

# Queensland Government research and development expenditure report 2010-11

Compiled by the Office of the Queensland Chief Scientist

January 2012

*Based on information supplied by Queensland Government agencies on their research and development expenditure for the 2010-11 financial year. The Office of the Queensland Chief Scientist would like to thank staff for their continued collaboration in collecting research and development data.*

# 1. Purpose of report

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## Introduction

The Queensland Government invests in research and development (R&D) to provide the knowledge, technologies and tools necessary to meet the challenges and harness the opportunities for a strong, green, smart, healthy and fair Queensland.

While much of the required knowledge and tools can be adopted from elsewhere, there are Queensland-specific issues and opportunities that impact the economy, environment and Queenslanders' health and wellbeing that require the State's R&D efforts. R&D also provides a means to capitalise on our natural and intellectual resources and help convert them into economic outcomes for the State.

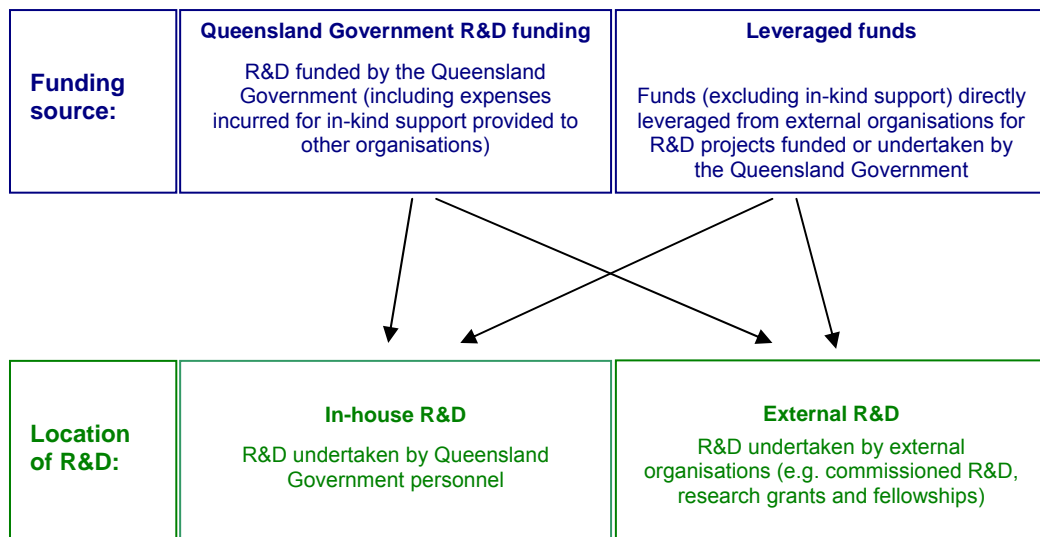
The Queensland Government is involved in R&D in several ways:

- undertaking in-house R&D – to guide policy decisions and underpin service delivery
- commissioning research – to inform policy and decision making
- facilitating external research – through grants, fellowships, infrastructure investments and a range of initiatives that support Queensland R&D.

## Scope

This report provides financial information on the R&D investments of the Queensland Government, and monies these investments have leveraged from external sources, for the 2010-11 financial year (see Figure 1).

Figure 1: Breakdown of R&D expenditure included in the report<sup>1</sup>



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<sup>1</sup> Queensland Government R&D expenditure reported here differs from that reported by the Australian Bureau of Statistics, which refers solely to Queensland Government in-house R&D (funded by the Queensland Government and external sources).

The report includes an analysis of:

- the level of R&D expenditure reported by Queensland Government agencies
- the breakdown of R&D by the funding source, i.e. who provided the funding
- the breakdown of R&D by location, i.e. the sector<sup>2</sup> performing the R&D
- the alignment of R&D expenditure with the 14 Queensland R&D objectives (see Table 1).

**Table 1: Queensland's current R&D priorities and objectives<sup>3</sup>**

Queensland R&D priorities	Queensland R&D objectives	to provide the knowledge, tools and technologies required to .....
<b>Enabling sciences &amp; technologies</b>	Enabling sciences & technologies	<ul style="list-style-type: none"> <li>• support development of capabilities in the enabling sciences and technologies</li> </ul>
<b>Environmentally sustainable Queensland</b>	Ecosystems	<ul style="list-style-type: none"> <li>• protect and restore Queensland's diverse ecosystems</li> </ul>
	Land	<ul style="list-style-type: none"> <li>• sustain and restore Queensland's land and soil</li> </ul>
	Atmosphere	<ul style="list-style-type: none"> <li>• mitigate air pollution and adapt to climate change</li> </ul>
	Water	<ul style="list-style-type: none"> <li>• ensure a sustainable balance between water demand and supply</li> </ul>
<b>Smart industries</b>	Industry development	<ul style="list-style-type: none"> <li>• build Queensland's knowledge-intensive industries</li> </ul>
	Food & fibre industries	<ul style="list-style-type: none"> <li>• enhance productivity and create new value-adding products and services in Queensland's food and fibre industries</li> </ul>
	Energy & resources industries	<ul style="list-style-type: none"> <li>• support safe, sustainable and competitive energy and resources industries</li> </ul>
	Infrastructure, planning & services	<ul style="list-style-type: none"> <li>• plan for and deliver cost-effective, efficient infrastructure and services</li> </ul>
<b>Tropical opportunities</b>	Tropical opportunities	<ul style="list-style-type: none"> <li>• create globally competitive tropical expertise industries</li> </ul>
<b>Health &amp; wellbeing</b>	Health	<ul style="list-style-type: none"> <li>• prevent disease and deliver top quality patient care at sustainable cost</li> </ul>
	Community wellbeing	<ul style="list-style-type: none"> <li>• identify and address the causes of disadvantage and better integrate the delivery of community services</li> </ul>
	Education & training	<ul style="list-style-type: none"> <li>• underpin quality education and training for all Queenslanders</li> </ul>
<b>Safeguarding Queensland</b>	Safeguarding Queensland	<ul style="list-style-type: none"> <li>• manage and prevent crime, biosecurity threats and natural and non-natural disasters</li> </ul>

<sup>2</sup> E.g. universities, business, private non-profit

<sup>3</sup> As of July 2010, the Queensland Government has defined 14 R&D objectives – falling within six R&D priority areas – that address social, environmental and economic issues and opportunities for the State. A profile for each Queensland R&D objective can be found in the [Queensland research and development investment strategy 2010-2020](#).

## R&D definition

R&D is defined in accordance with the Organisation for Economic Cooperation and Development (OECD) definition (also used by the Australian Bureau of Statistics) as:

*creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.*<sup>4</sup>

It does not include science activities such as routine monitoring and data collection, quality control, or scientific and technical services. Several Queensland Government departments, such as the Department of Environment and Resource Management, undertake various and important science related activities that do not adhere to the above R&D definition, and so such activities are not captured in this report. The R&D definition also excludes market research, operations research or statistical analyses, policy-related studies, routine computer programming, and the extension or commercialisation of R&D.

## Other definitions and categories used

R&D expenditure refers to monies expended (excluding goods and services tax) in the indicated financial year. It includes capital expenditure for R&D facilities, such as the acquisition of land and buildings, and current expenditure, including labour costs, project materials, administration and other overheads, and the costs of indirect services (e.g. library materials and computer services).<sup>5</sup>

Leveraged funds refer to cash contributions by external organisations towards R&D projects funded or performed by the Queensland Government. They include direct contributions only, that is, that expenditure forming part of an R&D contract or agreement. In cases where the Queensland Government does not hold the financial records for amounts expended on a project in 2010-11 by external organisations, leveraged funds are calculated pro rata (based on the proportional overall commitment by organisations to the project and the Queensland government's expenditure on the project in 2010-11). Leveraged funds do not include in-kind support.

The definitions used for different R&D sectors (e.g. universities, business, private non-profit) referred to in this report are equivalent to those used by the Australian Bureau of Statistics.

In the context of this report, *Queensland Government R&D funding* refers to monies provided from departmental budgets. *Total Queensland Government R&D expenditure* includes both Queensland Government funding and leveraged funds.

## Data collection

R&D expenditure data are provided to the Office of the Queensland Chief Scientist by each of the Queensland Government's 13 departments, as well as statutory authorities and bodies<sup>6</sup> that fund or perform R&D.

Data are not collected from Government-owned corporations, which for R&D reporting purposes are captured under the business sector (i.e. in business expenditure on R&D).

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<sup>4</sup> *Frascati Manual 2002: Proposed Standard Practice for Surveys on Research and Experimental Development*, OECD, Paris, 2002.

<sup>5</sup> The definition of capital expenditure used here differs from that used by the Australian Bureau of Statistics in that it only refers to expenditure on buildings, land and research facilities. Further details of definitions and categories used by the Australian Bureau of Statistics can be found at <http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/8104.0Glossary12009-10>.

<sup>6</sup> E.g. QIMR, Translink, Queensland Museum

## **2. Snapshot of R&D expenditure 2010-11**

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### **Queensland Government R&D funding**

- a. In 2010-11, the Queensland Government funded \$295M of R&D, a decrease of \$70M (19%) compared with 2009-10.<sup>7</sup>
- b. Of this \$295M, 54% was spent in-house (72% in 2009/10) and 46% externally (28% in 2009/10). Funding allocated externally increased by \$31M (30% over 2009/10).
- c. The Department of Employment, Economic Development and Innovation (DEEDI) invested the largest amount of R&D funding, 79% of total Queensland Government R&D (86% in 2009-10).
- d. Infrastructure accounted for \$109M of the Queensland Government's R&D funding in 2010-11 (compared with \$163M in 2009-10), and current expenditure for the remaining \$186M (compared with \$201M in 2009-10).

### **In-house R&D**

- e. The Queensland Government's funding for in-house R&D in 2010-11 was \$161M, a decrease of \$101M (39%) compared with 2009-10.
- f. Overall, the total R&D expenditure in in-house R&D (including leveraged funds) was \$286M, down \$26M (8%) compared with 2009-10.

### **External R&D**

- g. However, the Queensland Government's \$134M funding for external R&D in 2010-11 was a \$32M increase over 2009-10 levels.

### **Leveraging**

- h. Despite the substantial decrease in the Queensland Government's R&D funding, there was a \$204M (100%) increase in the amount of R&D funds leveraged from external sources (\$405M). This resulted in a total R&D expenditure of \$700M, compared with \$566M in 2009-10.
- i. Thus for every \$1.00 invested in R&D by the Queensland Government, \$1.37 was leveraged from external sources, compared with \$0.55 in 2009-10.
- j. Each \$1.00 spent on in-house R&D leveraged \$0.78 (\$0.19 in 2009-10); each \$1.00 spent externally leveraged \$2.09 (\$1.48 in 2009-10).
- k. The contribution of business to total R&D decreased from 9% (\$50M) in 2009-10 to 3% (\$24M) in 2010-11.

