

TOTEM FINANCIAL STATUS

- 1. CONSTRUCTION MoU**
- 2. INSTITUTES PARTICIPATION**
- 3. FINANCIAL MATRIX**
- 4. COMMON FUND**

1. Construction MoU

			CERN	INFN	Finland	Brunel	Estonia	Prague	Warsaw	NSF	C. Projects
1	ROMAN POTS	2476									
1.	Roman Pot mechanics	651		456				195			
2.	Movement	204		204							
3.	Beam position monitor	171		169				2			
4.	Detector mechanics	133		133							
5.	Silicon sensors	228		110		55			63		
6.	Cooling	209		209							
7.	Electronics	554		175			40		324	15	
8.	Power supplies and cables	287		160				127			
9.	Miscellaneous	40		40							
2	T1-CSC	1820									
1.	70 CSC Detectors	627			627						
2.	Electronics	666		73	509				70	15	
3.	Power supplies and cables	159		119	40					0	
4.	Supports and services	369		249	50					70	
3	T2-GEM	1303									
1.	50 GEM Detectors	434			434						
2.	Electronics	533			518				0	15	
3.	Power supplies and cables	138			138						
4.	Supports and services	199				90				109	
4	TEST SETUP	150									
1.	Cables, power supplies and infrastructure	40								40	
2.	Electronics DAQ and computing	70								70	
3.	Pool rental & Consumables	40								40	
5	DAQ EVENT BUILDER	720									
1.	Readout column	170		0	170		0		0		
2.	Link into CMS DAQ*	500		500	0				0		
3.	Online PC & storage	50			33				0	17	
	TOTAL TOTEM	6470	2095	2085	524	55	40	197	127	457	390
*			500*								

Tab.1 Contributions in kCHF by funding agencies and sub-detector, including common projects, according to the TOTEM MoU.

2. Institutes Participation

* No longer in the collaboration

Sub-DETECTO R	respo nsibilities										
	Brun el (*)	CERN	Helsinki	INFN (Bari)	INFN (Genoa)	INFN (Pisa)	Warsa w (*)	EAS (Tall inn)	Prague	USA (Penn St.)	USA (CWRU)
Roman Pots											
Mechanics		x							x		
Si-Detecto rs		x									
FE elect ro nics for Si-Det.		x			x		x	x		x	
Support and installat ion		x							x		
Proto n Trigger		x		x		x		x		x	x
T1 Detector											
CSC Detecto rs					x						
CSC FE electr onics		x			x						
Support and installat ion		x			x						
Inel astic Trigger				x	x	x					
T2 Detector											
GEM Detecto rs		x	x								
GEM FE electr onics		x	x	x		x				x	x
Support and installat ion		x	x								
Inel astic Trigger		x		x		x					
DA Q electronics		x		x							
Test Setup	x	x	x	x	x	x	x	x	x	x	
Large Size GEM Prototypes		x		x	x	x			x	x	

Tab.2 Overview of the technical participation of the institutes in the detector construction, operation and maintenance.

As proposed by the TOTEM Collaboration Board, the missing contribution from Warsaw, which is no longer a member of the collaboration, should be compensated proportional to the institute investments in the construction.

Compensation for missing Warsaw contribution (kCHF)

CERN:	59
INFN:	48 (agreed and allocated)
Finland:	13 (agreed)
Estonia:	2 (agreed and paid)
Prague:	5 (agreed and allocated)
NSF:	13 (agreed)

3. Financial Matrix

Tab.3 TOTEM financial matrix, containing the breakdown of the expenditures by funding agency and by project with respect to the MoU forecast. Item 1.8 includes the redistributed Polish funds.

