

Interdependence – A central subject in Crisis Management at Lund University

Kurt Petersen
LUCRAM



**LUNDS TEKNISKA
HÖGSKOLA**
Lunds universitet



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Kurt Petersen

- **Lund University – Professor, Risk Analysis and Management**
- **President of LUCRAM, Lund University Centre for Risk Analysis and Management**



Lund University



- **Founded 1666**
- **41 000 students**
- **2 500 ph.d. students**
- **5 500 employees**
- **581 professors**
- **8 faculties**
- **5 160 MSEK turnover**



Crisis Management in Sweden

- **2002 New Legislation**
- **2002 New Administrative Structure**
- **2009 New Administrative Structure**
 - **MSB, The Swedish Civil Contingencies Agency**
- **Risk and Vulnerability Analysis**



International Crises

- **Accidents at sea, Estonia, Herold of Free Enterprise, Scandinavian Star**
- **Accidents at land, Bhopal, Seveso, Helsingborg Disco Fire**
- **Diseases, pandemi, bird flu, SARS, MCD, H1N1**
- **Tsunami, Lebanon,**



Crises in Sweden

- **Accidents at sea**
- **Industrial accidents**
- **International crises impacting Sweden**
- **Natural disasters**



Lessons from Crisis Management

- **Rare and unusual**
- **Emergent behaviour**
- **System response dynamic**
- **Adaptive behaviour**
- **Resilient system approach**



Lessons from Crises

- **Respos: lack of coordination**
 - **lack of adaptability**
 - **difficuties in informtion gathering, understanding, processing etc.**
 - **lack of dynamic decion making capabilities**
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Learning from Crises

- **Planning: lack of coordination**
 - **lack of common mechanisms**
 - **lack of adaptability**



FRIVA



- **Framework Program for Risk and Vulnerability Analysis**
- **2004-2011**
- **3 research themes, all touching interdependence**



Current and Future Research

LUCRAM

- **Resilience and Emergency Management**
- **Emergent behaviour**
- **Risk and Vulnerability Analysis**
- **Coordination - Interdependence**



Interdependence (1)

- **Interdependence within specific infrastructures**
- **Interdependence between different infrastructures**
- **Interdependence between infrastructure systems and administrative systems**



Interdependence (2)

- **Interdependence between admin and NGO:s**
- **Interdependence between individuals**

