

**GridPP**  
UK Computing for Particle Physics

**GridPP Project Management Board**

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# GridPP Financial Status

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Author	<b>PMB</b>

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## Overview

This is an updated financial report for the GridPP4 project, covering the extension year FY15 known as GridPP4+. For completeness the status of the accounts at the close of the FY14 for the GridPP4 project are also shown as these were not complete at the time of the last Oversight Committee meeting.

## GridPP4 Financial Status

Table-1 below shows the GridPP4 financial situation at the end FY14 in terms of hardware, staff costs in each of the areas of the project and miscellaneous expenditure, which includes items such as travel. Spend in bold has been finalised. Note: WP G contains Travel, OPN costs and minor miscellaneous costs.

WP		FY11	FY12	FY13	FY14	Total
A	Tier-1 Staff	<b>£1,213,352</b>	<b>£1,363,603</b>	<b>£1,354,366</b>	<b>£1,364,973</b>	<b>£5,296,294</b>
	Tier-1 Hardware (inc RAL PPD Tier2)	<b>£1,714,683</b>	<b>£1,069,292</b>	<b>£1,755,474</b>	<b>£1,830,717</b>	<b>£6,370,166</b>
B	Tier-2 Staff	<b>£1,462,272</b>	<b>£1,523,895</b>	<b>£1,595,731</b>	<b>£1,731,012</b>	<b>£6,312,909</b>
	Tier-2 Hardware	<b>£892,000</b>	<b>£0</b>	<b>£1,120,500</b>	<b>£684,500</b>	<b>£2,697,000</b>
C	Dep/Ops/Support	<b>£600,118</b>	<b>£598,425</b>	<b>£540,957</b>	<b>£608,018</b>	<b>£2,347,518</b>
D	Experiment Support	<b>£388,590</b>	<b>£447,581</b>	<b>£433,789</b>	<b>£372,835</b>	<b>£1,642,795</b>
E	Management	<b>£344,234</b>	<b>£328,281</b>	<b>£276,230</b>	<b>£286,554</b>	<b>£1,235,299</b>
F	KE/EI and admin	<b>£34,416</b>	<b>£35,277</b>	<b>£33,244</b>	<b>£34,158</b>	<b>£137,094</b>
G	Travel and Other Costs	<b>£289,732</b>	<b>£298,498</b>	<b>£347,572</b>	<b>£313,247</b>	<b>£1,249,049</b>
<b>TOTAL</b>		<b>£6,939,397</b>	<b>£5,664,852</b>	<b>£7,457,863</b>	<b>£7,226,013</b>	<b>£27,288,125</b>

Table-1: GridPP4 at the end of FY14 shown in bold

Total Project Spend	<b>£27,288,125</b>
<b>Total funds available for GridPP4</b>	<b>£27,363,163</b>
<b>Project Balance (under-spend)</b>	<b>£75,038</b>

Table-2: GridPP4 Project Balance.

	FY11	FY12	FY13	FY14	Total
<b>University Grants</b>	£2,980,161	£2,192,903	£3,296,146	£2,888,957	£11,358,167
<b>SLA Capital</b>	£1,452,440	£1,187,292	£1,272,486	£1,297,497	£5,209,715
<b>SLA Resource</b>	£2,506,796	£2,284,657	£2,889,231	£3,039,559	£10,720,243

Table-3 Showing the University grants and the Capital/Resource SLA split.

Notes:

- a) The overall project spend shows a 0.3% underspend.
- b) The average SLA pay cost per FTE in FY14 was £83,204. Projects have been charged average pay per band, rather than the actual pay for each individual.
- c) The University Grants in Table-3 includes both Staff costs and Tier-2 Hardware.
- d) The OPN cost is shown in WP G along with the travel budget.

## GridPP4+ Financial Status

Table-4 below shows the provisional (not yet audited) GridPP4+ financial situation at the end FY15 in terms of hardware, staff costs in each of the areas of the project and miscellaneous expenditure, which includes items such as travel. Spend in bold has been finalised. Note: WP G contains Travel, OPN costs and minor miscellaneous costs.

