<table>
<thead>
<tr>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abadie, A. 120, 148</td>
</tr>
<tr>
<td>ABN Amro 144</td>
</tr>
<tr>
<td>Abu Sayef 140</td>
</tr>
<tr>
<td>Accelerated Disaster Response Initiative (ADRI) 51</td>
</tr>
<tr>
<td>acceptability, of anti-terrorist policy</td>
</tr>
<tr>
<td>109</td>
</tr>
<tr>
<td>accidents 25–6</td>
</tr>
<tr>
<td>Afghanistan 14</td>
</tr>
<tr>
<td>Afghanistan Investment Guarantee Facility 144</td>
</tr>
<tr>
<td>African Union (AU) 21</td>
</tr>
<tr>
<td>Aguirre, Fernando 138</td>
</tr>
<tr>
<td>AIG 80</td>
</tr>
<tr>
<td>air travel</td>
</tr>
<tr>
<td>airports 148, 149–50, 155, 158–63, 164</td>
</tr>
<tr>
<td>losses from border closure 202–4, 207, 210–19, 229, 267–8</td>
</tr>
<tr>
<td>9/11 effects analysis 6, 150–64, 165–6</td>
</tr>
<tr>
<td>9/11 effects hypotheses 148–50 regulation 272</td>
</tr>
<tr>
<td>stock market effects of terrorism 126 as terrorism target 19</td>
</tr>
<tr>
<td>see also international travel, and border closure</td>
</tr>
<tr>
<td>Alaskan earthquake (1964) 50</td>
</tr>
<tr>
<td>Aldy, J.E. 281</td>
</tr>
<tr>
<td>Alexander, Dean C. 1, 5</td>
</tr>
<tr>
<td>al-Qaeda 14, 107, 125</td>
</tr>
<tr>
<td>Amadeus (travel booking service) 127, 130</td>
</tr>
<tr>
<td>American Nuclear Insurers (ANI) 81</td>
</tr>
<tr>
<td>Anthrax and Beyond initiative 62–4</td>
</tr>
<tr>
<td>anthrax attacks 45, 62–4, 76, 85–7 antiterrorist organizations 14</td>
</tr>
<tr>
<td>Aon Corporation 82</td>
</tr>
<tr>
<td>Arab League 21</td>
</tr>
<tr>
<td>Argus (Project) 108</td>
</tr>
<tr>
<td>Arizona 207</td>
</tr>
<tr>
<td>Arthur Andersen &amp; Co 23</td>
</tr>
<tr>
<td>Asia-Pacific Economic Cooperation (APEC) 21</td>
</tr>
<tr>
<td>Asian Development Bank 192</td>
</tr>
<tr>
<td>assessable reciprocal mutual insurance 81</td>
</tr>
<tr>
<td>Association of British Insurers (ABI) 97, 112</td>
</tr>
<tr>
<td>Association of South-East Asian Nations (ASEAN) 21</td>
</tr>
<tr>
<td>Aum Shinrikyo 78–9</td>
</tr>
<tr>
<td>Australia 20, 87</td>
</tr>
<tr>
<td>Autodefensas Unidas de Colombia (AUC) 137–8</td>
</tr>
<tr>
<td>automatic number plate recording cameras (ANPR) 111</td>
</tr>
<tr>
<td>avian influenza 7–8, 45, 201–2</td>
</tr>
<tr>
<td>Aznar, José María 123, 128</td>
</tr>
<tr>
<td>Bae, Chang-Hee Christine 7</td>
</tr>
<tr>
<td>Baily, E. 100</td>
</tr>
<tr>
<td>Banadex 137, 139–40</td>
</tr>
<tr>
<td>Bangladesh 38</td>
</tr>
<tr>
<td>banks 52–3</td>
</tr>
<tr>
<td>Baumert, Thomas 1, 5</td>
</tr>
<tr>
<td>Becker, G.S. 149</td>
</tr>
<tr>
<td>Beeler Asay, Garrett R. 6</td>
</tr>
<tr>
<td>behaviour, and risk 46–51</td>
</tr>
<tr>
<td>Belgium 14</td>
</tr>
<tr>
<td>benefit assessment of terrorism security regulations 277–85</td>
</tr>
<tr>
<td>Bethune, Gordon 40</td>
</tr>
<tr>
<td>Bhopal gas tragedy (1984) 80</td>
</tr>
<tr>
<td>Bier, V. 56</td>
</tr>
<tr>
<td>bilateral terrorist attacks</td>
</tr>
<tr>
<td>effect on trade 6–7, 169–72, 182–4</td>
</tr>
<tr>
<td>empirical analysis of trade effects 172–82</td>
</tr>
<tr>
<td>bilateral trade</td>
</tr>
