



ALICE Maintenance & Operations

- Report on 2005 M&O Income & Expenses
- Preliminary Estimates for 2007
- MoU Signatures



Report on 2005 M&O Expenses



unit: CHF

closing date 31.12.05

M&O cat. A invoices/income 2002 - 2005

Year	Country	2002 - 2004			2005				2002 - 2005			
		Invoiced	Received	Due	Invoiced	Received	In-kind	Due	Invoiced	Received	In-kind	Due
MS	CERN	299,396	299,396		219,230	219,230			518,626	518,626		
	Czech Republic	41,687	41,687		31,770	31,770			73,457	73,457		
	Denmark	17,734	17,734		12,710	12,660		50	30,444	30,394		50
	Finland	21,965	21,965		15,890	15,890			37,855	37,855		
	France CEA	23,274	23,274		19,060	19,060			42,334	42,334		
	France IN2P3	186,665	186,665		149,330	149,330			335,995	335,995		
	Germany BMBF	143,365	143,365		98,490	98,490			241,855	241,855		
	Germany GSI	103,959	103,959		63,540	63,560		-20	167,499	167,519		-20
	Greece	12,965	4,625	8,340	9,530			9,530	22,495	4,625		17,870
	Hungary	12,712	12,712		9,530	9,530			22,242	22,242		
	Italy	523,378	523,378		368,550	368,550			891,928	891,928		
	Netherlands	36,067	36,067		25,420	25,420			61,487	61,487		
	Norway	40,388	40,388		31,770	31,770			72,158	72,158		
	Poland	72,073		72,073	60,370			60,370	132,443			132,443
	Slovak Republic	57,035	57,035		38,130	38,130			95,165	95,165		
	Sweden	23,345	23,345		15,890	15,890			39,235	39,235		
	United Kingdom	28,965	28,965		19,060			19,060	48,025	28,965		19,060
	<i>MS Total</i>	1,644,973	1,564,560	80,413	1,188,270	1,099,280		88,990	2,833,243	2,663,840		169,403
NMS	Armenia	14,273	6,000	8,273	7,270			7,270	21,543	6,000		15,543
	Croatia	17,263	17,263		10,900			10,900	28,163	17,263		10,900
	India	145,208	145,208		75,860	75,860			221,068	221,068		
	JINR	85,604	68,080	17,524	61,770			61,770	147,374	68,080		79,294
	Mexico	31,703	20,013	11,690	21,800			21,800	53,503	20,013		33,490
	Romania	25,178	25,178		18,170	18,170			43,348	43,348		
	Russia	212,944	161,534	51,410	133,350			133,350	346,294	161,534		184,760
	South Africa	13,070	4,470	8,600	10,900	10,900			23,970	15,370		8,600
	Ukraine	34,962	7,290	27,672	14,530		28,000	-13,470	49,492	7,290	28,000	14,202
	USA Creighton	2,840	2,840		3,620	3,620			6,460	6,460		
	USA ORNL	3,254	3,259	-5					3,254	3,259		-5
	USA OSC	1,490	1,490						1,490	1,490		
	USA OSU	25,727	25,829	-102	14,480	14,480			40,207	40,309		-102
	<i>NMS Total</i>	613,516	488,454	125,062	372,650	123,030		221,620	986,166	611,484		346,682
	<i>Grand Total</i>	2,258,489	2,053,014	205,475	1,560,920	1,222,310	28,000	310,610	3,819,409	3,275,324	28,000	516,085
<i>Percentage collected:</i>		90.9 %			80.1 %				86.5 %			