### **Allocation by R&D objective**

- l. Of the 14 Queensland R&D objectives, the Health objective received the largest allocation of funds – 51% of total R&D expenditure, up from 18% in 2009-10. The Health objective includes biomedical research and it is likely that the bulk of research is being undertaken in this area, rather than in health per se.

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<sup>7</sup> R&D expenditure figures for 2009-10 have been revised since the *2009-10 Queensland Government R&D expenditure report* based on amended figures provided by the Department of Employment, Economic Development and Innovation (DEEDI) for the ZeroGen project.

- m. The next largest investment areas were enabling Sciences and Technologies (12% of total R&D) and energy and Resources Industries (11% of total R&D)>
- n. As in 2009-10, the Education and Training and the Infrastructure, Planning and Services R&D objectives received the smallest amounts of R&D funding (each receiving less than 1% of total R&D expenditure).

**Note**

- (i) This report details the significant decrease in Government R&D funding between 2009/10 and 2010/11. The decrease is primarily associated with the reduction in capital expenditure associated with the completion of major infrastructure projects such as the Ecosciences Precinct at Boggo Road, the Translational Research Institute (TRI) and the Smart State Medical Research Institute (SSMRI).
- (ii) The reasons behind the corresponding, and also significant, improvement in financial leverage remain unclear. Improved reporting accuracy appears to be one component of this.

**Table 2: Total Queensland Government R&D expenditure 2010-11**

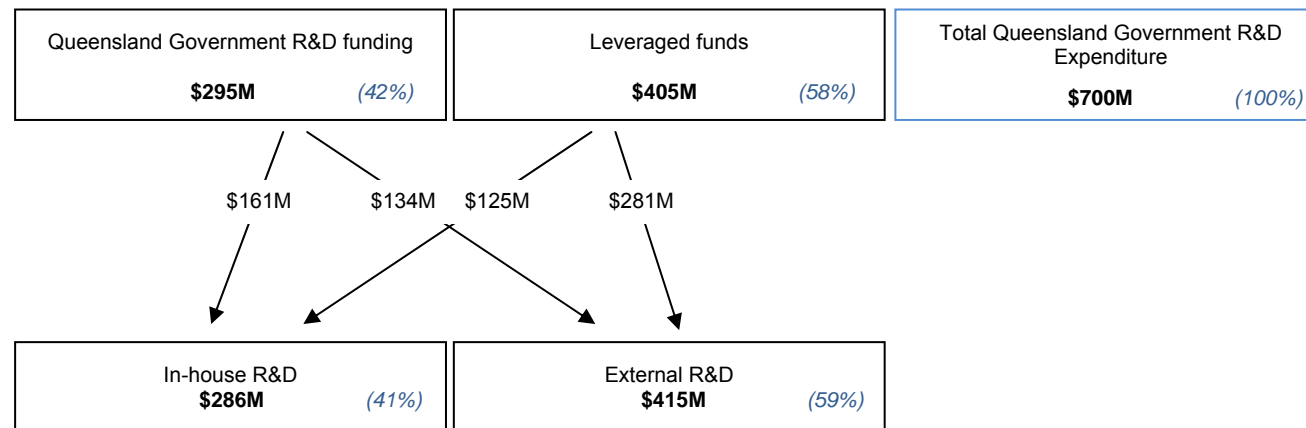
Qld Government R&D Expenditure (\$M)	In-house R&D – Qld Gov funds (\$M)	In-house R&D – Leveraged funds (\$M)	In-house R&D – Qld Gov + Leveraged funds (\$M)	External R&D – Qld Gov funds (\$M)	External R&D – Leveraged funds (\$M)	External R&D – Qld Gov + Leveraged funds (\$M)	Total R&D Expenditure – Qld Gov + Leveraged funds, In-house + External (\$M)
<b>2009-10</b>							
365	262 (72%)*	50 (\$0.19) <sup>†</sup>	312	103 (28%)*	151 (\$1.48) <sup>†</sup>	254	566
<b>2010-11</b>							
295	161 (54%)*	125 (\$0.78) <sup>†</sup>	286	134 (46%)*	281 (\$2.09) <sup>†</sup>	415	701

\* Percentage of Queensland Government expenditure

<sup>†</sup> Leveraging rate

Note: In 2010/11, the total leveraged funds (\$405M) was capital \$178.6M (44%), and current (operational) of \$226.9M (56%). Comparatively, in 2009/10: Capital \$59.4M (30%) and current \$141.6M (70%).

**Figure 2: R&D expenditure 2010-11\***



\* Numbers have been rounded, resulting in individual amounts not always adding up to totals.

### 3. R&D expenditure by funding source (who provides the funding)

In order to maximise its investments in R&D, the Queensland Government leverages funds from external organisations. Many Queensland Government grants require an equal contribution from the recipient, and research infrastructure investments usually involve partner contributions. The Queensland Government also secures competitive research grants for in-house R&D from the Federal Government and other sources.

In 2010-11, the Queensland Government expended \$295M on R&D, including \$109M on infrastructure (capital expenditure; \$163M in 2009-10) and \$186M on current expenditure (\$201M in 2009-10). The majority of capital expenditure was for the construction of four major research institutes: the Translational Research Institute (TRI); the Smart State Medical Research Institute (SSMRI); and the Queensland Government's Health and Food Sciences Precinct at Coopers Plains and Ecosciences Precinct at Boggo Road.

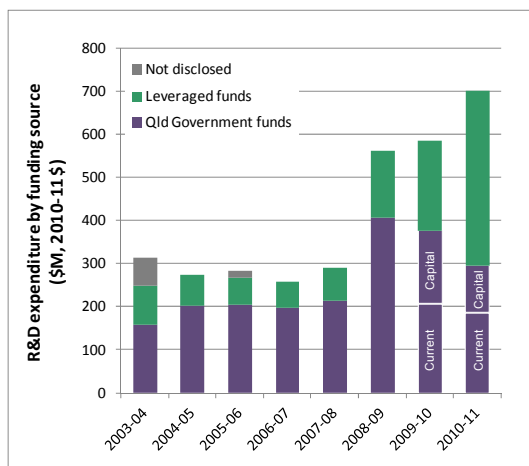
This represents a reduction of \$70M (19%) in Queensland Government R&D funding compared with 2009-10, comprising a \$54M (33%) reduction in capital expenditure and a \$16M (8%) decrease in current expenditure. Indeed, Figure 3 shows a consistent downward trend in Queensland Government R&D investments since 2008-09. This is primarily due to the completion of a range of major Smart State Strategy projects and programs during this period.

This downward trend in Queensland Government investment is in contrast to the significant increase in R&D funds leveraged from external sources over the same period. For every \$1.00 invested by the Queensland Government in R&D in 2010-11, \$1.37 was leveraged from external sources (\$0.55 in 2009-10), resulting in a total of \$405M in leveraged funds.

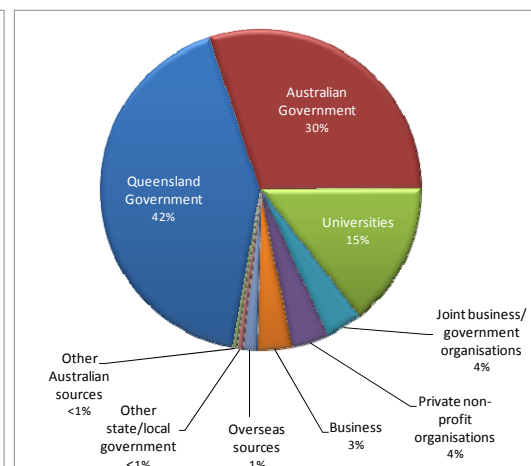
This is an increase of \$204M (100%) compared with 2009-10, despite a reduction in the Queensland Government's R&D funding over the same period. Around 70% (\$280M) of these funds were leveraged for the above three research infrastructure projects, together with the ZeroGen clean coal project and the operational funding of the Institute for Molecular Bioscience and the Queensland Brain Institute.

This is the highest leveraging rate ever reported by the Queensland Government and potentially reflects the increasingly inter-disciplinary and collaborative nature of R&D, as well as improved accuracy in reporting.

**Figure 3: Total R&D expenditure by funding source, 2003-04 to 2010-11\*†**



**Figure 4: Total R&D expenditure by funding source, 2010-11\***



\* Includes Queensland Government R&D expenditure and leveraged funds; 2006-07 to 2009-10 figures have been revised based on amended figures provided by DEEDI for the ZeroGen project.

† Categorisation of expenditure into capital and current expenditure was only implemented from 2009-10 onwards.



Leveraged funds were primarily sourced from the Australian Government (\$210M, 30% of total R&D expenditure, up from 16% in 2009-10) (Figure 4). There was also a substantial increase in funds leveraged from universities (\$102M, 15% of total R&D expenditure, up from 3%). However, the contribution of businesses decreased from 9% (\$50M) in 2009-10 to 3% (\$24M) of total R&D expenditure. This is of concern, requiring further evaluation.

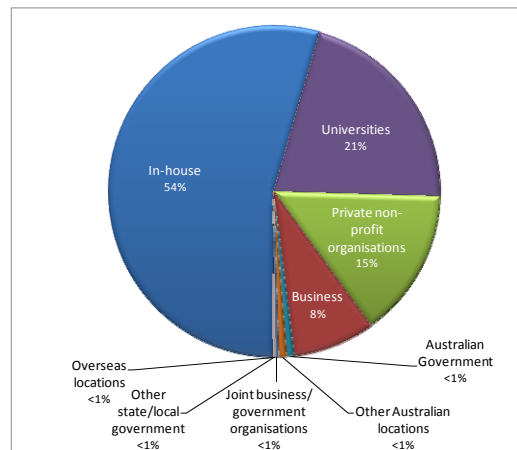
#### 4. R&D expenditure by location (the sector performing the R&D)

The Queensland Government performs R&D in-house, as well as taking part in collaborative projects with external organisations, and commissioning research to inform policy decisions. Through research grants, fellowships and infrastructure investments, the Queensland Government also supports R&D in other sectors.

In 2010-11, there was a significant shift in the proportional allocation of Queensland Government funds between in-house and external R&D. In 2009-10, 72% (\$262M) of government funds was invested in in-house R&D and 28% (\$103M) in external R&D. In 2010-11, only 54% (\$161M) was invested in in-house R&D, while 46% (\$134M) was invested in external R&D. This is primarily due to the large \$158M infrastructure expenditure in 2009-10 on the construction of the government's Health and Food Sciences and Ecosciences Precincts.

