



SystemsX.ch

The Swiss Initiative in Systems Biology

Consolidated and Commented

SystemsX.ch Financial Report 2016

Submitted according to
the administration contract of December 16, 2013 between

SystemsX.ch

and

the Swiss National Science Foundation (SNSF)

Prof. Dr. Detlef Günther
Chair of the Board of Directors

Dr. Daniel Vonder Mühl
Managing Director SystemsX.ch

Zurich, June 09, 2017

Content

Executive Summary	3
1. Introduction	8
1.1 Overall Financing of SystemsX.ch	10
1.2 Federal Funds (Cash-flow)	11
1.3 Committed Funds and Available Funds	11
1.4 Allocation of SystemsX.ch Funds	12
2. Financial Overview of SystemsX.ch 2016	13
2.1 Annual Membership Fees	13
2.2 General Remarks on the Financial Report 2016	14
2.3 Overview of the Management Office, Events and the SNSF	14
2.4 Overview of Total Resources	16
2.5 3rd Party Funds	18
2.6 2nd Party Funds	18
3. Overview of SystemsX.ch Fund “Clusters”	20
3.1 SystemsX.ch Management Office	22
3.2 Events (EV/ES)	22
3.3 SNSF-Review Panel (Service SNSF)	23
3.4 SystemsX.ch Partner Institutions	23
3.5 Research, Technology and Development Projects (RTD)	24
3.6 High-Tech Funds (RTD-HT)	27
3.7 Systems Biology IT (SIP)	28
3.8 Interdisciplinary PhD Projects (IPhD)	30
3.9 Interdisciplinary Pilot Projects (IPP)	34
3.10 Bridge 2 Industry Projects (BIP)	36
3.11 Transition Postdoc Fellowships (TPdF)	37
3.12 Special Opportunity Projects (SpecOpp)	40
3.13 Transfer Projects (TF)	41
3.14 International Activities (IntAct)	43
3.15 Medical Research and Development Projects (MRD)	45

Executive Summary

The present report is the ninth to be submitted, and gives a detailed insight into the financial aspects of the Swiss Initiative in Systems Biology.

Based on the federal schedule for investments in Education, Research and Innovation by the State Secretariat for Education, Research and Innovation, SystemsX.ch was supported with a total of CHF 98.8 million over the period 2013–2016 via the financial channels of the ETH-Board and the Swiss University Conference (SUC). The final installment was transferred in 2016.

In 2016 there was no opportunity for scientists to submit project proposals or to receive additional funding. By the end of 2015, all SystemsX.ch Funds had been allocated to either projects or administration. Hence, from 2016 to 2018, the main financial duties include releasing funds for approved projects and scrutinizing completed projects.

According to SystemsX.ch regulations, approved but unreported funds have to be returned to SystemsX.ch after project termination. In 2016, a total of CHF 0.5 million, < 0.2% of the total amount of released funds 2008–2016 for scientific projects was returned. This amount will not be available for SystemsX.ch projects but for event support and the SystemsX.ch Management Office.

In 2016, SystemsX.ch released a total of CHF 26.4 million for the RTD, SIP, IPhD, TPdF, SpecOpp, TF, IntAct and MRD Projects, and CHF 1.0 million for the Management Office (MO), the Swiss National Science Foundation and Events. The total released amount was CHF 27.4 million, which is CHF 1.8 million less than last reporting year. On the other hand, the overall amount of used and reported SystemsX.ch Funds was CHF 27.6 million and the reported amount of Own Contributions was CHF 30.4 million in 2016. At the end of 2016 there was an overall balance of CHF 21.8 million on the two open accounts.

Comparing the cash flow (annual balance) of the Federal Funds to the reported use of funds from projects (all expenditure), one notices that as of yet, aside from the “leap year” in 2012, 2016 is the only other year in which more spending was reported than SystemsX.ch received from the SNSF. The reported SystemsX.ch Funds amounted to CHF 27.6 million, whereas the received Federal Funds were CHF 24.5 million in 2016 (see *Figure 1*). This result may be attributed to the full research phase of the MRD projects, but also to other project types such as RTDs, IPhDs, TPdFs and IntActs having increased their use of funds slightly. As predicted in the last report, there was a slight increase in reported SystemsX.ch Funds, which will be followed by a steady decrease.

In 2016 the difference between received and reported funds (see *Figure 1*) was even higher than in 2012. From 2008–2016, SystemsX.ch received a total of CHF 218.5 million in Federal Funds, whereas within the same time frame, a total of CHF 183.3 million SystemsX.ch Funds were used and reported.

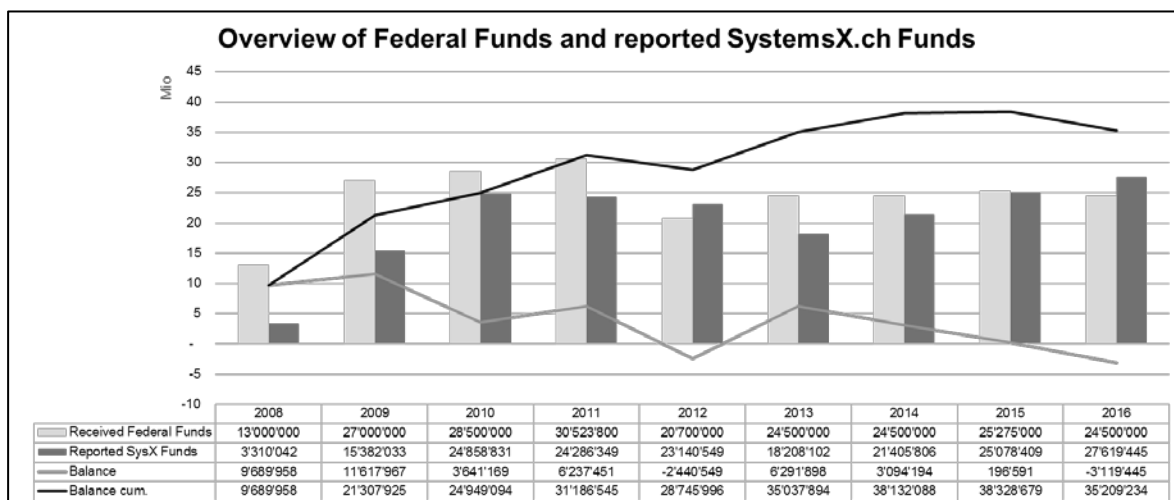


Figure 1: Overview of Federal Funds and reported SystemsX.ch Funds in CHF

Over the nine years from 2008–2016, about CHF 123.5 million in SystemsX.ch Funds was paid out to the 34 RTD Projects, CHF 16.1 million to the two SIPs, CHF 15.7 million to 87 IPhD Projects and CHF 13.3 million to 9 MRD Projects. The Management Office, including Events, received CHF 5.6 million and all other project types (including SNSF) CHF 23.0 million.

As in previous years, the 34 RTD Projects have received and reported the highest amount of SystemsX.ch Funds and Own Contributions due to the RTD funding criteria and the number of projects and scientists involved (see *Figure 2a*, *Figure 2b* and *Table 1*). In addition, this type of project has existed since the beginning of SystemsX.ch, whereas the MRD type was only introduced in 2014 with nine projects starting in 2015.

As can be seen in *Table 1* and *Table 2*, the overall amount of matched Own Contributions is in excess of the SystemsX.ch requirements. Whereas CHF 183.3 million was reported in SystemsX.ch Funds in the period 2008–2016, CHF 221.2 million was reported in Own Contributions. With this, the legally required amount of OC was reached in 2016.

Please note that for the SNSF review and admin costs, Own Contributions are not required (see *Figure 2b* and *Table 1*, *Figure 3b* and *Table 2*).

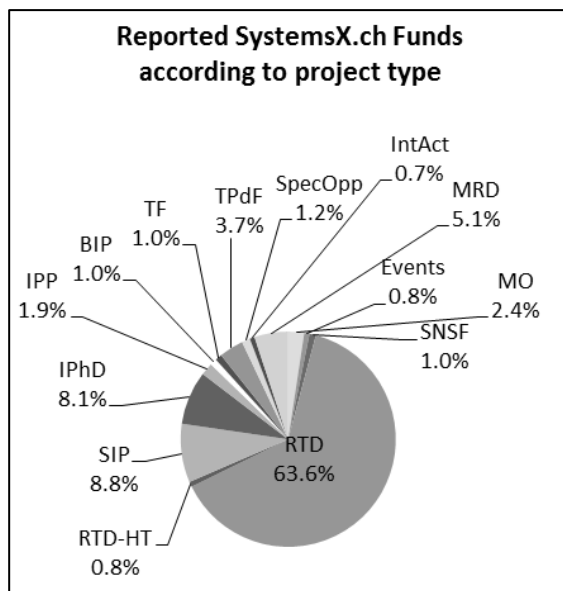


Figure 2a: Reported use of SystemsX.ch Funds according to project type (SNSF included), as a percentage for 2008–2016 (100% = CHF 183.3 million)

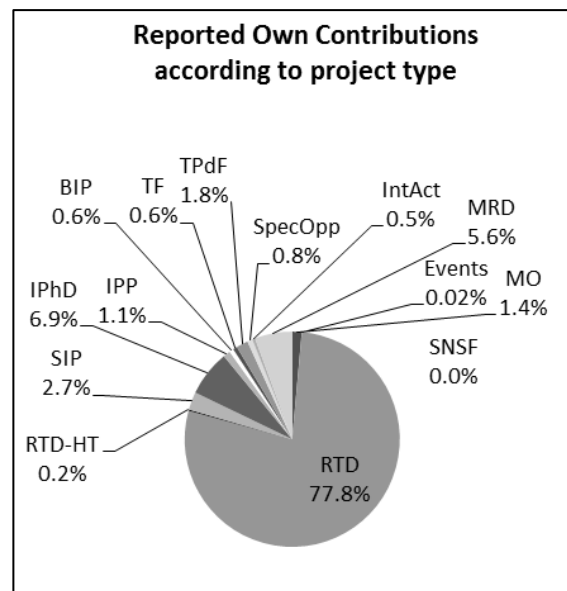


Figure 2b: Reported Own Contributions according to project type (no OCs for SNSF), as a percentage for 2008–2016 (100% = CHF 221.2 million)

Table 1: Reported use of SystemsX.ch Funds and Own Contributions in CHF for 2008–2016 (see Figure 2a and Figure 2b, as a percentage)

Project Type	Reported SystemsX.ch Funds	Reported Own Contributions
MO	4'390'063	3'151'120
Events	1'428'961	41'278
SNSF review & admin costs	1'796'400	-
RTD	116'533'205	172'176'452
RTD-HT	1'440'087	421'183
SIP	16'117'468	5'913'396
IPhD	14'790'716	15'293'636
IPP	3'416'827	2'355'178
BIP	1'843'335	1'420'422
TF	1'863'850	1'399'539
TPdF	6'728'455	3'905'671
SpecOpp	2'285'947	1'722'360
IntAct	1'355'233	985'976
MRD	9'299'022	12'429'087
Total	183'289'567	221'215'299

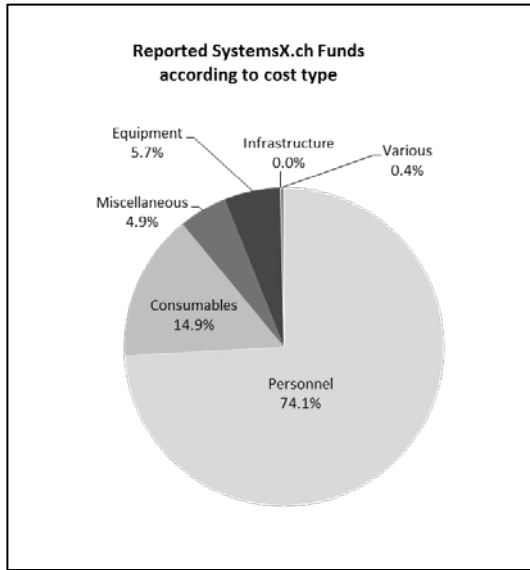


Figure 3a: Reported use of SystemsX.ch Funds according to cost type as a percentage for all project types (SNSF included) for 2008–2016 (100% = CHF 183.3 million)

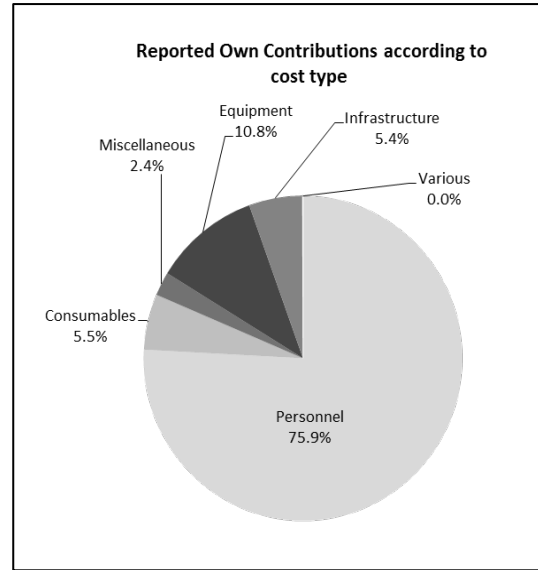


Figure 3b: Reported Own Contributions according to cost types as a percentage for all project types (no OCs for SNSF) for 2008–2016 (100% = CHF 221.2 million)

Both types of resources, i.e. SystemsX.ch Funds and Own Contributions, have been used and reported for the most part (75%) for personnel (CHF 135.9 million SystemsX.ch Funds and CHF 167.8 million Own Contributions) in the period 2008–2016 (see Figure 3a, Figure 3b, Table 2).

Table 2: Reported SystemsX.ch Funds and Own Contributions according to cost type for all project types (no OCs for SNSF) in CHF for 2008–2016 (see Figure 3a and Figure 3b, as a percentage)

Cost Type	Reported SystemsX.ch Funds	Reported Own Contributions
Personnel	135'899'914	167'799'643
Consumables	27'315'788	12'251'405
Miscellaneous	8'975'194	5'242'118
Equipment	10'460'905	23'800'812
Infrastructure	-	12'020'700
Various	637'766	100'621
Total	183'289'567	221'215'299

In 2016, the SystemsX.ch community reported the acquisition of CHF 1.4 million in 3rd Party Funds. FMI and IBM reported CHF 0.7 million in 2016. This amount is on the one hand 3rd Party Funds, but is also considered Own Contributions, since FMI and IBM are SystemsX.ch partners. A further CHF 2.7 million in competitive research grants (2nd Party Funds) with a synergy and/or collateral benefit for SystemsX.ch was reported for the same time period.

Figure 4 shows the reported funds for all funding categories, i.e. SystemsX.ch Funds, Own Contributions (CHF 215.7 million), 2nd Party Funds (CHF 34.4 million) and 3rd Party Funds (CHF 15.1 million), cumulated since 2008. The funding category 3rd Party Funds/Own Contributions (CHF 5.5 million) includes the OCs from FMI, and IBM's OCs for projects approved after October 2014 (see chapter 2.5), cumulated since 2008.

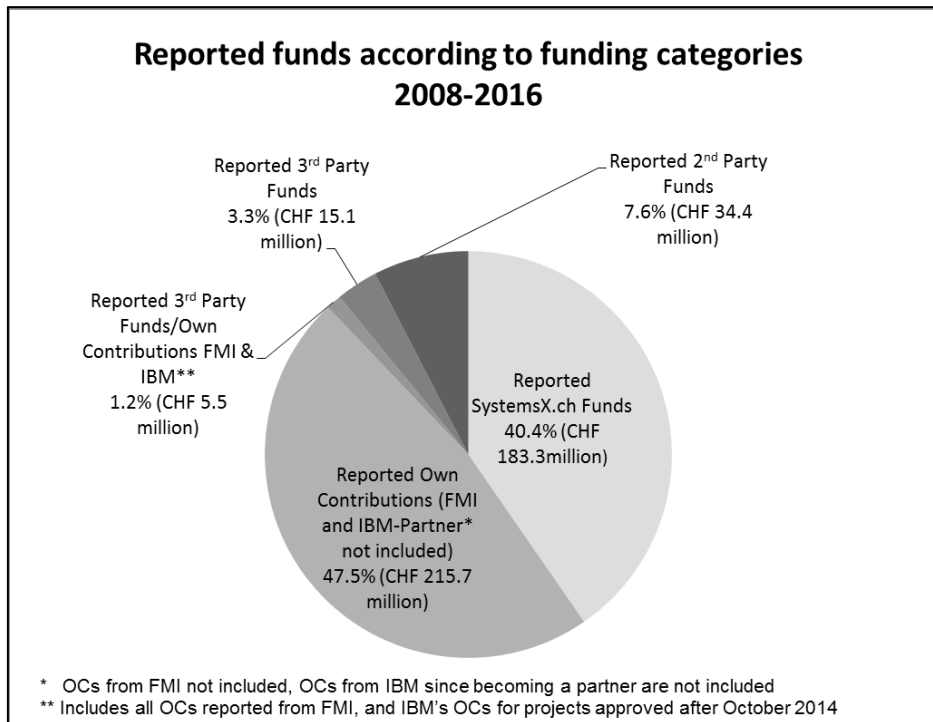


Figure 4: Reported funds according to funding categories as a percentage and in CHF (100% = CHF 454.0 million)

According to SNSF regulations, all received SystemsX.ch Funds have to be either reported or paid back (for detailed information see Appendix 1, A1.6). Some projects came to an end before or within the reporting year 2016. Although it is our intention that the scientists use up the full approved amount in favor of scientific quality, one of our duties is also to keep an eye on unreported SystemsX.ch Funds. As mentioned in last year's report, more and more projects are now coming to an end, which brings the return of unreported funds into focus.

In addition, reported SystemsX.ch Funds in excess of the approved or paid out funds of inactive or closed projects are considered as additional Own Contributions and therefore shifted accordingly. As an effect, the reported amount of SystemsX.ch Funds decreased by this amount whereas the total amount of Own Contribution increased accordingly.

According to the regulations on the use of SystemsX.ch Funds, 21 projects, such as IPhDs, individual research groups of RTDs, TPdFs, BIPs, and one IPP and one MRD (co-PI left a partner Institution and moved to another, hence a shift of funds only), received invoices for the return of unspent funds in 2016. As usual, invoices were sent through the ETH Zurich invoicing channel and transferred to the respective open accounts once released. In addition, one event (Events/EV) organized by the Management Office had to return unspent funds. The invoices were sent out in 2016, and are therefore recorded in the 2016 financial report. However, please note that a total of CHF 8'566 (one IPhD for the open account 201542) had not yet been paid in 2016.

The funds to be returned by scientific projects in 2016 amounted to CHF 445'756 for the open account 201542 (eight RTD research groups, two TPdFs, one IPP, three BIPs and seven IPhDs). Due to a change of institution of one co-PI, CHF 127'990 (one MRD) was returned from the FMI and transferred afterwards to UniBas (concerns open account 201543). One EV had to return CHF 4'440 in unspent funds to the open account 201543. Only projects with the note "project closed" (see Appendix 4) are closed regarding all financial duties. As instructed by the SERI, only unspent funds for which SystemsX.ch sent out an invoice in 2015 can be made available for SystemsX.ch projects (e.g. extensions). Returned unspent funds from invoices sent from 2016 onwards can only be used to pay EV, ES or the SystemsX.ch Management Office but not scientific projects, and will therefore be labeled or filed accordingly.

The grant recipients were again explicitly given the opportunity to submit any previously unreported expenditure for the current financial report. Hence this report details some late-reported items, including negative reports and shifts from previous years (2008–2015), corresponding to less than 0.7% (< CHF 200'000) of the total amount of reported SystemsX.ch Funds in 2016, have been noted and reported as amendments in 2016 to keep the previous financial reports of 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015 untouched. With these updates, the amounts reported up to December 31, 2016 are complete to our best knowledge.

The setting up of a complex organization like SystemsX.ch is challenging. Since 2010, the initiative has been audited to assess its “Good Governance”. In general, this means applying best practices by making sure that procedures and roles are transparent, that checks and balances are established, and that areas of potential high risk are identified and managed adequately (for more information see Appendix 1, A1.2).

1. Introduction

The Swiss Initiative in Systems Biology has received a gross amount of CHF 98.8 million in the Education Research and Innovation (ERI) financial period 2013–2016. For 2016, which is the fourth and final year of this ERI period, SystemsX.ch received CHF 24.5 million.

No new research projects were approved in 2016, and there will be no new projects approved before SystemsX.ch comes to an end in 2018. Hence, funds were only released to already funded projects.

As instructed by the State Secretariat for Education, Research and Innovation (SERI), all of the almost CHF 220 million in funds decreed for SystemsX.ch (2008–2016) had to be allocated by December 2015 (see section 1.4 for more information). The funds allocated for scientific projects may be used until the end of 2018. However, for administrative purposes, a minimal work force is needed to continue at the Management Office until approximately mid-2019. In particular, financial tasks such as coordinating the return of unspent project funds or writing the final financial report will need to be carried out in order to bring SystemsX.ch to an orderly end.

For SystemsX.ch, the period 2013–2016 is regarded as the consolidation phase, while the period 2008–2012 was considered to be the initiation phase of the initiative. SystemsX.ch received a total of CHF 119.7 million (interest not included) in the financial period of the ERI 2008–2012. As far as finances are concerned, the two periods are treated separately, as requested by the decree released in February 2013 by the State Secretariat for Education, Research and Innovation SERI.

The initiative relies not only on Federal Funds (SystemsX.ch Funds), but also on additional investments from the partner institutions, called Own Contributions (OCs). *Figure 5* shows the reported SystemsX.ch Funds compared to the reported Own Contributions in CHF per year from 2008–2016 (see *Figure 9*, visualized as a percentage according to cost type). The balance of the surplus of matching funds can be seen in *Figure 5*.

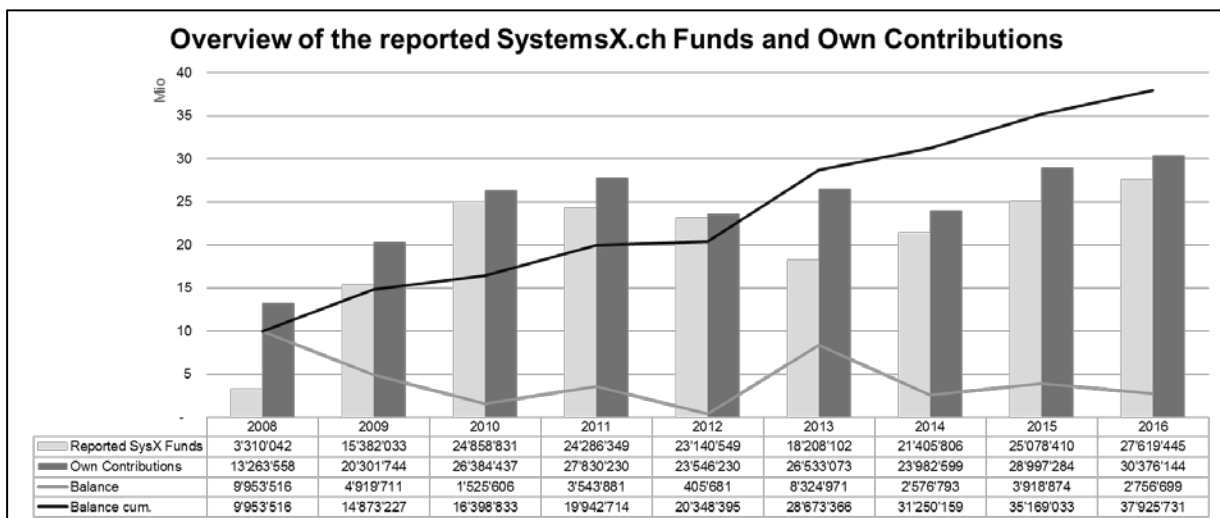


Figure 5: Overview of reported use of SystemsX.ch Funds and Own Contributions in CHF (SystemsX.ch Funds have been overmatched by CHF 37.9 million over the period 2008–2016)

SystemsX.ch funds a number of scientific project types and supports and organizes scientific events (mainly conferences, workshops and retreats).

Figure 6 gives an overview of the most prominent project types to receive funding (RTD-HTs and Events are not included in the figure). The SNSF (mandated to ensure scientific quality) and parts of the Management Office are also paid from the SystemsX.ch Funds.

