



ALICE Maintenance & Operations

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Report on 2006 M&O Expenses



M&O cat. A invoices/income 2002 - 2006

unit: CHF

closing date 31.12.06

Year	Country	2002 - 2005				2006			
		Invoiced	Received	In-kind	Due	Invoiced	Received	In-kind	Due
MS	CERN	518,626	518,626			371,700	371,700		
	Czech Republic	73,457	73,457			53,900	53,900		
	Denmark	30,444	30,444			21,500	21,500		
	Finland	37,855	37,855			26,900	26,900		
	France CEA	42,334	42,334			43,100	43,100		
	France IN2P3	335,995	335,995			269,400	269,400		
	Germany BMBF	241,855	241,855			161,600	161,600		
	Germany GSI	167,499	167,499			107,700	107,700		
	Greece	22,495	22,495			16,200	16,200		
	Hungary	22,242	22,242			16,200	16,200		
	Italy	891,928	891,928			635,700	635,700		
	Netherlands	61,487	61,487			43,100	43,100		
	Norway	72,158	72,158			53,900	53,900		
	Poland	132,443	88,295		44,148	102,400	68,267		34,133
	Slovak Republic	95,165	95,165			70,000	70,000		
	Spain/Cuba								
Sweden	39,235	39,235			26,900	26,900			
United Kingdom	48,025	48,025			32,300	32,300			
MS Total		2,833,243	2,789,095		44,148	2,052,500	2,018,367		34,133
NMS	Armenia	21,543	21,543			12,700	12,700		
	China					44,400			44,400
	Croatia	28,163	28,163			19,000	19,000		
	India	221,068	221,068			132,400	132,400		
	Japan								
	JINR	147,374	68,080		79,294	101,600			101,600
	Mexico	53,503	53,503			38,100	17,800		20,300
	Republic of Korea								
	Romania	43,348	43,348			31,700			31,700
	Russia	346,294	212,944		133,350	231,300			231,300
	South Africa	23,970	23,970			19,000	19,000		
	Ukraine	49,492	21,862	28,000	-370	19,000	18,672		328
	USA DOE	11,204	11,204			6,300	6,300		
USA NSF	40,207	40,207			25,300	25,300			
NMS Total		986,166	745,892	28,000	212,274	680,800	251,172		429,628
Grand Total		3,819,409	3,534,987	28,000	256,422	2,733,300	2,269,539		463,761

Percentage collected:

93.3 %

83.0 %



M&O cat. A invoices/income 2002 - 2006

unit: CHF

closing date 24.04.07

Year	Country	2002 - 2005				2006			
		Invoiced	Received	In-kind	Due	Invoiced	Received	In-kind	Due
MS	CERN	518,626	518,626			371,700	371,700		
	Czech Republic	73,457	73,457			53,900	53,900		
	Denmark	30,444	30,444			21,500	21,500		
	Finland	37,855	37,855			26,900	26,900		
	France CEA	42,334	42,334			43,100	43,100		
	France IN2P3	335,995	335,995			269,400	269,400		
	Germany BMBF	241,855	241,855			161,600	161,600		
	Germany GSI	167,499	167,499			107,700	107,700		
	Greece	22,495	22,495			16,200	16,200		
	Hungary	22,242	22,242			16,200	16,200		
	Italy	891,928	891,928			635,700	635,700		
	Netherlands	61,487	61,487			43,100	43,100		
	Norway	72,158	72,158			53,900	53,900		
	Poland	132,443	132,443			102,400	102,400		
	Slovak Republic	95,165	95,165			70,000	70,000		
	Spain/Cuba								
Sweden	39,235	39,235			26,900	26,900			
United Kingdom	48,025	48,025			32,300	32,300			
MS Total		2,833,243	2,833,243			2,052,500	2,052,500		
NMS	Armenia	21,543	21,543			12,700	12,700		
	China					44,400			44,400
	Croatia	28,163	28,163			19,000	19,000		
	India	221,068	221,068			132,400	132,400		
	Japan								
	JINR	147,374	68,080		79,294	101,600			101,600
	Mexico	53,503	53,503			38,100	17,800		20,300
	Republic of Korea					25,400	25,400		
	Romania	43,348	43,348			31,700	31,700		
	Russia	346,294	212,944		133,350	231,300			231,300
	South Africa	23,970	23,970			19,000	19,000		
	Ukraine	49,492	21,862	28,000	-370	19,000	19,000		
	USA DOE	11,204	11,204			6,300	6,300		
	USA NSF	40,207	40,207			25,300	25,300		
NMS Total		986,166	745,892	28,000	212,274	706,200	308,600		397,600
Grand Total		3,819,409	3,579,135	28,000	212,274	2,758,700	2,361,100		397,600

