



Using Simulation Software to Explore Supply Chain & Logistics Network Dynamics

RMIT University is pleased to offer this highly topical workshop and has invited InterDynamics Pty Ltd, the developer of Planimate® to jointly deliver this program over two days on :

**Tuesday November, 30
&
Wednesday December 1, 2004**

Planimate®, the Australian-developed simulation software, has been applied to modelling of logistics and supply chains. It is used in a variety of bulk commodity transportation and retail supply chain environments and was the development platform chosen by SOCOG Logistics for a special purpose application to support planning and scheduling of all Inbound Logistics for the Sydney Olympic Games. **Website :** <http://interdynamics.com>

Use of dynamic simulation software platforms is growing and many leading organisations use dynamic simulations models to:

- Expose assumptions about the impact of external demands on internal operations
- Reveal “network effects” of hidden “systemic behaviours”
- Formulate and test alternative configurations to reveal advantages and shortcomings that are not apparent from a ‘static’ analysis.
- Demonstrate the realities of “Actual” versus “Theoretical” system capacity by including concurrent events, dependencies between processes, and dynamic variation in processing.
- Animate and visualise dynamic activity within the system - building a shared vision among stakeholders.
- Demonstrate the impact of high resource utilisation on system stability - an important, but often overlooked trade-off.
- Learn ‘what it takes’ to bring a system under control - i.e. identification of the recovery capacity required to achieve system stability.
- Explore and develop measures that accurately reveal the external impact of your system’s operations to negotiate solutions that benefit all stakeholders.

Who should attend?

Supply Chain, Logistics, Production, Business Development personnel and managers, indeed anyone who is interested in, or responsible for improving the performance of their logistics and supply chain networks [or the processes within them].

What does the workshop involve?

The Simulation Workshop will be presented over two days in a computer lab at RMIT Business.

Day one of the workshop will be a hands-on experience in the development of simulation models of simple process-based systems, and a small logistics network. Exposure to basic lessons in the dynamics of discrete systems will occur during this introductory activity. Some relevant theory and background will be interspersed with the hands-on activity.

Day two will involve participants using pre-built simulation models to explore one or more case studies in a logistics or supply chain context. Participants will be able to formulate and test a range of options, and their results can be compared to the case study outcomes. There will be direct experience of how the use of simulation modelling enables you to:

- View the dynamics of your system
- Assess your system’s capacity and integral processes
- Project the impact of various patterns of growth in demand
- Make accurate determinations of capacity and optimise performance of proposed business investments
- Assess the viability of new or improved designs prior to commitment
- Explore how to determine effective utilisation levels in the face of changing and volatile demand.

Who are the Presenters?

InterDynamics Presenter: Tony Griffith

Tony is a founding Principal of InterDynamics. He has twelve years experience in the development and implementation of simulation models and scheduling and capacity planning applications based on the Planimate® platform.

RMIT Business Presenter: Dr David Wilson

Dr David Wilson, a senior lecturer from RMIT Business will be facilitating the workshop. He specialises in supply chain modeling, inventory management, transport systems and logistics management.

What is the cost?

The two day program will cost \$1,550. Places are limited so please book quickly! Call (03) 9925-8111, or see attached registration form, or book online www.rmit.edu.au/shortcourses

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