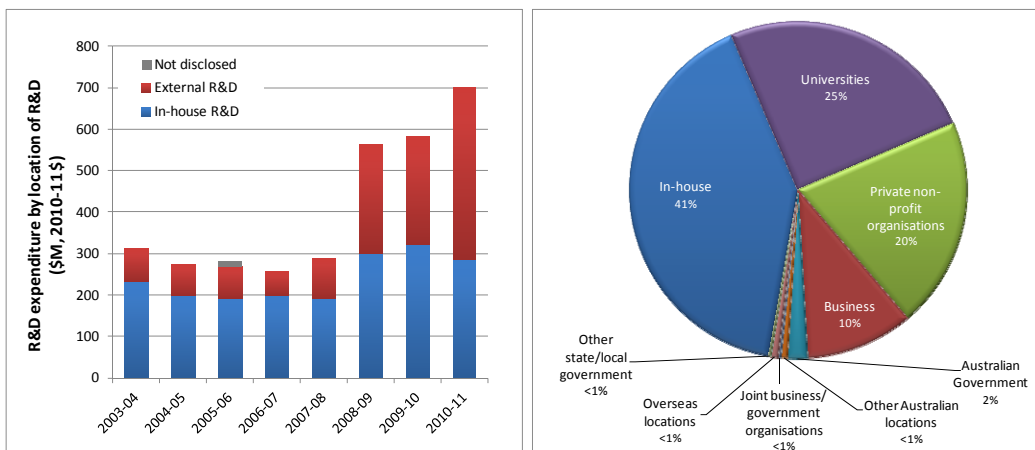
Consistent with previous years, universities received the greatest share of Queensland Government funds (21% compared with 18% in 2009-10). The share of funds provided to private non-profit organisations increased substantially in 2010-11 due to government contributions to the TRI.

**Figure 5: Queensland Government R&D expenditure by location, 2010-11**



The \$101M decrease in the Queensland Government's funding for in-house R&D was partially offset by the \$67M leveraged for the SSMRI (based at the Queensland Institute for Medical Research, a Queensland Government statutory authority). Overall, the total investment in in-house R&D was \$286M, down \$26M (8%) compared with 2009-10 (Figure 6). As indicated in Figure 5, universities and private non-profit organisations accounted for the largest external share of total R&D expenditure (Figure 7).

**Figure 6: Total R&D expenditure by location, 2003-04 to 2010-11\***      **Figure 7: Total R&D expenditure by location, 2010-11\***



\* Includes Queensland Government R&D expenditure and leveraged funds; 2006-07 to 2009-10 figures have been revised based on amended figures provided by DEEDI for the ZeroGen project.

## 5. R&D expenditure of Queensland Government agencies

The spread of Queensland Government R&D expenditure across Queensland Government agencies is displayed in Table 3.<sup>8</sup> More detailed information on departmental R&D expenditure is provided in Appendix 1. In addition, detailed information on innovation investments from 1998-present is provided in Appendix 2

DEEDI accounted for the vast majority (79%) of Queensland Government R&D expenditure in 2010-11, broadly consistent with previous years (86% in 2009-10). However, DEEDI's investment decreased by \$78M (25%) compared with 2009-10, reflected in the 'innovation' sub-grouping in Table 3, is primarily due to a reduction in capital expenditure (particularly on the Health and Food Sciences and Ecosciences Precincts).

The R&D funding by other Queensland Government agencies remained stable, except for the Department of Transport and Main Roads (DTMR), whose R&D expenditure fell from \$10.9M in 2009-10 to \$3.4M in 2010-11 (a 69% decrease). The reason for this is due to a range of factors:

- Major one-off equipment purchases through the Australian Road Research Board in 2009-10.
- Ad hoc projects undertaken in 2009-10 did not continue beyond that year.
- More stringently applied R&D definition in 2010-11 to expenditure.
- It is usual for DTMR to spend in the vicinity of \$3.5 M on average, which aligns with the 2010-11 expenditure.

<sup>8</sup> For more detailed information on departmental R&D expenditure, see Appendix 1. For information on Smart State innovation investments from 1998-2008, see Appendix 2.

**Table 3: R&D expenditure of Queensland Government agencies, 2009-10 and 2010-11<sup>†</sup>**

Queensland Government Agency	R&D Expenditure			Est. 2011-12 Budget (\$M)
	2009-10 (\$M)	2010-11 (\$M)	2010-11 (%)	
Dept of Employment, Economic Development & Innovation	310.7	232.8	78.9%	106.60
<i>Innovation</i>	214.3	136.2	46.2%	-
<i>Primary industries</i>	66.4	65.2	22.1%	102.00
<i>Energy</i>	16.9	18.8	6.4%	3.31
<i>Mining</i>	12.7	12.5	4.2%	0.75
<i>Other</i>	0.4	0.1	0.0%	0.58
Dept of Environment & Resource Management	12.2	13.5	4.6%	18.70
Queensland Health	11.3	10.3	3.5%	7.23
Queensland Treasury (incl. Motor Accident Insurance Commission)	5.1	5.7	1.9%	6.02
Dept of Education & Training	3.6	3.9	1.3%	n/a
Dept of Transport & Main Roads	10.9	3.4	1.1%	n/a
Dept of Communities	3.1	2.5	0.8%	n/a
Queensland Museum	2.5	2.3	0.8%	3.25
Dept of Community Safety	1.5	1.5	0.5%	1.90
Dept of the Premier and Cabinet	0.8	0.7	0.2%	0.47
Dept of Public Works	0.4	0.5	0.2%	0.30
Dept of Justice & Attorney-General	0.3	0.4	0.1%	n/a
Dept of Local Government & Planning	-	0.2	0.1%	0.07
Queensland Police Service	0.2	0.1	0.0%	n/a
Other statutory bodies and government agencies*	1.7	17.4	5.9%	n/a
<b>Total</b>	<b>365</b>	<b>295</b>	<b>100%</b>	<b>144.54</b>

\* For 2009-10, 'other statutory bodies and government agencies' included Queensland Government R&D expenditure for which the department/agency was not disclosed. For 2010-11, 'other statutory bodies and government agencies' included: Translink, Queensland Art Gallery, Urban Land Development Authority, Office of the Public Trustee, Office of the Public Advocate and the Queensland Institute of Medical Research (QIMR).

Note, R&D investments of QIMR and some other agencies have not been collected to date. (Values for QIMR here were reported by DEEDI.) This is likely to have resulted in under-reporting of Queensland Government R&D. Further reports will seek to capture statutory bodies and authorities.

<sup>†</sup>R&D Expenditure was attributed to the Queensland Government agency funding the R&D. In some instances, this differed from the department reporting the R&D expenditure. As such, values here may differ from the values reported by individual Queensland Government agencies to the Office of the Queensland Chief Scientist.

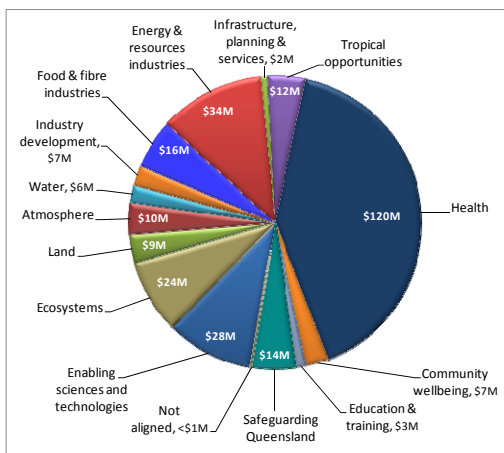
## 6. Alignment of R&D expenditure with the current Queensland R&D objectives

### Proportion of R&D expenditure aligned with each R&D objective

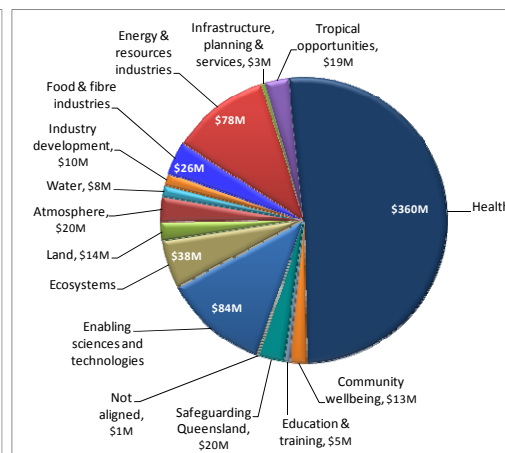
In July 2010, the Queensland Government released the *Queensland research and development investment strategy 2010-2020*, an overarching framework to guide Queensland Government R&D investments. It articulated 14 R&D objectives to focus the government's investment in R&D (see Table 1).

For this report, R&D projects are aligned with the 14 Queensland R&D objectives. In cases where an R&D project is relevant to two or more R&D objectives, its expenditure is apportioned between the relevant objectives so that the proportion of Queensland Government R&D funds (and total R&D funds) invested in each objective area could be estimated (Figures 8 and 9); see also appendix 1.

**Figure 8: Queensland Government R&D expenditure by R&D objective, 2010-11**



**Figure 9: Total R&D expenditure by R&D objective, 2010-11\***



\* Includes Queensland Government R&D expenditure and leveraged funds.

There was a very strong investment in the Health R&D objective area, accounting for 51% of total R&D expenditure (and 41% of Queensland Government R&D investments). This substantial increase compared with 2009-10, where the Health objective accounted for 18% of total R&D funding, is due to investments in the TRI and SSMRI. The Health R&D objective includes biomedical research and it is likely that the bulk of research is being undertaken in this area, rather than in health per se.

The next largest investment areas were Enabling Sciences and Technologies<sup>9</sup> (12% of total R&D) and Energy and Resources Industries (11% of total R&D).

As in 2009-10, the Infrastructure, Planning and Services, and the Education and Training R&D objectives received the smallest proportion of funding (0.4% and 0.7% of total R&D expenditure, respectively).

<sup>9</sup> E.g. ICT, biotechnology, nanotechnology and clean technologies.

## Total value of projects related to each R&D objective

In the analysis on previous pages, the expenditure on projects relevant to more than one R&D objective was divided between objectives. However, just because a project is relevant to more than one R&D objective does not mean that its contribution to achieving each of those objectives is diminished. A project relevant to more than one objective has a multiplier effect rather than a diminished impact on each objective (e.g. a solar energy R&D project does not have a lesser contribution to the energy and mining sector just because it also reduces greenhouse gases and thus contributes to the atmosphere R&D objective).

Therefore, to get a sense of the overall R&D investment by the Queensland Government towards each R&D objective, Table 4 A gives the *total value* of all projects related to each R&D objective (Queensland Government expenditure excluding leveraged funds), assuming that the total value of each project can be assigned to each relevant R&D objective. It should be noted that, consequently, the sum of these values will be significantly greater than the Queensland Government investment in R&D.