M&O cat. A invoices/income 2002 - 2005

unit: CHF
closing date 25.04.06

Year	Country	2002 - 2004			2005				2002 - 2005			
		Invoiced	Received	Due	Invoiced	Received	In-kind	Due	Invoiced	Received	In-kind	Due
MS	CERN	299,396	299,396		219,230	219,230			518,626	518,626		
	Czech Republic	41,687	41,687		31,770	31,770			73,457	73,457		
	Denmark	17,734	17,734		12,710	12,660		50	30,444	30,394		50
	Finland	21,965	21,965		15,890	15,890			37,855	37,855		
	France CEA	23,274	23,274		19,060	19,060			42,334	42,334		
	France IN2P3	186,665	186,665		149,330	149,330			335,995	335,995		
	Germany BMBF	143,365	143,365		98,490	98,490			241,855	241,855		
	Germany GSI	103,959	103,959		63,540	63,560		-20	167,499	167,519		-20
	Greece	12,965	4,625	8,340	9,530			9,530	22,495	4,625		17,870
	Hungary	12,712	12,712		9,530	9,530			22,242	22,242		
	Italy	523,378	523,378		368,550	368,550			891,928	891,928		
	Netherlands	36,067	36,067		25,420	25,420			61,487	61,487		
	Norway	40,388	40,388		31,770	31,770			72,158	72,158		
	Poland	72,073		72,073	60,370			60,370	132,443			132,443
	Slovak Republic	57,035	57,035		38,130	38,130			95,165	95,165		
	Sweden	23,345	23,345		15,890	15,890			39,235	39,235		
	United Kingdom	28,965	28,965		19,060			19,060	48,025	28,965		19,060
	MS Total	1,644,973	1,564,560	80,413	1,188,270	1,099,280		88,990	2,833,243	2,663,840		169,403
NMS	Armenia	14,273	14,273		7,270	7,270			21,543	21,543		
	Croatia	17,263	17,263		10,900	10,900			28,163	28,163		
	India	145,208	145,208		75,860	75,860			221,068	221,068		
	JINR	85,604	68,080	17,524	61,770			61,770	147,374	68,080		79,294
	Mexico	31,703	31,703		21,800	21,800			53,503	53,503		
	Romania	25,178	25,178		18,170	18,170			43,348	43,348		
	Russia	212,944	212,944		133,350			133,350	346,294	212,944		133,350
	South Africa	13,070	13,070		10,900	10,900			23,970	23,970		
	Ukraine	34,962	7,290	27,672	14,530	14,530	28,000	-28,000	49,492	21,820	28,000	-328
	USA Creighton	2,840	2,840		3,620	3,620			6,460	6,460		
	USA ORNL	3,254	3,259	-5					3,254	3,259		-5
	USA OSC	1,490	1,490						1,490	1,490		
	USA OSU	25,727	25,829	-102	14,480	14,480			40,207	40,309		-102
	NMS Total	613,516	568,427	45,089	372,650	177,530		167,120	986,166	745,957		212,209
	Grand Total	2,258,489	2,132,987	125,502	1,560,920	1,276,810	28,000	256,110	3,819,409	3,409,797	28,000	381,612
Percentage collected:		94.4 %			83.6 %				90.0 %			



2005 M&O cat. A Expenditure

unit: CHF

Closing date: 31.12.05

Breakdown of 2005 expenditure:

Budget year	Category	Budget	Spent	Comm.	In kind	Total	% spent
2005	Detector Related Costs	378,000	268,792	10,233		279,025	73.8
	Secretariat	199,000	216,813			216,813	109.0
	Communications	10,000					
	On-line Computing	243,000	178,806		28,000	206,806	85.1
	Off-line Computing	40,000	48,000			48,000	120.0
	Test Beam & Calibration Facilities	87,000	95,424	4,200		99,624	114.5
	Laboratory Operations	260,000	240,123	47,733		287,856	110.7
	General Services	262,000	9,028	242,000		251,028	95.8
	Academic subsistence	40,000					
	Outreach	40,000	29,102	1,158		30,260	75.7
	Power	48,000	48,000			48,000	100.0
2005 Total		1,607,000	1,134,088	305,324	28,000	1,467,412	91.3