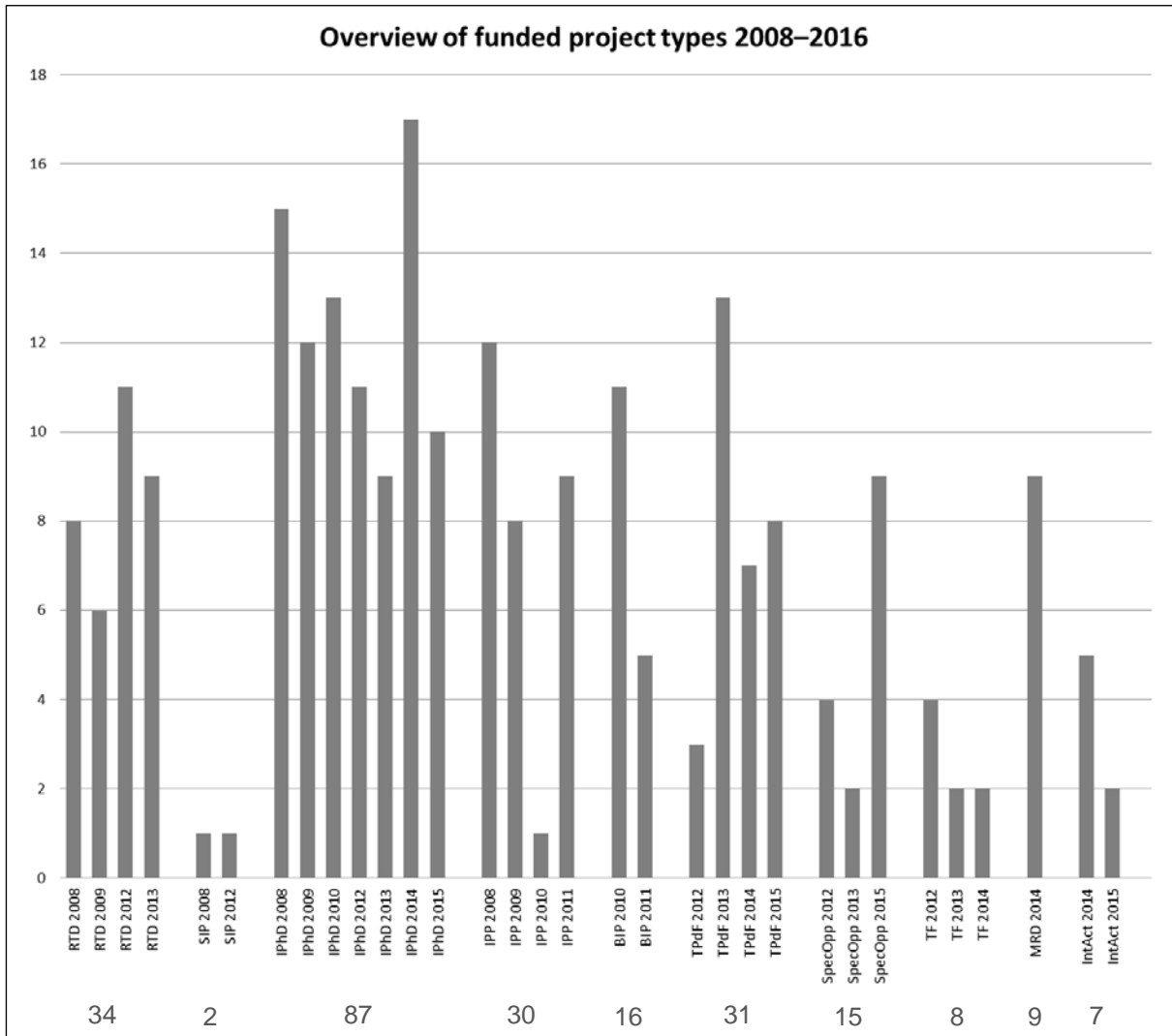


Figure 6: Generalized overview of numbers per project type funded from the ERI Messages 2008–2011, 2012, 2013, 2014 and 2015 (not including 7 RTD-HT and Events)

The most prominent projects are the 34 Research, Technology and Development Projects (RTDs) approved in 2008, 2009, 2012 and 2013 and the IT backbone SyBIT (SyBIT and SyBIT_2), which is a SystemsX.ch Initiated Project (SIP). In addition, 7 High-Tech Funds (RTD-HTs), 87 Interdisciplinary PhD Projects (IPhDs), 30 Interdisciplinary Pilot Projects (IPPs), 16 Bridge 2 Industry Projects (BIPs), 31 Transition Postdoc Fellowships (TPdFs), 15 Special Opportunity Projects (SpecOpps), 8 Transfer Projects (TFs), 9 Medical Research and Development Projects (MRDs) and 7 International Activities Projects (IntActs) were approved and funded between 2008 and December 2016.

Except Events, no additional scientific projects were funded in 2016.

Out of these 246 projects, 122 projects were officially active in the reporting year (see Appendix 4 and Appendix 6a, *App6 Figure 1–9*). Therefore, financial reports for 252 research groups have been submitted, plus reports for the Management Office. 59 projects were completed previously and have been completely reported in earlier financial reports. 62 projects were not active in the reporting year but were still formally open, for example projects that still needed to repay unspent funds or submit reports for missing periods. 3 projects have not yet started (see App A4 for the description of the status of a project). The administrative costs of the initiative in the form of the Management Office (MO) are also duly reported in this financial report (see 2.4).

The present report covers the submitted reports of 27 RTDs, 1 SIP (SyBIT_2), 45 IPhDs, 24 TPdFs, 10 SpecOpps, 6 TFs, 7 IntActs, 9 MRDs and the MO. A detailed list of all projects being reported can be found in Appendix 6b, and detailed figures concerning the duration of each project can be found in Appendix 6a, App6 Figure 1–9. Please note that some projects will last until 2018.

1.1 Overall Financing of SystemsX.ch

The initiative's success relies on additional investments from SystemsX.ch partner institutions, and to some degree from the private sector. In addition, SystemsX.ch wishes to catalyze interactions and results which researchers can use to raise new money from competitive research foundations. This is, in fact, also an expectation of the National Parliament: as in previous years, the CHF 98.8 million allocated for 2013–2016 must be matched 1:1 by Own Contributions from the partner institutions receiving the money (see Table 3a and Table 3b). Adding these two channels, resources worth more than CHF 215 million have been allocated to SystemsX.ch research groups during the current ERI Message. This helps the researchers be even more successful when applying for competitive research grants (2nd Party Funds). The parliament is also interested in knowing the total amount the private sector contributed to SystemsX.ch (3rd Party Funds). Unfortunately, the reporting of 2nd and 3rd Party Funds was not carried out systematically by all research groups.

The financial planning for the period 2008–2011 was undertaken in October 2006 and the business plan submitted in January 2007. As mentioned in earlier financial reports, changes in personnel, in particular the President of ETH Zurich and chairman of the BoD, and representatives from pharma, resulted in an adaptation of the original estimations of the Own Contributions and 3rd Party Funds (see Financial Report 2010, page 8, Table 2).

Table 3a: Overview of overall financing of SystemsX.ch based on the business plan from April 2012 for 2013–2016 and 2008–2016

in CHF	Year *					Total 2013-2016	Total 2008-2016
	Total 2008-2012	2013	2014	2015	2016		
Federal ERI ¹⁾	119'723'800	24'500'000	24'500'000	25'275'000	24'500'000	98'775'000	218'498'800
Contribution by Partner (in kind & in cash) ²⁾	121'000'000	25'000'000	28'000'000	31'000'000	35'000'000	119'000'000	240'000'000
Contribution third Party ³⁾	17'250'000	5'000'000	5'250'000	5'500'000	4'500'000	20'250'000	37'500'000
Subtotal	257'973'800	54'500'000	57'750'000	61'775'000	64'000'000	238'025'000	495'998'800
Contribution 2nd Party (SNSF, EU, KTI) ⁴⁾	38'700'000	17'000'000	18'000'000	19'000'000	20'000'000	74'000'000	112'700'000
Total contributions	296'673'800	71'500'000	75'750'000	80'775'000	84'000'000	312'025'000	608'698'800

Source: SystemsX.ch (The Swiss Initiative in Systems Biology) 'Adapted Multi-Annual Plan for the Years 2013 - 2016 of April 23, 2012'

Table 3b: Overview of overall financing of SystemsX.ch 2008–2011, 2012 and 2008–2012 based on the business plan from January 2007, updated in May 2011

in CHF	Year *				Total 2008-2011	Year * 2012	Total 2008-2012
	2008	2009	2010	2011			
Federal ERI ¹⁾	13'000'000	27'000'000	28'500'000	30'523'800	99'023'800	20'700'000	119'723'800
Contribution by Partner (in kind & in cash) ²⁾	13'000'000	27'000'000	29'000'000	31'000'000	100'000'000	21'000'000	121'000'000
Contribution third Party ³⁾	200'000	800'000	4'500'000	7'000'000	12'500'000	4'750'000	17'250'000
Subtotal	26'200'000	54'800'000	62'000'000	68'523'800	211'523'800	46'450'000	257'973'800
Contribution 2nd Party (SNSF, EU, KTI) ⁴⁾	1'000'000	2'700'000	8'000'000	12'000'000	23'700'000	15'000'000	38'700'000
Total contributions	27'200'000	57'500'000	70'000'000	80'523'800	235'223'800	61'450'000	296'673'800

Source: SystemsX.ch (The Swiss Initiative in Systems Biology) 'Business Plan, January 2007' and 'Phase II, Plan for the Years 2012 - 2016, December 23, 2009'

- 1) Contribution SUC/ETH Board (cut 2011: SUC 3,758%, ETH Board 2,5%)
- 2) The SystemsX.ch BoD decided on July 6, 2007 to treat contributions "in kind" and "in cash" equally
- 3) 3rd Party Funds from private sector (industry, SMEs, private foundations, etc)
- 4) 2nd Party Funds from competitive research foundations

*) 2008-2010 Actual, 2011 cut Actual, 2012 Debit

1.2 Federal Funds (Cash-flow)

The SystemsX.ch initiative was granted CHF 98.8 million for the calendar period 2013–2016 (see *Table 3a*; Federal ERI¹⁾). For the leap year 2012, for which the ERI Message is essentially an extension of 2008–2011, SystemsX.ch received CHF 20.7 million (see *Table 3b*; Federal ERI¹⁾) and for 2008–2011, CHF 99.0 million (see *Table 3b*; Federal ERI¹⁾), which was CHF 100 million before the budget cut. Every year, SystemsX.ch has received a certain allocation of Federal Funds in order to fund projects and the administration of the initiative. SystemsX.ch is financed through two channels, the ETH-Board by CHF 50 million and SUC by CHF 48.8 million for 2013–2016 (see *Table 3a*; Federal ERI¹⁾). The annual tranches are sent via the SNSF to SystemsX.ch.

Based on the business plans of 2007 and 2012, the State Secretariat for Education and Research (SERI) decreed how the SystemsX.ch Funds were to be used. *Table 4a* and *Table 4b* show the annual amounts for each item.

Table 4a: Overview of planned allocation of SystemsX.ch Funds for 2013–2016 and 2008–2016

in CHF	Total 2008-2012	Year				Total 2013-2016	Total 2008-2016
		2013	2014	2015	2016		
Management expenses MgtOffice SysX.ch ¹⁾	5'600'000	800'000	700'000	600'000	400'000	2'500'000	8'100'000
Management expenses review SNSF ³⁾	996'400	200'000	200'000	200'000	200'000	800'000	1'796'400
Central services and IPP	12'500'000					0	12'500'000
Education IPhD Projects SNSF ²⁾	9'900'000	2'300'000	2'300'000	2'300'000	2'300'000	9'200'000	19'100'000
Education IPhD-Projekte SEB SysX.ch	800'000					0	800'000
RTD projects SNSF ^{2) 4) 9)}	86'278'000	15'000'000	15'000'000	15'000'000	14'555'000	59'555'000	145'833'000
TPdF-Projects ⁵⁾	3'300'000	3'480'000	3'480'000	3'480'000	3'480'000	13'920'000	17'220'000
Special-Opportunity-Projects ⁶⁾	400'000	200'000	400'000	400'000	400'000	1'400'000	1'800'000
International Activities ⁷⁾	550'000	400'000	900'000	1'800'000	2'400'000	5'500'000	6'050'000
TF-Projects ⁸⁾		700'000	1'400'000	1'900'000	1'900'000	5'900'000	5'900'000
Total allocation of funds	120'324'400	23'080'000	24'380'000	25'680'000	25'635'000	98'775'000	219'099'400

Table 4b: Overview of planned allocation of SystemsX.ch Funds for 2008–2011, 2012 and 2008–2012

in CHF	2008	Year			Total 2008-2011	2012	Total 2008-2012
		2009	2010	2011			
Management expenses MgtOffice SysX.ch ¹⁾	1'108'000	1'253'000	1'185'000	1'254'000	4'800'000	800'000	5'600'000
Management expenses review SNSF ³⁾	292'000	147'000	215'000	142'400	796'400	200'000	996'400
Central services and IPP	3'000'000	3'000'000	3'000'000	3'000'000	12'000'000	500'000	12'500'000
Education IPhD Projects SNSF ²⁾	1'800'000	1'800'000	1'800'000	1'800'000	7'200'000	2'700'000	9'900'000
Education IPhD-Projekte SEB SysX.ch	200'000	200'000	200'000	200'000	800'000		800'000
RTD projects SNSF ^{2) 4)}	18'600'000	18'600'000	18'600'000	18'228'000	74'028'000	12'250'000	86'278'000
TPdF-Projects ⁵⁾					0	3'300'000	3'300'000
Special-Opportunity-Projects ⁶⁾					0	400'000	400'000
International Activities ⁷⁾					0	550'000	550'000
Total allocation of funds	25'000'000	25'000'000	25'000'000	24'624'400	99'624'400	20'700'000	120'324'400

Source: ETH Board decree dated 07.03.2008 (in accordance with SERI dated 07.03.2008) and amended extension plan for 2013-2016 dated 23.04. 2012 (including File Financial_Plan_2008-2020_2013.xlsx)

- 1) MgmtOffice SystemsX.ch & Events
- 2) Decision by the SNSF
- 3) Fee for service SNSF CHF 800'000 for 4 years (cut 2011: 2,466%)
- 4) Cut 2011: 0,5% out of CHF 74,4 mio
- 5) TPdF Projects since 2012
- 6) Special-Opportunity Projects since 2012
- 7) International Activities since 2012
- 8) Transfer Projects (TF) since 2012
- 9) RTDs, MRDs and SyBIT

1.3 Committed Funds and Available Funds

In *Table 5a* and *Table 5b*, all movements on the two SystemsX.ch open accounts have been merged into one table, and are shown for December 2016 and are summarized over the calendar years 2008 to 2016.

This pattern of two tables, the one above showing the numbers for the reporting year 2016 and, the one below showing the consolidation of the same items over the whole period since 2008, has been chosen for most tables in this report, as agreed upon with the SNSF in the fall of 2009.

In 2016, the combined balance showed that CHF 2'857'863 more was paid out than received on the open accounts (see *Table 5a*), and the amount of not yet reported SystemsX.ch Funds decreased to CHF -261'580 (see *Table 5a*). In *Table 5b* it can be seen that the balance of the two open accounts amounts to CHF 21'755'218, while CHF 13'940'275 remained unreported.

Detailed information about each open account can be seen in the supplementary tables in Appendix 2 (*App2 Table 1–6*).

Table 5a: Overview of the CHF 2'857'863 more paid out than received of SystemsX.ch Funds in 2016 (the two open accounts are merged into one table)

Year 2016	SystemsX.ch						Own Contributions				Third P	Total	
Total Open Accounts	Paid in	Paid out	returned **	Paid out (net)	Reported	Delta CHF *	Delta %	Budget	Reported	Delta CHF *	Delta %	Reported	Reported
Open account payments	24'500'000	27'808'059	450'196	27'357'863	-	-2'857'863	14	-	-	-	-	-	-
Open account interest	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal open account	24'500'000	27'808'059	450'196	27'357'863	-	-2'857'863.10	14	-	-	-	-	-	-
Management Office SystemsX	600'500	-	600'500	560'661	39'839	-7	400'000	458'668	-58'668	15	-	-	1'019'329
Events (alle Events)	176'262	4'440	171'822	225'492	53'670	28	-	-	-	-	-	23'871	249'363
SNSF review & admin cost	200'000	-	200'000	200'000	-	-	-	-	-	-	-	-	200'000
RTD	12'248'656	308'409	11'940'247	12'516'554	576'309	2	14'222'321	16'843'096	2'620'776	18	716'703	30'076'355	
RTD-HT	-	-	-	752	-	-	-	752	-	-	-	-	-
SIP	1'360'000	-	1'360'000	1'120'988	239'012	-18	-	485'063	-485'063	-	-	-	1'606'052
IPhD	2'447'903	93'431	2'354'472	2'481'456	-126'984	1	-	2'554'833	-2'554'833	-	115'731	5'152'020	
IPP	-	20'331	-20'331	-154'577	134'246	-	-	31'330	-31'330	-	-	-	123'247
BIP	-	22'568	-22'568	-	17'975	-	-	46'869	-46'869	-	-	-	42'076
TPdF	2'014'518	1'017	2'013'501	2'463'323	449'822	19	-	1'135'438	-1'135'438	-	-	-	3'538'678
SpecOpp	697'037	-	697'037	836'627	139'590	20	951'600	850'698	100'902	-	-	-	1'681'395
IF	390'314	-	390'314	450'682	-60'368	15	331'553	490'716	-159'163	48	529'688	1'471'086	
IntAct	1'038'897	-	1'038'897	750'341	288'556	-28	-	351'121	-351'121	-	-	-	1'101'461
MRO	6'693'972	-	6'693'972	6'233'292	460'680	-6	7'047'573	7'127'760	-80'187	1	-	-	13'361'012
Subtotal projects	27'808'059	450'196	27'357'863	27'619'443	-261'580	-1	22'952'747	30'376'144	-7'423'398	32	1'385'993	69'381'581	
Variation of available funds	-	-	-	-	-	-	-3'119'443	-	-	-	-	-	-

Table 5b: Overview of the balance of available SystemsX.ch Funds on the two open accounts for 2008–2016 (the two open accounts merged into one table), and not yet reported SystemsX.ch Funds

01.01.2008 - 31.12.2016	SystemsX.ch						Own Contributions				Third P	Total	
Open account payments	Paid in	Paid out	returned **	Paid out (net)	Reported	Delta CHF *	Delta %	Budget	Reported	Delta CHF *	Delta %	Reported	Reported
Open account payments	218'498'800	197'680'036	450'196	197'229'840	-	21'268'960	-10	-	-	-	-	-	-
Open account interest	486'258	-	-	-	-	486'258	-100	-	-	-	-	-	-
Subtotal open acc cumul	218'985'058	197'680'036	450'196	197'229'840	-	21'755'218.01	-10	-	-	-	-	-	-
Management Office SystemsX	4'118'771	-	4'118'771	4'390'063	-271'292	7	3'375'000	3'151'120	223'880	-7	34'135	7'575'318	
Events (alle Events)	1'446'008	4'440	1'441'568	1'428'961	12'607	-1	-	41'278	-41'278	-	-	204'460	
SNSF review & admin cost	1'796'400	-	1'796'400	1'796'400	-	-	-	-	-	-	-	1'796'400	
RTD	123'854'849	308'409	123'546'441	116'533'204	7'013'237	-6	156'922'947	172'176'453	-15'353'506	10	11'448'474	300'158'132	
RTD-HT	1'440'087	-	1'440'087	1'440'087	-	-	828'000	421'183	406'817	-49	-	1'861'270	
SIP	16'109'500	-	16'109'500	16'117'468	-7'967	0	2'403'000	5'913'396	-3'510'396	146	60'615	22'091'478	
IPhD	15'793'869	93'431	15'700'438	14'790'715	909'723	-6	-	15'293'635	-15'293'635	-	270'803	30'355'154	
IPP	3'455'701	20'331	3'435'370	3'416'827	18'544	-1	513'700	2'355'178	-1'841'478	358	39'500	8'810'505	
BIP	1'865'904	22'568	1'843'336	1'843'335	1	-	1'695'800	1'420'421	272'919	-16	1'119'355	4'383'111	
TPdF	7'675'730	1'017	7'674'713	6'728'454	946'259	-12	-	3'905'671	-3'905'671	-	-	10'634'125	
SpecOpp	2'636'592	-	2'636'592	2'285'947	350'645	-13	1'299'100	1'722'360	-422'260	33	-	4'008'307	
IF	2'097'716	-	2'097'716	1'863'850	233'866	-11	1'713'389	1'399'539	313'850	-18	1'911'217	5'174'607	
IntAct	2'053'005	-	2'053'005	1'355'233	697'772	-34	-	988'376	-988'376	-	-	2'341'209	
MRO	13'335'902	-	13'335'902	9'299'022	4'036'880	-30	15'952'215	12'429'087	3'523'128	-22	52'000	21'780'109	
Subtotal projects cumul	197'680'035	450'196	197'229'839	183'289'565	13'940'275	-7	184'603'151	221'215'298	-36'612'147	20	15'139'560	419'644'423	
Total of available funds	-	-	-	-	-	35'695'493	-	-	-	-	-	-	-

* Available funds
 ** Funds returned by Partners since 2016

Note: “Events” is a category that was included up until 2009 in “Management Office SystemsX” (see also section 2.4).

1.4 Allocation of SystemsX.ch Funds

The entire amount of CHF 218.5 million (CHF 219.0 million including interest) of the whole period 2008–2016 was allocated by December 31, 2015, as decreed by the SERI. Allocated funds may be used until the end of 2018, and for administrative tasks until 2019.

As mentioned in the Financial Report 2015, the accuracy of the financial plan until 2019 is limited for several reasons. The increased allocations compared to December 2015 for IPhD and TPdF projects are due to by salary adaptations as a result of inflation and/or changes in social taxes (in particular for families). Lower allocations are due to SystemsX.ch projects (RTD, TPdF, IPhD, IPP, BIP) that were terminated, did not use up all allocated funds and repaid any unspent money. Repayments are collected in the “Repayment pool” (see *Table 6*).

Table 6: SystemsX.ch fund allocation 2008–2018, including amendment of social charges for IPhDs and TPdFs and return of unspent SystemsX.ch Funds in 2016 in CHF

Expenses 2008-2018	allocated 2008-2016		corr(+) allocat 2016	corr(-) allocat 2016
RTD	131'549'704	60.2%	-	-308'409
MRD	18'587'695	8.5%	-	-
SyBIT	17'549'500	8.0%	-	-
TPdF a)	8'977'706	4.1%	8'297	-1'017
IPhD a)	18'652'270	8.5%	6'013	-93'431
Special Opportunity	3'097'335	1.4%	-	-
Transfer Project	2'097'716	1.0%	-	-
Internat Activities	2'997'528	1.4%	-	-
IPP	3'435'371	1.6%	-	-20'331
BIP	1'843'336	0.8%	-	-22'568
High Tech Funds	1'440'087	0.7%	-	-
SNSF	1'796'400	0.8%	-	-
Event/Workshops/Conf b)	1'665'306	0.8%	-	-4'440
Management Office b)	4'830'271	2.2%	-	-
<i>Repayment pool</i>	450'196	0.2%		
Total	218'970'420	100%	14'310	-450'196

Income 2008-2018			
Source	income total		income 2008-2016
SERI (ETH domaine & CUS)	218'498'800	99.8%	218'498'800
Interests	486'258	0.2%	486'258
Total	218'985'058	100%	218'985'058

Balance 2008-2018			
Item			
Total allocation	218'520'225	99.8%	
Total income	218'985'058	100.0%	
Difference	464'834	0.2%	

a) subject to changes in salary and social taxes

b) plan; changes may occur due to event approval of the SEB and MO personnel fluctuation

2. Financial Overview of SystemsX.ch 2016

Since the Management Office is affiliated with the ETH Zurich, all the money transfers at SystemsX.ch run via two open accounts and three endowment funds (2-71180-08, 2-71186-08 and 2-71187-08) at the ETH Zurich. In addition, for SystemsX.ch events, temporary endowment funds are opened and then closed after the events have taken place. All payments are recorded in the two Master Excel Files (for more information see Appendix 1 and Appendix 2).