**Table 4A: Queensland Government R&D expenditure 2010-11 – overall investment towards each R&D objective**

Queensland R&D objective	\$M
Health	158
Ecosystems	83
Enabling sciences and technologies	73
Safeguarding Queensland	70
Energy & resources industries	65
Tropical opportunities	62
Food & fibre industries	61
Atmosphere	53
Land	39
Industry development	35
Water	32
Community wellbeing	12
Education & training	5
Infrastructure, planning & services	4

**Table 4B: Queensland Government R&D expenditure 2010-11 – overall investment towards each R&D priority**

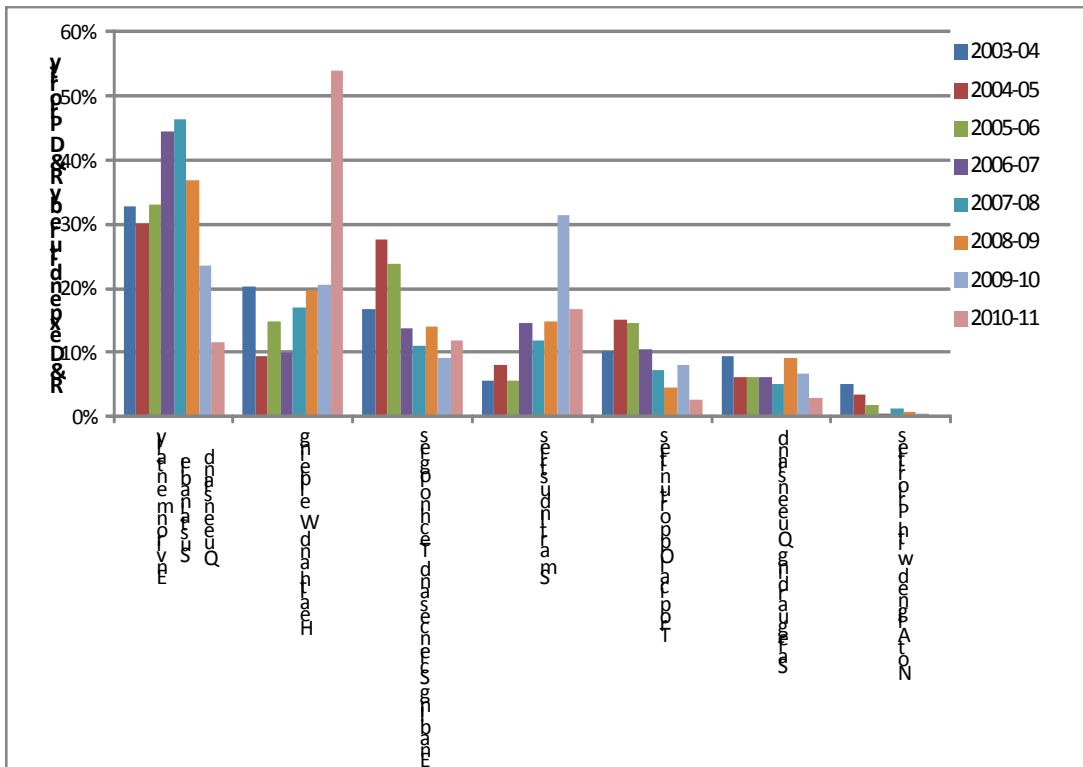
Queensland R&D priority	\$M
Enabling sciences & technologies	73
Environmentally sustainable Queensland	207
Smart Industries	165
Tropical opportunities	62
Health & wellbeing	176
Safeguarding Queensland	70

## Alignment of R&D expenditure with the Queensland R&D priorities over time

Each of the 14 Queensland R&D objectives aligns with one of six Queensland R&D priorities (see Tables 1 and 4B). R&D expenditure has been aligned with the Queensland R&D priorities since 2003-04, allowing for the analysis of trends over time (Figure 10).

The proportion of R&D expenditure related to Health and Wellbeing (including the Health, Community Wellbeing, and Education and Training objectives) more than doubled in 2010-11. This correlated with a decrease in the proportion of R&D aligned with all but the Enabling Sciences and Technologies R&D priority. Again, as mentioned, this proportional shift towards Health and Wellbeing research is primarily due to large investments in medical research infrastructure in 2010-11.

Figure 10: R&D Expenditure by Queensland R&D priority, 2003-04 to 2010-11\*†



\* Includes Queensland Government R&D expenditure and leveraged funds.

† Queensland Government R&D priorities were revised in 2006. Original (2003/04-2005/06) and revised (2006/07-2009/10) Queensland R&D priorities have been grouped as appropriate. Environmentally Sustainable Queensland and Safeguarding Queensland R&D priorities remained unchanged throughout.

## 7. Conclusions

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With the completion of several large R&D infrastructure projects in recent years, there has been a decrease in the Queensland Government's funding for R&D since 2008-09, remembering that this report captures expenditure in a financial year, not funds committed.

However, this decrease has been matched by an increase in funds leveraged by the Queensland Government from external sources in the same period, resulting in a net increase in total R&D expenditure in 2010-11.

As the TRI and SSMRI infrastructure projects come to a close in 2012, it is likely that Queensland Government and leveraged R&D funds will drop substantially in 2012-13.

Investments in R&D relating to the Education and Training, and the Infrastructure, Planning and Services R&D objectives remain proportionally low. However, the Department of Education and Training increased their R&D expenditure in 2010-11 and are actively working toward making it even stronger.

The relatively low investment in R&D in Infrastructure and Planning is worthy of further investigation, as it could play a role in informing the State's ability to manage population growth and urbanisation into the future. R&D that has infrastructure application could also play a vital role in helping to achieve the Q2 target of *Queensland is Australia's strongest economy with infrastructure that anticipates growth*.

To date the Queensland Government R&D expenditure reports have been essentially backward looking, ie recording what has been expended. The challenge is to, in addition, apply more strategic insight and planning to the Queensland Government's R&D expenditure and investment.

If possible, and given the constraints of expenditure being conducted across a number of departments and through their individual annual budget processes, it may be advantageous to consider the government's forward R&D investment planning, over the next three years for example. This is an issue that the R&D Queensland Committee will consider in their discussions regarding a whole-of-government approach to investment in R&D.

## APPENDIX 1

**Table A1.1: In-house Queensland Government R&D expenditure by agency 2010-11\***

Queensland Government Agency	Total in-house R&D (\$M)	% of Total
<b>Dept of Employment, Economic Development &amp; Innovation</b>	124.2	43.5%
<i>Innovation</i>	22.1	7.7%
<i>Primary industries</i>	89.7	31.4%
<i>Energy</i>	0.1	0.0%
<i>Mining</i>	12.0	4.2%
<i>Other</i>	0.3	0.1%
<b>Dept of Environment &amp; Resource Management</b>	16.3	5.7%
<b>Queensland Health</b>	28.1	9.9%
<b>Motor Accident Insurance Commission (MAIC), Queensland Treasury</b>	-	0.0%
<b>Dept of Education &amp; Training</b>	2.8	1.0%
<b>Dept of Transport &amp; Main Roads</b>	1.0	0.3%
<b>Dept of Communities</b>	1.2	0.4%
<b>Queensland Museum</b>	4.0	1.4%
<b>Dept of Community Safety</b>	1.4	0.5%
<b>Dept of Justice &amp; Attorney-General</b>	-	0.0%
<b>Dept of Local Government &amp; Planning</b>	-	0.0%
<b>Dept of Public Works</b>	0.2	0.1%
<b>Dept of the Premier and Cabinet</b>	0.1	0.0%
<b>Queensland Police Service</b>	0.2	0.1%
<b>Other statutory bodies and government agencies*</b>	106.1	37.1%
<b>Total</b>	<b>286</b>	<b>100%</b>

\* Includes Queensland Government funding and leveraged funding sources. R&D expenditure was attributed to that Queensland Government agency performing the R&D. In some instances, this differed from the department reporting the R&D expenditure. As such, values here may differ from the values reported by individual Queensland Government agencies.



**Table A1.2: Total Queensland Government R&D expenditure by agency  
( Queensland Government funding + leveraged funds) 2010-11**

Queensland Government Agency	Qld Gov R&D Expenditure (\$M)	% of Total	Leveraged Funds (\$M)	% of Total	Qld Gov + Leveraged Funds (\$M)	% of Total
<b>Dept of Employment, Economic Development &amp; Innovation</b>	232.8	78.9%	299.2	73.8%	532.0	75.9%
<i>Innovation</i>	136.2	46.2%	219.6	54.2%	355.9	50.8%
<i>Primary industries</i>	65.2	22.1%	37.5	9.3%	102.7	14.7%
<i>Energy</i>	18.8	6.4%	39.6	9.8%	58.4	8.3%
<i>Mining</i>	12.5	4.2%	2.2	0.5%	14.7	2.1%
<i>Other</i>	0.1	0.0%	0.3	0.1%	0.3	0.0%
<b>Dept of Environment &amp; Resource Management</b>	13.5	4.6%	5.1	1.3%	18.7	2.7%
<b>Queensland Health</b>	10.3	3.5%	21.8	5.4%	32.1	4.6%
<b>Motor Accident Insurance Commission (MAIC), Queensland Treasury</b>	5.7	1.9%	1.6	0.4%	7.3	1.0%
<b>Dept of Education &amp; Training</b>	3.9	1.3%	1.9	0.5%	5.8	0.8%
<b>Dept of Transport &amp; Main Roads</b>	3.4	1.1%	0.7	0.2%	4.1	0.6%
<b>Dept of Communities</b>	2.5	0.8%	4.4	1.1%	6.9	1.0%
<b>Queensland Museum</b>	2.3	0.8%	2.0	0.5%	4.2	0.6%
<b>Dept of Community Safety</b>	1.5	0.5%	0.4	0.1%	1.9	0.3%
<b>Dept of Justice &amp; Attorney-General</b>	0.4	0.1%	0.1	0.0%	0.5	0.1%
<b>Dept of Local Government &amp; Planning</b>	0.2	0.1%	-	0.0%	0.2	0.0%
<b>Dept of Public Works</b>	0.5	0.2%	0.3	0.1%	0.7	0.1%
<b>Dept of the Premier and Cabinet</b>	0.7	0.2%	-	0.0%	0.7	0.1%
<b>Queensland Police Service</b>	0.1	0.0%	0.0	0.0%	0.2	0.0%
<b>Other statutory bodies and government agencies*</b>	17.4	5.9%	67.8	16.7%	85.2	12.2%
<b>Total</b>	<b>295</b>	<b>100%</b>	<b>405</b>	<b>100%</b>	<b>700</b>	<b>100%</b>

\* For 2009-10, 'other statutory bodies and government agencies' included Queensland Government R&D expenditure for which the department/agency was not disclosed. For 2010-11, this category included: Translink, Queensland Art Gallery, Urban Land Development Authority, Office of the Public Trustee, Office of the Public Advocate and QIMR. Note, R&D investments of QIMR and some other agencies have not been collected to date. (Values for QIMR here were reported by DEEDI.) This is likely to have resulted in under-reporting of Queensland Government R&D.

†R&D Expenditure was attributed to the Queensland Government agency funding the R&D. In some instances, this differed from the department reporting the R&D expenditure. As such, values here may differ from the values reported by individual Queensland Government agencies. For projects funded by multiple Queensland Government agencies, leveraged funds were divided equally between the agencies. Funds leveraged for in-house R&D were attributed to the department performing the R&D.

