	234804.8	98%	0	234804.8	98%

Original C.P obligations as defined in RRB-D 98-44 rev

C.C-A = Completion Costs for Common Items. Currently committed at 32 MCHF, over & above original C.P values

Additional CERN contribution of 4.4 MCHF for CtC(2) not shown in the present table (see Annex 1 in Baseline and CtC report)

* Revised CP obligation following CEA withdrawal from TDAQ (Oct 2000 RRB)

Revised CP contributions resulting from the CERN-Russia '5+5' decision in Oct 2000

**In-kind Contributions to ATLAS Common Projects
and Construction Completion (Category A)
by Funding Agency as of December 31, 2008**

	value (kCHF)	date of RRB decision
Australia		
- Cu shielding (inside LAr cryostats)	250	October 1999
Austria		
- superinsulation for end-cap toroids	200	October 1999
Canada		
- signal feedthroughs for LAr end-cap cryostats (including cables)	3360	October 1997
Czech Republic		
- polyethylene moderator for ID	15	April 2001
- shielding components	300	October 2002
Denmark		
- power supply for toroid test station	200	April 1998

*) contribution to Construction Completion

France IN2P3

- design of LAr end-cap cryostats	720	April 1996
- construction of LAr end-cap cryostats	2650	October 1997
- cables for LAr barrel cr. feedthroughs	650	October 1997
- parts of LAr prox. and external cryogenics	5000	October 1999
- LAr Cryoplant integration work	550	October 2002
- additional tooling for LAr Barrel cryostat	120	October 2002
- additional tooling for LAr EC cryostat	125	October 2002
- LAr cryogenics project follow-up work	650	October 2002
- LAr cryo process control system (add. cost)*	730	October 2003
- support structures UX15*	270	October 2003
- additional work on LAr EC cryostats*	100	April 2004
- software for LAr cryo process controls*	600	October 2004
- HM traction system for Big Wheels*	300	October 2004

France CEA

- design of barrel toroid magnet	3500	October 1995
- work on B0 - coil	920	October 1996
- EB welding tool for BT coil casings	800	April 1998
- EB welding tool for BT coil casings reduction in contribution	-800	October 2001
- BT cryoring*	1 000	April 2003

Germany, BMBF

- design of LAr end-cap cryostats	240	April 1996
- short sample superconductor	600	April 1997
- 50% of superconducting cable for toroids	6800	October 1997
- construction of LAr end-cap cryostats	1325	October 1997
- elements of BT coil casings	3350	April 1998
- vacuum pumps for the toroid magnets	1000	October 2000
- elements of the BT coil casings (add. cost)*	800	October 2002

Germany, MPI

- construction of LAr end-cap cryostats	1325	October 1997
- supporting structures for cryolines	750	October 2001
- additional work on LAr EC cryostats*	100	April 2004

*) contribution to Construction Completion

Greece

- Muons B wheels support	260	October 2003
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Israel

- thermal shields for ECTs	1000	April 2000
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Italy, INFN

- work on B0 - coil	2450	October 1996
- 25% of superconducting cable for toroids	3400	October 1997
- winding machine for barrel toroid	3500	October 1997
- winding of BT coils	6500	April 1998
- thermal shields for BT coils	1300	April 1999
- thermal shields for BT coils, add. alloc.	250	April 2000
- engineering work for barrel toroid	800	April 2001
- dump resistors	400	October 2002
- dump resistors (add. cost)*	80	October 2002
- foam system*	130	October 2003

Japan

- design of solenoid	300	April 1996
- construction of solenoid	10600	April 1997
- solenoid power supply circuit	900	April 2004

Netherlands, NIKHEF

- vacuum vessels and part of the cold mass for end-cap toroids	6700	October 1997
- additional work on EC vacuum vessels*	1080	April 2004

Norway

- LAr storage vessels	1150	April 2000
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*) contribution to Construction Completion

Poland

- trucks for Feet & Rails	140	October 2002
- racks cabling and cooling*	21	October 2006

Portugal

- He storage vessels	800	October 1999
- safety system*	11	October 2006

Romania

- Muons B wheels support	120	October 2003
- Muons B wheels support (add. cost)*	15	October 2003

Russia

- current leads for toroid magnets	100	April 1999
- tie rods for BT coils	300	April 1999
- mechanical supports for BT test station	150	April 1999
- tie rods for BT coils, reduction of alloc.	- 100	April 2000
- BT superinsulation	200	April 2000
- ECT cold mass support rods	100	April 2000
- BT warm structure	650	April 2000
- detector support structures (Feet and Rails)	3250	October 2000
- BT warm structure (reduction in contribution)	-400	October 2001
- detector support structures (Feet and Rails) reduction in contribution	-1200	October 2001
- busbars	420	October 2002
- busbars (adjustment)	- 70	April 2003
- BT super insulation assembly	150	October 2002
- Muons B wheels support	825	October 2003
- BT superinsulation (additional material)	135	October 2004
- busbars	50	October 2004
- detector support structures (Feet and Rails)	-330	October 2004
- busbars (adjustment)	300	October 2007
- Muons B wheels support (adjustment)	-145	October 2007

*) contribution to Construction Completion

JINR

- BT warm structure	800	April 2000
- detector support structures (Feet and Rails)	1000	October 2000
- BT warm structure (increase in contribution)	+400	October 2001
- detector support structures (Feet and Rails) adjustment	-400	October 2001
- detector support structures (Feet and Rails)	-140	October 2006

Serbia

- shielding disks and supports*	165	April 2003
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Slovak Republic

- LAr cryogenics filter boxes	50	October 2003
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Spain

- vacuum vessels for the BT coils	5300	October 1998
- steel for vacuum vessels reduction of contribution	- 1000	April 2000

Sweden

- steel for vacuum vessels	1000	April 2000
- surveying support	240	April 1999

Switzerland

- 25% of superconducting cable for toroids	3400	October 1997
- elements of BT coil casings	5000	April 1998
- elements of BT coil casings (add. cost)*	1200	October 2002

United Kingdom

- design of end-cap toroid magnets	1250	October 1995
- proximity cryogenics for barrel toroid test station	1700	October 1998
- proximity cryogenics test station (adjustment)	- 100	April 2003

*) contribution to Construction Completion

US

- design of LAr barrel cryostat	1960	April 1996
- construction of LAr barrel cryostat (re-evaluation of CORE contribution after tendering in autumn 1998)	5000	October 1997
- signal feedthroughs for LAr barrel cr.	3530	October 1997
- high voltage feedthroughs for LAr barrel and end-cap cryostats	660	October 1997
- engineer for central magnet project team	400	October 1999
- parts of LAr prox. and external cryogenics	1500	October 1999
- extension of supply for LAr cryogenics	600	October 2000
- TDAQ processors	1500	April 2004

CERN

- design of infrastructure elements	1900	April 1998
- current leads for toroid magnets	100	April 1999
- tie rods for BT coils	300	April 1999
- mechanical supports for BT test station	150	April 1999
- barrel toroid test station mechanics	860	October 1999
- tie rods for BT coils (increase of allocation)	100	April 2000
- ECT cold mass support rods	100	April 2000
- BT warm structure	750	April 2000
- magnet and safety controls	3500	April 2003
- proximity cryogenics test station (adjustment)	100	April 2003