2.1 Annual Membership Fees

Article 28 of the SystemsX.ch Partnership Agreement states: "salaries and running costs for the Management Office shall be financed through the partners' yearly membership fees and Federal Funds". This is to be understood as the "Own Contribution" for the Management Office. As for the running costs, it was agreed that they would consist of CHF 10'000 for consumables plus the expenses of the SAB site visit. The SAB committee was dissolved in 2013. The BoD decided on November 27, 2013 that the amount for the annual membership fee 2014–2016 would be CHF 30'000 per partner per year. In 2010, the BoD decided that the SIB is exempt from paying the fee. The Università della Svizzera italiana (USI) joined the SystemsX.ch consortium as a partner towards the end of 2013, but con-

tributed the partner fee for the first time in 2014. IBM Zurich Research Laboratory (IBM) and the Zurich University of Applied Sciences (ZHAW) contributed the partner fee for the first time in 2015. 2016 was the second to last year for which membership fees are collected. *Table 7* summarizes the annual membership fees including rollovers since 2008.

Table 7: Income, expenditure, annual balance and amount to be carried over of the annual membership fees 2008–2016 in CHF

Year	Actual Income	Actual Expenditures	Annual Balance	To be carried over
2008	550'000	324'100	225'900	225'900
2009	330'000	307'600	22'400	248'300
2010	330'000	279'300	50'700	299'000
2011	330'000	286'400	43'600	342'600
2012	330'000	322'300	7'700	350'300
2013	330'000	366'500	-36'500	313'800
2014	360'000	389'000	-29'000	284'800
2015	418'170	417'200	970	285'770
2016	421'830	458'720	-36'890	248'880
2008-2016	3'400'000	3'151'120	248'880	

2.2 General Remarks on the Financial Report 2016

The MO has received financial reports for 252 research groups. In the reporting year 2016, the SystemsX.ch partner institutions submitted reports for 130 projects including the MO (see Appendix 6b). Included amongst these are some late items from previous years, which have been noted and implemented as corrections in order to keep the financial reports 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015 untouched.

RTD 2008-003 (EPFL) handed in one report for two professors from 2012. RTD 2008-004 (ETHZ) reported additional expenditure for equipment from 2012. RTD 2008-008 (EPFL) reported some additional expenditure from 2015. RTD 2009-005 (ETHZ) reported some additional expenditure from 2009 and UZH reported SystemsX.ch Funds for 2012. RTD 2009-006 (EPFL) reported SystemsX.ch Funds for 2013. RTD 2009-008 (UniL) handed in the report for 2015. RTD 2009-009 (EPFL) reported some additional expenditure from 2014. RTD 2013-151 (UZH) reported additional 2nd Party Funds for 2015. RTD 2013-152 (UniBas) reported additional 2nd Party Funds for 2015. RTD 2013-152 (ETHZ) reported additional Own Contributions for 2015. RTD 2013-153 (EPFL) reported additional Own Contributions for 2015. RTD 2013-155 (UniBE) reported a correction for SystemsX.ch Funds. MRD 2014-267 (UZH_Spit) reported additional 2nd Party Funds and Own Contributions. MRD 2014-268 reported additional 2nd Party Funds and Own Contributions incl. a correction for Own Contributions. SIP 2012-210 (ETHZ and UniBas) reported additional Own Contributions for 2015. IPhD 2010-073 handed in two corrected reports for previous years.

Please note that as in previous years, some institutions submitted a single reporting file for several research groups within the same institution working on the same project.

Most co-PIs who did not receive SystemsX.ch Funds have not submitted financial reports.

2.3 Overview of the Management Office, Events and the SNSF

Transfers to the three endowment funds were made from the second SystemsX.ch open account in 2016 to cover salaries and running costs of the Management Office (MO). In *Table 8*, the Own Contributions listed reflect the annual membership fees of the SystemsX.ch partner institutions (income, contributions to the running costs of the MO, see chapter 2.1).

Table 8: Management Office

Management

Year 2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	390'000	423'668	9	390'000	423'668	9	-	847'336
Consumables	-261'500	27'854	-111	10'000	-	-100	-	27'854
Miscellaneous	-	108'790	-	-	35'000	-	-	143'790
Equipment	-	349	-	-	-	-	-	349
Infrastructure	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-
Total	128'500	560'661	336	400'000	458'668	15	-	1'019'329

01.01.2008 - 31.12.2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	3'530'000	2'868'228	-19	3'142'000	2'848'176	-9	-	5'716'404
Consumables	1'956'500	299'901	-85	80'000	10'000	-88	-	309'901
Miscellaneous	203'000	1'211'980	497	153'000	292'944	91	-	1'504'924
Equipment	-	9'953	-	-	-	-	-	9'953
Infrastructure	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	34'135	34'135
Total	5'689'500	4'390'063	-23	3'375'000	3'151'120	-7	34'135	7'575'318

Financial support of events such as conferences, workshops, student retreats, etc. is treated similarly to projects with one payment (e.g. IPPs). Consequently, the tranches are released directly from the open accounts, not from the endowment funds of ETH Zurich (see Table 9).

Table 9: Events

Events (alle Events)

Year 2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-	-	-	-	-	-	-
Consumables	411'500	8'186	-98	-	-	-	-	8'186
Miscellaneous	-	217'307	-	-	-	-	-	217'307
Equipment	-	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	23'871	23'871
Total	411'500	225'492	-45	-	-	-	23'871	249'363

01.01.2008 - 31.12.2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	1'838	-	-	-	-	-	1'838
Consumables	1'441'500	52'832	-96	-	-	-	-	52'832
Miscellaneous	-	932'004	-	-	41'278	-	-	973'282
Equipment	-	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-
Various	0	442'287	-	-	-	-	204'460	646'747
Total	1'441'500	1'428'961	-1	-	41'278	-	204'460	1'674'699

SystemsX.ch uses the services of the SNSF for review and quality control. The annual cost of CHF 200'000 in 2016 was directly deducted from the Federal Funds payment made to the SystemsX.ch open account at the beginning of 2016. This amount is illustrated in Table 10, which reflects the 2016 and cumulative payments made to the SNSF for this service. In 2016, the SNSF deducted for the last time CHF 200'000 for their services.

Table 10: SNSF review and administrative costs

SNSF review & admin cost

Year 2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-	-	-	-	-	-	-
Consumables	200'000	200'000	-	-	-	-	-	200'000
Miscellaneous	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-
Total	200'000	200'000	-	-	-	-	-	200'000

01.01.2008 - 31.12.2016	SystemsX.ch			Own Contributions			Third P	Total
	Budget	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-	-	-	-	-	-	-
Consumables	1'801'000	1'796'400	-0	-	-	-	-	1'796'400
Miscellaneous	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-
Total	1'801'000	1'796'400	-0	-	-	-	-	1'796'400

2.4 Overview of Total Resources

Payments to the open accounts and transfers from those accounts to partners for projects and to the MO

Table 11a shows all the federal payments made to the SystemsX.ch open accounts per year and summarized over the calendar years 2008–2016, including interest. Table 11b shows all federal payments made to and from the two SystemsX.ch open accounts for 2016 and summarized over the calendar years 2008–2016, including interest (see Appendix 2, App2 Table 1–6 for detailed information). The payments to SystemsX.ch were made by the SUC and ETH-Board via SNSF.

Table 11a: Overview of the income and interest on the open accounts (compiled into one table)

Open account 201542 and 201543 in CHF	Year	Year	Year	Year	Year	Year	Year	Year	Year	Total 2008–2016 Reported
	2008	2009	2010	2011	2012	2013	2014	2015	2016	
Income Federal ERI (SUC and ETH-Rat)	13'000'000	27'000'000	28'500'000	30'523'800	20'700'000	24'500'000	24'500'000	25'275'000	24'500'000	218'498'800
Open accounts interest	112'019	69'197	60'032	86'357	40'970	63'553	54'130	-	-	486'258

As can be seen in Table 11b, at the end of 2016 the SystemsX.ch open accounts show a cumulated surplus of CHF 21.8 million (2015: CHF 24.6 million, 2014: CHF 28.5 million, 2013: CHF 26.6 million, 2012: CHF 23.7 million, 2011: CHF 24.2 million, 2010: CHF 18.2 million, 2009: CHF 12.9 million, 2008: CHF 1.6 million).

Table 11b: Planning overview 3: Income (payments SUC and ETH-Board) and interest; open accounts compiled (201542 and 201543)

Year 2016	SystemsX.ch		01.01.2008 - 31.12.2016	SystemsX.ch	
Total Open accounts	Payments	yearly balance	Payments	Total balance	
SNSF payments SUK	12'000'000	12'000'000	108'561'300	108'561'300	
SNSF payments ETH-Rat	12'500'000	24'500'000	109'937'500	218'498'800	
Open account interest	0	24'500'000	486'258	218'985'058	
Total payments	-27'357'863	-2'857'863	-197'229'840	21'755'218	
Total	-2'857'863	-2'857'863	21'755'218	21'755'218	

Table 12 gives an overview of SNSF decisions, allocations by the MO and payments for both the reporting year and summarized over the calendar years 2008–2016. In 2016, a total of CHF 27.4 million was paid from SystemsX.ch to the partner institutions (including MO and SNSF). Please note that since the end of 2015 no allocation have been made by the SNSF and by the SEB, since all funds for scientific projects had already been allocated. Therefore from 2008 to December 2016, the amounts assigned by the SNSF and SEB have stayed untouched since 2015. The SNF assigned a total amount of 194.3 million, making a total of CHF 215.6 million including decisions made by the SEB

(2008–2016). Please note that (a) IPdFs are approved for three years with the option of extending for a fourth year (decision to extend by SystemsX.ch), (b) TPdFs are approved for two years with the option of extending for a third year (decision to extend by SystemsX.ch) and (c) High-Tech Funds for RTDs were approved similarly by the SEB. These SEB decisions are not reflected in *Table 12*.

Please note that as a result of the amendment of MO-Allocations in the amount effectively paid out to partners in the past, and due to repayments, a slightly negative sum (Total) occurred for 2016 (see *Table 12 and Table 13a*).

Table 12: Planning overview 1: SNSF-decisions and allocations per project type

Year 2016	SystemsX.ch			01.01.2008 - 31.12.2016	SystemsX.ch		
	SNSF decisions	MO act. Allocation	Payments		SNSF decisions	MO act. Allocation	Payments
Management		600'500	600'500	Management	-	4'118'771	4'118'771
Events (alle Events)		144'584	171'822	Events (alle Events)		1'541'830	1'441'568
SNSF review & admin cost		-	200'000	SNSF review & admin cost		-	179'640
RTD	-	-423'791	11'940'247	RTD	132'426'309	131'434'322	123'546'441
RTD-HT	-	-	-	RTD-HT	-	1'440'087	1'440'087
SIP	-	-	1'360'000	SIP	17'824'000	17'549'500	16'109'500
IPhD	-	-156'265	2'354'472	IPhD	15'881'857	18'583'423	15'700'438
IPP	-	-20'331	-20'331	IPP	-	3'435'371	3'435'371
BIP	-	-33'068	-22'568	BIP	-	1'843'336	1'843'336
TPdF	-	-99'856	2'013'501	TPdF	6'871'261	8'870'570	7'674'713
SpecOp	-	-15'376	697'037	SpecOp	-	3'081'959	2'636'592
IF	-	-	390'314	IF	2'097'716	2'097'716	2'097'716
IntAct	-	-	1'038'897	IntAct	659'322	2'997'528	2'053'005
MRD	-	-	6'633'972	MRD	18'587'697	18'587'696	13'335'902
Total	-	-3'603	27'357'863	Total	194'348'162	215'582'108	197'229'840

The SystemsX.ch Funds allocated and released to each partner institution are shown in *Table 13a*. In *Table 13b*, reported Own Contributions provided by each partner institution are presented.

Table 13a: Planning overview 2a: allocations and payments to SystemsX.ch partners

Year 2016	SystemsX.ch			01.01.2008 - 31.12.2016	SystemsX.ch		
	SNSF decisions	MO act. allocation	Payments		SNSF decisions	MO act. allocation	Payments
Management		600'500	600'500	Management	-	4'118'771	4'118'771
Events (without partner-events)		103'934	156'322	Events (without partner-events)	-	1'219'942	1'151'330
SNSF review & admin cost		-	200'000	SNSF review & admin cost		-	179'640
EPFL	-380'344	3'166'456	3'166'456	EPFL	-	29'162'826	26'744'385
ETHZ	-1'405'636	7'293'654	7'293'654	ETHZ	-	64'142'764	58'759'662
FMI	-320'111	471'640	471'640	FMI	-	4'496'081	4'180'374
PSI	-	105'587	105'587	PSI	-	791'925	738'920
SIB	1'341'513	971'408	971'408	SIB	-	9'398'396	8'535'281
UniBE	-58'589	1'058'763	1'058'763	UniBE	-	9'190'801	8'147'327
UniBS	11'777	2'884'486	2'884'486	UniBS	-	27'449'601	25'037'483
UniFR	47'553	619'158	619'158	UniFR	-	2'993'630	2'751'696
UniGE	-514'442	2'535'034	2'535'034	UniGE	-	16'267'398	14'676'838
UniL	28'899	1'477'956	1'477'956	UniL	-	11'646'030	10'446'969
UniNE	-	-	-	UniNE	-	162'381	162'381
USI	-	232'605	232'605	USI	-	749'877	498'594
UZH	253'242	5'282'159	5'282'159	UZH	-	32'516'121	28'814'184
ZHAW	-	184'235	184'235	ZHAW	-	847'431	346'411
IBM	-	102'600	102'600	IBM	-	307'800	205'200
others	-	15'300	15'300	others	-	120'333	117'633
RTD-HT undefined	-	-	-	RTD-HT undefined	-	-	-
Total	-	-3'603	27'357'863	Total	-	215'582'108	197'229'840

Table 13b: Planning overview 2b: allocations, reported, calculated (IPhD, IPP, BIP and TPdF) and total reported Own Contributions per partner

Year 2016	Allocation	Own Contribution			01.01.2008 - 31.12.2016	Allocation	Own Contribution		
		Actual reported	Actual calculated	Total Actual			Actual reported	Actual calculated	Total Actual
Management	400'000	458'668	-	458'668	Management	3'375'000	3'151'120	-	3'151'120
Events (without partner-events)	-	-	-	-	Events (without partner-events)	-	41'278	-	41'278
EPFL	63'000	2'563'339	662'832	3'226'171	EPFL	22'990'360	21'148'350	4'522'770	25'671'120
ETHZ	-	6'902'064	5'893'382	7'491'445	ETHZ	52'969'969	54'034'143	4'206'161	58'240'304
FMI	-245'500	538'900	-	538'900	FMI	4'698'870	5'113'042	170'671	5'283'713
PSI	-	87'963	-	87'963	PSI	833'000	727'021	56'597	783'618
SIB	-63'000	817'699	-216'545	601'154	SIB	3'749'700	6'226'167	394'595	6'620'762
UniBE	-	1'728'322	1'766'04	1'904'926	UniBE	10'304'995	8'434'583	696'484	9'131'067
UniBS	245'500	3'945'770	2'589'06	4'204'676	UniBS	29'465'398	36'435'040	1'489'378	37'924'417
UniFR	-	408'006	176'766	584'772	UniFR	2'692'729	2'872'920	534'538	3'407'458
UniGE	-	3'265'799	233'047	3'498'845	UniGE	20'158'227	20'329'265	910'644	21'239'909
UniL	70'046	1'465'641	235'475	1'701'116	UniL	12'213'672	11'827'320	748'115	12'575'434
UniNE	-	-	-	-	UniNE	100'000	301'876	-	301'876
USI	-	60'000	71'953	131'953	USI	-	92'000	194'060	286'060
UZH	-	4'939'332	719'445	5'658'777	UZH	32'047'116	33'623'077	2'359'854	35'982'931
ZHAW	-	135'503	-	135'503	ZHAW	517'000	250'223	-	250'223
IBM	-	117'900	-	117'900	IBM	356'450	225'883	-	225'883
others	-	33'375	-	33'375	others	108'000	98'125	-	98'125
Total	470'046	27'468'279	2'907'865	30'376'144	Total	196'580'486	204'931'432	16'283'867	221'215'299

2.5 3rd Party Funds

3rd Party Funds are considered in most of the tables of this report. This is private money that has been made available to SystemsX.ch research groups to augment or complement respective projects (see *Table 14*). Sponsorship for an event and fees for attending workshops, conferences, courses, etc. are also included in this category (see *Table 14*; Others).

Since FMI is a private institution funded through the Novartis Foundation, reported FMI Own Contributions are considered 3rd Party Funds/Own Contributions. IBM is also a private company that became an official partner of SystemsX.ch at the beginning of 2015, based on their activity in competitive academic-like research (ETH Zurich affiliation). However, Own Contributions reported by IBM for projects approved after October 2014 (namely MRD 2014-268) are handled in the same way as FMI OC's and hence regarded as 3rd Party Funds/Own Contributions. FMI and IBM reported the acquisition of CHF 0.7 million, and all other partners reported a total of CHF 1.4 million for 2016 (see *Table 14*).

Please note that in the financial reports 2012–2014 the Own Contributions reported from the FMI were shown in both categories Own Contributions and 3rd Party Funds.

Table 14: 3rd Party Fund contributions for SystemsX.ch reported for 2016 and cumulated for 2008–2016

3 rd Party Funds reported										
Year 2016	Year 2008	Year 2009	Year 2010	Year 2011	Year 2012	Year 2013	Year 2014	Year 2015	Year 2016	Total 2008-2016
	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported	Reported
RTD	-	293'205	5'024'854	2'427'174	1'018'098	463'419	801'516	703'505	716'703	11'448'474
RTD-HT	-	-	-	-	-	-	-	-	-	-
SIP	-	-	20'120	40'495	-	-	-	-	-	60'615
IPhD	-	-	-	-	-	-	-	155'073	115'731	270'804
JPP	-	-	-	-	-	38'500	-	-	-	38'500
BIP	-	-	-	250'300	663'115	205'940	-	-	-	1'119'355
TF	-	-	-	-	-	146'138	746'805	488'586	529'688	1'911'217
TPdF	-	-	-	-	-	-	-	-	-	-
SpecOpp	-	-	-	-	-	-	-	-	-	-
IntAct	-	-	-	-	-	-	-	-	-	-
MRD	-	-	-	-	-	-	-	52'000	-	52'000
Others	-	-	19'924	47'590	237	-237	91'772	55'438	23'871	238'595
<i>Total (all partner institutions excluding FMI and part of IBM)</i>	-	293'205	5'064'898	2'765'559	1'681'450	853'760	1'640'093	1'454'602	1'385'993	15'139'561
3rd Party Funds/Own Contributions (FMI and IBM)										
Various projects (FMI only)	-	241'838	788'955	814'297	723'081	787'475	778'067	611'100	538'900	5'283'713
Projects approved from Nov. 2014 onwards (IBM only)	-	-	-	-	-	-	-	107'983	117'900	225'883
<i>Total FMI and IBM</i>	-	241'838	788'955	814'297	723'081	787'475	778'067	719'083	656'800	5'509'596
<i>Total all projects (FMI and IBM included)</i>	-	535'043	5'853'853	3'579'856	2'404'531	1'641'235	2'418'160	2'173'685	2'042'793	20'649'157

2.6 2nd Party Funds

SystemsX.ch enables research groups to increase their knowledge and experience in systems biology research. Clearly, most research groups also apply for other (mostly public) competitive research grants such as SNSF, CTI, European Commission, ERC, ESF and NIH, etc. Such projects might be synergetic and/or complementary to the SystemsX.ch projects. However, these projects do not overlap. SystemsX.ch has been asked to report additionally on such projects.

Table 15 shows an overview of the reported 2nd Party Funds, which added up to CHF 2.7 million in 2016 (2015: CHF 1.6 million, 2014: CHF 1.3 million, 2013: CHF 3.1 million, 2012: CHF 5.3 million, 2011: CHF 8.1 million, 2010: CHF 9.2 million, 2009: CHF 1.6 million, 2008: CHF 1.3 million).

Table 15: 2nd Party Fund contributions for SystemsX.ch reported for 2016 and 2008–2016

2 nd Party Funds repored				
Year 2016		Institution	Second P 2016 Reported	Total 2008-2016 Reported
2008-001	PhosponetX	ETHZ		5'230'973
2008-002	LiverX	UZH		82'500
2008-003	WingX	ETHZ		1'590'745
2008-003	WingX	UZH		499'776
2008-004	PlantGrowth	ETHZ		1'804'610
2008-004	PlantGrowth	UniBE		491'026
2008-004	PlantGrowth	UniFR		60'980
2008-004	PlantGrowth	UniGE		60'934
2008-004	PlantGrowth	UniL		495'180
2008-004	PlantGrowth	UniNE		138'750
2008-004	PlantGrowth	UZH		317'270
2008-006	YeastX	ETHZ		2'700'379
2008-006	YeastX	UniBas		761'000
2008-007	Neurochoice	UniBE		400'720
2008-007	Neurochoice	UZH		1'798'202
2008-008	LipidX	EPFL		1'015'280
2008-008	LipidX	ETHZ		94'740
2008-008	LipidX	UniGE		765'781
2008-008	LipidX	UniL		192'171
2008-013	SyBIT	ETHZ		928'883
2009-004	BattleX	ETHZ		163'091
2009-004	BattleX	UZH		495'773
2009-005	InfectX	ETHZ		443'012
2009-005	InfectX	UniBas		704'699
2009-006	CINA	ETHZ		132'000
2009-006	CINA	UniBas		204'207
2009-007	CellPlasticity	FMI		698'439
2009-007	CellPlasticity	UniBas		1'177'300
2009-008	CycliX	EPFL		251'947
2009-008	CycliX	UniGE		1'800'564
2009-009	MetaNetX	EPFL		66'150
2009-009	MetaNetX	ETHZ		369'425
2009-009	MetaNetX	SIB		95'000
2012-141	IPhD	ETHZ		47'249
2012-191	PhospoNetX PPM	ETHZ	210'400	1'854'280
2012-192	TubeX	ETHZ	164'166	402'173
2012-192	TubeX	PSI	46'316	91'051
2012-193	AbtibodyX	UZH	45'620	86'905
2012-193	AbtibodyX	ETHZ	53'119	136'009
2012-194	NeuroStemX	UniBas	45'194	70'744
2012-195	StoNets	UniBas		295'584
2012-202	MecanX	ETHZ		316'704
2012-203	PlantGrowth_2	UniBE	165'764	408'383
2012-203	PlantGrowth_2	UniL		30'807
2012-205	SynaptiX		51'306	51'306
2012-206	LipidX_2	EPFL	38'000	426'631
2012-206	LipidX_2	UniGE	79'917	358'385
2012-210	SyBIT_2	ETHZ		158'426
2012-210	SyBIT_2	UZH		14'167
2013-143	TPdF	EPFL	86'362	224'305
2013-150	MERIC	UniBas	42'000	84'000
2013-151	MorphogenetiX	UZH	118'398	232'098
2013-152	TargetInfectX	ETHZ	129'611	355'366
2013-152	TargetInfectX	UniBas	210'000	373'580
2013-154	TbX	ETHZ	479'167	617'500
2013-156	SignalX	ETHZ	194'500	194'500
2013-157	HostPathX	UZH		43'758
2014-261	AneuX	UniGE	133'294	133'294
2014-266	StemSysMed MRD	ETHZ		29'408
2014-267	HDL-X	ETHZ	285'000	285'000
2014-267	HDL-X	UZH	63'585	63'585
2014-268	MetastasiX MRD	UniBas	49'875	184'875
2014-269	MetastasiX MRD	FMI	25'380	25'380
2009-062	BIP	ETHZ		84'958
2010-098	BIP	ETHZ		93'239
2010-101	BIP	UniBas		84'689
2010-066	IPhD	UZH		10'000
2010-071	IPhD	ETHZ		23'900
2014-248	IPhD	ETHZ		55'875
ERASysAPP		SystemsX.ch	22'792	414'074
Total			2'739'766	34'393'692

3. Overview of SystemsX.ch Fund “Clusters”

As agreed with the SNSF, the SystemsX.ch financial report shows the expenses from various perspectives in order to document how the funds are spent each year. In *Table 16*, all budgeted and expended funds for 2016 are given according to project type, including the MO and SNSF service fee each as a separate item. The amounts budgeted and reported in 2016 (see “Budget”, “Reported” and “Delta %” columns in tables) differ by an over expenditure of +3% (2015: under expenditure of -8%, 2014: under expenditure of -7%, 2013: under expenditure of -7%, 2012: over expenditure of +10%, 2011: under expenditure of -14%, 2010: under expenditure of -14%, 2009: under expenditure of -20%). Overall, the initiative has a significant surplus of 11% (2015: 13%, 2014: 13%, 2013: 15%, 2012: 16%, 2011: 22%, 2010: 26%, 2009: 39%). The Own Contributions are highest for the RTD Projects since the partners are required to make them available. OCs for the MO are in the form of annual fees from the partner institutions.