**Table A1.3: Queensland Government R&D expenditure by R&D objective, 2010-11**

R&D Priorities / R&D Objectives	R&D expenditure (\$M)			R&D expenditure (%)		
	Qld Government	Leveraged funds	Total expenditure	Qld Government	Leveraged funds	Total expenditure
Enabling sciences and technologies	28.4	55.4	83.8	9.6%	13.7%	12.0%
Environmentally sustainable Qld	49.3	31.8	81.2	16.7%	7.8%	11.6%
<i>Ecosystems</i>	24.1	14.2	38.3	8.2%	3.5%	5.5%
<i>Land</i>	9.4	5.1	14.5	3.2%	1.3%	2.1%
<i>Atmosphere</i>	10.4	9.6	19.9	3.5%	2.4%	2.8%
<i>Water</i>	5.5	2.9	8.4	1.9%	0.7%	1.2%
Smart industries	59.2	58.3	117.4	20.1%	14.4%	16.8%
<i>Industry development</i>	6.7	3.5	10.2	2.3%	0.9%	1.5%
<i>Food &amp; fibre industries</i>	16.1	10.1	26.2	5.5%	2.5%	3.7%
<i>Energy &amp; resources industries</i>	34.4	44.0	78.4	11.6%	10.9%	11.2%
<i>Infrastructure, planning &amp; services</i>	2.1	0.6	2.7	0.7%	0.1%	0.4%
Tropical opportunities	12.4	6.6	19.1	4.2%	1.6%	2.7%
Health and wellbeing	130.9	247.1	378.0	44.4%	60.9%	54.0%
<i>Health</i>	120.3	239.7	360.0	40.8%	59.1%	51.4%
<i>Community wellbeing</i>	7.3	6.1	13.4	2.5%	1.5%	1.9%
<i>Education &amp; training</i>	3.3	1.3	4.6	1.1%	0.3%	0.7%
Safeguarding Queensland	14.3	6.0	20.3	4.8%	1.5%	2.9%
Not aligned	0.6	0.2	0.8	0.2%	0.0%	0.1%
<b>Total</b>	<b>295</b>	<b>405</b>	<b>700</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

## APPENDIX 2 –Smart State Investment 1998-2011

Since 1998 the Government has invested significantly in facilities, projects and people under the umbrella of the Smart State initiative

The detailed financials of these investments have been updated by DEEDI and are summarised below. More detail is provided in the following pages.

DEEDI will retain responsibility for maintaining an ongoing reconciliation of Smart State investments.

Smart State Investment	Qld Gov Committed (\$M)	Skills	Projects	Buildings	Leveraged Funds (\$M)	QG+ Leverage (\$M)
<b>Smart State External Funding*</b>						
Through DEEDI, 1998-2011	1,360	48	397	915	2,712	4,072
Through other QG agencies 1998-2008*	439	22	231	187	n/a	439
Additional commitment in May 2011	100	-	-	-	n/a	100
<b>sub-total</b>	<b>1,899</b>	<b>70</b>	<b>628</b>	<b>1,102</b>	<b>2,712</b>	<b>4,611</b>
<b>Queensland Government in-house R&amp;D</b>						
1998-2004	1,440	-	1,440	-	n/a	1,440
2004/05 - 2009/10	930	-	930	-	475	1,405
2010/11 <sup>†</sup>	118	4	97	17	125	243
<b>Sub-total</b>	<b>2,488</b>	<b>4</b>	<b>2,467</b>	<b>17</b>	<b>600</b>	<b>3,088</b>
<b>Related investments</b>						
(inc in-kind support) 1998-2011	174	-	174	-	n/a	174
Smart State education reforms	326	306	19	1	n/a	326
<b>Sub-total</b>	<b>500</b>	<b>306</b>	<b>193</b>	<b>1</b>	<b>n/a</b>	<b>500</b>
<b>Grand Total</b>	<b>4,887</b>	<b>380</b>	<b>3,288</b>	<b>1,120</b>	<b>3,312</b>	<b>8,199</b>

<sup>†</sup>Smart State external funding includes those programs (past and present) and one-off major investments that directly align with the Government's Smart State Strategy, for example:

- Smart Futures Fund
- Smart State Innovation Fund
- Smart State Research Facilities Fund
- National Collaborative Research Infrastructure Strategy
- Health and Medical Research Program

\*No funding through other QG agencies since 2008.

<sup>†</sup>DEEDI Innovation reported \$136.2M QG committed and \$219.6M leveraged funds in 2010/11. DEEDI Innovation R&D is not reported in the QG R&D 2010/11 total as it has already been captured under 'Through DEEDI, 1998-2011'

(n/a = not available)

Source: DEEDI

Figure A2.1: Total Queensland Government Smart State Investment 1998-2011

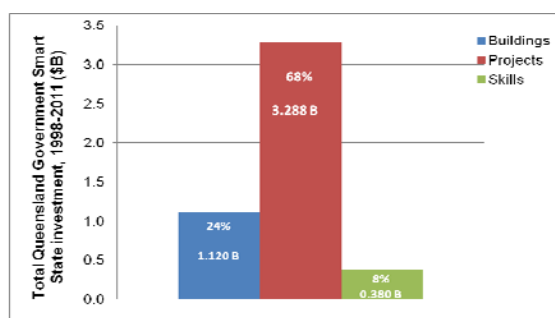
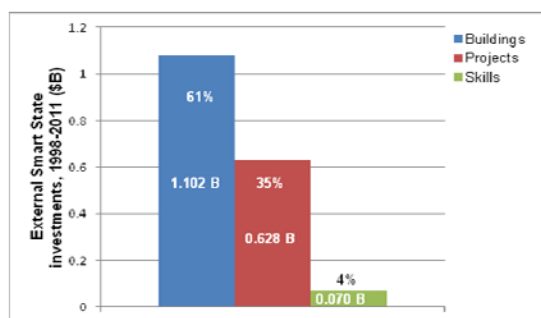


Figure A2.2: Total Smart State External Funding 1998-2011<sup>†</sup>



## All Smart State Funding 1998-2011 (\$4.9B)

Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<b>Infrastructure:</b>		
<b>Bioindustries Strategy</b>	Queensland Bioscience Precinct construction	15.0
	QIMR Clive Berghofer Comprehensive Cancer Centre	28.0
	Institute for Glycomics	8.0
	Centre for Immunology and Cancer Research	0.5
	Herron Laboratories	0.7
<b>Smart State Research Facilities Fund-Round 1</b>	Institute of Health and Biomedical Innovation	22.5
	Australian Computational Earth Systems Simulator	4.5
	Cryo-electron Microscopy Facility	1.5
	Australian Institute for Bioengineering and Nanotechnology	20.0
	Centre of Excellence in Engineered Fibre Composites Design and Development	7.5
	Australian Tropical Forest Institute	7.8
<b>Smart State Research Facilities Fund-Round 2</b>	Mater Medical Research Institute Clinical Trials Centre	10.0
	Wesley Research Institute Clinical Research Centre	0.8
	Institute for Cellular and Molecular Therapies	12.0
	Queensland Microtechnology Facility	3.0
	Tropical Marine Science Centre of Excellence	5.0
	Queensland Animal Breeding Facility	1.7
<b>Smart State Research Facilities Fund-Round 3</b>	Queensland Pre-Clinical Drug Development Facility	8.1
	Translational Research Institute (Money redirected from Queensland Viral Testing and Product Characterisation Centre)	2.5
	Queensland Crop Development Facility	3.5
	Centre for Advanced Animal Science	9.5
	Mater Medical Research Institute Enhancements	3.0
	Medical Engineering Research Facility	5.0
	Queensland Hypersonic Testing Facility Centre	2.2
<b>Research Infrastructure- (One-off)</b>	Queensland Centre for Advanced Technologies	24.0
	Sustainable Minerals Institute	10.0
	Process Engineering and Light Metals Centre	4.0
	Process Engineering and Light Metals Centre	1.0
	Australian Microelectronics Centre	2.8
	Queensland Manufacturing Institute	21.8
	Pharmacy Australia Centre of Excellence	3.4
	Creative Industries Precinct	15.0
	Queensland Parallel Supercomputing Foundation	10.0
	Institute for ICT Innovation (e-health and e-security)	11.4
	Institute for ICT Innovation (e-health)	2.4
	Centre of Excellence for Applied Sport Science Research	2.5
	Queensland Linked ARC Centres of Excellence (Pharmacy Australia and Head & Neck Cancers Centre of Excellence)	4.6
	Other Queensland Linked ARC Centres of Excellence	3.4
	Centre of Excellence in clean energy technologies	9.0
	iJab and Innovation Centre Sunshine Coast	3.6
	Bundaberg Turtle Interpretive Centre	4.4
	Centre for Intellectual Property Research	0.2
	Centre for Native Floriculture establishment	2.0
	Contribution to Griffith Film School	5.0
<b>Smart State Building Fund</b>	Queensland Brain Institute	20.0
	<b>Sub-total:</b>	\$ 342.7

<b>Projects:</b>		
<b>Bioindustries Strategy</b>	Queensland Health Scientific Services	30.0
	Queensland Bioscience Precinct Operational Funding (1999-2009)	77.5
	Queensland Clinical Trials Network	5.0
	Biodiscoveries Network	0.8
	Bioindustries Awareness Program	1.0
<b>Miscellaneous (one-off)</b>	Establishment of the Office of the Queensland Chief Scientist	1.9
	ICT Industry Development Strategy	3.0
	Queensland Cyber Infrastructure Foundation Operational Funding (2004-2007)	6.0
<b>Cooperative Research Centres</b>	Cash	18.2
	Cash	19.5
	In-kind commitment	134.2
<b>Innovation and Commercialisation</b>	BioCapital Fund (funded through Queensland Investment Corporation)	100.0
	Sustainable Technology Initiative	1.5
	Sustainable Energy Innovation Fund	2.8
	Innovation Start-Up Scheme	4.9
	i.Lab Incubation	6.8
	Innovation Centre Sunshine Coast	2.4
	BioStart	3.1
	TeQstart	3.7
	Public communications for Biotechnology	1.5
	BioBus	1.8
	Australian Institute for Commercialisation (Cash)	8.1
	Australian Institute for Commercialisation (In-Kind)	2.0
	Financial ICT Growth (FIG)	0.2
	Financial ICT Growth (FIG)	1.0
	Multimedia Applications Development Fund	0.5
	International Trade Show Assistance Program	0.6
	Queensland Government Intellectual Property Principles	0.7
	Statewide Technology Incubation Strategy	2.2
	Specialist Advice for Growing Technology Business	1.1
	Promoting the adoption of ICT by existing industries	1.0
	Bioaccelerator	1.3
	New technologies for the fibre industry	1.0
	Interactive Games Development Program	0.8
	<b>Strategic Partnerships</b>	Triton Foundation Operational Funding (2002-2006)
Tropical Science Cooperative Framework with WA and Northern Territory		1.4
<b>Research activity undertaken by State Government Agencies (1998-2004)</b>	Research expenditure by State agencies such as the Agency for Food and Fibre Science, Queensland Health and Natural Resources Sciences.	1,440.0
<b>Sub-total:</b>		<b>\$ 1,887.7</b>