WP		FY15
A	Tier-1 Staff	£1,518,831
	Tier-1 Hardware	£2,388,523
B	Tier-2 Staff	£1,719,996
	Tier-2 Hardware	<b>£1,246,853</b>
C	Dep/Ops/Support	£623,092
D	Experiment Support	£378,820
E	Management	£283,539
F	KE/EI and admin	£30,421
G	Travel and Other Costs	£237,082
<b>TOTAL</b>		<b>£8,427,157</b>

Table-4: GridPP4+ at the end of FY15

<b>Total Project Spend</b>	<b>£8,427,157</b>
<b>Total funds available for GridPP4+</b>	<b>£8,500,984</b>
<b>Project Balance (under-spend)</b>	<b>£73,827</b>

Table-5: GridPP4+ Project Balance.

<b>University Grants</b>	<b>£3,365,984</b>
<b>SLA Capital</b>	<b>£2,072,038</b>
<b>SLA Resource</b>	<b>£2,989,135</b>

Table-6 Showing the University grants and the Capital/Resource SLA split.

Notes:

- a) The GridPP4+ project budget shows a 1% underspend.
- b) The average SLA pay cost per FTE in FY15 was £87494. Projects have been charged average pay per band, rather than the actual pay for each individual.
- c) The University Grants in Table-3 includes both Staff costs and Tier-2 Hardware.
- d) The OPN cost is shown in WP G along with the travel budget.
- e) The Tier-1 & Tier-2 hardware funding was all spent in FY15, as shown in Table-4 above. We purchased additional tape media at the Tier-1 to make use of underspend in Resource elsewhere in the project.

## **GridPP4+ Staff effort**

GridPP quarterly reports have now been submitted for Q1 2016, so staff effort can be tracked for all four quarters of the project.

- The staffing levels at the Tier-1 averaged out at 17.8. This resulted in under-booking at the Tier-1 due partially to staff losses and partially in working to a lower target level. This was necessary due to increased overhead costs and restructuring to move to the lower FTE level that was funded in GridPP5.
- Despite the staffing issues, the Tier-1 has been able to run successfully. There has been a noticeable increase in time taken to apply OS bug patches to keep up with security issues which has affected service availability. There have been recent staff losses in the database group.
- The Management area was affected by the Tier-1 manager being promoted to SCD Division Head. Some duties have been shared within the group but the overall bookings were reduced compared to that planned.
- In Q116 the NGI manager left to take on new roles.
- During this period, the GridPP Production Manager began transitioning to joint working on the SKA project leading to some under reporting. This move is seen as strategically important for collaboration and sharing technologies between GridPP and SKA and features explicitly in GridPP5 planning - in which the PM role is split across two institutes.

The effort delivered in FY15 is shown below in Table-7. The FTE equivalent funded by GridPP and the percentage delivered is shown. GridPP has benefitted from additional effort funded from external non GridPP sources including EGI and University funds.

Work Area	GridPP funded effort (FTE)	Percentage of GridPP funded effort delivered	Additional effort delivered (FTE)	Total % effort delivered
Management	2.4	98	0.6	123
Miscellaneous	1.0	100	0.0	100
Operations + experiment	11.0	98	2.1	116
Tier-1	17.8	91	1.1	97
Tier-2	20.9	102	6.1	132
<b>Total</b>	<b>53.1</b>	<b>97</b>	<b>9.9</b>	<b>115</b>

Table-7: Effort delivered during GridPP4+ ( FY15 )

## GridPP Travel

The travel spend in FY15 is shown in yellow in Figure-1 below, and follows the trend of previous years. The figures are gathered from the UK SBS system and are provisional at this stage as not all expense claims will have been processed.