The amount of reported OCs is higher than the total amount of received Federal Funds. Herewith the legal requirement of a ratio of at least 1:1 is fulfilled. A total of CHF 221.2 million in Own Contributions was reported over the period 2008-2016.

Table 16: Overview I: Funding categories per project type (incl. Management Office, Events, SNSF)

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Management	128'500	600'500	560'661	336	400'000	458'668	15	-	1'019'329
Events (alle Events)	411'500	171'822	225'492	-45	-	-	-	23'871	249'363
SNSF rev & adm cost	200'000	200'000	200'000	-	-	-	-	-	200'000
RTD	13'442'336	11'940'247	12'516'557	-7	14'222'321	16'843'095	18	716'703	30'076'355
RTD-HT	-	-	-752	-	-	752	-	-	-
SIP	1'360'000	1'360'000	1'120'988	-18	-	485'063	-	-	1'606'052
IPhD	1'675'713	2'354'472	2'481'457	48	-	2'554'834	-	115'731	5'152'021
IPP	-	-20'331	-154'577	-	-	31'330	-	-	-123'247
BIP	-	-22'568	-4'593	-	-	46'670	-	-	42'077
TF	315'628	390'314	450'682	43	331'553	490'716	48	529'688	1'471'086
TPdF	964'797	2'013'501	2'403'241	149	-	1'135'438	-	-	3'538'678
SpecOpp	692'413	697'037	836'697	21	951'600	850'698	-11	-	1'687'395
IntAct	921'762	1'038'897	750'341	-19	-	351'121	-	-	1'101'461
MRD	6'633'972	6'633'972	6'233'252	-6	7'047'273	7'127'760	1	-	13'361'012
Total	26'746'622	27'357'863	27'619'445	3	22'952'747	30'376'144	32	1'385'993	59'381'582

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Management	5'689'500	4'118'771	4'390'063	-23	3'375'000	3'151'120	-7	34'135	7'575'318
Events (alle Events)	1'441'500	1'441'568	1'428'961	-1	-	41'278	-	204'460	1'674'699
SNSF rev & adm cost	1'801'000	1'796'400	1'796'400	-0	-	-	-	-	1'796'400
RTD	126'395'039	123'546'441	116'533'205	-8	156'822'947	172'176'452	10	11'448'474	300'158'131
RTD-HT	6'000'000	1'440'087	1'440'087	-76	828'000	421'183	-49	-	1'861'270
SIP	16'144'000	16'109'500	16'117'468	-0	2'403'000	5'913'396	146	60'615	22'091'478
IPhD	14'778'942	15'700'438	14'790'716	0	-	15'293'636	-	270'803	30'355'155
IPP	3'499'178	3'435'371	3'416'827	-2	513'700	2'355'178	358	38'500	5'810'505
BIP	1'882'242	1'843'336	1'843'335	-2	1'695'800	1'420'422	-16	1'119'355	4'383'112
TF	2'097'716	2'097'716	1'863'850	-11	1'713'389	1'399'539	-18	1'911'217	5'174'607
TPdF	6'745'464	7'674'713	6'728'455	-0	-	3'905'671	-	-	10'634'126
SpecOpp	2'729'635	2'636'592	2'285'947	-16	1'299'100	1'722'360	33	-	4'008'307
IntAct	2'252'912	2'053'005	1'355'233	-40	-	985'976	-	-	2'341'209
MRD	13'335'902	13'335'902	9'299'022	-30	15'952'215	12'429'087	-22	52'000	21'780'109
Total	204'793'029	197'229'840	183'289'567	-11	184'603'151	221'215'299	20	15'139'561	419'644'427

Reported funds (SystemsX.ch and Own Contributions) are split into six cost types: (a) personnel, (b) consumables, (c) miscellaneous, (d) equipment, (e) infrastructure, (f) various (for more information see Appendix A1.1).

Table 17 shows how SystemsX.ch Funds and Own Contributions were spent according to these defined categories. The tables and figures reveal that in 2016, as in previous years, most funds were used for personnel (see *Figure 7* and *Figure 8*). *Figure 7* illustrates the reported SystemsX.ch Funds according to cost type and *Figure 8* the reported Own Contributions according to cost type.

Table 17: Overview II: Funding category per cost type

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	21'016'772	21'504'647	22'018'929	5	21'369'626	26'872'885	26	375'038	49'266'852
Consumables	5'117'603	5'276'493	4'152'110	-19	139'600	1'328'833	852	63'622	5'544'565
Miscellaneous	615'332	368'939	1'238'302	101	-	570'760	-	121'028	1'930'089
Equipment	55'650	203'160	210'105	278	1'431'521	1'614'265	13	-	1'824'369
Infrastructure	-	-	-	-	12'000	-10'598	-188	-	-10'598
Various	-58'736	4'624	-	-100	-	-	-	826'305	826'305
Total	26'746'622	27'357'863	27'619'445	3	22'952'747	30'376'144	32	1'385'993	59'381'582

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	146'065'361	144'049'012	135'899'914	-7	143'300'394	167'799'643	17	2'284'054	305'983'611
Consumables	36'216'336	32'701'684	27'315'788	-25	7'255'531	12'251'405	69	168'777	39'735'970
Miscellaneous	7'811'135	8'555'685	8'975'194	15	3'126'903	5'242'118	68	157'028	14'374'339
Equipment	13'507'883	10'117'458	10'460'905	-23	14'595'408	23'800'812	63	214'295	34'476'012
Infrastructure	-	-	-	-	16'324'914	12'020'700	-26	-	12'020'700
Various	1'192'314	1'806'001	637'766	-47	-	100'621	-	12'315'406	13'053'794
Total	204'793'029	197'229'840	183'289'567	-11	184'603'151	221'215'299	20	15'139'561	419'644'427

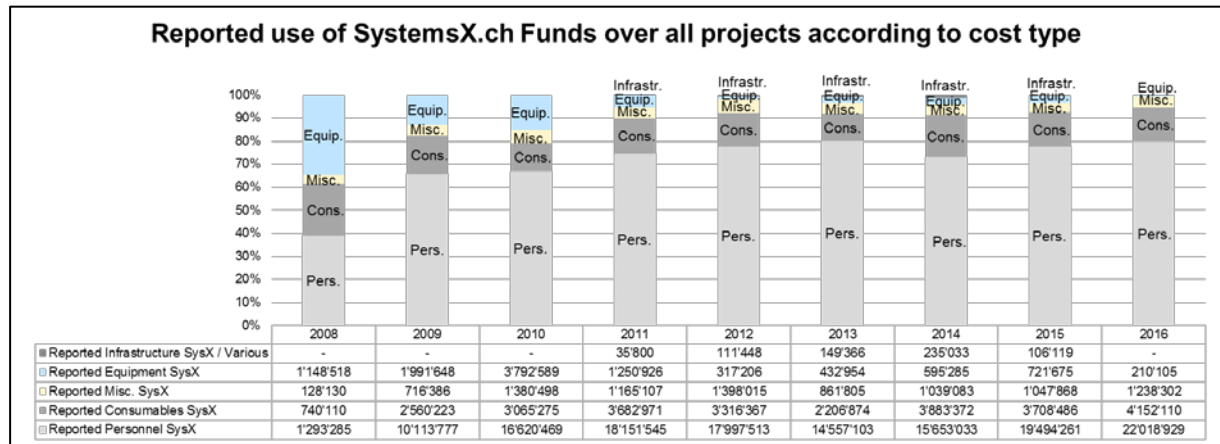


Figure 7: Overview of reported use of SystemsX.ch Funds over all projects according to cost type as a percentage and in CHF

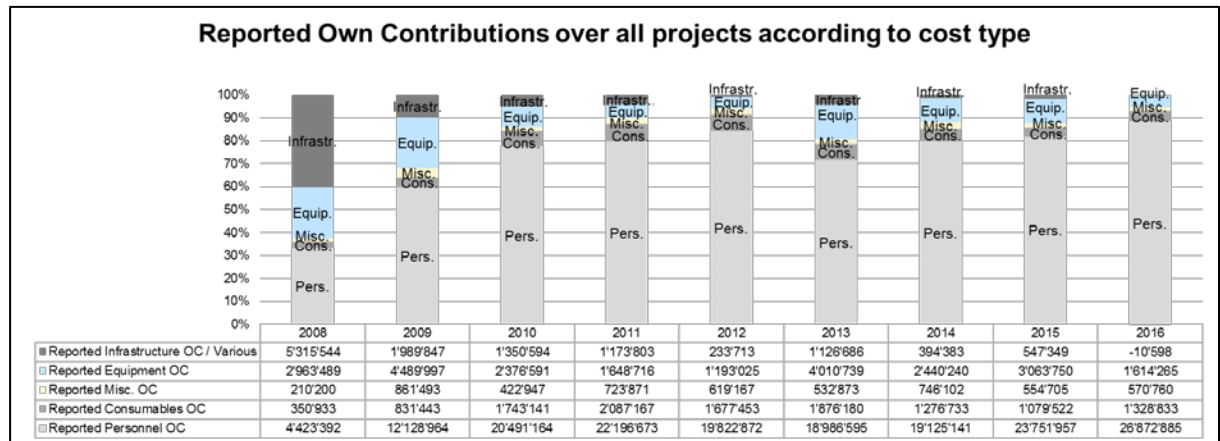


Figure 8: Overview of reported Own Contributions over all projects according to cost type as a percentage and in CHF

Figure 9 illustrates the reported use of SystemsX.ch Funds and the use of reported Own Contributions in percent and by cost type (all expenditures) for 2008–2016. As can be seen, both SystemsX.ch Funds and Own Contributions reported the highest use for the cost type personnel.

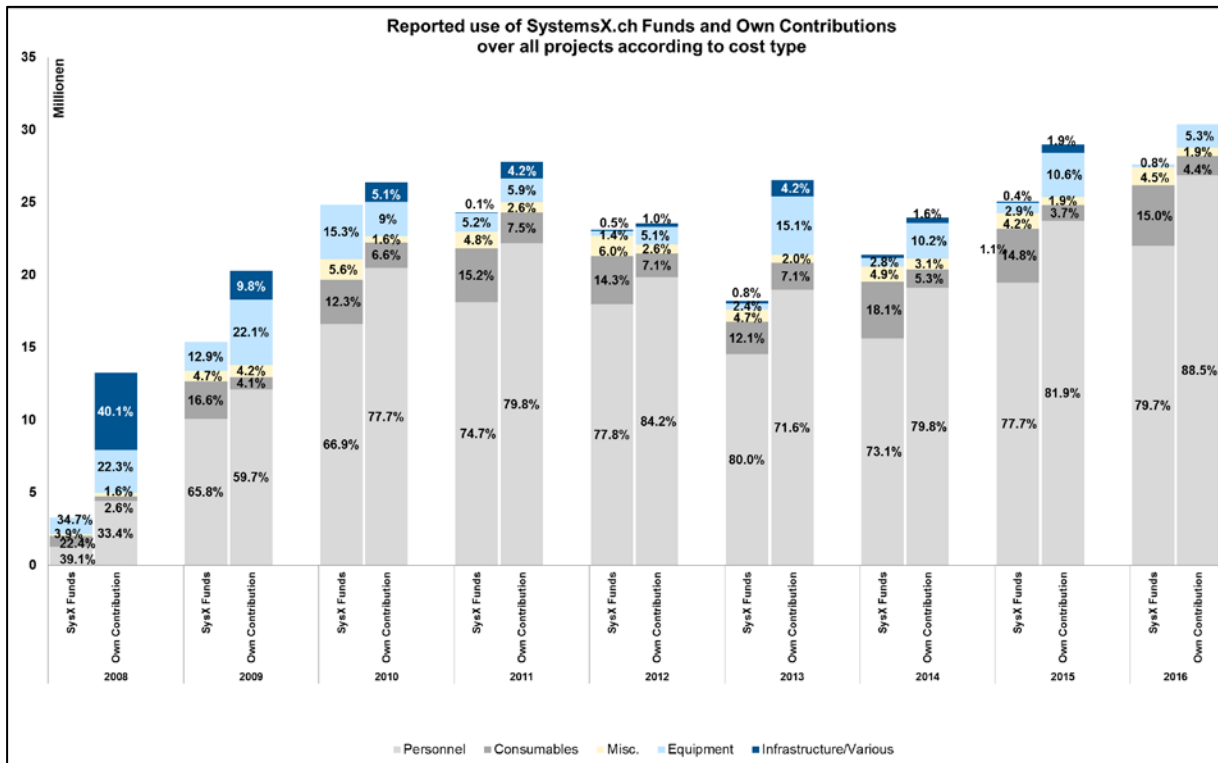


Figure 9: Reported use of SystemsX.ch Funds and Own Contributions over all projects (including MO, SNSF and Events) according to cost type as a percentage for 2008–2016

3.1 SystemsX.ch Management Office

Overall the MO has managed to remain small and cost-effective. With overall costs of about CHF 1.0 million (actual 2016: CHF 1'019'329, 2015: CHF 959'439, 2014: CHF 928'151, 2013: CHF 904'417, 2012: CHF 794'694, 2011: CHF 774'530, 2010: CHF 576'174, 2009: CHF 873'411, 2008: CHF 711'039) including personnel (5.6 FTE), consumables, miscellaneous, equipment and the costs of the SAB site visits (2008–2013). The MO has not experienced unnecessary expansion and has been able to deliver reasonably. For a financial overview of the MO please refer to chapter 2.3 (Table 8). Please note that this amount is the sum of reported SystemsX.ch Funds plus the Own Contributions (membership fees from SystemsX.ch partner institutions).

3.2 Events (EV/ES)

Originally, all costs for supporting events were planned under the Management Office. It turned out to be more transparent to create a separate category called Events. Internally, there is a distinction between EV: Events organized/co-organized by the MO, and ES: Events organized by others but sponsored or supported by SystemsX.ch. Requests to support a conference, workshop, etc. are discussed and decided on by the SEB or a delegated committee. In 2016, a total of CHF 171'822 was paid out for Events (2015: CHF 92'041, 2014: CHF 288'798, 2013: CHF 173'754, 2012: CHF 218'755, 2011: CHF 260'398, 2010: CHF 236'000), see Figure 10. For a financial overview of the events, please refer to chapter 2.3 (Table 9).

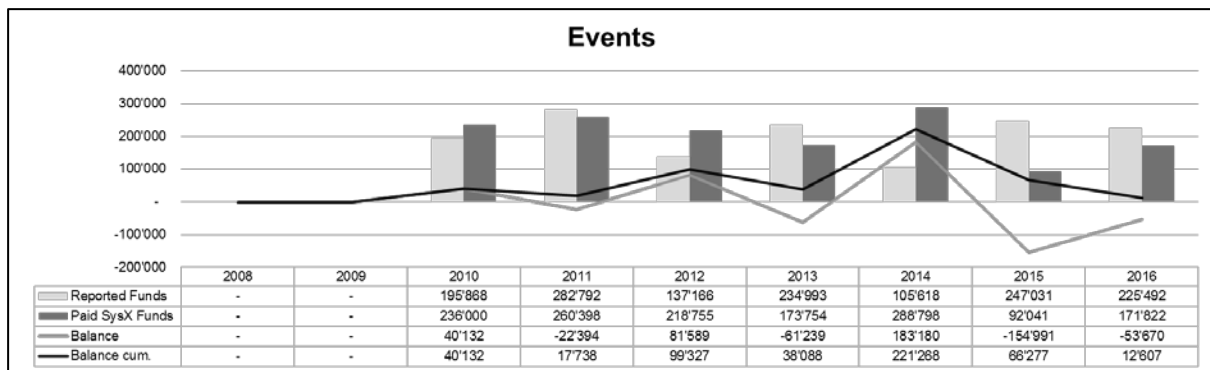


Figure 10: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for Events in CHF

3.3 SNSF-Review Panel (Service SNSF)

The SNSF is responsible for evaluating the quality of SystemsX.ch as a whole, but also for evaluating, deciding upon and reviewing the submitted proposals and approved RTD, MRD, TF, TPdF and IPdD Projects. This service is paid for according to an agreement from May 2007. In 2016, the fee for this service amounted to CHF 200'000 (2015: CHF 200'000, 2014: CHF 200'000, 2013: CHF 200'000, 2012: CHF 200'000, 2011: CHF 142'400, 2010: CHF 215'000, 2009: CHF 147'000, 2008: CHF 292'000), which gives a total of CHF 1'796'400 for the period 2008–2016. This fee was held back by the SNSF when the ETH-Board and SUC payments for 2016 were transferred to the SystemsX.ch open account. As agreed by the SNSF, the service fee for 2016 was the last one to be paid. For a financial overview of the SNSF please refer to chapter 2.3, *Table 10*.

3.4 SystemsX.ch Partner Institutions

Figure 11 illustrates the SystemsX.ch Funds paid out to each partner institution since 2008. Please note that next to the number of approved projects, the fact that some partners joined SystemsX.ch subsequent to the beginning of the initiative (i.e. UniNE joined in 2010, USI in 2013 with the first payment in 2014, IBM in 2014 and ZHAW in 2015, both with the first payment in 2015) has to be taken into account, and that this has an effect on this figure (see also Appendix 3).

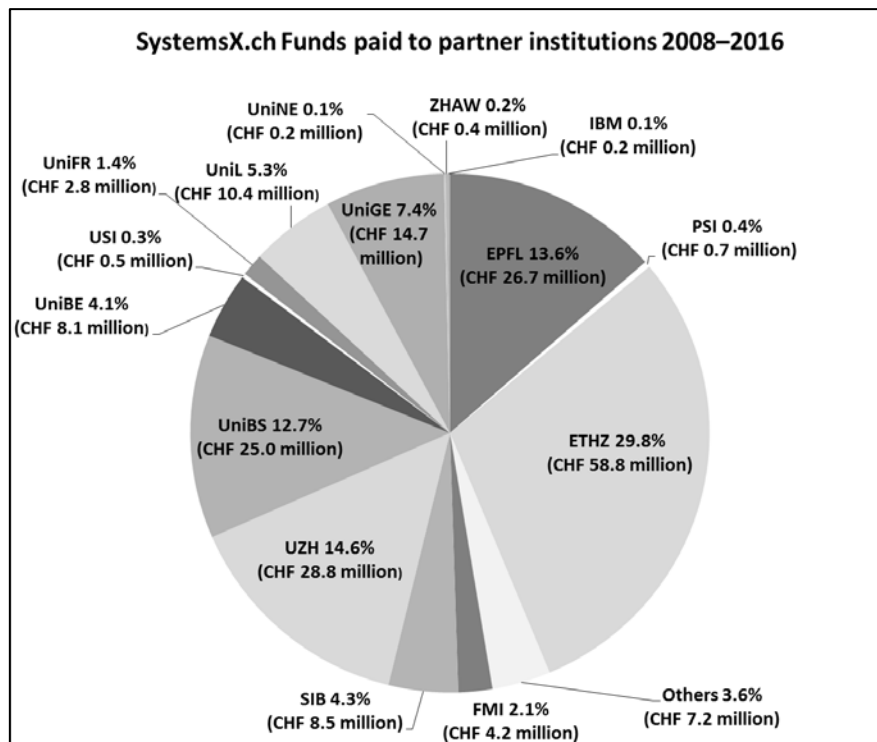


Figure 11: SystemsX.ch Funds paid out to each partner institution as a percentage and in CHF, 2008–2016 (100% = CHF 197.2 million)

3.5 Research, Technology and Development Projects (RTD)

In 2016, all RTD Projects granted in 2012 and 2013 were in operation. Some of the RTD Projects granted in 2008 and 2009 reported only for previous financial periods (WingX, PlantGrowth, LipidX, InfectX, CINA and MetanetX) except CycliX, which reported for the previous and current financial periods. MetanetX was completed without having fully used the allocated budget. LiverX was the project that finished earliest, in 2012 (see *Table 18a* and *Table 18b*). Further invoices will need to be sent for the return of unspent funds.

The RTD Projects granted in 2012 received their fourth payments (85% of budget 2016 only, the remaining 15% will be released after all reporting is done), and those approved in 2013 received their third payments.

As far as the current reporting period is concerned, more funds have been reported than paid out in 2016 (see *Figure 12*). The reasons for this are likely manifold. One of the main reasons might be that about 50% of the projects granted in 2012 and 2013 used more funds than received in 2016. In addition, the use of SystemsX.ch Funds for previous years was implemented in the current report. Nevertheless there were also projects that had to return unspent funds (decrease of “paid SystemsX.ch Funds”), However this might be leveled out by the fact that some projects reported excesses, which also has an influence on the total paid out SystemsX.ch Funds, since the excess was shifted to Own Contribution and therefore reduces the reported SystemsX.ch Funds, as can be seen in *Table 18a*.

Although half of the fully active RTDs used more funds than they received in 2016, less funds were used compared to the previous year. The unreported amount decreased in 2016, and contributes to a cumulative unreported amount of CHF 7'013'236 (see *Figure 12* and *Table 18a*).

The major cost type is still personnel, as for nearly all previous years (see *Figure 13*).

Six RTD Projects were asked to return unspent funds. Hence seven scientific project groups received invoices in order to return a total of CHF 308'409 in unspent funds.

Only one project (RTD 2008-006) shows the status "project closed".

Please note: The budget for all RTDs approved in 2008 and 2009 was cut in 2011, hence the column "Budget" indicates the original amount that was granted, and the column "Paid" shows what was actually available and paid out. Most of these RTDs received all available funds (see Table 18b).