<b>Skills:</b>			
<b>Innovation and Commercialisation</b>	ICT Skills, Training & Role Model Grants Program	0.9	
	Workshops to provide commercialisation skills for Queensland innovators	1.3	
<b>Education and Skills</b>	QUT Innovation Train	0.1	
	QUT Innovation Train	0.03	
	Smart State Fellowships	2.4	
	Queensland and Northern Territory Multimedia Centre	2.0	
	Bachelor of Biotechnology Innovation Degree	0.2	
	Growing the Smart State Research Program	0.3	
	Career Awareness Kit	0.1	
	Community Skills Development Program in ICT	1.1	
	Technology Survival Skills Program	1.0	
	Science on Saturday	0.2	
	International Biology Olympiad	0.8	
<b>Strategic Partnerships</b>	Queensland-Smithsonian Fellowships Program (includes funding committed in Smart State 2)	0.6	
<b>Education Queensland - Facility/Infrastructure Development and new Syllabus</b>	Six step action plan to improve science education	14.0	
	ICT for Learning Strategy	99.4	
	ICTInnovators Grants Scheme	1.6	
	Secondary schools renewal program	12.0	
	Technology Maths and Science Centres of Excellence	10.0	
	Upgrades of Science Spaces	2.3	
	Education Queensland Educational Internet Data Centre	21.0	
	Syllabus implementation	2.0	
	Ongoing teacher professional development activities	3.0	
	New syllabus development	2.5	
	Educational advisers	2.2	
	Development of resources	2.0	
	Summer schools	1.4	
	Specific school science grants	0.5	
<b>Miscellaneous (one-off)</b>	Smart State Health and Medical Research Fund	5.2	
<b>Sub-total:</b>		\$ 189.9	
<b>Smart State 2 (2005-2015); includes 2006 one-off investments</b>			
<b>Infrastructure:</b>			
<b>Smart State Innovation Funds - Innovation Building Fund</b>	Mineral Characterisation Research Facility	6.1	
	Queensland Tropical Health Alliance	19.5	
	Queensland Centre for Advanced Materials Processing and Manufacturing	15.0	
	Molecular and Clinical Pathology Research Laboratory	3.0	
	Queensland Smart Water Research Facility	10.0	
	Bionano-product Development Facility	6.5	
	Mackay Renewable Biocommodities Pilot Plant	3.1	
	Tropical Science and Innovation Precinct (TSIP)	9.0	
	Health and Medical Research Unit	10.0	
	MedTeQ - A Facility for Medical Diagnostic Technologies in Queensland	1.8	
	Translational Research Institute	0.5	
	Science and Technology Precinct (STEM)	35.0	
	<b>Smart State Innovation Funds</b>	Extension of Innovation Building Fund (unallocated)	100.0
	<b>Smart State Research Facilities Fund - Round 4</b>	Lizard Island Research Station Upgrade	1.5
Wesley Research Institute Tissue Bank		1.4	
Queensland Compound Library		3.5	
Queensland NMR Network		5.0	
Australian Research Centre for Aerospace Automation		3.5	
Tropical Science and Innovation Precinct		5.0	
The University of Qld and Qld Health Centre for Clinical Research (UQ/QH CCR)		20.0	
<b>Development of a Scale-up Manufacturing Facility</b>	Development of a Scale-up Manufacturing Facility	7.0	
<b>Establish the Golden Casket Medical Research Foundation</b>	Funds from unclaimed lotto win interest	3.5	
<b>Research Infrastructure- (One-off)</b>	Institute of Glycomics Expansion (Stages 1 and 2)	11.0	
	Australian Tropical Herbarium molecular systematics laboratory	0.9	
	UQ Technology and Innovation Building Construction (Stage 1)	4.0	



<b>National Collaboration Research Infrastructure Strategy</b>	NCRIS 5.7 Population Health - Population Health Research Network (QLD Node)	1.0	
	Queensland Cyber Infrastructure Foundation	5.1	
	Analytical Electron Microscopy Facility Linked Laboratory for NCRIS Capability Area 5.3 - Characterisation - Sub-capability Microscopy	0.5	
	The NCRIS capability area 5.11 Terrestrial Ecosystem Research Network	4.1	
	Capability Area 5.1 - Evolving Bio-Molecular Platforms and Informatics - Sub capability Genomics	1.2	
	5.12 - Integrated Marine Observing System - The Great Barrier Reef Ocean Observing System (GBROOS)	4.2	
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - Sub capability Proteomics	2.0	
	The NCRIS capability area 5.13 - Structure and Evolution for the Australian Continent - sub capability Auscope	1.0	
	The NCRIS capability area 5.3 - Characterisation - sub capability Imaging	2.3	
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - sub capability Metabolomics	0.5	
	The Fabrication of advanced materials (including nano-materials) sub capability of the 5.4.1 NCRIS capability area - Fabrication	3.0	
	The NCRIS capability area 5.5a - Biotechnology Products sub category Proteins. Manufacture of recombinant proteins as potential therapeutics	4.0	
	The NCRIS capability area 5.3 - Characterisation - sub capability Microscopy	2.0	
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - sub capability Genomics	0.1	
	NCRIS capability area 5.5 - Biotechnology Products - Subcategory - A Human Cell Expansion	0.9	
	The Great Barrier Reef Ocean Observing System (GBROOS) sub capability of the 5.12 NCRIS capability area - Integrated Marine Observing System	0.3	
	<b>Smart Therapies Institute, Smart State Medical Research Centre and Wesley Research Institute expansion (Election Commitment)</b>	Translational Research Institute	100.0
		Smart State Medical Research Centre (QH)	29.3
Smart State Medical Research Centre (EED)		5.7	
Wesley Research Institute		10.0	
<b>Boggo Road Ecosciences Precinct and Coopers Plains Health and Food Science Precinct</b>	Boggo Road and Coopers Plains	290.0	
<b>Queensland Ethanol Industry Action Plan</b>	Development of Queensland ethanol industry	7.0	
	<b>Sub-total:</b>	<b>\$ 760.0</b>	
<b>Projects:</b>			
<b>Smart State Innovation Funds - Innovation Projects Fund</b>	National and International Research Alliances Program	43.0	
	Research Industry Partnerships Program	13.5	
	Partnerships Alliances Facilitation Program	1.7	
	Other	1.8	
<b>Bioindustries Strategy</b>	Queensland Bioscience Precinct Operational Funding (2009-2014)	50.0	
	Biopharmaceuticals Australia operational funding (2009-2011) and design costs (2008-2011)	6.0	
<b>Miscellaneous - (One-off)</b>	E-health research centre operational funding (2007-2012)	5.0	
	NICTA QLD Laboratory Operational Funding (2007-2012)	10.1	
	Centre for Native Floriculture additional expansion and operational funding	2.0	
	Institute for Sustainable Regional Development research activities (2006-2008)	0.4	
	Innovation Centre Sunshine Coast operational funding (2009-2011)	0.3	
	Queensland Brain Institute Operational Funding (2007-	25.0	
<b>ICT Development</b>	Queensland Cyber Infrastructure Foundation Operational Funding (2007-2011)	8.5	
<b>Innovation and Commercialisation</b>	Australian Aerospace Limited operational enhancement	0.7	
<b>Other</b>	Other one-offs	2.1	



<b>Establishment of the International Water Centre</b>	Water Centre	2.4
<b>Water Initiatives</b>	Urban Demand Management and Alternative Water	4.8
	Regional Water Supply Strategies	9.0
	Improving Groundwater Management	4.1
	Water Management systems	0.7
	Climate Smart communities - water	19.6
	Extra support for water listed water initiatives	13.3
<b>Mining Exploration</b>	Smart Exploration Service	20.0
<b>Development of Biotechnology Commercialisation Pipeline</b>	Pipeline	1.4
<b>Queensland Aquaculture Development Initiative</b>	Aquaculture Development	4.0
<b>New Asian Markets for Horticulture Initiative</b>	Markets	1.5
<b>Expansion of the Innovation Start Up Scheme</b>	SS2 Innovation Start Up Scheme	1.8
<b>Implementation of the Smart ICT - Taking it to the World Package</b>	SICT	18.2
	SICT	0.3
<b>Implementation of the Queensland Government Intellectual Property Register</b>	IP Register	0.7
<b>Research into the eradication of the cane toad</b>	Cane toad research	1.0
<b>Research Infrastructure- (One-off)</b>	Australian Institute of Commercialisation operational	2.9
<b>Strategic Partnerships</b>	Queensland-Israeli Cooperation in Agricultural Research	0.3
	Australia-China Future Dialogues	0.9
	Triton Foundation Operational Funding (2005-2008)	0.8
<b>DEEDI Funded R&amp;D for the years 04/05 - 09/10 (minus EED*)</b>	In-house and external R&D Funded by former Departments of Mines & Energy, Primary Industries & Fisheries, Employment & Industrial Relations and Regulatory Policy.	596.0
<b>Non-DEEDI funded R&amp;D for the years 04/05 - 09/10</b>	In-house and external R&D funded by Queensland Government departments that aren't DEEDI. Significant R&D investment from Queensland Health	334.2
<b>ICT Development</b>	Establishment of the Queensland Internet Security Alliance	0.8
<b>Sugar Research</b>	Sugar Research- Renewable Energy Program	4.1
<b>Innovation and Commercialisation</b>	What's Your Big Idea Queensland	5.5
	Business and Industry Transformation Incentive	6.0
	Business Incubator Operational Funding (2008/2009)	0.8
	UniQuest manager of Innovation and Commercialisation	0.4
	International Trade Show Assistance Program Extension	0.3
	Queensland Architecture to Asia	0.4
	Queensland Wide Innovation Network and Smart Industry Toolbox	2.0
	Creative Business Intelligence Service	0.3
	<b>Sub-total:</b>	\$ 1,228.3
<b>Skills:</b>		
<b>Smart State Innovation Funds</b>	Innovation Skills Fund	12.0
<b>Education Packages for Smart Classrooms and Academies</b>	1300 state schools into Smart Classrooms	56.0
	Two new Smart State Academies	46.0
	Other	25.0
<b>Implementation of the Smart State University Internships Program</b>	University Internships	1.1
	<b>Sub-total:</b>	\$ 140.1