Percentage collected:

94.4 %

85.6 %



2006 M&O cat. A Expenditure

unit: CHF

Closing date: 31.12.06

Breakdown of 2006 expenditure:

Budget			Total	Expenditure			Spent +	
M&O Category	Consumables	Operations	Budget	Spent	Committed	committed	Ratio	
Detector related costs	357.0	464.3	821.3	787.2	23.8	811.0	0.99	
Secretariat	62.0	171.0	233.0	213.6	5.0	218.6	0.94	
Communications	10.0		10.0	4.0		4.0	0.40	
On-line computing	50.0	325.0	375.0	254.1		254.1	0.68	
Off-line computing	75.0	176.0	251.0	200.2	44.4	244.6	0.97	
Test beams & calibration facilities	155.2	40.0	195.2	115.7	2.3	118.0	0.60	
Laboratory operations	100.0	160.0	260.0	197.9	24.2	222.1	0.85	
General services	70.0	377.0	447.0	467.6	18.2	485.8	1.09	
Consultancy		40.0	40.0	29.5		29.5	0.74	
Outreach	40.0		40.0	41.8	3.1	44.9	1.12	
Power	99.4		99.4		99.4	99.4	1.00	
Grand Total	1,018.6	1,753.3	2,771.9	2,311.5	220.4	2,531.9	0.91	

Committed = contract/order signed, not yet paid



M&O A Summary 2002 - 2006

unit: CHF

Closing date: 31.12.06

Contributions	Year					
Budget year	2002	2003	2004	2005	2006	Grand Total
2002	329,908	67,751	4,888	8,704	8,735	419,986
2003	12,460	564,616	72,880	23,860	15,463	689,279
2004			908,400	67,616	112,163	1,088,179
2005			12,660	1,213,160	123,337	1,349,157
2006				63,860	2,205,679	2,269,539
2007					274,300	274,300
Grand Total	342,368	632,367	998,828	1,377,200	2,739,677	6,090,440

Note: Contributions in 2003 - 2005 includes a total of 11,599 CHF interest.

Expenditure	Year					
Budget year	2002	2003	2004	2005	2006	Grand Total
2002	201,897	45,776				247,673
2003		502,184	75,484	20,000		597,668
2004			827,148	240,000		1,067,148
2005				1,134,088	273,692	1,407,780
2006					2,311,507	2,311,507
Grand Total	201,897	547,960	902,632	1,394,088	2,585,200	5,631,775

Balance/year	140,471	84,407	96,196	-16,888	154,477	458,665
End year cash balance	140,471	224,879	321,075	304,187	458,665	

End-2006 cash balance reported in CERN-RRB-2007-007: 459 kCHF



Status of 2007 M&O Budget



Invoices/Contributions 2007

Unit: CHF
Closing date: 24 April 2007

Year	Country	2007 Invoiced	Received	In-kind	Due
MS	CERN	478,300	478,300		
	Czech Republic	76,300	76,300		
	Denmark	41,600	42,000		-400
	Finland	48,500	48,500		
	France CEA	55,500			55,500
	France IN2P3	374,300	374,300		
	Germany BMBF	221,800	221,800		
	Germany GSI	124,800	124,800		
	Greece	41,600			41,600
	Hungary	20,800			20,800
	Italy	811,000			811,000
	Netherlands	76,300	76,300		
	Norway	104,000			104,000
	Poland	110,900			110,900
	Slovak Republic	110,900			110,900
	Spain/Cuba	41,600	41,600		
	Sweden	34,700	34,700		
	United Kingdom	48,500	48,500		
	MS Total		2,821,400	1,567,100	
NMS	Armenia	27,400			27,400
	China	73,100			73,100
	Croatia	18,300			18,300
	India	244,000	244,000		
	Japan	45,200	11,425		
	JINR	45,700			45,700
	Mexico	54,800			54,800
	Republic of Korea	54,800			54,800
	Romania	91,400			91,400
	Russia	427,000			427,000
	South Africa	27,400			27,400
	Ukraine	27,400	500		26,900
	USA DOE	136,100			136,100
USA NSF	27,200			27,200	
NMS Total		1,299,800	255,925		1,010,100
Grand Total		4,121,200	1,823,025		2,264,400