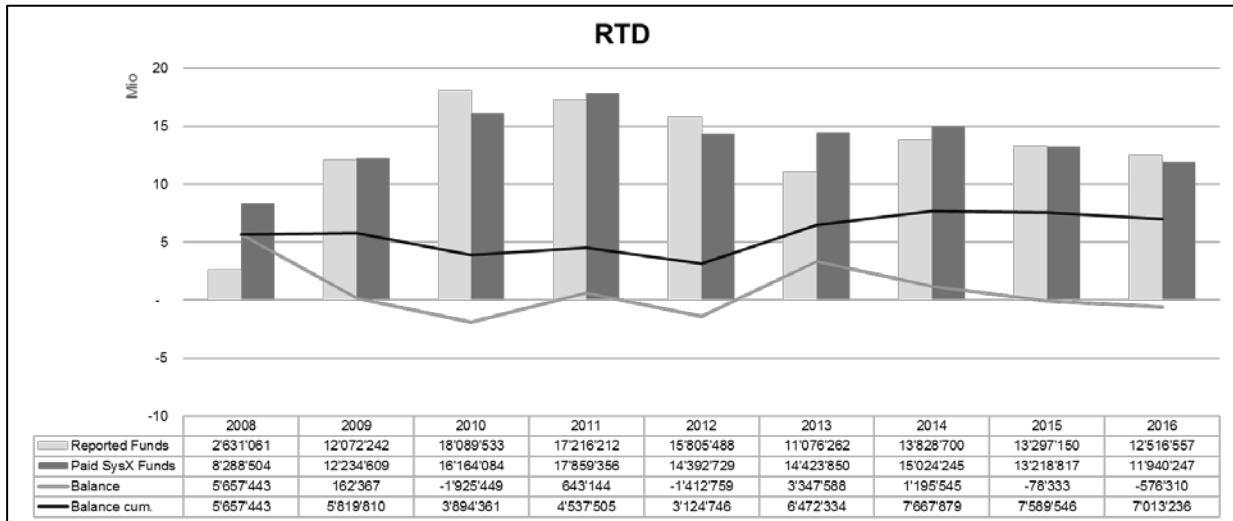


Figure 12: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for RTDs in CHF

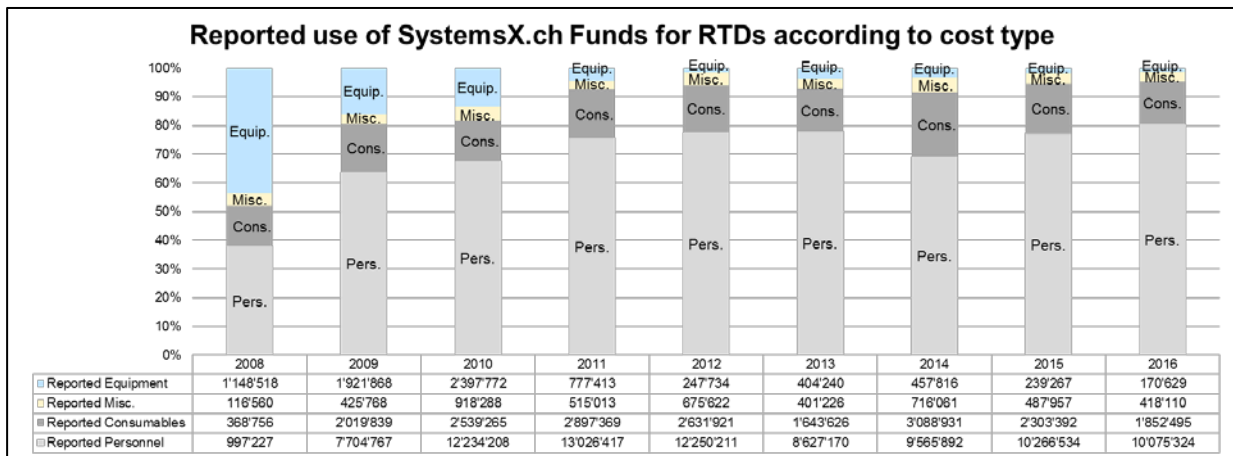


Figure 13: Overview of reported use of SystemsX.ch Funds for RTDs according to cost type as a percentage and CHF

As far as Own Contributions are concerned, all the RTDs from 2008 and 2009 reported more than required. The RTDs from 2012 and 2013 are on track. Although some of those RTDs reported fewer OCs than planned. This is in agreement with the reported SystemsX.ch Funds, which were of the same magnitude as the released funds (see Table 18a and Table 18b).

Table 18a: All approved RTD Projects resources allocated and reported in 2016

RTD projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-001 PhosphoNetX	-	-	-4'922	-	-	4'922	-	-	-
2008-002 LiverX	-	-	-	-	-	-	-	-	-
2008-003 WingX	-	-	95'102	-	-	181'843	-	-	276'945
2008-004 Plant Growth	-	-	30'000	-	-	-	-	-	30'000
2008-005 Dynamix	-	-	-56'103	-	-	56'103	-	-	-
2008-006 YeastX	-	-	-	-	-	-	-	-	-
2008-007 Neurochoice	-	-108	-104'138	-	-	104'138	-	-	-
2008-008 LipidX	-	-2'516	1'800	-	-	-	-	-	1'800
2009-004 BattleX	-	-3'137	-111	-	-	111	-	-	-
2009-005 InfectX	-	-1'272	-1'404	-	-	86'657	-	-	85'253
2009-006 CINA	-	-	-43'561	-	-	45'290	-	-	1'729
2009-007 Cell Plasticity	-	-301'248	-	-	-	-	-	-	-
2009-008 Cyclix	-	135'879	88'197	-	-	-	-	-	88'197
2009-009 MetaNetX	-	-128	-8'295	-	-	15'308	-	-	7'013
2012-191 PhosphoNet_PPM	728'000	618'800	795'130	9	1'019'700	1'219'118	20	130'000	2'144'247
2012-192 TubeX	589'652	501'204	467'026	-21	362'894	484'874	34	-	951'907
2012-193 AntibodyX	357'515	303'887	377'467	6	268'980	510'409	90	147'463	1'035'338
2012-194 NeuroStemX	716'132	531'526	622'563	-13	611'300	794'119	30	-	1'416'682
2012-195 StoNets	694'400	562'190	643'632	-7	748'429	764'947	2	-	1'408'579
2012-201 SysGenetIX	561'000	476'850	960'834	71	741'000	730'746	-1	-	1'691'580
2012-202 MecanX	411'917	350'130	411'514	-0	458'000	386'011	-16	30'000	827'525
2012-203 Plant Growth_2	747'469	348'727	800'226	7	878'500	967'105	10	136'334	1'903'665
2012-204 EpiPhysX	724'425	615'761	844'267	17	840'000	1'103'007	31	-	1'947'273
2012-205 Synaptix	407'800	346'630	333'829	-18	558'000	725'317	30	56'103	1'115'249
2012-206 LipidX_2	641'820	727'070	772'370	20	1'112'000	1'293'349	16	3'970	2'069'689
2013-150 MERIC	698'276	698'276	474'504	-32	785'000	1'053'860	34	-	1'528'364
2013-151 MorphogenetIX	753'600	753'600	625'924	-17	529'500	733'990	39	-	1'359'914
2013-152 TargetinfectIX	751'380	751'380	534'097	-29	867'500	1'016'945	17	-	1'551'042
2013-153 AqinqX	836'320	836'320	677'356	-19	781'601	945'092	21	-	1'622'447
2013-154 TbX	759'000	759'000	746'449	-2	742'250	1'014'582	37	212'833	1'973'864
2013-155 MalarX	722'600	566'489	553'459	-23	831'000	399'823	-52	-	953'282
2013-156 SignalX	817'442	907'442	592'065	-28	707'000	891'245	26	-	1'483'311
2013-157 HostPathX	729'742	663'649	613'996	-16	745'167	692'207	-7	-	1'306'203
2013-158 MicroScapesX	793'846	793'846	673'284	-15	634'500	621'979	-2	-	1'295'263
Total	13'442'336	11'940'247	12'516'557	-7	14'222'321	16'843'095	18	716'703	30'076'355

Table 18b: All approved RTD Project resources allocated and reported in 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-001 PhosphoNetX	5'605'000	5'583'488	5'583'490	-0	5'790'400	6'748'259	17	3'317'926	15'649'675
2008-002 LiverX	6'155'000	6'124'225	6'188'150	1	7'155'524	7'501'496	5	137'000	13'826'646
2008-003 WingX	6'791'000	6'765'283	6'765'283	-0	10'307'833	10'842'041	5	1'226'386	18'833'710
2008-004 Plant Growth	6'956'003	6'924'470	7'065'393	2	9'986'593	11'249'367	13	965'863	19'280'623
2008-005 Dynamix	2'833'500	2'822'520	2'822'520	-0	3'049'000	3'720'600	22	-	6'543'120
2008-006 YeastX	6'371'000	6'341'080	6'341'034	-0	6'775'400	7'715'096	14	1'929'318	15'985'448
2008-007 Neurochoice	6'445'900	6'418'813	6'418'814	-0	9'168'501	9'932'432	8	-	16'351'246
2008-008 LipidX	9'608'001	9'564'795	9'516'911	-1	14'070'371	14'902'813	6	84'374	24'504'098
2009-004 BattleX	4'999'222	4'951'414	4'951'414	-1	5'778'120	6'598'056	14	225'731	11'775'201
2009-005 InfectX	5'000'000	4'973'728	5'017'328	0	5'970'718	8'055'331	35	315'961	13'388'620
2009-006 CINA	3'999'999	3'980'001	3'980'001	-0	6'286'093	11'523'498	83	449'037	15'952'536
2009-007 Cell Plasticity	5'000'224	4'673'975	4'673'974	-7	5'766'000	6'757'112	17	136'900	11'567'986
2009-008 Cyclix	4'500'346	4'477'844	4'477'843	-1	5'265'226	6'216'480	18	50'000	10'744'323
2009-009 MetaNetX	4'000'000	3'833'372	3'833'373	-4	4'287'687	4'693'539	9	187'485	8'714'397
2012-191 PhosphoNet_PPM	3'000'000	2'890'800	3'045'016	2	4'058'800	4'634'653	14	194'827	7'874'496
2012-192 TubeX	2'000'000	1'802'925	1'542'759	-23	2'543'949	2'016'832	-21	32'500	3'592'091
2012-193 AntibodyX	1'379'000	1'325'372	1'154'572	-16	1'423'430	1'766'826	24	496'708	3'418'106
2012-194 NeuroStemX	3'000'000	2'815'394	2'356'009	-21	3'442'218	4'584'377	33	191'650	7'132'036
2012-195 StoNets	3'000'000	2'900'790	2'592'695	-14	3'168'913	3'255'023	3	-	5'847'718
2012-201 SysGenetIX	3'000'000	2'915'850	2'676'947	-11	3'024'000	2'436'219	-19	-	5'113'165
2012-202 MecanX	1'940'000	1'878'213	1'580'465	-19	2'348'633	2'231'335	-5	337'795	4'149'595
2012-203 Plant Growth_2	2'994'000	2'595'258	2'359'642	-21	3'514'000	3'290'795	-6	504'600	6'155'037
2012-204 EpiPhysX	2'892'000	2'783'336	2'409'327	-17	4'076'600	3'645'835	-11	-	6'055'163
2012-205 Synaptix	1'975'000	1'913'830	1'218'439	-38	2'089'450	2'001'519	-4	110'602	3'330'560
2012-206 LipidX_2	3'000'000	2'871'694	2'867'770	-4	5'416'665	6'150'983	14	15'312	9'034'065
2013-150 MERIC	1'929'165	1'929'165	1'195'475	-38	2'355'000	2'173'076	-8	-	3'368'551
2013-151 MorphogenetIX	2'239'500	2'239'500	1'763'868	-21	2'713'500	1'977'394	-27	-	3'741'262
2013-152 TargetinfectIX	2'259'650	2'259'650	2'160'240	-4	2'711'195	2'888'143	7	-	5'048'383
2013-153 AqinqX	2'350'608	2'350'608	1'747'839	-26	2'218'081	2'245'167	1	-	3'993'006
2013-154 TbX	2'260'000	2'260'000	1'796'735	-20	2'327'000	2'294'636	-1	274'500	4'365'872
2013-155 MalarX	2'117'844	1'952'315	1'704'576	-20	2'572'000	1'386'099	-46	-	3'090'675
2013-156 SignalX	2'441'356	2'012'904	1'529'677	-37	2'386'000	2'410'732	-1	264'000	4'204'409
2013-157 HostPathX	2'290'258	2'352'365	1'825'711	-20	2'643'740	2'346'118	-11	-	4'171'829
2013-158 MicroScapesX	2'061'463	2'061'463	1'369'918	-34	2'132'307	1'984'569	-7	-	3'354'487
Total	126'395'039	123'546'441	116'533'205	-8	156'822'947	172'176'452	10	11'448'474	300'158'131

Table 19 shows what cost types SystemsX.ch Funds and OCs were used for. As already observed in the overall summary, the vast majority of resources were used for personnel in 2016.

Table 19: Consolidation of all approved RTD Projects resources split according to cost types and funding categories

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	10'793'997	9'390'952	10'075'324	-7	13'780'842	15'022'249	9	30'000	25'127'573
Consumables	2'302'375	2'424'315	1'852'495	-20	43'000	739'346	1'619	-	2'591'842
Miscellaneous	365'700	-56'876	418'110	14	-	440'526	-	-	858'636
Equipment	39'000	181'856	170'629	338	398'479	672'862	69	-	843'491
Infrastructure	-	-	-	-	-	-31'889	-	-	-31'889
Various	-58'736	-	-	-100	-	-	-	686'703	686'703
Total	13'442'336	11'940'247	12'516'557	-7	14'222'321	16'843'095	18	716'703	30'076'355

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	91'547'634	89'025'534	84'747'749	-7	122'271'653	127'330'475	4	223'500	212'301'724
Consumables	22'810'208	22'157'355	19'345'594	-15	6'748'931	9'579'927	42	-	28'925'521
Miscellaneous	6'045'522	5'643'252	4'674'605	-23	2'937'403	4'150'833	41	-	8'825'438
Equipment	6'167'883	6'720'300	7'765'256	26	10'505'658	19'655'583	87	97'795	27'518'635
Infrastructure	-	-	-	-	14'359'301	11'459'634	-20	-	11'459'634
Various	-176'208	-	-	-100	-	-	-	11'127'179	11'127'179
Total	126'395'039	123'546'441	116'533'205	-8	156'822'947	172'176'452	10	11'448'474	300'158'131

3.6 High-Tech Funds (RTD-HT)

The SEB approved High-Tech Funds (RTD-HT) for RTD Projects in 2008, 2010, and 2012. Table 20a and Table 20b show all approved and reported RTD-HTs since 2008. After 2012, RTD-HTs were abandoned and replaced by Special Opportunity Funds (SpecOpp).

All the released funds for RTD-HTs were used and reported by the end of 2015. All RTD-HT Projects but one show the status “project closed”. This remaining project reported CHF 752 as excess funds, which is regarded as additional Own Contributions and must therefore be moved and reported in the current financial report as additional OCs (seen in Figure 14 and Table 20a).

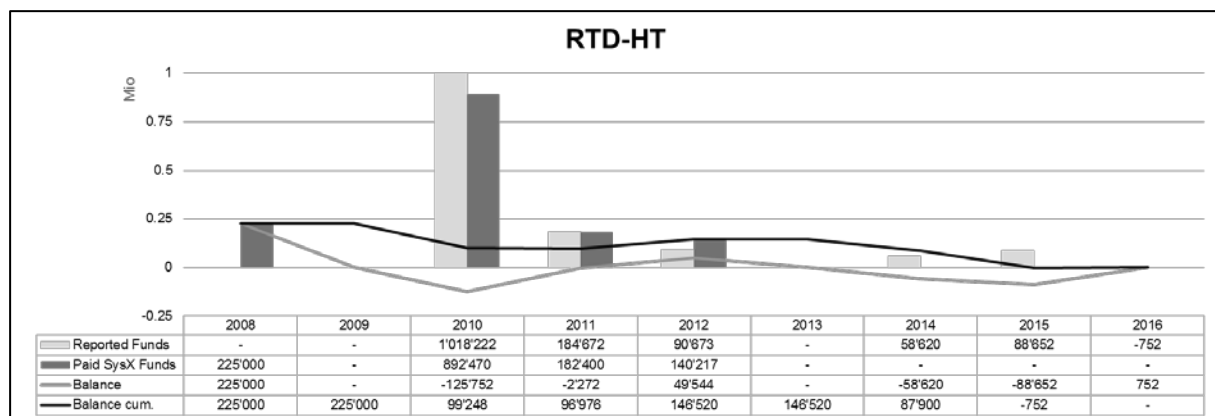


Figure 14: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for RTD-HTs in CHF

Table 20a: Overview of RTD-HT grants and how they were reported

RTD-HT projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-HT HT planning	-	-	-	-	-	-	-	-	-
2008-001-HT PhosphoNetX-HT	-	-	-752	-	-	752	-	-	-
2008-003-HT WingX-HT	-	-	-	-	-	-	-	-	-
2008-004-HT PlantGrowth-HT	-	-	-	-	-	-	-	-	-
2008-007-HT Neurochoice-HT	-	-	-	-	-	-	-	-	-
2008-008-HT LipidX-HT	-	-	-	-	-	-	-	-	-
2009-005-HT InfectX-HT	-	-	-	-	-	-	-	-	-
2009-006-HT CINA-HT	-	-	-	-	-	-	-	-	-
Total	-	-	-752	-	-	752	-	-	-

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-HT HT planning	6'000'000	-	-	-100	828'000	-	-100	-	-
2008-001-HT PhosphoNetX-HT	-	150'000	150'000	-	-	752	-	-	150'752
2008-003-HT WingX-HT	-	339'515	339'515	-	-	-	-	-	339'515
2008-004-HT PlantGrowth-HT	-	94'000	94'000	-	-	-	-	-	94'000
2008-007-HT Neurochoice-HT	-	182'400	182'400	-	-	37'931	-	-	220'331
2008-008-HT LipidX-HT	-	451'152	451'152	-	-	362'500	-	-	813'652
2009-005-HT InfectX-HT	-	164'400	164'400	-	-	20'000	-	-	184'400
2009-006-HT CINA-HT	-	58'620	58'620	-	-	-	-	-	58'620
Total	6'000'000	1'440'087	1'440'087	-76	828'000	421'183	-49	-	1'861'270

Table 20b: RTD-HT use of funds per cost type and funding category

RTD-HT

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-	-	-	-	-	-	-	-
Consumables	-	-	-752	-	-	752	-	-	-
Miscellaneous	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	-	-	-752	-	-	752	-	-	-

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-	182'400	-	-	-	-	-	182'400
Consumables	-	-	7'279	-	-	38'683	-	-	45'962
Miscellaneous	-	-	526	-	-	-	-	-	526
Equipment	6'000'000	1'440'087	1'249'882	-79	828'000	382'500	-54	-	1'632'382
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	6'000'000	1'440'087	1'440'087	-76	828'000	421'183	-49	-	1'861'270

3.7 Systems Biology IT (SIP)

The only SystemsX.ch Initiated Project (SIP), SyBIT, started in 2009. For the second phase of the initiative (2013–2016), and in order to keep funds separated, a new project, named SyBIT_2, was created and a new endowment fund opened at ETH Zurich. As before, no particular expectations concerning Own Contributions are attached to SyBIT. Any of the partners may receive money from this project if they provide services relevant to the SyBIT project. From 2008 until the end of 2013, SyBIT was located at and administrated by ETH Zurich. From January 2014 until the end of August 2015, the SyBIT project manager, Peter Kunszt, moved to UZH and therefore managed the project from there. Since September 2015, there has been a new project manager, Bernd Rinn. He is employed at ETH Zurich and manages the project from there. Hence, the SyBIT management costs have been handled by the ETH Zurich endowment funds since September 2015. The rest of the money has been paid out to the partners accordingly, and reported on at the institutional level.

This project had an overall budget of CHF 6.9 million up to the end of the first funding period (December 2011), CHF 2.4 million for 2012, CHF 2.2 million for 2013, CHF 1.8 million for 2014, and CHF 1.5 million for 2015. CHF 2.8 million was approved by the SNSF for the funding period 2016-2018. CHF 1.4 million was released for 2016.

Because SyBIT is the only SIP Project (although there are now two project numbers due to the two SystemsX.ch phases), it represents the total spending of SystemsX.ch Funds on SIPs (see *Table 21a* and *Table 21b*). However, as far as project 2008-013 (SyBIT_1) is concerned, no further reports will

be submitted. SyBIT is very similar to an RTD Project in size and scope, the difference being that fixed SystemsX.ch budgets per partner and their OCs are not predefined, and the duration of the project is much longer.

SyBIT may be referred to in different ways: The SIP as a whole is named SyBIT. However, for the period 2008–2012 the project is called SyBIT or SyBIT_1, SyBIT_2 always refers to the period 2013–2018.

For 2016, SyBIT reported slightly less spending than received funds (see Figure 15).

Please note: The budget for the SIP approved in 2008 and 2009 was cut in 2011 (CHF 34'500), which is why the column “Budget” indicates the original amount that was granted and the column “Paid” shows the amount that was actually available and paid out. SyBIT_1 received all available funds.

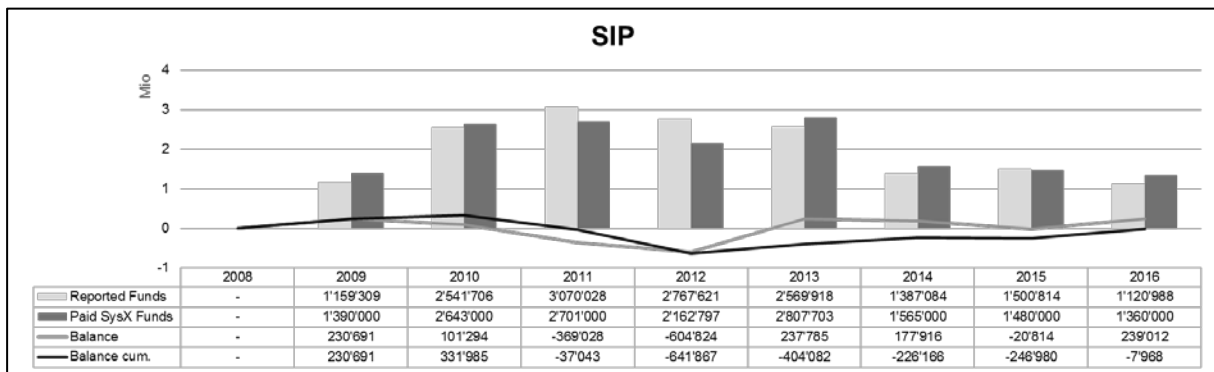


Figure 15: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for SIPs (SyBIT and SyBIT_2) in CHF

Table 21a: SIPs SyBIT and SyBIT_2

SIP projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-013 SyBIT	-	-	-	-	-	-	-	-	-
2012-210 SyBIT_2	1'360'000	1'360'000	1'120'988	-18	-	485'063	-	-	1'606'052
Total	1'360'000	1'360'000	1'120'988	-18	-	485'063	-	-	1'606'052

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-013 SyBIT	9'303'000	9'268'500	9'575'012	3	2'403'000	2'964'034	23	60'615	12'599'661
2012-210 SyBIT_2	6'841'000	6'841'000	6'542'456	-4	-	2'949'362	-	-	9'491'817
Total	16'144'000	16'109'500	16'117'468	-0	2'403'000	5'913'396	146	60'615	22'091'478

Table 21b: SIPs SyBIT and SyBIT_2 according to cost type and funding categories

SIP

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	1'319'000	1'319'000	1'038'874	-21	-	344'700	-	-	1'383'574
Consumables	41'000	41'000	35'173	-14	-	-	-	-	35'173
Miscellaneous	-	-	46'941	-	-	-	-	-	46'941
Equipment	-	-	-	-	-	140'363	-	-	140'363
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	1'360'000	1'360'000	1'120'988	-18	-	485'063	-	-	1'606'052

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	14'577'504	13'823'017	13'740'107	-6	2'293'000	4'606'887	101	-	18'346'994
Consumables	377'417	466'130	668'762	77	35'000	112'643	222	-	781'405
Miscellaneous	582'927	639'351	981'451	68	20'000	26'727	34	-	1'008'178
Equipment	606'152	1'181'002	727'147	20	55'000	1'167'138	2'022	-	1'894'286
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	60'615	60'615
Total	16'144'000	16'109'500	16'117'468	-0	2'403'000	5'913'396	146	60'615	22'091'478

3.8 Interdisciplinary PhD Projects (IPhD)

Although the payments are scattered throughout the year, yearly reports are received from every IPhD Project. For 2016, reports were received for 45 IPhD Projects. Since these projects simply include a student salary (according to the yearly published PhD salaries by SNSF) plus up to CHF 10'000 per year for consumables and a one-time payment of CHF 2'000 towards visiting a conference (cost type "miscellaneous"), significant financial mismanagement is neither expected nor feasible. Consumables can be carried over every year until the project ends, at which time unused funds must be returned to SystemsX.ch (see Appendix 1, A1.6). As far as the reporting of Own Contributions is concerned, see the lump sum rule described in Appendix 1, A1.4.

Table 22a–c gives an overview of approved IPhD Projects. In 2016, IPhD Projects used a total of CHF 2.5 million (2015: CHF 2.3 million, 2014: CHF 2.0 million, 2013: CHF 1.9 million, 2012: CHF 2.1 million, 2011: CHF 1.9 million, 2010: CHF 1.5 million, 2009: CHF 0.6 million).

A total of CHF 14'790'716 was reported for 2008–2016, whereas CHF 15'700'438 was released for the same period. As can be seen in Figure 16, more funds were reported than paid out in 2016. According to the project type, funds are not paid per calendar year, but per project year. Since the SNSF increased the social charges for some institutions, some additional payments were necessary in 2016 or will be released within the next installment.

In 2016, seven IPhD Projects were asked to return unspent funds. These projects received invoices in order to return a total of CHF 93'431 in unspent funds. SystemsX.ch did not receive all these unspent funds within the calendar year 2016 due to payment terms of the partner institutions (one payment of CHF 8'566 is pending). However, the amount has been recorded in the 2016 financial report.

