

## 7. PROJECT DESCRIPTIONS

ACERA Project No.: 06 / 01

1. **Project Title:** Qualitative modeling and Bayesian network analysis for risk-based biosecurity decision making
2. **Theme:** Risk analysis
3. **Rationale:** Qualitative analyses are an important part of biosecurity risk assessment, particularly when data are scarce and understanding of exposure pathways is novel or difficult to predict. This project will evaluate the use of qualitative modelling and Bayesian Networks to assist biosecurity risk analysis. It will apply these methods to case studies or hypothetical situations that reflect contexts of interest to biosecurity risk analysis.
4. **Outputs:** The project will provide a report demonstrating the utility of the methods for a range of circumstances, using case studies of interest to biosecurity risk analysis, and will outline procedures and software for their implementation.
5. **Time frame:** Commencing: *June 2006*, Finishing: *January 2007*

### 6. Project Leader(s):

Title	Name	Organisation
Prof.	Barry Hart	Monash University
Dr.	Jeffrey Dambacher	CSIRO
Dr.	Keith Hayes	CSIRO
Dr.	Will Shenton	Monash University
Dr.	Carmel Pollino	Monash university

### 7. Resources

	06/07	07/08	08/09
<i>Salaries and stipends</i>	120,500		
<i>Travel</i>	13,000		
<i>Operating and capital</i>	6,500		
<b>Project Total</b>	<b>\$140,000</b>		

8. **End Users:** AQIS, BA, PIAPH, AusBioSec, Animal Health Australia (AHA), Plant Health Australia (PHA)