<tr>
<td>effect of terrorism on 6–7, 169–72, 182–4</td>
</tr>
</tbody>
</table>
empirical analysis of terrorism
effects 172–82
Bin Laden, Osama 2, 14
biological weapons see nuclear,
biological, chemical and
radiological (NBCR) attacks
bioterrorism 78
Blomberg, S.B. 172
bomb attacks 76, 93, 94
see also car bomb attacks
border closure
air travel losses 202–4, 207, 210–19,
229, 267–8
duration 202, 249–50, 253–4
economic impact of 7–8, 201–2,
206–8, 228–9, 244–55
export effects 228, 237–9, 244,
245–6, 248, 250–51, 253
financial markets 250–52
immigration effects (NIEMO model)
204–6, 207, 222–5, 229
immigration effects (REMI model)
234, 241–4, 245–6, 248, 269–70
import effects 228, 235–7, 244,
245–6, 248, 250–51, 253, 259–66
international travel effects 228,
239–41, 245–6, 248, 253, 267–8
investment 250–52
models of 7, 8, 202, 229–35, 255
and shopping 206, 207, 214, 226–7,
229
simultaneous shutdown of all
activities 201–2, 247–8
trade losses 204, 205, 207, 220–21
BP 31, 35
break-even analysis of terrorism
regulations 8–9, 273–85
Britain 14, 20
see also United Kingdom (UK)
British Airways 126
Bröttinger, Volker 133
Brzezinski, Z. 11
budgets, and risk estimations 48–9
Buesa, M. 121
Bush, George W. (Jnr.) 19, 20
business
and globalization 13–14
mutual support 18
risk assessment 183
and terrorism 1–2, 191–4, 198–9
trade, and border closure 204, 205,
207, 220–21
uncertainty 3–4
see also transnational corporations
(TNCs)
business continuity
disruption planning 33–9, 40–41,
99–101
disruption types 23–30
emergency management 30–32
empowerment of individuals 39–40
priority chart 29
resilience 2–3, 101–6, 108–11, 244,
252–4
CAC40 index 126, 128, 130
California 87, 205, 207
Canada 20, 104, 272–3
Canary Wharf 95, 97
capital 231, 232, 233, 234, 235, 243, 251
car bomb attacks 93, 94, 102, 107
see also bomb attacks
Caribbean 272–3
cars, driving risk 149
Carter, D. 121
casualties 279–84
catastrophic risk
break-even analysis of terrorism
regulations 284–5
and globalization 3
and individual behaviour 46–51
losses 42–6
mitigation 51–4, 57–62
Chamber of Commerce (London) 96,
110
chemical weapons see nuclear,
biological, chemical and
radiological (NBCR) attacks
Chen, A.H. 120
Cheng, I.-H. 173, 176
Chernobyl nuclear plant disaster 45
Chicago 148–9
child labor 27
Chile 13
China 7, 44, 190, 192, 194, 197, 250
Chiquita Brands International (CBI)
5, 136–40
Chiron Inc. 27
Choudhry, T. 121
CIA (Central Intelligence Agency) 125
Index

Citigroup 66
Citizens, role of 104
City Property Association 97
Civil Contingencies Act 103
Clemens, Jeffrey 6
closed circuit television (CCTV) 95, 108, 110
CNI (Centro Nacional de Inteligencia) 123, 125
Coaff ee, Jon 4
Coast Guard, US 40
Cold War 103
collaboration 37–8, 62–4
Colombia 5, 136–40, 143
Colombo 93
colonial empires 14
Comité Européen de Régulation Postale (European Committee for Postal Regulation) 63–4
Communities, role of 104
competition 183–4
consumer expectations 27
Consumer Federation of America 84
CONTEST strategy 105–6
Continental Airlines 40
contingency planning 99–101