Out of a total of 87 IPhD Projects, 18 projects have the status "project closed".

Please note: The column “Budget” indicates the original amount that was granted and the column “Paid” shows the amount that was actually available and paid out for each IPhD Project (see *Table 22a*, *Table 22b* and *Table 22c*).

The two amounts might differ for the following reasons:

- extension of the project duration (4th year IPhD salary), reflected in an extra year of salary,
- an increase in salaries; the higher budget reflects the adjusted salary costs,
- unspent funds that were returned after project end; decreased amount in the “Paid” column.

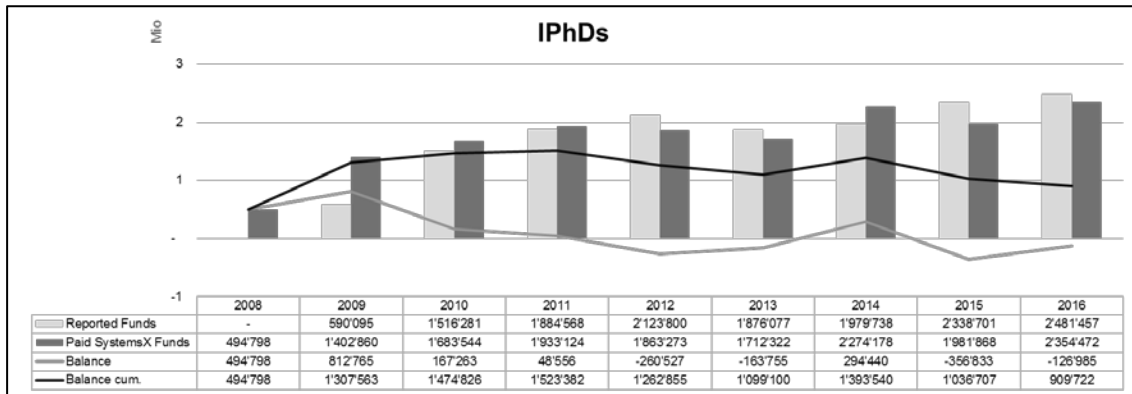


Figure 16: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for IPhDs in CHF

Table 22a: All approved IPHD Project resources allocated and reported 2016

IPHD projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-035 Blanke	-	-	-	-	-	-	-	-	-
2008-036 Cole	-	-	-	-	-	-	-	-	-
2008-037 Deplancke	-	-	-2'154	-	-	-2'154	-	-	-4'308
2008-038 Grossniklaus	-	-	-	-	-	-	-	-	-
2008-039 Hasler	-	-	-	-	-	-	-	-	-
2008-040 Henzinger	-	-	-	-	-	-58'825	-	-	-58'825
2008-041 Ijspeert	-	-	-	-	-	-	-	-	-
2008-042 Kroschewski	-	-	-	-	-	-	-	-	-
2008-043 McKinney	-	-	-	-	-	-	-	-	-
2008-044 Moret	-	-	-	-	-	-	-	-	-
2008-045 Naef	-	-	-	-	-	-	-	-	-
2008-046 Radenovic	-	-10'988	-20'640	-	-	-20'640	-	-	-41'280
2008-047 Shimizu	-	-	-	-	-	-	-	-	-
2008-048 Verkhovskiy	-	-	-	-	-	-	-	-	-
2008-049 Zamboni	-	-	-18'936	-	-	-24'815	-	-	-43'751
2009-023 Becskej	-	-19'976	-	-	-	-	-	-	-
2009-024 Beerenwinkel_Beisel	-	-	-	-	-	-	-	-	-
2009-025 Beerenwinkel_Merdes	-	-	-	-	-	-	-	-	-
2009-026 CarazoSalas	-	-	21'838	-	-	21'838	-	-	43'676
2009-027 Gijs	-	-	-	-	-	-	-	-	-
2009-028 Gónczy	-	-	-1'010	-	-	-1'010	-	-	-2'020
2009-029 Grossniklaus	-	-	-	-	-	-	-	-	-
2009-030 Handschin	-	-	-1'600	-	-	-1'600	-	-	-3'200
2009-031 Hierlemann	-	-	-	-	-	-	-	-	-
2009-032 Mansuy	-	-	-	-	-	-	-	-	-
2009-033 Pertz	-	-	-19'311	-	-	-19'311	-	-	-38'622
2009-034 Wolfrum	-	-	-8'748	-	-	-8'748	-	-	-17'496
2010-066 Aegerter	-	-	54'913	-	-	54'913	-	-	109'826
2010-067 Ballmer-Hofer	-	-	-	-	-	-	-	-	-
2010-068 Heinis	-	-	-478	-	-	-478	-	-	-956
2010-069 Koeppl	-	-	-15'559	-	-	-15'559	-	-	-31'118
2010-070 Lutolf	-	-	-1'154	-	-	-1'154	-	-	-2'308
2010-071 Müller	-	-2'253	-	-	-	-	-	-	-
2010-072 Psaltis	-	-	-243	-	-	-243	-	-	-486
2010-073 Smith	-	-12'694	-6'587	-	-	-6'587	-	-	-13'174
2010-074 Soldati-Favre	-	-8'566	-10'461	-	-	-10'461	-	-	-20'922
2010-075 Sprecher	-	-418	-1'470	-	-	-1'470	-	-	-2'940
2010-076 van der Meer	-	-38'536	-	-	-	-	-	-	-
2010-077 Vetter	-	-	-	-	-	-	-	-	-
2010-078 Zeller	-	-	-	-	-	-	-	-	-
2012-136 Swartz	-	-	-	-	-	-	-	-	-
2012-137 Beerenwinkel	-	57'046	82'054	-	-	82'054	-	-	164'108
2012-138 Koeppl	-	-	39'795	-	-	39'795	-	-	79'590
2012-139 Aebbersold	-	-	-	-	-	-	-	-	-
2012-140 Bärenfaller	-	57'046	78'702	-	-	68'399	-	-	147'101
2012-141 Barral	-	42'784	37'978	-	-	87'358	-	-	125'336
2012-142 Greber	-	-	-	-	-	-	-	-	-
2012-143 Hardtke	-	58'046	64'585	-	-	64'585	-	-	129'170
2012-144 Hatzimanikatis	-	-	48'114	-	-	48'114	-	-	96'228
2012-145 Hottiger	-	-	56'253	-	-	56'253	-	-	112'506
2012-146 Nef	-	27'020	62'336	-	-	62'336	-	-	124'672
2013-122 Althaus	-	65'119	61'800	-	-	61'800	-	-	123'600
2013-123 Basler	-	68'031	87'210	-	-	87'210	-	-	174'421
2013-124 Gonzales	-	71'047	71'953	-	-	71'953	-	-	143'907
2013-125 Hierlemann	-	67'046	75'762	-	-	75'762	-	-	151'523
2013-126 Kurtcuoglu	-	70'512	57'972	-	-	57'972	-	-	115'944
2013-127 Milinkovitch	-	72'048	62'034	-	-	62'034	-	-	124'068
2013-128 Peter	-	77'268	61'130	-	-	61'130	-	-	122'260
2013-129 Sauer	-	-	66'101	-	-	66'101	-	-	132'202
2013-130 Zamboni	-	-	-	-	-	-	-	-	-
2014-235 Baroux	69'045	-	57'365	-17	-	57'365	-	-	114'729
2014-236 Cabernard	69'046	65'336	54'355	-21	-	54'354	-	-	108'709
2014-237 Handschin	69'046	65'336	53'429	-23	-	53'429	-	-	106'857
2014-238 Helmchen	69'046	69'741	64'787	-6	-	64'787	115'731	-	245'304
2014-239 Hierlemann	66'545	67'046	74'381	12	-	74'381	-	-	148'763
2014-240 Iber	66'545	65'806	70'186	5	-	70'186	-	-	140'372
2014-241 Lisacek	1'501	969	-	-100	-	-	-	-	-
2014-242 Maerkl	69'546	130'872	65'824	-5	-	65'824	-	-	131'647
2014-243 Pelet	70'046	70'046	57'568	-18	-	57'568	-	-	115'136
2014-244 Schroeder	68'545	69'226	67'234	-2	-	67'234	-	-	134'468
2014-245 Soldati-Favre	72'048	68'248	70'658	-2	-	70'658	-	-	141'315
2014-246 Stelling	68'794	65'806	42'030	-39	-	42'030	-	-	84'061
2014-247 Suter	62'546	66'306	69'833	12	-	69'833	-	-	139'666
2014-248 Vorholt	68'900	69'046	58'996	-14	-	158'000	-	-	216'996
2014-249 Wegmann/Ripperger	70'547	70'547	61'155	-13	-	61'155	-	-	122'311
2014-250 Wild	69'046	66'291	55'713	-19	-	55'713	-	-	111'425
2014-251 Zehn	-	66'306	88'018	-	-	88'018	-	-	176'036
2015-332 Dion	64'566	64'566	49'463	-23	-	49'463	-	-	98'926
2015-333 Correia	66'306	66'306	58'992	-11	-	58'992	-	-	117'984
2015-334 Fierz	66'306	64'566	46'712	-30	-	46'712	-	-	93'425
2015-335 Müller	64'596	64'596	49'627	-23	-	49'627	-	-	99'253
2015-336 Herzog	63'306	61'566	36'508	-42	-	36'508	-	-	73'016
2015-337 Pertz	64'096	64'096	55'358	-14	-	55'358	-	-	110'717
2015-338 J. Robinson	65'821	64'096	33'974	-48	-	33'974	-	-	67'949
2015-339 Sprecher	65'037	65'037	56'529	-13	-	56'529	-	-	113'058
2015-340 van der Meer	60'792	59'037	41'960	-31	-	41'960	-	-	83'919
2015-341 Wagner	64'096	64'096	58'624	-9	-	58'624	-	-	117'247
Total	1'675'713	2'354'472	2'481'457	48	-	2'554'834	-	115'731	5'152'021

Table 22b: All approved IPHD Project resources allocated and reported 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-035 Blanke	171'725	177'324	177'325	3	-	177'325	-	-	354'650
2008-036 Cole	171'725	242'318	242'318	41	-	242'318	-	-	484'636
2008-037 Deplancke	175'725	241'484	241'484	37	-	241'484	-	-	482'968
2008-038 Grossniklaus	171'725	244'401	244'401	42	-	244'401	-	-	488'802
2008-039 Hasler	118'525	147'897	147'897	25	-	147'897	-	-	295'794
2008-040 Henzinger	171'725	237'871	237'871	39	-	237'871	-	-	475'742
2008-041 Ijspeert	171'725	207'931	207'931	21	-	207'931	-	-	415'862
2008-042 Kroschewski	177'350	87'663	87'663	-51	-	87'663	-	-	175'326
2008-043 McKinney	171'725	245'550	245'550	43	-	245'550	-	-	491'100
2008-044 Moret	171'725	165'506	165'507	-4	-	165'507	-	-	331'014
2008-045 Naef	178'475	171'068	171'068	-4	-	171'068	-	-	342'136
2008-046 Radenovic	171'725	232'077	232'077	35	-	232'077	-	-	464'154
2008-047 Shimizu	171'725	239'142	239'141	39	-	239'141	-	-	478'282
2008-048 Verkhovsky	171'725	169'118	169'118	-2	-	169'118	-	-	338'236
2008-049 Zamboni	189'695	172'048	172'048	-9	-	172'048	-	-	344'096
2009-023 Becskej	178'331	224'135	224'135	26	-	224'135	-	-	448'270
2009-024 Beerenwinkel_Beisel	175'775	170'833	170'833	-3	-	170'833	-	-	341'666
2009-025 Beerenwinkel_Merdes	175'775	201'061	201'061	14	-	201'263	-	-	402'324
2009-026 CarazoSalas	175'775	226'567	226'567	29	-	226'567	-	-	453'134
2009-027 Gijls	175'775	244'442	244'442	39	-	244'442	-	-	488'884
2009-028 Gónczy	182'525	184'566	184'567	1	-	184'567	-	-	369'134
2009-029 Grossniklaus	178'331	246'251	246'251	38	-	295'112	-	-	541'363
2009-030 Handschin	175'775	231'326	231'326	32	-	231'326	-	-	462'652
2009-031 Hierlemann	175'775	239'684	239'684	36	-	273'088	-	-	512'772
2009-032 Mansuy	178'331	242'928	242'946	36	-	242'946	-	-	485'892
2009-033 Pertz	178'331	158'989	158'989	-11	-	158'989	-	-	317'978
2009-034 Wolffm	175'775	173'561	173'561	-1	-	173'561	-	-	347'122
2010-066 Aegerter	179'744	257'698	257'425	43	-	257'425	-	-	514'851
2010-067 Ballmer-Hofer	178'448	112'629	112'629	-37	-	112'629	-	-	225'258
2010-068 Heins	179'744	252'360	252'360	40	-	252'360	-	-	504'720
2010-069 Koeppl	181'040	182'144	182'144	1	-	182'144	-	-	364'288
2010-070 Lutolf	181'040	183'644	183'644	1	-	183'644	-	-	367'288
2010-071 Müller	178'448	246'808	246'808	38	-	345'100	-	-	591'908
2010-072 Psaltis	181'040	252'023	252'023	39	-	252'023	-	-	504'046
2010-073 Smith	186'224	247'017	247'017	33	-	247'017	-	-	494'035
2010-074 Soldati-Favre	187'520	253'322	253'322	35	-	253'322	-	-	506'644
2010-075 Sprecher	182'336	255'121	255'121	40	-	255'121	-	-	510'242
2010-076 van der Meer	182'336	211'411	211'411	16	-	211'411	-	-	422'822
2010-077 Vetter	178'448	160'701	160'701	-10	-	160'701	-	-	321'402
2010-078 Zeller	178'448	250'497	250'498	40	-	250'498	-	-	500'996
2012-136 Swartz	185'180	198'164	197'829	7	-	197'829	-	-	395'658
2012-137 Beerenwinkel	182'516	248'401	237'916	30	-	237'916	-	-	475'833
2012-138 Koeppl	182'516	255'812	249'772	37	-	249'772	-	-	499'543
2012-139 Aebersold	182'516	194'384	196'140	7	-	196'140	-	-	392'279
2012-140 Bärenfaller	182'516	248'401	247'395	36	-	256'989	-	-	504'384
2012-141 Barral	182'516	234'139	237'310	30	-	449'694	-	-	687'004
2012-142 Greber	66'036	66'492	66'492	1	-	66'492	-	-	132'984
2012-143 Hardtke	186'512	256'239	216'554	16	-	216'554	-	-	433'108
2012-144 Hatzimanikatis	185'180	251'337	241'701	31	-	241'701	-	-	483'403
2012-145 Hottiger	183'848	259'438	259'416	41	-	259'416	-	-	518'831
2012-146 Nef	191'840	201'446	154'623	-19	-	154'623	-	-	309'245
2013-122 Althaus	194'000	201'815	184'675	-5	-	184'675	-	-	369'349
2013-123 Basler	183'900	196'993	195'713	6	-	195'713	-	-	391'426
2013-124 Gonzales	191'300	203'831	194'060	1	-	194'060	-	-	388'121
2013-125 Hierlemann	185'900	197'851	146'202	-21	-	146'202	-	-	292'404
2013-126 Kurtcuoglu	185'900	199'110	174'214	-6	-	174'214	-	-	348'429
2013-127 Milinkovitch	194'000	206'744	183'056	-6	-	183'057	-	-	366'113
2013-128 Peter	184'550	205'759	150'631	-18	-	150'631	-	-	301'262
2013-129 Sauer	182'550	199'442	199'723	9	-	199'723	-	-	399'445
2013-130 Zamboni	184'550	134'656	135'044	-27	-	135'044	-	-	270'088
2014-235 Baroux	198'003	129'878	146'918	-26	-	146'918	-	-	293'836
2014-236 Cabernard	198'008	128'962	104'933	-47	-	104'932	-	-	209'865
2014-237 Handschin	198'008	128'962	62'367	-69	-	62'367	-	-	124'733
2014-238 Helmchen	198'007	133'367	119'948	-39	-	119'948	236'182	-	476'079
2014-239 Hierlemann	196'550	197'890	146'192	-26	-	146'192	-	-	292'384
2014-240 Iber	196'550	130'961	130'116	-34	-	130'116	-	-	260'232
2014-241 Lisacek	73'549	73'017	73'896	0	-	73'896	-	-	147'791
2014-242 Maerkl	199'463	130'872	85'741	-57	-	85'741	-	-	171'482
2014-243 Pelet	200'918	200'918	133'952	-33	-	133'952	-	-	267'905
2014-244 Schroeder	196'550	132'381	120'647	-39	-	120'647	-	-	241'295
2014-245 Soldati-Favre	206'744	134'696	135'803	-34	-	135'803	-	-	271'606
2014-246 Stelling	197'275	128'961	86'602	-56	-	86'602	-	-	173'205
2014-247 Suter	192'463	130'872	136'625	-29	-	136'625	-	-	273'249
2014-248 Vorholt	197'400	197'929	157'648	-20	-	257'833	34'621	-	450'103
2014-249 Wegmann/Ripperger	205'886	205'886	157'608	-23	-	157'608	-	-	315'216
2014-250 Wild	198'006	129'917	102'504	-48	-	102'504	-	-	205'009
2014-251 Zehn	130'873	130'872	128'552	-2	-	128'552	-	-	257'105
2015-332 Dion	64'566	64'566	49'463	-23	-	49'463	-	-	98'926
2015-333 Correla	130'872	130'872	72'578	-45	-	72'578	-	-	145'156
2015-334 Fierz	130'872	64'566	46'712	-64	-	46'712	-	-	93'425
2015-335 Müller	64'596	64'596	49'627	-23	-	49'627	-	-	99'253
2015-336 Herzog	124'872	61'566	36'508	-71	-	36'508	-	-	73'016
2015-337 Pertz	64'096	64'096	55'358	-14	-	55'358	-	-	110'717
2015-338 J. Robinson	129'917	64'096	33'974	-74	-	33'974	-	-	67'949
2015-339 Sprecher	65'037	65'037	56'529	-13	-	56'529	-	-	113'058
2015-340 van der Meer	119'829	59'037	41'960	-65	-	41'960	-	-	83'919
2015-341 Wagner	64'096	64'096	58'624	-9	-	58'624	-	-	117'247
Total	14'778'942	15'700'438	14'790'716	0	-	15'293'636	-	270'803	30'355'155

Table 22c: Consolidation of all approved IPhD Project resources split according to cost type and funding category

IPhD

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	1'415'213	2'083'144	2'149'565	52	-	2'202'162	-	-	4'351'727
Consumables	236'500	243'283	261'471	11	-	216'764	-	-	478'235
Miscellaneous	24'000	25'043	64'175	167	-	15'613	-	-	79'788
Equipment	-	3'002	6'245	-	-	120'295	-	-	126'540
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	115'731	115'731
Total	1'675'713	2'354'472	2'481'457	48	-	2'554'834	-	115'731	5'152'021

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	12'251'442	13'382'772	12'733'118	4	-	13'052'281	-	-	25'785'399
Consumables	2'366'500	2'076'061	1'571'231	-34	-	1'513'169	-	-	3'084'400
Miscellaneous	161'000	203'148	349'815	117	-	395'971	-	-	745'786
Equipment	-	38'457	136'552	-	-	332'215	-	-	468'767
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	270'803	270'803
Total	14'778'942	15'700'438	14'790'716	0	-	15'293'636	-	270'803	30'355'155

3.9 Interdisciplinary Pilot Projects (IPP)

IPPs are short (one-year) high-risk projects approved by the SystemsX.ch SEB. This project type is no longer active. For details on the Own Contributions reporting, see the lump sum rule described in Appendix 1, A1.4.

No financial reports were received for the 2016 reporting period, however, one project (IPP 211-117) returned CHF 20'331 in unspent funds (see Table 23a). Some projects reported more funds than they received (CHF 154'577), hence it is regarded partly as additional OCs and was shifted to "reported Own Contributions" (see Table 23a).

There is still one IPP Project with unreported funds (see Figure 17 and Table 23b), which have to be returned to SystemsX.ch, or in case of a missed declaration of used funds, a financial report must be submitted accordingly.

Out of 30 IPP Projects 22 projects are closed and therefore show the status "project closed".

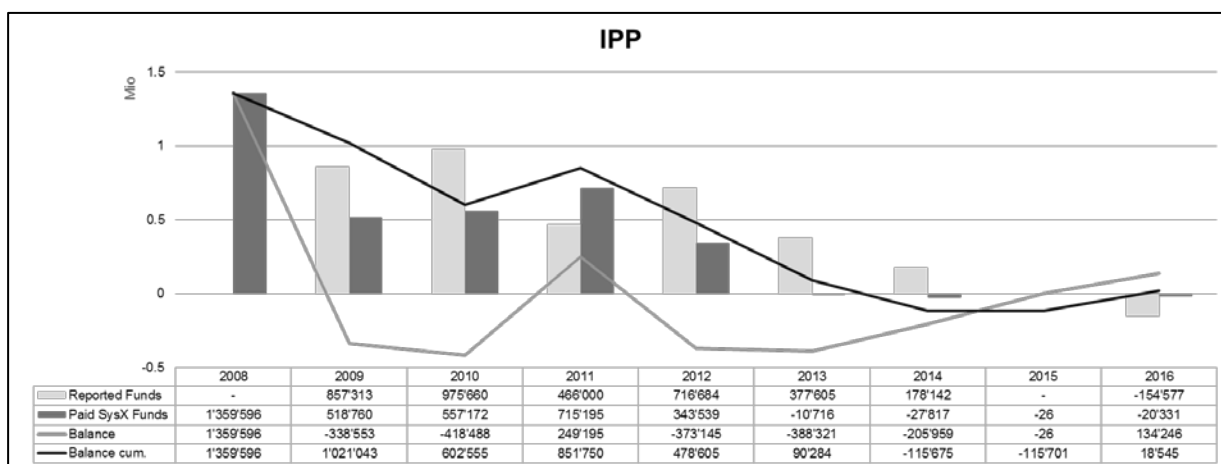


Figure 17: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for IPPs in CHF

Table 23a: All approved IPP Project resources allocated and reported 2016

IPP projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-023 Schmid	-	-	-181	-	-	181	-	-	-
2008-024 Bergmann	-	-	-10'000	-	-	-5'000	-	-	-15'000
2008-025 Wollscheid	-	-	-	-	-	-	-	-	-
2008-026 Brugger	-	-	-	-	-	-	-	-	-
2008-027 Goenczy	-	-	-	-	-	-	-	-	-
2008-028 Trono	-	-	-	-	-	-	-	-	-
2008-029 Nelson	-	-	-	-	-	-	-	-	-
2008-030 Oertner	-	-	-	-	-	-	-	-	-
2008-031 Lepetit	-	-	-	-	-	-	-	-	-
2008-032 Bersler	-	-	-437	-	-	-4'291	-	-	-4'728
2008-033 Quadroni	-	-	-	-	-	-	-	-	-
2008-034 Stutz	-	-	-	-	-	-	-	-	-
2009-036 Hopfgartner	-	-	-	-	-	-	-	-	-
2009-037 Sanchez	-	-	-971	-	-	-485	-	-	-1'456
2009-038 Zamboni	-	-	-110'684	-	-	57'075	-	-	-53'609
2009-039 Halazonetis	-	-	-	-	-	-	-	-	-
2009-040 DalPeraro	-	-	-	-	-	-	-	-	-
2009-041 Bairoch	-	-	-	-	-	-	-	-	-
2009-042 Wymann	-	-	-	-	-	-	-	-	-
2009-043 Turlings	-	-	-	-	-	-	-	-	-
2010-065 Gasser	-	-	-	-	-	-	-	-	-
2011-113 Berger	-	-	-	-	-	-	-	-	-
2011-114 Brunner	-	-	-	-	-	-	-	-	-
2011-115 August / Pruschy	-	-	-32'304	-	-	-16'150	-	-	-48'454
2011-116 Johnson	-	-	-	-	-	-	-	-	-
2011-117 Koeppl	-	-20'331	-	-	-	-	-	-	-
2011-118 Rachet	-	-	-	-	-	-	-	-	-
2011-119 Schmidt	-	-	-	-	-	-	-	-	-
2011-120 Zdobnov	-	-	-	-	-	-	-	-	-
2011-121 Eberl	-	-	-	-	-	-	-	-	-
Total	-	-20'331	-154'577	-	-	31'330	-	-	-123'247

Table 23b: All approved IPP Project resources allocated and reported 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2008-023 Schmid	91'063	91'063	91'063	-	59'200	55'181	-7	-	146'244
2008-024 Bergmann	110'000	110'000	110'000	-	164'000	55'000	-66	-	165'000
2008-025 Wollscheid	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2008-026 Brugger	118'950	118'494	100'947	-16	-	50'023	-	-	150'070
2008-027 Goenczy	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2008-028 Trono	120'000	120'000	120'000	-0	-	60'000	-	-	180'000
2008-029 Nelson	119'303	115'906	115'894	-3	-	74'743	-	-	190'637
2008-030 Oertner	109'125	109'125	109'125	-	220'500	254'338	15	-	363'463
2008-031 Lepetit	92'926	92'926	92'926	-0	-	46'463	-	-	139'389
2008-032 Bersler	108'876	108'876	108'876	-	50'000	100'437	101	-	209'313
2008-033 Quadroni	119'468	118'755	118'755	-1	-	59'377	-	-	178'132
2008-034 Stutz	119'885	119'885	119'885	-	-	180'000	-	-	299'885
2009-036 Hopfgartner	120'000	120'000	120'001	0	-	60'000	-	-	180'001
2009-037 Sanchez	118'658	118'658	118'658	-	-	59'329	-	-	177'987
2009-038 Zamboni	120'000	120'000	120'000	-	-	110'684	-	-	230'684
2009-039 Halazonetis	120'000	119'650	119'650	-0	-	59'746	-	-	179'396
2009-040 DalPeraro	119'558	119'558	119'557	-0	-	59'778	-	-	179'335
2009-041 Bairoch	118'767	118'767	118'767	-	-	59'382	-	-	178'149
2009-042 Wymann	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2009-043 Turlings	119'949	109'233	109'233	-9	20'000	74'888	274	-	184'121
2010-065 Gasser	119'000	91'183	91'183	-23	-	45'591	-	-	136'774
2011-113 Berger	120'000	120'000	119'947	-0	-	152'580	-	-	272'527
2011-114 Brunner	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2011-115 August / Pruschy	120'000	120'000	119'999	-0	-	60'000	-	-	179'999
2011-116 Johnson	116'000	115'974	115'974	-0	-	57'987	-	-	173'961
2011-117 Koeppl	117'650	97'319	97'319	-17	-	86'500	-	-	183'819
2011-118 Rachet	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2011-119 Schmidt	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2011-120 Zdobnov	120'000	120'000	120'000	-	-	60'000	-	-	180'000
2011-121 Eberl	120'000	120'000	119'968	-0	-	113'151	-	38'500	271'619
Total	3'499'178	3'435'371	3'416'827	-2	513'700	2'355'178	358	38'500	5'810'505

IPPs were financed with a maximum of CHF 120'000, which could be used to finance anything in the four cost types (see Table 23c).

