



THE SENATE
SELECT COMMITTEE INTO THE SCRUTINY OF GOVERNMENT BUDGET MEASURES

Melbourne Public Hearing – 11 March 2016
Questions Taken on Notice – Professor Karoly

1. HANSARD, Page 22

Prof. Karoly: I collaborate with the British Met Office in terms of their climate modelling capability. I evaluate their model and the ACCESS model was developed in conjunction with the UK Met Office, but it is an Australian model with an Australian developed ocean model and an Australian developed land surface atmosphere interaction model. The UK model has never been evaluated directly for its performance in Australia, unlike the Australian model, which is evaluated all the time for its performance in Australia. The development that is being undertaken in the UK is focused on improving the modelling of that model and the capabilities for Europe and the UK, not for Australia.

CHAIR: Can I clarify one thing. You mentioned in your opening statement the dollars that have been invested in salaries and intellectual property over the years. Do you have any idea—or could you provide on notice—how much time and money has been put into developing this model?

Prof. Karoly: I could take it on notice. I am not the best person to do that. I would need to contact people in CSIRO to get that information. Would you like me to get that information?

CHAIR: If you could, yes, thank you.

ANSWER:

See attached.

Sum 06/07 - 15/16

	FTEs	CSIRO Investment (\$M)	DotE Investment (\$M)	Other external investment (\$M)	Total (\$M)
ACCSP	110	12.9	12.9		25.8
CSIRO Strategic	107	25.1			25.1
Other co-investment	8	1.0		0.8	1.8
Total	225	39.0	12.9	0.8	52.7

This is an estimate on total FTEs and expenditure on ACCESS summed over the period 06/07 - 15/16. The expenditure includes both direct costs (labour and opex) and overheads as per the CSIRO costing sheets.

Notes:

(1) Cost of computing at NCI is not explicitly included.

(2) There was substantial expenditure in the development of the preceding CSIRO Mk2 and Mk3 models, over more than two decades, via mostly ACCSP and CSIRO strategic, with further contribution from QCCCE for CMIP5. This expenditure helped develop expertise which then flowed into ACCESS model development. Expenditure on CSIRO Mk2/3 is not included in the figures.