cooperation 10, 15–22
coordination 15–16
cost-benefit analysis of security measures 8–9, 273–85
costs
of casualties 279–84
individuals’ risk estimations 48–9
REMI model 232, 233, 234, 235
terrorism regulations 274–7
counter terrorism business 2
Counter Terrorism Security Advisors (UK) 107
Crisis Recovery Plans (CRPs) 100
cross-border shopping 206, 207, 214, 226–7, 229
crowded public places 106–7, 109
see also density of economic activity; population
Customs and Border Protection (CBP) 272
Dax index 126, 128, 130
debriefing between international organizations 63–4
demand 231, 232, 233
Democratic People’s Republic of Korea (DPRK)
denuclearization of 188–9
economy 189–91
investment as antiterrorism strategy 191–4, 198–9
Kaesong Industrial Complex (KIC) 194–7, 199
nuclear weapons development 78
reunification with Republic of Korea (ROK) 7, 189, 193, 194
and terrorism 187–8
Tumen River Project 7, 197–8, 199
Denmark 13
density of economic activity 148–9, 159
see also crowded public places
denuclearization 188–9, 191–2, 199
Department of Homeland Security (DHS) see Homeland Security, Department of (DHS)
derivatives markets 131
Dermisi, S. 148
Des Moines 77
detection, of disruptive events 38–9
Deutsche Bank 32
development stage of countries 177–82, 184
dirty bombs 76
disaster assistance 49–51
disaster plans see evacuation plans
disasters, US Presidential declarations of 50–51
disruption
emergency management 30–32
empowerment of individuals 39–40
planning for 33–9, 40–41, 99–101
priority chart 29
types of 23–30
Docklands, London 94, 95, 97, 98
domestic travel (US) 203–4, 215, 239–41, 253, 255, 268
Dow Jones index 126, 128, 130
Drakos, K. 121
driving risk 149
Du Pont 25–6
Dunriding Company N.V. 143
early warning systems 38–9
earthquakes 10, 24, 44, 46, 80, 253
East-West coast (US) air travel 148, 163–4, 165–6
economic activity 148–9, 159
economic infrastructure, threats to 4–5, 92–3, 106–7
Eldor, R. 121, 122
Ellsberg, D. 79
embassies, as terrorist targets 19
emergency management centers (EMCs) 30–32, 34–5, 40
emergency response testing 104–5
emissions reductions 57
employees 31–2, 35, 39–40
empowerment 39–40
Enron 23
epidemics 201–2
see also avian influenza; pandemics
Ericsson 18, 23
ETA (Euskadi Ta Askatasuna, ‘Basque Homeland and Freedom’) 120, 122–32
Euro 128
Europe 15
European Union (EU) 20, 28, 192
evacuation plans 5
ex ante business decisions 183
ex post business decisions 183
expert judgement 279
exports, and border closure 228, 237–9, 244, 245–6, 248, 250–51, 253
externalities 45, 57
extortion
Chiquita Brands International (CBI) 136–40
effects on host country 144–6
risk reduction by transnational corporations (TNCs) 141–4
risks to transnational corporations (TNCs) 140–41
ExxonMobil 13

Federal Emergency Management Administration (FEMA) 39
financial assistance 49–51
financial centres, as terrorism targets 92–3, 106–7
financial institutions 187, 192, 193
financial loss mitigation 33–4

financial markets
border closure effects 250–52
and terrorism 74, 120–22
fire fighters 16
first responders 17