Table 23c: Consolidation of all approved IPP Project resources split according to cost type and funding category

IPP

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-16'812	-135'298	-	-	44'877	-	-	-90'421
Consumables	-	7'321	-13'128	-	-	-10'739	-	-	-23'867
Miscellaneous	-	-	-4'160	-	-	-784	-	-	-4'944
Equipment	-	-10'840	-1'991	-	-	-2'024	-	-	-4'015
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	-	-20'331	-154'577	-	-	31'330	-	-	-123'247

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	2'748'089	2'689'694	2'678'809	-3	283'200	1'792'203	533	-	4'471'012
Consumables	486'225	490'019	514'212	6	95'000	228'142	140	-	742'354
Miscellaneous	90'207	92'647	91'325	1	5'000	162'637	3'153	-	253'962
Equipment	174'657	163'012	132'481	-24	130'500	172'196	32	-	304'677
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	38'500	38'500
Total	3'499'178	3'435'371	3'416'827	-2	513'700	2'355'178	358	38'500	5'810'505

3.10 Bridge 2 Industry Projects (BIP)

This project type was initiated in 2009 by the SEB to promote and foster collaboration with the private sector. A typical BIP Project lasted one year and enabled the collaboration between an academic partner, who received up to CHF 120'000 from SystemsX.ch, and a private partner who provided 3rd Party Funds. The format and reporting requirements are equal to those of the IPPs. This project type is no longer active, and was succeeded by the TF project type in 2012.

A shift of reported funds (CHF 29'717) was needed in the present financial report, since the PI reported only for one project in the past although he received funds for two projects (shift from BIP 2010-062 to BIP 2010-101, UniBas).

In 2016, three BIPs were asked to return unspent funds. These projects received invoices in order to return CHF 22'568 in unspent funds. SystemsX.ch received all these unspent funds within the calendar year 2016.

All 16 BIPs have been reported and all projects have been completed (see Figure 18, Table 24a, Table 24b). Six projects reported more funds than they received, which is why the difference of CHF 34'310 is deducted from reported SystemsX.ch Funds and partly regarded as additional Own Contributions and shifted to "reported Own Contributions" in the financial report 2016. Therefore only six BIPs have the status "project closed".

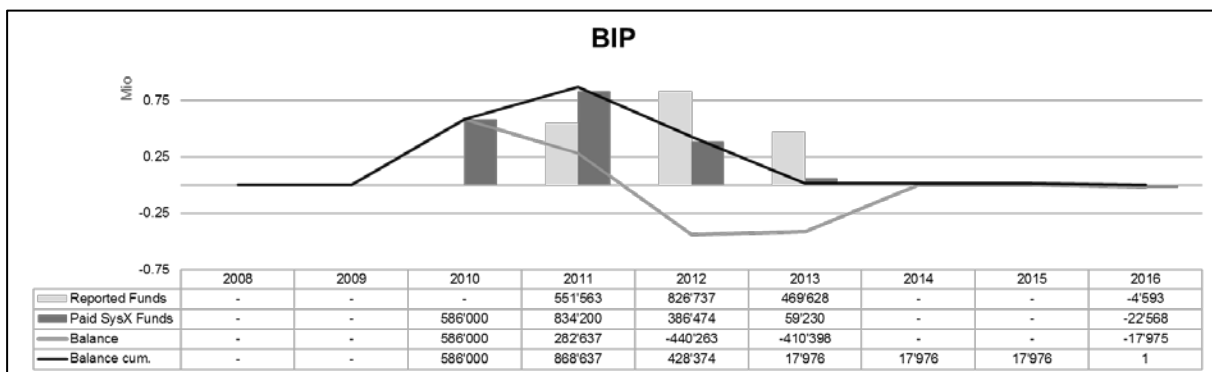


Figure 18: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for BIPs in CHF

Table 24a: Approved BIP Projects receiving funds before 31 Dec 2016 with their resources allocated and reported in 2016 and 2008–2016

BIP projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2010-062 BIP Scheiffele	-	-	-	-	-	-1	-	-	-1
2010-063 BIP Koepl	-	-	-	-	-	-	-	-	-
2010-096 BIP Wollscheid	-	-	-	-	-	-	-	-	-
2010-097 BIP Sauer	-	-	-	-	-	-	-	-	-
2010-098 BIP Zambelli	-	-3'244	-	-	-	-	-	-	-
2010-099 BIP Koepl	-	-	-	-	-	-	-	-	-
2010-100 BIP Hopfgartner	-	-	-	-	-	-	-	-	-
2010-101 BIP Scheiffele_2	-	-13'606	29'717	-	-	14'859	-	-	44'576
2010-102 BIP Turcatti	-	-	-	-	-	-	-	-	-
2010-103 BIP Zavolan	-	-5'718	-	-	-	-	-	-	-
2010-104 BIP Gruissem	-	-	-6'306	-	-	6'306	-	-	-
2011-122 BIP Steinmetz	-	-	-1'463	-	-	1'463	-	-	-
2011-125 BIP Lisacek	-	-	-1'516	-	-	-758	-	-	-2'274
2011-126 BIP Lutolf	-	-	-150	-	-	-75	-	-	-225
2011-128 BIP Keller	-	-	-109	-	-	109	-	-	-
2011-129 BIP Panke	-	-	-24'766	-	-	24'766	-	-	-
Total	-	-22'568	-4'593	-	-	46'670	-	-	42'077

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2010-062 BIP Scheiffele	120'667	120'000	120'000	-1	120'000	60'000	-50	-	180'000
2010-063 BIP Koepl	110'500	106'120	106'120	-4	50'000	53'060	6	98'000	257'180
2010-096 BIP Wollscheid	120'000	120'000	120'000	-	89'300	60'000	-33	100'000	280'000
2010-097 BIP Sauer	120'000	120'000	120'000	-	27'500	60'000	118	-	180'000
2010-098 BIP Zambelli	120'000	116'756	116'756	-3	36'000	60'000	67	-	176'756
2010-099 BIP Koepl	115'500	114'709	114'709	-1	53'000	57'354	8	52'300	224'363
2010-100 BIP Hopfgartner	120'000	120'000	120'000	-	55'000	60'000	9	70'740	250'740
2010-101 BIP Scheiffele_2	119'200	105'594	105'593	-11	120'000	52'797	-56	-	158'390
2010-102 BIP Turcatti	120'000	120'000	120'000	-	66'700	102'300	53	120'000	342'300
2010-103 BIP Zavolan	130'500	114'282	114'282	-12	468'800	117'400	-75	369'000	600'682
2010-104 BIP Gruissem	115'000	115'000	115'000	-	2'000	79'306	3'865	25'375	219'681
2011-122 BIP Steinmetz	120'000	120'000	120'000	-	145'000	196'130	35	160'000	476'130
2011-125 BIP Lisacek	120'000	120'000	120'000	-	65'500	60'000	-8	-	180'000
2011-126 BIP Lutolf	120'000	120'000	120'000	-	103'000	60'000	-42	-	180'000
2011-128 BIP Keller	96'475	96'475	96'475	-	45'000	64'309	43	123'940	284'724
2011-129 BIP Panke	114'400	114'400	114'400	-	249'000	277'766	12	-	392'166
Total	1'882'242	1'843'336	1'843'335	-2	1'695'800	1'420'422	-16	1'119'355	4'383'112

Table 24b: Consolidation of all BIP Projects with the resources split according to cost type and funding category

BIP

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	-	-41'290	-8'518	-	-	6'289	-	-	-2'229
Consumables	-	22'340	5'882	-	-	22'920	-	-	28'802
Miscellaneous	-	-3'619	-1'957	-	-	14'573	-	-	12'616
Equipment	-	-	-	-	-	2'888	-	-	2'888
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	-	-22'568	-4'593	-	-	46'670	-	-	42'077

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	1'499'867	1'454'197	1'423'833	-5	870'300	946'881	9	979'415	3'350'129
Consumables	240'875	272'424	297'961	24	160'000	168'859	6	-	466'820
Miscellaneous	79'500	64'714	95'416	20	11'500	49'803	333	-	145'219
Equipment	62'000	52'000	26'125	-58	350'000	207'679	-41	-	233'804
Infrastructure	-	-	-	-	304'000	47'200	-84	-	47'200
Various	-	-	-	-	-	-	-	139'940	139'940
Total	1'882'242	1'843'336	1'843'335	-2	1'695'800	1'420'422	-16	1'119'355	4'383'112

3.11 Transition Postdoc Fellowships (TPdF)

This project type aims to promote scientists who finished their doctoral theses no longer than five years ago. The interdisciplinary research project must be in a complementary discipline to the PhD and contain substantial quantitative and modeling/simulation elements. SystemsX.ch transition postdoc fellows are responsible for their project including management, equipment and consumables. SystemsX.ch funds the transition postdoc's salary according to the rules of the hosting SystemsX.ch institution, and consumables of up to CHF 10'000 per year. The time frame is limited to two years with the option of a third year extension.

Only three of the TPdFs approved in 2015 started their project in 2016, and almost all of the older projects were active in the current report, if only for a few months. Three projects approved in 2015 had not yet started.

For this project type, funds are not paid per calendar year, but per project year. The yearly installments are always paid according to the initial starting date. Since some projects finished in 2016 but received their last payment in 2015, there is a higher amount of reported SystemsX.ch Funds than what was effectively paid out for 2016. CHF 2'013'501 was paid out (cumulated over 2008–2016; CHF 7'674'713), compared to CHF 2'403'241 reported in 2016 (CHF 6'728'455 cumulated, see *Figure 19, Table 25a, Table 25b and Table 25c*).

The increase in social charges by the SNSF for some institutions also had an effect on the TPdFs, meaning that some additional payments were needed in 2016 or will be released with the next installment.

Two TPdF Projects were asked to return unspent funds. They received invoices to return a total of CHF 1'017 in unspent funds. SystemsX.ch received all of these unspent funds within the calendar year 2016.

Two out of 31 TPdF Projects have the status “project closed”.

Please note: The column “Budget” indicates the original amount that was granted and the column “Paid” shows the amount that was actually available and paid out for each TPdF Project (see *Table 25a, Table 25b and Table 25c*).

The two amounts might differ for the following reasons:

- extension of the project duration (3rd year TPdF salary), reflected in an extra year of salary,
- an increase in salaries; the higher budget reflects the adjusted salary costs,
- unspent funds were returned after project end; decreased amount in the column “Paid”.

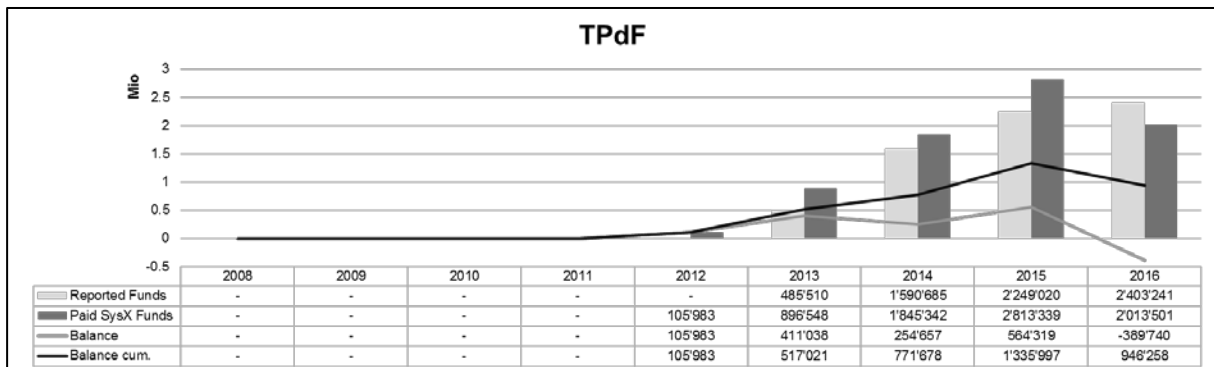


Figure 19: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for TPdFs in CHF

Table 25a: List of all approved TPdF Projects receiving funds before 31 Dec 2016

TPdF projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-149 Geiger	-	-389	-	-	-	-	-	-	-
2012-150 Da Silva	-	-	-	-	-	-	-	-	-
2012-151 Pham	-	628	-	-	-	-	-	-	-
2013-131 Azarias	-	1'575	99'981	-	-	49'990	-	-	149'971
2013-132 Basan	-	-	89'105	-	-	44'553	-	-	133'658
2013-133 Betizeau	91'480	91'480	111'324	22	-	55'662	-	-	166'986
2013-134 Blattmann	-	-	84'207	-	-	42'104	-	-	126'311
2013-135 Buljan	-	109'288	117'152	-	-	58'576	-	-	175'728
2013-136 Di Palma	-	-	-	-	-	-	-	-	-
2013-137 Dobay	-	113'077	103'362	-	-	51'681	-	-	155'043
2013-138 Kartal	-	109'620	90'469	-	-	-	-	-	90'469
2013-139 Limenitakis	-	134'476	132'068	-	-	66'033	-	-	198'101
2013-140 Skylaki	-	108'585	108'104	-	-	54'052	-	-	162'156
2013-141 Spiliotopoulos	-	-	66'707	-	-	-	-	-	66'707
2013-142 Urdy	-	112'230	113'208	-	-	56'604	-	-	169'812
2013-143 Zaballa	-	10'971	25'188	-	-	25'000	-	-	50'188
2014-227 Douglass	-	115'316	108'060	-	-	54'030	-	-	162'090
2014-228 Guimaraes	-	107'616	113'397	-	-	56'698	-	-	170'095
2014-229 Merino	-	113'280	111'378	-	-	55'689	-	-	167'067
2014-230 Noor	-	114'147	108'111	-	-	54'056	-	-	162'167
2014-231 Schlegel	-	114'692	120'816	-	-	60'408	-	-	181'224
2014-232 SriRamaratnam	-	-	117'118	-	-	58'559	-	-	175'677
2014-233 Zechner	-	108'300	115'497	-	-	57'749	-	-	173'246
2015-342 de Groot	113'558	108'613	108'123	-5	-	54'062	-	-	162'185
2015-343 Garcia	103'557	-	-	-100	-	-	-	-	-
2015-344 Jackson	113'558	-	-	-100	-	-	-	-	-
2015-345 Mauger	112'657	112'657	97'100	-14	-	48'550	-	-	145'650
2015-346 Moser von Filseck	107'616	-	-	-100	-	-	-	-	-
2015-347 Paquet	104'424	104'424	105'156	1	-	52'577	-	-	157'733
2015-348 Wang	107'619	113'843	106'666	-1	-	53'333	-	-	159'998
2015-349 Yepuri	110'328	110'328	50'944	-54	-	25'472	-	-	76'416
Total	964'797	2'013'501	2'403'241	149	-	1'135'438	-	-	3'538'678

Table 25b: List of all approved TPdF Projects receiving funds 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-149 Geiger	225'999	344'469	344'469	52	-	172'234	-	-	516'703
2012-150 Da Silva	210'325	242'563	242'562	15	-	121'281	-	-	363'843
2012-151 Pham	227'360	348'603	348'603	53	-	174'300	-	-	522'903
2013-131 Azarias	211'639	351'504	351'503	66	-	175'751	-	-	527'254
2013-132 Basan	224'200	338'325	339'943	52	-	169'971	-	-	509'914
2013-133 Betizeau	434'116	342'838	266'240	-39	-	151'630	-	-	417'870
2013-134 Blattmann	219'300	338'364	358'189	63	-	179'095	-	-	537'284
2013-135 Buljan	219'900	221'666	216'772	-1	-	108'386	-	-	325'158
2013-136 Di Palma	235'300	175'259	175'259	-26	-	87'631	-	-	262'890
2013-137 Dobay	198'900	311'977	264'085	33	-	132'043	-	-	396'128
2013-138 Kartal	235'400	345'080	313'088	33	-	203'022	-	-	516'110
2013-139 Limenitakis	236'600	404'048	403'870	71	-	201'934	-	-	605'804
2013-140 Skylaki	219'900	329'388	332'812	51	-	166'405	-	-	499'217
2013-141 Spiliotopoulos	343'095	344'669	296'708	-14	-	602'658	-	-	899'366
2013-142 Urdy	217'400	331'108	285'294	31	-	142'647	-	-	427'941
2013-143 Zaballa	239'200	250'276	105'701	-56	-	75'000	-	-	180'701
2014-227 Douglass	222'171	223'929	209'793	-6	-	104'896	-	-	314'689
2014-228 Guimaraes	220'412	328'028	236'693	7	-	118'347	-	-	355'040
2014-229 Merino	230'960	344'240	233'318	1	-	116'661	-	-	349'979
2014-230 Noor	218'655	221'666	152'838	-30	-	76'420	-	-	229'258
2014-231 Schlegel	218'654	221'590	232'597	6	-	116'298	-	-	348'895
2014-232 SriRamaratnam	220'412	220'412	220'382	-0	-	110'191	-	-	330'573
2014-233 Zechner	218'655	329'472	258'815	18	-	129'408	-	-	388'223
2015-342 de Groot	222'171	108'613	108'123	-51	-	54'062	-	-	162'185
2015-343 Garcia	202'170	-	-	-100	-	-	-	-	-
2015-344 Jackson	222'171	-	-	-100	-	-	-	-	-
2015-345 Mauger	220'412	220'412	120'722	-45	-	60'361	-	-	181'083
2015-346 Moser von Filseck	107'616	-	-	-100	-	-	-	-	-
2015-347 Paquet	104'424	104'424	105'156	1	-	52'577	-	-	157'733
2015-348 Wang	107'619	221'462	153'977	43	-	76'989	-	-	230'966
2015-349 Yepuri	110'328	110'328	50'944	-54	-	25'472	-	-	76'416
Total	6'745'464	7'674'713	6'728'455	-0	-	3'905'671	-	-	10'634'126

Table 25c: Consolidation of all reported TPdFs according to cost type and funding category

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	884'933	1'899'364	2'250'013	154	-	1'036'696	-	-	3'286'708
Consumables	-	22'139	116'579	-	-	81'061	-	-	197'640
Miscellaneous	79'864	79'506	36'649	-54	-	17'681	-	-	54'330
Equipment	-	12'491	-	-	-	-	-	-	-
Infrastructure	-	-	-	-	-	-	-	-	-
Total	964'797	2'013'501	2'403'241	149	-	1'135'438	-	-	3'538'678

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	6'193'403	7'117'198	6'264'075	1	-	3'594'140	-	-	9'858'215
Consumables	237'500	101'432	312'161	31	-	239'409	-	-	551'570
Miscellaneous	312'561	428'673	131'624	-58	-	59'501	-	-	191'125
Equipment	2'000	27'409	20'595	930	-	12'622	-	-	33'216
Infrastructure	-	-	-	-	-	-	-	-	-
Total	6'745'464	7'674'713	6'728'455	-0	-	3'905'671	-	-	10'634'126

3.12 Special Opportunity Projects (SpecOpp)

The SEB had been repeatedly approached with requests for the support of scientific activities (excluding events), so the Special Opportunity category was created to cater for this in 2012.

Besides possessing a “high risk, high gain” factor and an innovative character, an important criteria is that these proposals are not eligible for other sources of funding (SNSF, CTI, etc.).

The higher use of funds compared to the amount of received funds is due mostly to the submission of a report of one project which received all the funds in the previous year but reported a large proportion in 2016.

Three out of 15 SpecOpp Projects have the status “project closed”.

In the current report CHF 836'697 has been reported for ten projects, whereas CHF 697'037 was paid out (see Figure 20, Table 26a, Table 26b and Table 26c).