Percentage collected:

44.2 %



Preliminary Estimates for 2008 M&O Budget



M&O Evolution 2007 - 2010

unit: kCHF

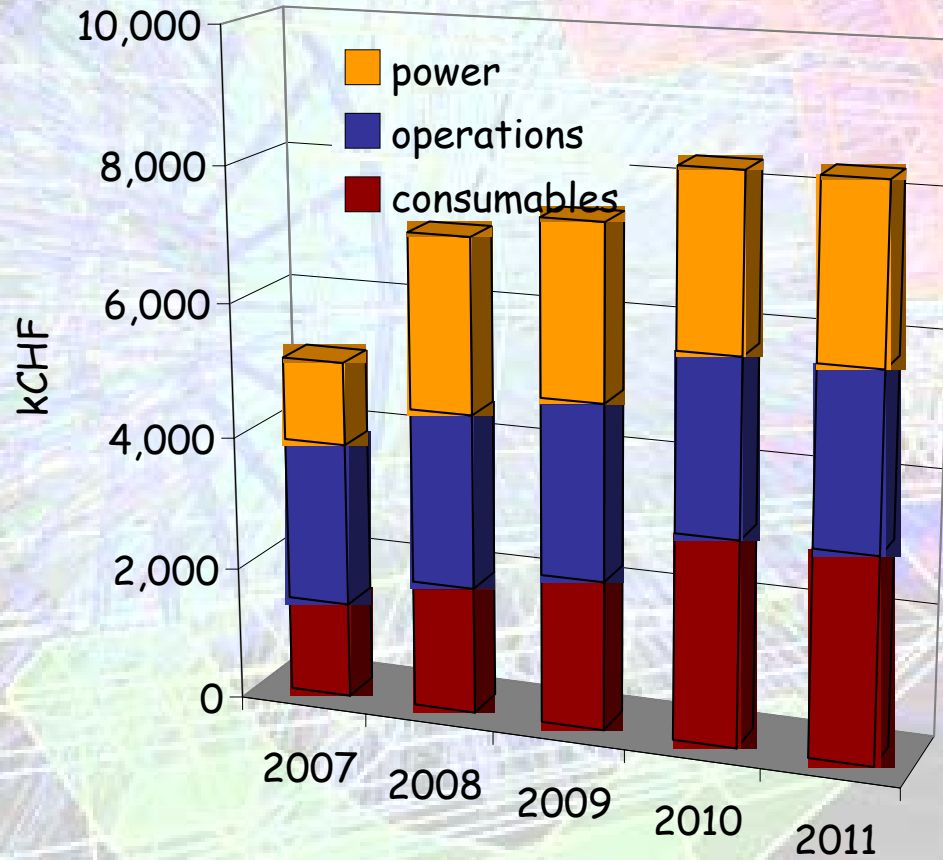
Budget (2007) and present cost estimates (2008 - 2011):

Category	2007	2008	2009	2010	2011
Detector related costs	1,594	1,694	1,701	1,701	1,701
Secretariat	254	269	278	288	288
Communications	10	10	10	10	10
On-line computing	553	1,064	1,405	2,252	2,252
Off-line computing	383	427	427	427	427
Test beams & calibration facilities	195	195	195	195	195
Laboratory operations	260	260	260	260	260
General services	626	596	596	596	596
<i>Total without Power</i>	3,875	4,515	4,872	5,729	5,729
<i>Power</i>	1,233	2,592	2,592	2,592	2,592
<i>Grand Total</i>	5,108	7,106	7,464	8,320	8,320