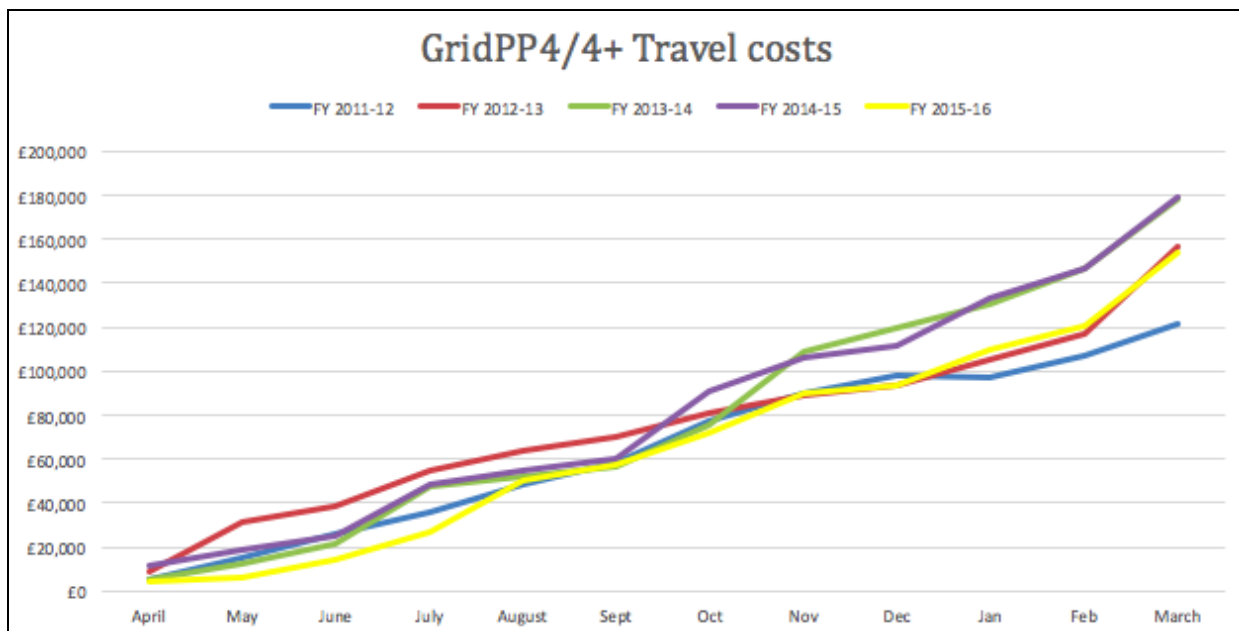


Figure-1: GridPP travel budget

Some of the anticipated FY15 travel costs have slipped into FY16, primarily due to the GridPP36 collaboration meeting and the HEPiX meeting falling in early April rather than late March.

The travel budget remains closely controlled; the larger meetings where many people could attend are looked at carefully eg CHEP, HEPiX, WLCG Collaboration meetings etc. Generally only people actively contributing are funded to attend.

## GridPP5 Financial Planning

The GridPP5 project planned costs are shown below in Table-8. The University staff grants have all been issued and started. The hardware levels are taken from the 90% of Flat Cash funding scenario from the proposal. The STFC RAL based staff costs are based on the latest costings from STFC. The reduced travel allocation and normalised academic management levels have been applied.

WP	Area	GridPP 5 Staff	FY16	FY17	FY18	FY19	Cost
1	Tier-1	16.0	£1,548,128	£1,548,247	£1,291,833	£1,291,833	£5,680,041
	Hardware		£943,470	£1,843,316	£1,268,977	£1,192,120	£5,247,883
2	Tier-2	17.4	£1,625,424	£1,469,799	£1,405,126	£1,359,845	£5,860,194
	Hardware		£1,125,787	£606,798	£788,313	£661,739	£3,182,637
3	Deployment, Operations and Support Activities	10.5	£975,105	£972,425	£974,411	£974,411	£3,896,353
4	Management, Administration, Impact	2.1	£173,759	£173,759	£173,759	£173,759	£695,034
	Travel		£153,000	£153,000	£153,000	£153,000	£612,000
	<b>Grand Total</b>	<b>46.1</b>	<b>£6,544,672</b>	<b>£6,767,344</b>	<b>£6,055,419</b>	<b>£5,806,707</b>	<b>£25,174,142</b>

Table-8: GridPP5 Project planned costs

## Summary

The financial status at the end of the GridPP4 project and that of the GridPP4+ project at the end of FY15 have been presented. The GridPP4+ project shows a provisional underspend of £73,827 compared to the funds actually made available. This is about 1% under budget and is primarily due to under booking of staff at RAL as a consequence of staff leaving and difficulty of re-appointing when a step-down to the GridPP5 effort level is required.

The project received 97% of the funded effort by the end of Q116 and the deficit was more than made up by additional effort funded from other sources, bringing the total delivered effort to 115% of that expected.

The financial plan for GridPP5 was presented.