

# Summary of Linkage Infrastructure, Equipment and Facilities Proposals

## Victoria

### Swinburne University of Technology

**LE0775656** Prof JH Beynon; Prof PD Hodgson; Prof G Lu; Prof JL Wilson; Prof M Brandt; Dr BF Rolfe; Dr C Wen; Dr I Sabirov; Dr H Beladi; A/Prof PA Mendis; Dr EF Gad; Dr Y Durandet

**Approved Project Title** **High Rate Testing System for Materials and Structures**

**2007 :** \$ 490,000

**Primary RFCD** 2905 MECHANICAL AND INDUSTRIAL ENGINEERING

#### Partner Organisations & Collaborating Organisations

Deakin University

The University of Melbourne

CRC for Advanced Automotive Technology

CRC for CAST Metals Manufacturing

**Administering Organisation** Swinburne University of Technology

#### Project Summary

Human or natural disasters such as terrorist attack or tsunami take place and they have catastrophic consequences, in terms of fatalities and psyche of fear among the population, as well as enormous financial loss. Vehicle accident is another example. In Australia, 1636 people were killed in 1481 road crashes, in 2005 alone. There is a great demand for research into devising novel materials and structures for optimum performance under such circumstances. The proposed new high rate testing system will significantly advance research in this area. The facility will directly support a range of research projects in material and structural design in military and civil vehicles, aerospace industry and defence.