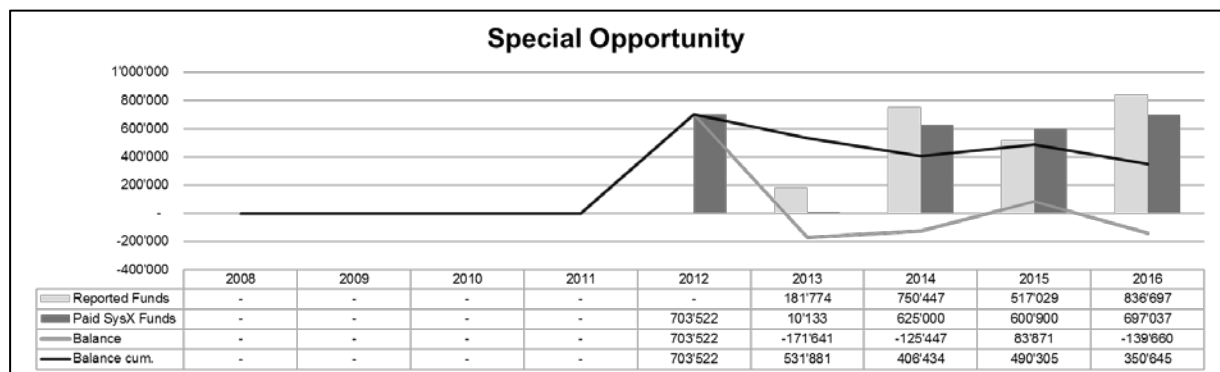


Figure 20: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for SpecOpps in CHF

Table 26a: Approved Special Opportunity Project resources allocated and reported in 2016

SpecOpp projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-132 Projekt Impact Study	-	-	-	-	-	-	-	-	-
2012-148 SIB-Fellowship-Program	-	-	140'534	-	-	-	-	-	140'534
2012-212 Micronaut CINA	-	-	-	-	-	-	-	-	-
2012-213 SwissLipids	-	-	-352	-	-	352	-	-	-
2013-121 SysX EIR mandate 2013	-	-	-	-	-	-	-	-	-
2013-159 Development of a microfl	-	4'624	-	-	-	-	-	-	-
2015-320 SynucleiX	71'600	71'600	59'853	-16	103'500	60'000	-42	-	119'853
2015-321 Basler	31'200	31'200	83'302	167	64'500	-	-100	-	83'302
2015-322 Protein-LEGO	88'328	88'328	66'252	-25	117'000	91'071	-22	-	157'323
2015-323 Deplancke	64'523	64'523	65'047	1	36'600	43'254	18	-	108'301
2015-324 Dittrich	67'000	67'000	83'798	25	6'000	87'000	1'350	-	170'798
2015-325 Maerkl	97'424	97'424	107'465	10	80'500	90'121	12	-	197'586
2015-326 Plückthum	100'000	100'000	100'404	0	241'000	221'049	-8	-	321'454
2015-327 Sigel	82'338	82'338	50'962	-38	229'000	184'315	-20	-	235'276
2015-328 Wollscheid	90'000	90'000	79'432	-12	73'500	73'536	0	-	152'968
Total	692'413	697'037	836'697	21	951'600	850'698	-11	-	1'687'395

Table 26b: Approved Special Opportunity Project resources allocated and reported in 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-132 Projekt Impact Study	23'522	23'522	23'522	0	-	23'961	-	-	47'483
2012-148 SIB-Fellowship-Program	680'000	600'000	489'029	-28	-	-	-	-	489'029
2012-212 Micronaut CINA	67'800	67'800	67'799	-0	-	-	-	-	67'799
2012-213 SwissLipids	720'000	720'000	720'000	-	-	739'602	-	-	1'459'602
2013-121 SysX EIR mandate 2013	55'000	57'333	57'333	4	-	-	-	-	57'333
2013-159 Development of a microfl	130'000	114'624	114'624	-12	-	76'660	-	-	191'284
2015-320 SynucleiX	140'000	140'000	84'411	-40	207'000	91'792	-56	-	176'203
2015-321 Basler	186'700	186'700	133'907	-28	129'000	-	-100	-	133'907
2015-322 Protein-LEGO	88'328	88'328	66'252	-25	117'000	91'071	-22	-	157'323
2015-323 Deplancke	64'523	64'523	65'047	1	36'600	43'254	18	-	108'301
2015-324 Dittrich	154'000	154'000	108'619	-29	112'000	87'000	-22	-	195'619
2015-325 Maerkl	97'424	97'424	107'465	10	80'500	90'121	12	-	197'586
2015-326 Plückthum	100'000	100'000	100'404	0	241'000	221'049	-8	-	321'454
2015-327 Sigel	82'338	82'338	50'962	-38	229'000	184'315	-20	-	235'276
2015-328 Wollscheid	140'000	140'000	96'572	-31	147'000	73'536	-50	-	170'108
Total	2'729'635	2'636'592	2'285'947	-16	1'299'100	1'722'360	33	-	4'008'307

Table 26c: Consolidation of all reported SpecOpps according to cost type and funding category

SpecOpp

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	588'413	588'413	725'837	23	703'000	696'336	-1	-	1'422'173
Consumables	87'702	87'702	75'097	-14	86'600	57'606	-33	-	132'703
Miscellaneous	4'648	4'648	3'987	-14	-	4'536	-	-	8'523
Equipment	11'650	11'650	31'776	173	150'000	79'738	-47	-	111'514
Infrastructure	-	-	-	-	12'000	12'482	4	-	12'482
Various	-	4'624	-	-	-	-	-	-	-
Total	692'413	697'037	836'697	21	951'600	850'698	-11	-	1'687'395

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	1'191'613	1'191'613	1'965'354	65	880'500	1'460'711	66	-	3'426'065
Consumables	125'702	125'702	84'319	-33	86'600	57'606	-33	-	141'925
Miscellaneous	12'148	12'148	7'699	-37	-	4'536	-	-	12'235
Equipment	31'650	31'650	33'096	5	320'000	86'405	-73	-	119'501
Infrastructure	-	-	-	-	12'000	12'482	4	-	12'482
Various	1'368'522	1'275'479	195'479	-86	-	100'621	-	-	296'100
Total	2'729'635	2'636'592	2'285'947	-16	1'299'100	1'722'360	33	-	4'008'307

3.13 Transfer Projects (TF)

Transfer Projects are collaborations between academic research groups and private companies. They are awarded for two years.

The first generation TFs used up their funds in 2015, except for TF 2012-209, which only started at the beginning of 2014. In 2016, the TF Projects used a total of CHF 450'682, whereas CHF 390'314 was paid out (see Table 27a, Table 27b and Table 27c).

A slightly higher amount of funds was reported than released in 2016. This may be due to the fact that all projects are coming to an end soon and all received their funds before 2016. (see Figure 21).

One out of the eight TF Projects has the status "project closed".

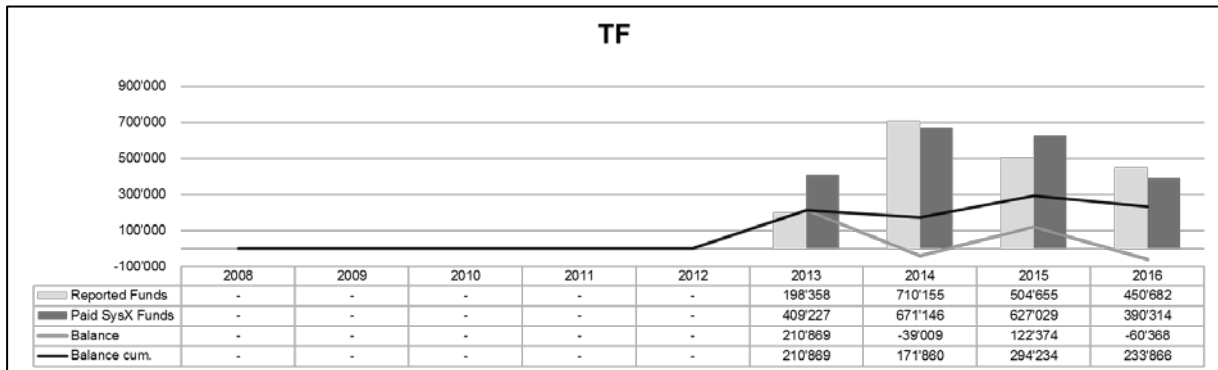


Figure 21: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for SpecOps in CHF

Table 27a: Approved Transfer Project resources allocated and reported in 2016

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-196 Koeppl	-	-	-9'730	-	-	9'730	-	-	-
2012-207 EvolutionX	-	-	-	-	-	-	-	-	-
2012-208 Helmchen	-	-	-4'153	-	-	4'153	-	25'894	25'894
2012-209 Soltermann	-	-	40'521	-	-	-	-	-	40'521
2013-148 Bodenmiller	-	-	91'132	-	-	97'500	-	-	188'632
2013-149 Gstaiger	-	-	32'747	-	-	133'000	-	199'000	364'747
2014-269 MoDeLoMX	165'000	165'000	165'082	0	150'900	153'167	2	-	318'248
2014-270 Zippellius	150'628	225'314	135'084	-10	180'653	93'167	-48	304'794	533'045
Total	315'628	390'314	450'682	43	331'553	490'716	48	529'688	1'471'086

Table 27b: Approved Transfer Project resources allocated and reported in 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2012-196 Koeppl	308'868	308'868	308'868	-0	129'000	283'892	120	151'999	744'759
2012-207 EvolutionX	180'000	180'000	180'000	0	80'000	97'924	22	269'695	547'619
2012-208 Helmchen	280'000	280'000	280'000	-	107'000	116'152	9	289'749	685'902
2012-209 Soltermann	296'848	296'848	211'025	-29	159'000	79'501	-50	150'550	441'076
2013-148 Bodenmiller	200'000	200'000	199'949	-0	348'000	97'500	-72	430'430	727'879
2013-149 Gstaiger	232'000	232'000	248'913	7	228'000	337'186	48	314'000	900'099
2014-269 MoDeLoMX	300'000	300'000	291'707	-3	301'800	289'717	-4	-	581'425
2014-270 Zippellius	300'000	300'000	143'387	-52	360'589	97'667	-73	304'794	545'848
Total	2'097'716	2'097'716	1'863'850	-11	1'713'389	1'399'539	-18	1'911'217	5'174'607

Table 27c: Consolidation of all TF Projects with the resources split according to cost type and funding category

TF

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	222'806	278'492	403'932	81	258'303	490'716	90	345'038	1'239'686
Consumables	92'822	111'822	27'596	-70	-	-	-	63'622	91'219
Miscellaneous	-	-	19'154	-	-	-	-	121'028	140'182
Equipment	-	-	-	-	73'250	-	-100	-	-
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	315'628	390'314	450'682	43	331'553	490'716	48	529'688	1'471'086

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	1'654'602	1'654'602	1'530'145	-8	1'089'889	1'310'466	20	1'081'139	3'921'751
Consumables	277'914	237'914	195'938	-29	50'000	2'000	-96	168'777	366'715
Miscellaneous	8'700	48'700	83'142	856	-	14'274	-	157'028	254'444
Equipment	156'500	156'500	54'624	-65	546'500	72'799	-87	116'500	243'923
Infrastructure	-	-	-	-	27'000	-	-100	-	-
Various	-	-	-	-	-	-	-	387'773	387'773
Total	2'097'716	2'097'716	1'863'850	-11	1'713'389	1'399'539	-18	1'911'217	5'174'607

3.14 International Activities (IntAct)

The International Activities (IntAct) project type aims to fund Swiss scientists within transnational systems biology research projects, in particular within the ERA-Net ERASysAPP (<https://www.erasysapp.eu/>). Within this European Research Area (ERA) network, each country funds its own research groups. SystemsX.ch was mandated to represent Switzerland in ERASysAPP, and therefore funds participating Swiss research groups. Although IntAct Projects are not necessarily limited to ERASysAPP, no other IntActs were approved.

All projects were active in 2016, and although some are still in their ramping-up phase and others are phasing out, only few funds were used in some projects. In 2016, the IntAct Projects used a total of CHF 750'341, whereas CHF 1'038'897 was paid out (see Figure 22, Table 28a, Table 28b and Table 28c).

As yet, no IntAct Projects have the status "project closed".

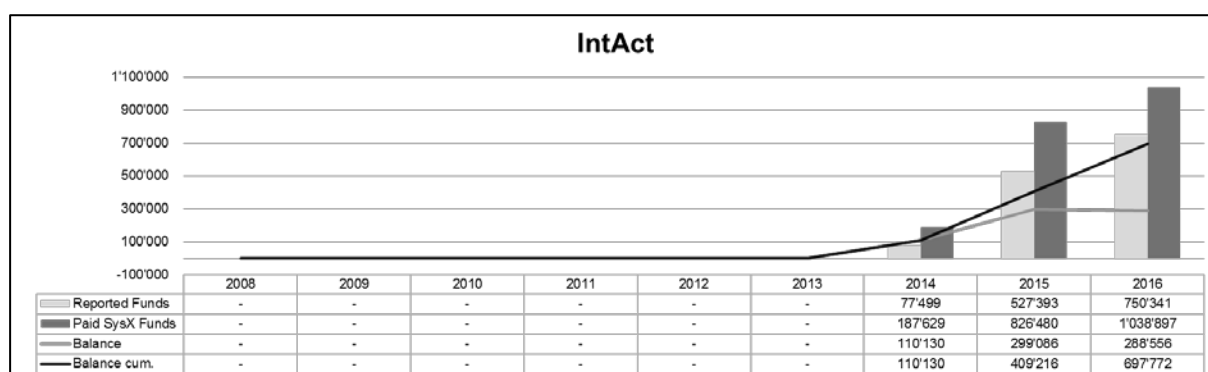


Figure 22: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for IntAct Projects in CHF

Table 28a: Approved International Activities Project resources allocated and reported in 2016

IntAct projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2014-234 Fairdom	263'721	263'721	206'068	-22	-	56'800	-	-	262'868
2014-254 SysVirDrug	81'177	105'385	71'476	-12	-	76'500	-	-	147'976
2014-255 SysMetEx	127'100	161'558	99'898	-21	-	60'000	-	-	159'898
2014-256 SysMetAPP	125'191	153'109	154'662	24	-	157'821	-	-	312'482
2014-257 SysMilk	137'000	167'551	127'315	-7	-	-	-	-	127'315
2015-313 RobustYeast	99'307	99'307	83'100	-16	-	-	-	-	83'100
2015-314 Rootbook	88'266	88'266	7'824	-91	-	-	-	-	7'824
Total	921'762	1'038'897	750'341	-19	-	351'121	-	-	1'101'461

Table 28b: Approved International Activities Project resources allocated and reported in 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
2014-234 Fairdom	659'322	659'321	520'498	-21	-	447'100	-	-	967'598
2014-254 SysVirDrug	258'506	188'118	88'307	-66	-	126'500	-	-	214'807
2014-255 SysMetEx	398'200	294'763	108'884	-73	-	92'000	-	-	200'884
2014-256 SysMetAPP	320'316	391'747	322'344	1	-	276'210	-	-	598'553
2014-257 SysMilk	400'000	302'489	224'278	-44	-	44'167	-	-	268'444
2015-313 RobustYeast	128'302	128'302	83'100	-35	-	-	-	-	83'100
2015-314 Rootbook	88'266	88'266	7'824	-91	-	-	-	-	7'824
Total	2'252'912	2'053'005	1'355'233	-40	-	985'976	-	-	2'341'209

Table 28c: Consolidation of all IntAct Projects with the resources split according to cost type and funding category

IntAct

Year 2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	803'988	904'462	693'137	-14	-	303'000	-	-	996'137
Consumables	58'212	67'578	25'091	-57	-	371	-	-	25'462
Miscellaneous	59'562	66'857	32'077	-46	-	4'450	-	-	36'527
Equipment	-	-	35	-	-	43'300	-	-	43'335
Infrastructure	-	-	-	-	-	-	-	-	-
Various	-	-	-	-	-	-	-	-	-
Total	921'762	1'038'897	750'341	-19	-	351'121	-	-	1'101'461

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported
Personnel	2'009'177	1'828'854	1'237'509	-38	-	662'467	-	-	1'899'975
Consumables	141'713	126'694	63'439	-55	-	4'759	-	-	68'199
Miscellaneous	102'022	97'458	53'482	-48	-	4'450	-	-	57'932
Equipment	-	-	803	-	-	266'300	-	-	267'103
Infrastructure	-	-	-	-	-	48'000	-	-	48'000
Various	-	-	-	-	-	-	-	-	-
Total	2'252'912	2'053'005	1'355'233	-40	-	985'976	-	-	2'341'209

3.15 Medical Research and Development Projects (MRD)

Medical Research and Development Projects (MRD) are large, interdisciplinary projects concerning medically, and ideally clinically, based research. They are similar to RTD Projects, last for three years and can receive up to CHF 2.5 million. This project category was launched in 2014 as part of the 10th call for proposals. This was the first and only call for MRD Projects. Nine MRD Projects were approved by the SNSF in November 2014 with a total amount of CHF 18.6 million.

In 2016 the projects spent twice as much as last year, using more or less as much as they received in 2016 (see *Figure 24, Table 29a, Table 29b and Table 29c*). As for most project types, MRDs also use most of the funds for personnel (see *Figure 23*).

In 2016, the MRD Projects used a total of CHF 6'233'252, whereas CHF 6'633'972 was paid out (see *Figure 24*).

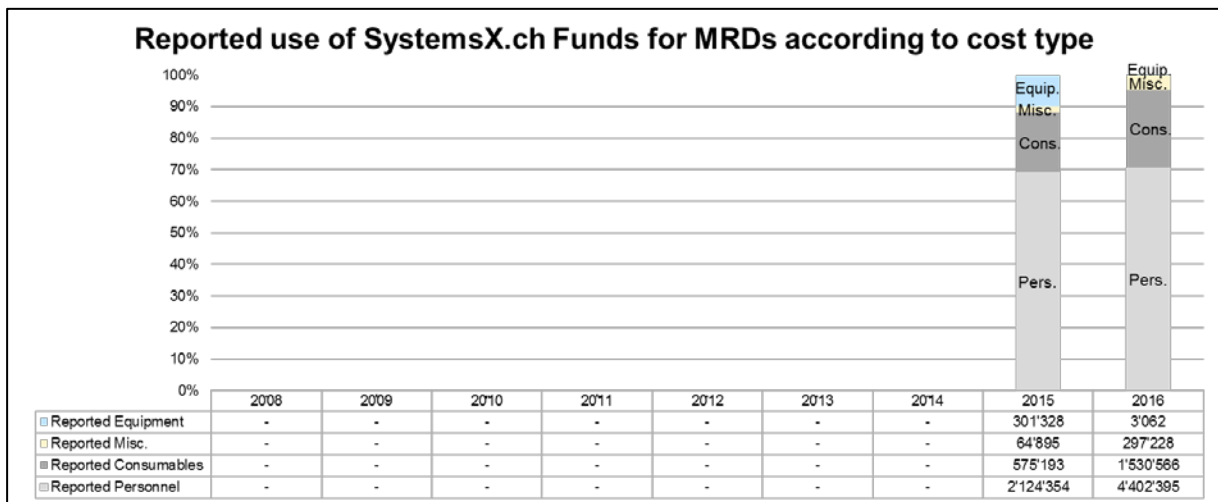


Figure 23: Overview of reported use of SystemsX.ch Funds for MRDs according to cost type in percentage and CHF

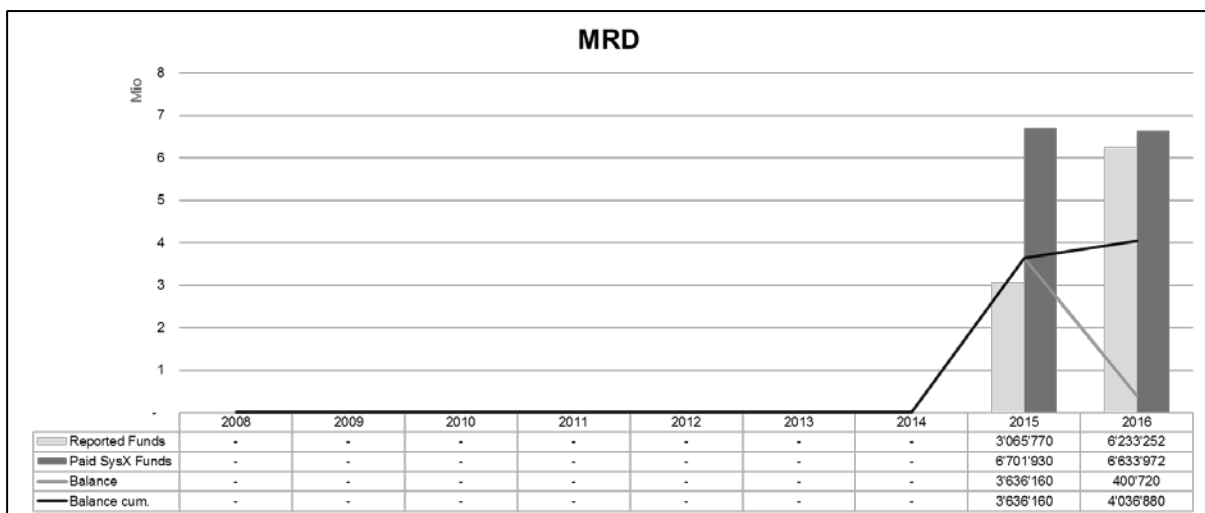


Figure 24: Overview of the reported use of SystemsX.ch Funds and paid SystemsX.ch Funds for MRD Projects in CHF

Table 29a: Approved MRD Project resources allocated and reported in 2016

MRD projects

Year 2016	SystemsX.ch				Own Contributions			Third P	Total	
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported	
2014-260 PrionX	484'973	484'973	519'521	7	380'550	529'987	39	-	1'049'509	
2014-261 AneuX	710'112	710'112	674'610	-5	802'000	893'890	11	-	1'568'500	
2014-262 HIV-X	908'400	908'400	958'476	6	1'008'992	833'818	-17	-	1'792'294	
2014-263 GutX	825'324	825'324	574'332	-30	1'209'300	1'004'500	-17	-	1'578'832	
2014-264 VirX	817'518	817'518	691'168	-15	609'000	678'328	11	-	1'369'496	
2014-265 MelanomX	640'000	640'000	811'187	27	826'431	578'271	-30	-	1'389'459	
2014-266 StemSysMed	833'740	833'740	579'955	-30	862'500	844'365	-2	-	1'424'319	
2014-267 HDL-X	673'000	673'000	574'754	-15	533'000	771'807	45	-	1'346'562	
2014-268 MetastasiX	740'905	740'905	849'248	15	815'500	992'794	22	-	1'842'042	
Total	6'633'972	6'633'972	6'233'252	-6	7'047'273	7'127'760	1	-	13'361'012	

Table 29b: Approved MRD Project resources allocated and reported in 2008–2016

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total	
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported	
2014-260 PrionX	969'946	969'946	912'352	-6	851'100	921'212	8	-	1'833'565	
2014-261 AneuX	1'417'917	1'417'917	1'049'578	-26	1'630'500	1'553'035	-5	52'000	2'654'613	
2014-262 HIV-X	1'938'371	1'938'371	1'325'309	-32	2'220'750	1'663'909	-25	-	2'989'219	
2014-263 GutX	1'519'117	1'519'117	633'108	-58	2'418'600	1'444'842	-40	-	2'077'950	
2014-264 VirX	1'544'990	1'544'990	971'289	-37	1'788'080	1'190'402	-33	-	2'161'690	
2014-265 MelanomX	1'525'041	1'525'041	1'359'556	-11	1'681'963	929'984	-45	-	2'289'540	
2014-266 StemSysMed	1'705'980	1'705'980	1'077'202	-37	2'037'122	1'851'248	-9	-	2'928'450	
2014-267 HDL-X	1'243'000	1'243'000	668'105	-46	1'499'500	1'223'218	-18	-	1'891'323	
2014-268 MetastasiX	1'471'540	1'471'540	1'302'522	-11	1'824'600	1'651'237	-10	-	2'953'759	
Total	13'335'902	13'335'902	9'299'022	-30	15'952'215	12'429'087	-22	52'000	21'780'109	

Table 29c: Consolidation of all MRD Projects with the resources split according to cost type and funding category

MRD

Year 2016	SystemsX.ch				Own Contributions			Third P	Total	
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported	
Personnel	4'598'422	4'598'422	4'402'395	-4	6'237'481	6'302'193	1	-	10'704'588	
Consumables	1'948'992	1'948'992	1'530'566	-21	-	220'752	-	-	1'751'318	
Miscellaneous	81'558	81'558	297'228	264	-	39'164	-	-	336'393	
Equipment	5'000	5'000	3'062	-39	809'792	556'842	-31	-	559'904	
Infrastructure	-	-	-	-	-	8'809	-	-	8'809	
Various	-	-	-	-	-	-	-	-	-	
Total	6'633'972	6'633'972	6'233'252	-6	7'047'273	7'127'760	1	-	13'361'012	

01.01.2008 - 31.12.2016	SystemsX.ch				Own Contributions			Third P	Total	
	Budget	Paid	Reported	Delta %	Budget	Reported	Delta %	Reported	Reported	
Personnel	8'862'031	8'862'031	6'526'749	-26	12'469'852	10'194'955	-18	-	16'721'704	
Consumables	3'953'282	3'953'282	2'105'759	-47	-	296'208	-	-	2'401'967	
Miscellaneous	213'548	213'548	362'123	70	-	39'164	-	-	401'288	
Equipment	307'041	307'041	304'391	-1	1'859'750	1'445'375	-22	-	1'749'765	
Infrastructure	-	-	-	-	1'622'613	453'385	-72	-	453'385	
Various	-	-	-	-	-	-	-	52'000	52'000	
Total	13'335'902	13'335'902	9'299'022	-30	15'952'215	12'429'087	-22	52'000	21'780'109	