TOTEM -18/10/2007 - Financial Matrix

TOTEM	TOTAL			CERN			INFN			Finland			Brunel			Estonia			Prague			NSF			C.Projects			
	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	Proj	Paid	MoU	In	Out	
1. ROMAN POTS	2476	3003		1702	2297	1889													195	247								
1.1 Roman Pot mechanics	651	840		456	593	557													2	2								
1.2 Movement	204	216		204	216	216													55									
1.3 Beam position monitor	171	122		169	120	88													40	44	5	324	114	15		-2		
1.4 Detector mechanics	133	160		133	160	101													21	13								
1.5 Silicon sensors	228	333		110	278	198													50									
1.6 Cooling	209	306		209	306	141													70	70	15						21	
1.7 Electronics	554	588		175	186	160													40	44	5	324	114	15				
1.8 Power supplies and cables*	287	345		206	345	345		48											2	4	5	13						
1.9 Miscellaneous	40	93		40	93	83																						
2. T1-CSC	1820	1728		441	341	207				627	626																	
2.1 70 CSC Detectors	627	627		73	66	55				509	439	171																
2.2 Electronics	666	596																										
2.3 Power supplies and cables	159	191		119	81	11				40	110	40																26
2.4 Supports and services	369	314		249	194	141				50	50																	
3. T2-GEM	1303	1317																	434	326								
3.1 50 GEM Detectors	434	326																										
3.2 Electronics	533	533								51	518								77									
3.3 Power supplies and cables	138	158								20	138								90	156								
3.4 Supports and services	199	300								35																	48	
4. TEST SETUP	150	150																										
4.1 Cables, power supplies & infrastr.	40	40																										
4.2 Electronics DAQ and computing	70	50																	20									7
4.3 Pool rental & Consumables	40	60								8									8									53
5. DAQ EVENT BUILDER	720	722																	7									0
5.1 Readout column	170	170			(500)																							
5.2 Link into CMS DAQ	500	500																	33	35								
5.3 Online PC & storage	50	52																										17
TOTAL TOTEM	6470	6920		2154	2638	2222	2133		1332	537		482	55		42		44	202		249	470		184	390	292	181		
6. POST-MOU ITEMS	0								12																			
6.1 Slow Controls	0								12																			

	MOU	New projection	MOU – Proj.	Additional contributions				Balance
				CERN	Prague	Estonia	CF	
1. Roman pots	2476	3003	- 527	438	52	4	12	- 21
2. T1	1820	1728	92					92
3. T2	1303	1317	- 14					-14
4. Test set-up	150	150	0					0
5. DAQ	720	722	- 2					- 2
TOTAL	6470	6920	- 450					56

Tab.4 Financial status of the TOTEM experiment (Oct. 2007)

4. Common Fund

TOTEM - 02/10/2007 - Common Projects - T299551							
CF	2006 MoU	2006 Paid	2007 MoU	2007 Paid	Total MoU	Total Paid	Balance
CERN	25.5	26.0	25.5	26.0	51.0	52.0	1.0
INFN	28.0	28.0	28.0	28.0	56.0	56.0	0.0
Finland	40.5	40.5	40.5	40.5	81.0	81.0	0.0
Brunel	6.0	10.0	6.0	0.0	12.0	10.0	-2.0
Estonia	23.0	23.0	23.0	25.0	46.0	48.0	2.0
Prague	6.0	12.0	6.0	12.0	12.0	24.0	12.0
NSF	60.0	0.0	60.0	21.0+59.0	120.0	21.0+59.0	-99.+59.
Warsaw	6.0	0.0	6.0	0.0	12.0	0.0	-12.0

Tab.5 Common Fund contributions for 2006 and 2007 (summing up to 292 kCHF on 1st October 2007, and to 354 kCHF to date, of the total 390 kCHF).

The CF was positive at **131 kCHF** on 1st October 2007 corresponding to the book-closing made in sync with FI division.

After this date US institutes have paid 50k\$ = 59kCHF, representing the most of their remaining CF contribution for 2006 and 2007 (as shown in Tab.5).

Therefore the actual status of the CF account sums up to about: **190 kCHF**.