The economic costs of terrorism

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Costs

- Terrorism raises transactions costs in the economy and shifts resources toward security activities.
- Estimated to be significant but not very large relative to GDP.
Benefits

• Security-related outlays aim at reducing the risk of incident and consequences should it occur

• The costs of anti-terror measures may be viewed as an investment

• Need to balance both benefits and costs
Some statistics

• The total number of international terrorist attacks is falling; the peak of > 650 in 1988 to > 200 in 2004

• Suicide attacks proliferating, three incidents in 1980; in the 1990’s on average 10 per year; since 2000 - 25 attacks per year

• Suicide terrorism is 3 per cent of all acts, but it accounts for one-half of deaths
Short-term, direct costs

Loss of human and non-human capital

- The loss of life and loss of productive capacity of those killed
- The destruction of capital (buildings, equipment, infrastructure)
- Rescue, clean up/repair costs
Short-term, direct costs

September 11, 2001

- **Direct costs estimated at $20 – $60 billion or 0.2 – 0.6 per cent GDP**
- **Rescue and clean up costs about $11 billion**
Increased uncertainty

- **Negative impacts on consumption and investment**
- **Stock market decline reduces consumption (through the wealth effect) and investment (a higher cost of capital)**
Short-term, direct costs

September 11, 2001

- **Stock market loss of 17 per cent of GDP** (temporary due to rapid and offsetting policy responses)
Short-term, direct costs

Additional costs incurred by certain industries/locations

• Some locations/industries suffer disproportionate economic and job losses
September 11, 2001

• The insurance industry “lost” roughly $50 billion
• **Terrorist acts are intended to produce effects beyond the immediate physical damage**

• **Aim at inflicting long-term psychological consequences**
Long-term costs

Higher transaction costs

• Travel delays, higher construction and insurance costs, additional informational requirements, more regulation, higher levels of inventories, tighter immigration restrictions
**Long-term costs**

**Stress, anxiety, restrictions on individual freedoms**

- Individuals willing to pay 50 and 70 per cent more for an airplane ticket if the risk of a terrorist attack reduced by 25 and 100 per cent (Viscusi and Zeckhauser, 2003)

- A resident of Northern Ireland would pay about 40 per cent of his income for a reduction in terrorist activities to the level of Ireland/Great Britain (Frey 2004)
Long-term costs

Higher government security spending

- The costs of diverting resources to security/military related activities
- A “negative” peace dividend that crowds out more productive activities
- Adverse effects on the private capital stock – lower productivity and reduced long run potential growth rate
• Becker and Murphy (2001): reduced GDP by 0.2 per cent because of lower investment

• The Council of Economic Advisers (2002): the level of output reduced by 0.6 per cent after five years
A doubling of incidents (1968-79) decreases bilateral trade between targeted economies by 6 per cent (Nitsch and Schumacher, 2002)

A month long disruption of U.S. Pacific coast ports, reduces Asian economies GDP by 0.4 per cent (Saywell, 2002)
• Temporal effects: takes up to 24 months before tourism appears unaffected by a terrorist accident
• All economies benefit from a more secure environment (international public good)

• If a country fails to take action – global/regional impact
Some policy considerations: international co-operation

**Challenge:** How to establish an effective framework for regional cooperation

- **Joint action is more effective and cheaper overall: assist?**
- **Exclude from international transactions: penalize?**
Some policy considerations: national

• Governments responsible for preventing terrorist attacks

• Private sector has the duty to take reasonable precautions
Some policy considerations: national

Challenge: How to establish a co-op link between the public and private sectors

- Definition of “reasonable” standards, how to measure compliance, how to encourage information sharing (confidentiality), how to encourage private sector’s participation, how to introduce market mechanisms to reward good behaviour