Committed = contract/order signed, not yet paid



M&O A Summary 2002 - 2005

unit: CHF

Closing date: 31.12.05

Income (CHF)	2002	2003	2004	2005	In-kind	Total	Budget	%
2002 budget	329,908	67,751	4,888	8,704		411,251	429,991	95.6
2003 budget	12,460	561,017	72,880	23,860		670,217	718,970	93.2
2004 budget			903,930	66,686		970,616	1,157,360	83.9
2005 budget			12,660	1,209,630	28,000	1,250,290	1,608,070	77.8
2006 budget				64,790		64,790		
Interest		3,599	4,470	3,530		11,599		
Total	342,368	632,367	998,828	1,377,200	28,000	3,378,763	3,914,391	86.3

Expenditure (CHF)	2002	2003	2004	2005	In-kind	Comm.	Total	Budget	%
2002 budget	201,897	45,776					247,673	429,991	57.6
2003 budget		502,184	75,484	20,000			597,668	718,970	83.1
2004 budget			827,147	240,000			1,067,147	1,157,360	92.2
2005 budget				1,134,088	28,000	305,324	1,467,412	1,608,070	91.3
Total	201,897	547,960	902,631	1,394,088	28,000	305,324	3,379,900	3,914,391	86.3

Balance (CHF)	2002	2003	2004	2005	Total
Income - expenditure	140,471	84,407	96,197	-16,888	-305,324
End-year cash balance	140,471	224,878	321,075	304,188	-1,136

End-2005 cash balance reported in CERN-RRB-2006-022: 304 kCHF



Status of 2006 M&O Budget



	Scientists	Cat A no energy	Energy share	Energy invoiced	Invoice (kCHF)
CERN	69	371.7	66.4		371.7
Czech Republic	10	53.9	9.6		53.9
Denmark	4	21.5	3.8		21.5
Finland	5	26.9	4.8		26.9
France CEA	8	43.1	7.7		43.1
France IN2P3	50	269.4	48.1		269.4
Germany BMBF	30	161.6	28.9		161.6
Germany GSI	20	107.7	19.2		107.7
Greece	3	16.2	2.9		16.2
Hungary	3	16.2	2.9		16.2
Italy	118	635.7	113.5		635.7
Netherlands	8	43.1	7.7		43.1
Norway	10	53.9	9.6		53.9
Poland	19	102.4	18.3		102.4
Slovak Republic	13	70.0	12.5		70.0
Sweden	5	26.9	4.8		26.9
United Kingdom	6	32.3	5.8		32.3
Armenia	2	10.8	1.9	1.9	12.7
China	7	37.7	6.7	6.7	44.4
Croatia	3	16.2	2.9	2.9	19.0
India	21	113.1	20.2	19.3	132.4
JINR	16	86.2	15.4	15.4	101.6
Mexico	6	32.3	5.8	5.8	38.1
Romania	5	26.9	4.8	4.8	31.7
Russia	38	204.7	36.5	26.6	231.3
South Africa	3	16.2	2.9	2.9	19.0
Ukraine	3	16.2	2.9	2.9	19.0
USA (Creighton)	1	5.4	1.0	0.9	6.3
USA (Oak Ridge)	5	26.9	4.8	4.7	31.6
USA (OSC)	1	5.4	1.0	0.9	6.3
USA (OSU)	4	21.5	3.8	3.7	25.3
Total	496	2,672.0	477.0	99.4	2,771.4

Reminder:
2006 M&O
Budget/Sharing
(approved 19.10.05)