Smart State 3 (2008-2012)		
<b>Infrastructure:</b>		
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	17.0
	<b>Sub-total:</b>	\$ 17.0
<b>Projects:</b>		
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	97.0
Enhanced Innovation Projects Fund	National and International Research Alliances Program	30.2
	Research Industry Partnerships Program	5.6
	Partnerships Alliances Facilitation Program	0.16
	China Program - NIRAP and RIV	0.76
	India Program - NIRAP	0.66
	Centre for Social Science and Innovation	5
	Centre for Emerging and Infectious Diseases	1.5
	Queensland Life Sciences Industry	1.855
	EIF and Super Science Initiatives	1.905
	Other	12.36
Designing Queensland	Ulysses- Transforming business through design	1.1
	Arts Queensland	1.9
Tropical Connections	Qtropics Action Agenda	1.0
Investment Ready Program	R&D Forums and Workshops	0.3
	Technology Clinics	0.9
	Project Facilitation and Network Development	1.0
Health and Medical Research Program	Health and Medical Research Program over 4 years	5.1
Enabling Technologies Program	Improving ICT productivity, biotechnology and therapeutic medicines/devices competitiveness, creative industries market development and nanotechnology discovery program	1.0
Ideas to Market	Incubation services, capability development and commercialisation advice	2.0
	<b>Sub-total:</b>	\$ 171.3
<b>Skills</b>		
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	4.0
Enhanced Innovation Skills Fund	Increased funding to Skills Fund over 4 years	23.4
Health and Medical Research Program	Health and Medical Research Program over 4 years	20.6
Q-Science Program	Q-Science over 4 years	2.0
Queensland-China Climate Change Fellowships	Queensland-China Climate Change Fellowships	0.1
	<b>Sub-total:</b>	\$ 50.0
<b>Additional commitment May 2011</b>		\$ 100.0
	<b>Total:</b>	\$ 4,886.9

BREAKDOWN BY AGENCY		
DEEDI (EED) Smart State Funding 1998-2011 (\$1,360M)		
Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<b>Infrastructure:</b>		
Bioindustries Strategy	Queensland Bioscience Precinct construction	15.0
	Institute for Glycomics	8.0
	Centre for Immunology and Cancer Research	0.5
Smart State Research Facilities Fund-Round 1	Institute of Health and Biomedical Innovation	22.5
	Australian Computational Earth Systems Simulator	4.5
	Cryo-electron Microscopy Facility	1.5
	Australian Institute for Bioengineering and Nanotechnology	20.0
	Centre of Excellence in Engineered Fibre Composites Design and Development	7.5
	Australian Tropical Forest Institute	7.8
Smart State Research Facilities Fund-Round 2	Mater Medical Research Institute Clinical Trials Centre	10.0
	Wesley Research Institute Clinical Research Centre	0.8
	Institute for Cellular and Molecular Therapies	12.0
	Queensland Microtechnology Facility	3.0
	Tropical Marine Science Centre of Excellence	5.0
Smart State Research Facilities Fund-Round 3	Queensland Animal Breeding Facility	1.7
	Queensland Pre-Clinical Drug Development Facility	8.1
	Translational Research Institute (Money redirected from Queensland Viral Testing and Product Characterisation Centre)	2.5
	Queensland Crop Development Facility	3.5
	Centre for Advanced Animal Science	9.5
	Mater Medical Research Institute Enhancements	3.0
	Medical Engineering Research Facility	5.0
Research Infrastructure- (One-off)	Queensland Hypersonic Testing Facility Centre	2.2
	Queensland Centre for Advanced Technologies	24.0
	Sustainable Minerals Institute	10.0
	Process Engineering and Light Metals Centre	4.0
	Australian Microelectronics Centre	2.8
	Queensland Manufacturing Institute	21.8
	Pharmacy Australia Centre of Excellence	3.4
	Creative Industries Precinct	15.0
	Queensland Parallel Supercomputing Foundation	10.0
	Institute for ICT Innovation (e-health and e-security)	11.4
	Queensland Linked ARC Centres of Excellence (Pharmacy Australia and Head & Neck Cancers Centre of Excellence)	4.6
	Centre of Excellence in clean energy technologies	9.0
	i.Lab and Innovation Centre Sunshine Coast	3.6
	Bundaberg Turtle Interpretive Centre	4.4
	Centre for Intellectual Property Research	0.2
	Centre for Native Floriculture establishment	2.0
	Contribution to Griffith Film School	5.0
Smart State Building Fund	Queensland Brain Institute	20.0
	<b>Sub-total:</b>	\$ 304.7

<b>Projects:</b>		
<b>Bioindustries Strategy</b>	Queensland Bioscience Precinct Operational Funding (1999-2009)	77.5
	Queensland Clinical Trials Network	5.0
	Bioindustries Awareness Program	1.0
<b>Miscellaneous (one-off)</b>	Establishment of the Office of the Queensland Chief Scientist	1.9
	ICT Industry Development Strategy	3.0
	Queensland Cyber Infrastructure Foundation Operational Funding (2004-2007)	6.0
<b>Innovation and Commercialisation</b>	Innovation Start-Up Scheme	4.9
	i.Lab Incubation	6.8
	Innovation Centre Sunshine Coast	2.4
	TeQstart	3.7
	BioBus	1.8
	Australian Institute for Commercialisation (Cash)	8.1
	Financial ICT Growth (FIG)	0.2
	International Trade Show Assistance Program	0.6
	Queensland Government Intellectual Property Principles	0.7
	Statewide Technology Incubation Strategy	2.2
	Specialist Advice for Growing Technology Business	1.1
	Promoting the adoption of ICT by existing industries	1.0
	New technologies for the fibre industry	1.0
	Interactive Games Development Program	0.8
<b>Strategic Partnerships</b>	Triton Foundation Operational Funding (2002-2006)	0.6
	<b>Sub-total:</b>	\$ 130.1
<b>Skills:</b>		
<b>Innovation and Commercialisation</b>	ICT Skills, Training & Role Model Grants Program	0.9
	Workshops to provide commercialisation skills for Queensland innovators	1.3
<b>Education and Skills</b>	QUT Innovation Train	0.1
	Smart State Fellowships	2.4
	Bachelor of Biotechnology Innovation Degree	0.2
	Science on Saturday	0.2
<b>Strategic Partnerships</b>	Queensland-Smithsonian Fellowships Program (includes funding committed in Smart State 2)	0.6
<b>Miscellaneous - (One-off)</b>	Smart State Health and Medical Research Fund	5.2
	<b>Sub-total:</b>	\$ 10.8
<b>Smart State 2 (2005-2015); includes 2006 one-off investments</b>		
<b>Infrastructure:</b>		
<b>Smart State Innovation Funds - Innovation Building Fund</b>	Mineral Characterisation Research Facility	6.1
	Queensland Tropical Health Alliance	19.5
	Queensland Centre for Advanced Materials Processing and Manufacturing	15.0
	Molecular and Clinical Pathology Research Laboratory	3.0
	Queensland Smart Water Research Facility	10.0
	Bionano-product Development Facility	6.5
	Mackay Renewable Biocommodities Pilot Plant	3.1
	Tropical Science and Innovation Precinct (TSIP)	9.0
	Health and Medical Research Unit	10.0
	MedTeQ - A Facility for Medical Diagnostic Technologies in Queensland	1.8
	Translational Research Institute	0.5
	Science and Technology Precinct (STEM)	35.0
	<b>Smart State Innovation Funds</b>	Extension of Innovation Building Fund (unallocated)
<b>Smart State Research Facilities Fund - Round 4</b>	Lizard Island Research Station Upgrade	1.5
	Wesley Research Institute Tissue Bank	1.4
	Queensland Compound Library	3.5
	Queensland NMR Network	5.0
	Australian Research Centre for Aerospace Automation	3.5
	Tropical Science and Innovation Precinct	5.0
<b>Research Infrastructure- (One-off)</b>	The University of Qld and Qld Health Centre for Clinical Research (UQ/QH CCR)	20.0
	Institute of Glycomics Expansion (Stages 1 and 2)	11.0
	Australian Tropical Herbarium molecular systematics laboratory	0.9
	UQ Technology and Innovation Building Construction (Stage 1)	4.0

<b>National Collaboration Research Infrastructure Strategy</b>	NCRIS 5.7 Population Health - Population Health Research Network (QLD Node)	1.0
	Queensland Cyber Infrastructure Foundation	5.1
	Analytical Electron Microscopy Facility Linked Laboratory for NCRIS Capability Area 5.3 - Characterisation - Sub-capability Microscopy	0.5
	The NCRIS capability area 5.11 Terrestrial Ecosystem Research Network	4.1
	Capability Area 5.1 - Evolving Bio-Molecular Platforms and Informatics - Sub capability Genomics	1.2
	5.12 - Integrated Marine Observing System - The Great Barrier Reef Ocean Observing System (GBROOS)	4.2
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - Sub capability Proteomics.	2.0
	The NCRIS capability area 5.13 - Structure and Evolution for the Australian Continent - sub capability Auscope Simulator	1.0
	The NCRIS capability area 5.3 - Characterisation - sub capability Imaging	2.3
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - sub capability Metabolomics	0.5
	The Fabrication of advanced materials (including nano-materials) sub capability of the 5.4.1 NCRIS capability area - Fabrication	3.0
	The NCRIS capability area 5.5a - Biotechnology Products sub category Proteins. Manufacture of recombinant proteins as potential therapeutics	4.0
	The NCRIS capability area 5.3 - Characterisation - sub capability Microscopy	2.0
	The NCRIS capability area 5.1 - Evolving Bio-Molecular Platforms and Informatics - sub capability Genomics	0.1
	NCRIS capability area 5.5 - Biotechnology Products - Subcategory - A Human Cell Expansion	0.9
	The Great Barrier Reef Ocean Observing System (GBROOS) sub capability of the 5.12 NCRIS capability area - Integrated Marine Observing System	0.3
	<b>Queensland Ethanol Industry Action Plan</b>	Development of Queensland ethanol industry
<b>Smart Therapies Institute, Smart State Medical Research Centre and Wesley Research Institute expansion (Election Commitment)</b>	Smart State Medical Research Centre (EED)	5.7
<b>Boggo Road Ecosciences Precinct and Coopers Plains Health and Food Science Precinct</b>	Boggo Road and Coopers Plains	290.0
	<b>Sub-total:</b>	\$ 610.2
<b>Projects:</b>		
<b>Bioindustries Strategy</b>	Queensland Bioscience Precinct Operational Funding (2009-2014)	50.0
	Biopharmaceuticals Australia operational funding (2009-2011) and design costs (2008-2011)	6.0
<b>Research Infrastructure- (One-off)</b>	E-health research centre operational funding (2007-2012)	5.0
	NICTA QLD Laboratory Operational Funding (2007-2012)	10.1
	Centre for Native Floriculture additional expansion and operational funding	2.0
	Institute for Sustainable Regional Development research activities (2006-2008)	0.4
	Innovation Centre Sunshine Coast operational funding (2009-2011)	0.3
	Queensland Brain Institute Operational Funding (2007-	25.0
<b>ICT Development</b>	Queensland Cyber Infrastructure Foundation Operational Funding (2007-2011)	8.5
<b>Innovation and Commercialisation</b>	Australian Aerospace Limited operational enhancement	0.7
<b>Smart State Innovation Funds - Innovation Projects Fund</b>	National and International Research Alliances Program	43.0
	Research Industry Partnerships Program	13.5
	Partnerships Alliances Facilitation Program	1.7
	Other	1.8