Category	2007	2008	2009	2010	2011
Operations sub-items	2,442	2,602	2,627	2,636	2,636
Consumables sub-items	1,433	1,912	2,245	3,092	3,092
Power	1,233	2,592	2,592	2,592	2,592
<i>Grand Total</i>	5,108	7,106	7,464	8,320	8,320



M&O Evolution 2007 - 2011





2008 Preliminary Budget by Funding Agency

unit: kCHF

Preliminary estimate for 2008 M&O 'A' based on:

- sharing determined Sept. 2006
- estimates updated in 2006

Both will be updated during 2007

	Scientists	M&O Cat A without energy	Energy	Energy billed to FA	Bill in kCHF
CERN	69	563.2	323.4		563.2
Czech Republic	11	89.8	51.6		89.8
Denmark	6	49.0	28.1		49.0
Finland	7	57.1	32.8		57.1
France CEA	8	65.3	37.5		65.3
France IN2P3	54	440.8	253.1		440.8
Germany BMBF	32	261.2	150.0		261.2
Germany GSI	18	146.9	84.4		146.9
Greece	6	49.0	28.1		49.0
Hungary	3	24.5	14.1		24.5
Italy	117	955.0	548.4		955.0
Netherlands	11	89.8	51.6		89.8
Norway	15	122.4	70.3		122.4
Poland	16	130.6	75.0		130.6
Slovak Republic	16	130.6	75.0		130.6
Spain/Cuba	6	49.0	28.1		49.0
Sweden	5	40.8	23.4		40.8
United Kingdom	7	57.1	32.8		57.1
Armenia	3	24.5	14.1	14.1	38.5
China	8	65.3	37.5	37.5	102.8
Croatia	2	16.3	9.4	9.4	25.7
India	27	220.4	126.6	120.7	341.1
Japan	5	40.8	23.4	22.5	63.3
JINR	5	40.8	23.4	23.4	64.2
Mexico	6	49.0	28.1	28.1	77.1
Republic of Korea	6	49.0	28.1	28.1	77.1
Romania	10	81.6	46.9	46.9	128.5
Russia	50	408.1	234.4	170.8	578.9
South Africa	3	24.5	14.1	14.1	38.5
Ukraine	3	24.5	14.1	14.1	38.5
USA DOE	15	122.4	70.3	68.3	190.7
USA NSF	3	24.5	14.1	13.7	38.1
Total	553	4,514.0	2,592.0	611.5	5,125.5



M&O Category B

Sharing will be:

- agreed within detector collaborations
- discussed with the Funding Agencies concerned

Preliminary M&O B estimates (kCHF):

Detector	Data			
	2008	2009	2010	2011
Pixel	101	77	60	27
Drift	182	182	182	182
Strip	41	41	41	41
ITS	1	1	1	1
TPC	65	65	65	65
TRD	40	40	40	40
TOF	80	80	80	80
HMPID	150	150	150	150
PHOS	50	60	70	70
Forward	140	140	140	154
Trigger	30	30	30	30
Muontrack	105	105	105	105
Muontrig	66	66	66	66
Grand Total	1,051	1,037	1,030	1,011



M&O MoU Signatures

MS Funding Agency	Date	NMS Funding Agency	Date
CERN	04.12.02	Armenia	02.09.02
Czech Republic	20.01.03	China	
Denmark	28.04.05	Croatia	08.10.02
Finland	19.09.02	India	16.09.02
France CEA	04.09.02	JINR	10.10.06
France IN2P3	25.09.02	Mexico	
Germany BMBF	12.09.02	Rep. of Korea	25.10.06
Germany GSI	30.09.02	Romania	21.04.04
Greece		Russia	26.03.06
Hungary	13.09.02	Ukraine	03.09.02
Italy	25.11.02	United States (OSU)	28.08.02
Netherlands	14.11.02		
Norway	04.09.02	Japan	08.01.07
Poland	18.10.04	Korea, Rep. of	25.10.06
Slovak Republic	26.11.02	Spain/Cuba	05.12.06
Sweden	25.11.02		
United Kingdom	24.09.02		