Invoices have been sent
earlier this year

unit: kCHF



Contributions 2006

Unit: CHF
Closing date: 25 April 2006

Year	Country	2006 Invoiced	Received	In-kind	Due
MS	CERN	371,700	371,700		
	Czech Republic	53,900			53,900
	Denmark	21,500	21,500		
	Finland	26,900	26,900		
	France CEA	43,100	43,100		
	France IN2P3	269,400			269,400
	Germany BMBF	161,600			161,600
	Germany GSI	107,700	107,700		
	Greece	16,200			16,200
	Hungary	16,200			16,200
	Italy	635,700	20,760		614,940
	Netherlands	43,100			43,100
	Norway	53,900			53,900
	Poland	102,400			102,400
	Slovak Republic	70,000			70,000
	Sweden	26,900	26,900		
	United Kingdom	32,300			32,300
	MS Total	2,052,500	618,560		1,433,940
NMS	Armenia	12,700			12,700
	China	44,400			44,400
	Croatia	19,000			19,000
	India	132,400			132,400
	JINR	101,600			101,600
	Mexico	38,100			38,100
	Romania	31,700			31,700
	Russia	231,300			231,300
	South Africa	19,000	19,000		
	Ukraine	19,000			19,000
	USA Creighton	6,300			6,300
	USA ORNL	31,600			31,600
	USA OSC	6,300			6,300
	USA OSU	25,300			25,300
	NMS Total	718,700	19,000		699,700
	Grand Total	2,771,200	637,560		2,133,640
	Percentage collected:		23.0 %		



Preliminary Estimates for 2007 M&O Budget



M&O Evolution 2006 - 2010

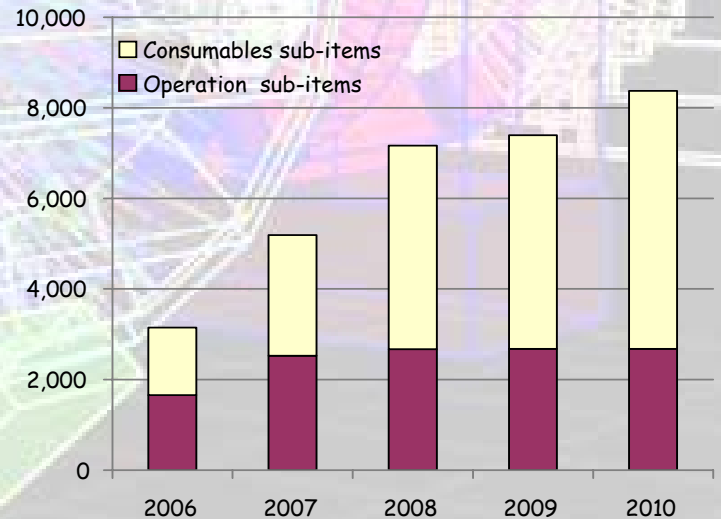
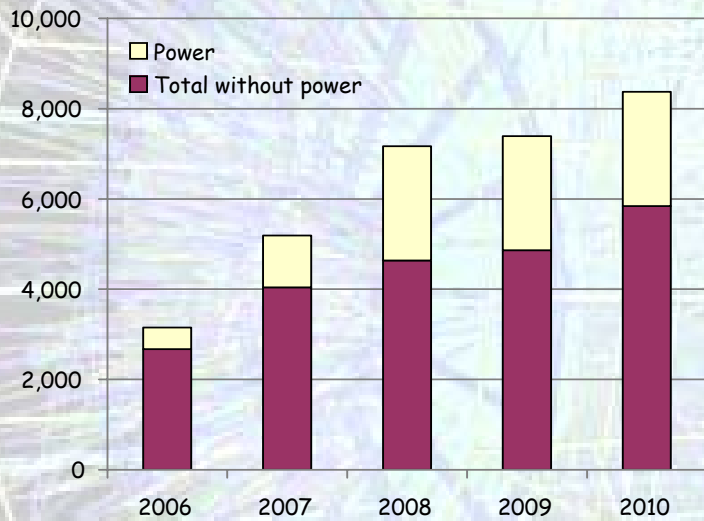
unit: kCHF

Budget (2006) and present cost estimates (2007 - 2010):

