

# Seed Grant Proposals for Supply Chain Risk and Security

*Booi H Kam (RMIT University)*

*Chandra Lalwani (Hull University)*

*OK Kwon (Inha University)*

*Zhengyu Liu (Xiamen University)*

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Team Leaders  
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# Proposed Study

## Designing the Secured Green Supply Chain

### ***GU8 Collaborators:***

*Booi H Kam (RMIT University)*

*Chandra Lalwani (Hull University)*

*OK Kwon (Inha University)*

*Zhengyu Liu (Xiamen University)*

# Rationale

- Extant SCRM literature essentially examines issues linked to securing supply chains designed to achieve cost and time efficiency and customer-service effectiveness
- Majority are empirical studies based on what successful and unsuccessful cases have approached the problem – how they fortified their SCs and what have been the outcomes?
- Even those using the analytical approach focusing on how SCs could fortify themselves against external threats tend to base their analysis on cost and time efficient and demand responsive SCs
- Less well understood is: whether a supply chain designed based on organizing logistics processes centred on reducing vulnerability to external threats and containing risks could be just as cost-efficient and demand responsive as well?

# Research Questions

- **Whether a supply chain designed based on organizing logistics processes centred on:**
  - **reducing vulnerability to external threats and containing risks; and**
  - **minimizing their impacts on the environment****could be competitive in terms of cost-efficiency and demand responsiveness?**
- **How should a secured green supply chain be designed?**

# Research Tasks

- Conduct Focus Group Interviews with Industry Insiders on Global Supply Chain Operations in Australia (Melbourne), China (Hong Kong, Shanghai & Xiamen), Korea (Incheon), and UK (Hull) on:
  - issues of global supply chain operations
  - sources of risks and threats to supply chain operations
  - impacts of supply chain operations on environment
  - critical success factors of global supply chains
  - visions of future supply chain operations
- Develop cognitive maps of global supply chain industry insiders
- Establish design parameters for a secured green supply chain

# Outputs

- **Operational principles for designing a secured green supply chain**