Development of Biotechnology Commercialisation Pipeline	Pipeline	1.4
Expansion of the Innovation Start Up Scheme	SS2 Innovation Start Up Scheme	1.8
Implementation of the Smart ICT - Taking it to the World Package	SICT	0.3
Implementation of the Queensland Government Intellectual Property Register	IP Register	0.7
Research Infrastructure- (One-off)	Australian Institute of Commercialisation operational	2.9
Strategic Partnerships	Queensland-Israeli Cooperation in Agricultural Research	0.3
	Australia-China Future Dialogues	0.9
	Triton Foundation Operational Funding (2005-2008)	0.8
ICT Development	Establishment of the Queensland Internet Security Alliance	0.8
Sugar Research	Sugar Research- Renewable Energy Program	4.1
Innovation and Commercialisation	What's Your Big Idea Queensland	5.5
	Business and Industry Transformation Incentive	6.0
	Business Incubator Operational Funding (2008/2009)	0.8
	UniQuest manager of Innovation and Commercialisation	0.4
	International Trade Show Assistance Program Extension	0.3
	Queensland Architecture to Asia	0.4
	Queensland Wide Innovation Network and Smart Industry Toolbox	2.0
Innovation and Commercialisation	Creative Business Intelligence Service	0.3
Other	Other one-offs	2.1
	<b>Sub-total:</b>	\$ 199.5
<b>Skills:</b>		
Smart State Innovation Funds	Innovation Skills Fund	12.0
	<b>Sub-total:</b>	\$ 12.0
<b>Smart State 3 (2008-2012)</b>		
<b>Projects:</b>		
Enhanced Innovation Projects Fund	National and International Research Alliances Program	30.2
	Research Industry Partnerships Program	5.6
	Partnerships Alliances Facilitation Program	0.16
	China Program - NIRAP and RIV	0.76
	India Program - NIRAP	0.66
	Centre for Social Science and Innovation	5
	Centre for Emerging and Infectious Diseases	1.5
	Queensland Life Sciences Industry	1.855
	EIF and Super Science Initiatives	1.905
Other	12.36	
Designing Queensland	Ulysses- Transforming business through design	1.1
Tropical Connections	Qtropics Action Agenda	1.0
Investment Ready Program	R&D Forums and Workshops	0.3
	Technology Clinics	0.9
	Project Facilitation and Network Development	1.0
Enabling Technologies Program	Improving ICT productivity, biotechnology and therapeutic medicines/devices competitiveness, creative industries market development and nanotechnology discovery program	1.0
Ideas to Market	Incubation services, capability development and commercialisation advice	2.0
	<b>Sub-total:</b>	\$ 67.3
<b>Skills:</b>		
Enhanced Innovation Skills Fund	Increased funding to Skills Fund over 4 years	23.4
Q-Science Program	Q-Science over 4 years	2.0
Queensland-China Climate Change Fellowships	Queensland-China Climate Change Fellowships	0.1
	<b>Sub-total:</b>	\$ 25.4
	<b>Total:</b>	\$ 1,360.0
	<b>Total infrastructure:</b>	\$ 914.9
	<b>Total projects:</b>	\$ 396.9
	<b>Total skills:</b>	\$ 48.2
		\$ 1,360.0

**Smart State Initiatives of Other Departments 1998-2011 (\$539M)**

Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<b>Infrastructure:</b>		
Bioindustries Strategy	QIMR Clive Berghofer Comprehensive Cancer Centre	28.0
	Herron Laboratories	0.7
Research Infrastructure- (One-off)	Institute for ICT Innovation (e-health)	2.4
	Centre of Excellence for Applied Sport Science Research	2.5
	Other Queensland Linked ARC Centres of Excellence	3.4
	<b>Sub-total:</b>	\$ 37.0
<b>Projects:</b>		
Bioindustries Strategy	Queensland Health Scientific Services	30.0
	Biodiscoveries Network	0.8
Innovation and Commercialisation	BioCapital Fund (funded through Queensland Investment Corporation)	100.0
	Sustainable Technology Initiative	1.5
	Sustainable Energy Innovation Fund	2.8
	BioStart	3.1
	Public communications for Biotechnology	1.5
	Financial ICT Growth (FIG)	1.0
	Bioaccelerator	1.3
Strategic Partnerships	Tropical Science Cooperative Framework with WA and Northern Territory	1.4
	<b>Sub-total:</b>	\$ 143.3
<b>Smart State 2 (2005-2015); includes 2006 one-off investments</b>		
<b>Infrastructure:</b>		
Development of a Scale-up Manufacturing Facility	Development of a Scale-up Manufacturing Facility	7.0
Establish the Golden Casket Medical Research Foundation	Funds from unclaimed lotto win interest	3.5
Smart Therapies Institute, Smart State Medical Research Centre and Wesley Research Institute expansion (Election Commitment)	Translational Research Institute	100.0
	Smart State Medical Research Centre (QH)	29.3
	Wesley Research Institute	10.0
<b>Sub-total:</b>		\$ 149.8
<b>Projects:</b>		
Establishment of the International Water Centre	Water Centre	2.4
Water Initiatives	Urban Demand Management and Alternative Water Systems	4.8
	Regional Water Supply Strategies	9.0
	Improving Groundwater Management	4.1
	Water Management systems	0.7
	Climate Smart communities - water	19.6
	Extra support for water listed water initiatives	13.3
Mining Exploration	Smart Exploration Service	20.0
Queensland Aquaculture Development Initiative	Aquaculture Development	4.0
New Asian Markets for Horticulture Initiative	Markets	1.5
Research into the eradication of the cane toad	Cane toad research	1.0
<b>Sub-total:</b>		\$ 80.4
<b>Skills:</b>		
Implementation of the Smart State University Internships Program	University Internships	1.1
<b>Sub-total:</b>		\$ 1.1
<b>Smart State 3 (2008-2012)</b>		
<b>Projects:</b>		
Health and Medical Research Program	Health and Medical Research Program over 4 years	5.1
Designing Queensland	Arts Queensland	1.9
<b>Sub-total:</b>		\$ 7.0
<b>Skills:</b>		
Health and Medical Research Program	Health and Medical Research Program over 4 years	20.6
<b>Sub-total:</b>		\$ 20.6
<b>Additional commitment May 2011</b>		
	<b>Total:</b>	\$ 539.0
	<b>Total infrastructure:</b>	\$ 186.8
	<b>Total projects:</b>	\$ 230.7
	<b>Total skills:</b>	\$ 21.6
	<b>Total unallocated</b>	\$ 100.0
		\$ 539.0

DET Smart State Educational Reforms 1998-2011 (\$326M)		
Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<b>Infrastructure:</b>		
Research Infrastructure- (One-off)	Process Engineering and Light Metals Centre	1.0
	<b>Sub-total:</b>	\$ 1.0
<b>Projects:</b>		
Innovation and Commercialisation	Multimedia Applications Development Fund	0.5
	<b>Sub-total:</b>	\$ 0.5
<b>Skills:</b>		
Education and Skills	QUT Innovation Train	0.03
	Queensland and Northern Territory Multimedia Centre	2.0
	Growing the Smart State Research Program	0.3
	Career Awareness Kit	0.1
	Community Skills Development Program in ICT	1.1
	Technology Survival Skills Program	1.0
	International Biology Olympiad	0.8
Education Queensland - Facility/Infrastructure Development and new Syllabus	Six step action plan to improve science education	14.0
	ICT for Learning Strategy	99.4
	ICTInnovators Grants Scheme	1.6
	Secondary schools renewal program	12.0
	Technology Maths and Science Centres of Excellence	10.0
	Upgrades of Science Spaces	2.3
	Education Queensland Educational Internet Data Centre	21.0
	Syllabus implementation	2.0
	Ongoing teacher professional development activities	3.0
	New syllabus development	2.5
	Educational advisers	2.2
	Development of resources	2.0
	Summer schools	1.4
	Specific school science grants	0.5
	<b>Sub-total:</b>	\$ 179.2
<b>Smart State 2 (2005-2015); includes 2006 one-off investments</b>		
<b>Projects:</b>		
Implementation of the Smart ICT - Taking it to the World Package	SICT	18.2
	<b>Sub-total:</b>	\$ 18.2
<b>Skills:</b>		
Education Packages for Smart Classrooms and Academies	1300 state schools into Smart Classrooms	56.0
	Two new Smart State Academies	46.0
	Other	25.0
	<b>Sub-total:</b>	\$ 127.0
	<b>Total:</b>	\$ 325.8
	<b>Total infrastructure:</b>	\$ 1.0
	<b>Total projects:</b>	\$ 18.7
	<b>Total skills:</b>	\$ 306.2
		\$ 325.8



**CRC support (and other in-kind support) 1998-2011 (\$174M)**

Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<i>Projects:</i>		
Innovation and Commercialisation	Australian Institute for Commercialisation (In-Kind)	2.0
Cooperative Research Centres	Cash	18.2
	Cash	19.5
	In-kind commitment	134.2
<b>Total:</b>		<b>\$ 173.8</b>
Total infrastructure:		\$ -
Total projects:		\$ 173.8
Total skills:		\$ -
		<b>\$ 173.8</b>

**Queensland Government R&D investments 1998-2010 (\$2488M)\***

\* excluding Smart State initiatives

Smart State Program	Details	Funding Allocation (\$M)
<b>Smart State 1 (1998-2004)</b>		
<i>Projects:</i>		
Research activity undertaken by State Government Agencies (1998-2004)	Research expenditure by State agencies such as the Agency for Food and Fibre Science, Queensland Health and Natural Resources Sciences.	1,440.0
<b>Smart State 2 (2005-2015; includes 2006 one-off investments) and Smart State 3</b>		
<i>Infrastructure:</i>		
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	17.0
<i>Projects:</i>		
DEEDI Funded R&D for the years 04/05 - 09/10 (excl. DEEDI Smart State initiatives)	In-house and external R&D Funded by former Departments of Mines & Energy, Primary Industries & Fisheries, Employment & Industrial Relations and Regulatory Policy.	596.0
Non-DEEDI funded R&D for the years 04/05 - 09/10	In-house and external R&D funded by Queensland Government departments that aren't DEEDI. Significant R&D investment from Queensland Health	334.2
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	97.0
<b>Sub-total:</b>		<b>\$ 1,027.2</b>
<i>Skills:</i>		
R&D 2010/11 (excl. DEEDI Smart State initiatives)	In-house and external R&D funded by Queensland Government departments	4.0
<b>Total:</b>		<b>\$ 2,488.2</b>
Total infrastructure:		\$ 17.0
Total projects:		\$ 2,467.2
Total skills:		\$ 4.0
		<b>\$ 2,488.2</b>