	2006	2007	2008	2009	2010
Detector related costs	821	1,768	1,865	1,865	1,865
Secretariat	233	240	243	246	246
Communications	10	10	10	10	10
Off-line computing	251	383	427	427	427
On-line computing (no rec. media)	375	589	1,057	1,275	2,252
Test beams & calibration facilities	195	195	195	195	195
Laboratory operations	260	260	260	260	260
General services	527	597	578	586	586
<i>Total without power</i>	2,672	4,042	4,636	4,864	5,841
<i>Power</i>	477	1,150	2,531	2,531	2,531
<i>GRAND TOTAL</i>	3,149	5,191	7,166	7,394	8,372
Operation sub-items	1,656	2,527	2,674	2,677	2,677
Consumables sub-items	1,493	2,664	4,492	4,717	5,694



M&O Evolution 2006 - 2010





2007 Preliminary Budget by Funding Agency

unit: kCHF

Preliminary estimate for 2007 M&O 'A' based on:

- sharing determined Sept. 2005
- estimates updated in 2005

Both will be updated during 2006

	Scientists	M&O Cat A no energy	Energy	Energy billed to FA	Bill in kCHF
CERN	69	568.0	161.6		568.0
Czech Republic	10	82.3	23.4		82.3
Denmark	4	32.9	9.4		32.9
Finland	5	41.2	11.7		41.2
France CEA	8	65.9	18.7		65.9
France IN2P3	50	411.6	117.1		411.6
Germany BMBF	30	247.0	70.3		247.0
Germany GSI	20	164.6	46.8		164.6
Greece	3	24.7	7.0		24.7
Hungary	3	24.7	7.0		24.7
Italy	118	971.4	276.4		971.4
Netherlands	8	65.9	18.7		65.9
Norway	10	82.3	23.4		82.3
Poland	19	156.4	44.5		156.4
Slovak Republic	13	107.0	30.4		107.0
Sweden	5	41.2	11.7		41.2
United Kingdom	6	49.4	14.1		49.4
Armenia	2	16.5	4.7	4.7	21.1
China	7	57.6	16.4	16.4	74.0
Croatia	3	24.7	7.0	7.0	31.7
India	21	172.9	49.2	46.9	219.8
JINR	16	131.7	37.5	37.5	169.2
Mexico	6	49.4	14.1	14.1	63.4
Romania	5	41.2	11.7	11.7	52.9
Russia	38	312.8	89.0	64.8	377.6
South Africa	3	24.7	7.0	7.0	31.7
Ukraine	3	24.7	7.0	7.0	31.7
USA (Creighton)	1	8.2	2.3	2.3	10.5
USA (Oak Ridge)	5	41.2	11.7	11.4	52.5
USA (OSC)	1	8.2	2.3	2.3	10.5
USA (OSU)	4	32.9	9.4	9.1	42.0
Total	496	4,083.2	1,161.7	242.1	4,325.3



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			
	2007	2008	2009	2010
Pixel	141	121	55	55
Drift	182	182	182	182
Strip	41	41	41	41
ITS	1	1	1	1
TPC	50	50	50	50
TRD	10	62	93	109
TOF	80	80	80	80
HMPID	150	150	150	150
PHOS	25	35	35	35
Forward	71	82	132	132
Muontrack	53	53	53	53
Muontrig	60	60	60	60
Trigger	40	40	40	40
Grand Total	904	957	972	988



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	nn.04.05	Croatia	08.10.02
Finland	19.09.02	India	16.09.02
France CEA	04.09.02	JINR	
France IN2P3	25.09.02	Mexico	
Germany BMBF	12.09.02	Romania	21.04.04
Germany GSI	30.09.02	Russia	26.03.06
Greece		Ukraine	03.09.02
Hungary	13.09.02	United States (OSU)	28.08.02
Italy	25.11.02		
Netherlands	14.11.02		
Norway	04.09.02		
Poland	18.10.04		
Slovak Republic	26.11.02		
Sweden	25.11.02		
United Kingdom	24.09.02		