flexibility 36–7, 64
floods 80, 284
Ford 13
foreign direct investment (FDI) 191–4
Foxmeyer 23
France
global business 14
mutual support 20
nuclear, biological, chemical and radiological (NBCR) risks 87
postal security 63
stock market effects of Madrid train bombings 126, 128, 130
strikes 28
franchising, of global terrorism 14
Fratianni, M. 172
Frist, William 78
FTSE 100 index 126, 128, 130
G8 (Group of Eight) nations 21
Gardeazabal, J. 120
gas 1–2
General Agreement on Tariffs and Trade (GATT) 12
General Motors (GM) 13, 18, 24
Germany
global business 14
mutual support 20–21
nuclear, biological, chemical and radiological (NBCR) risks 87
postal security 63
reunification 189
stock market effects of Madrid train bombings 125, 126, 128, 130
Gigernezer, G. 149
Gladwell, M. 49
Glaeser, E.L. 148
Glasgow airport attack (2007) 107
Glick, R. 172
global business
and globalization 13–14
mutual support 18
risk assessment 183
and terrorism 1–2, 191–4, 198–9
trade, and border closure 204, 205, 207, 220–21
uncertainty 3–4
global integration 183–4
global interdependencies
  Anthrax and Beyond initiative 62–4
  nature of 55–7
  and risk 42–6
  risk mitigation 57–62, 65–9
Global Risk Network 3, 55, 66–9
global risks 54–5, 65–9
  see also risk
global security 15–16
global supply chains 57–62
global terrorism 10, 14–22, 170–71
  see also terrorism
global trade 183–4
  see also trade
globalization
  and catastrophic risk 3
  and global business 13–14
  and global terrorism 10, 14–22
  sources of 11–12
  and terrorism 2–3
*Globalization and the Future of Terrorism: Patterns and Predictions* (Lia) 15
Gordon, Peter 7, 149, 229
government role 74–6, 97–9, 130–31, 254
government standards 62
Graham, J.D. 282, 283
Great Britain see Britain; United Kingdom (UK)
Great Depression 12
Greece 13
Greene, D. 230
greenhouse gas emissions 57
Griffin (Project) 108
 guarantees for transnational corporations (TNCs) 143–4
Gum Arabic Co. 2
Guy Carpenter & Co. 87

Heal, G. 81
Heath, C. 49
HeliX 37
Hess, G.D. 172
Hewlett-Packard (HP) 37

Hiroshima 78
Hogarth, R. 79
Holguin, Carlos 139
Holland 14, 20, 63
Homeland Security, Department of (DHS)
  creation of 14
  Hurricane Katrina 39–40
  terrorism security regulations
    assessment 271, 272, 278, 279, 285
  terrorism strategy 19
Hon, M. 121
Hong Kong 56
hospitals 16
hub-and-spoke business model 150
Hughes, C. 198
Hurricane Katrina 31, 32, 39–40, 42, 44, 46, 50
Hurricane Rita 46
Hurricane Wilma 46
hurricanes 42, 44, 46
Hyundai 195
Iberia Airlines 127, 130
Ibex 35 index 122–32
Iguaran, Mario 138
illegal immigration, and border closure
  205–6, 207, 224–5, 229, 241–4, 245–6, 248, 269–70
Illinois 205
immigration
  NIEMO model of border closure
    effects 204–6, 207, 222–5, 229
  REMI model of border closure
    effects 234, 241–4, 245–6, 248, 269–70
  see also illegal immigration, and border closure; legal immigration, and border closure
IMPLAN model 202
imports
  effects of border closure 228, 235–7, 244, 245–6, 248, 250–51, 253, 259–66
  oil 230
India 38
indians, role of 39–40, 46–51
Indonesia 13, 14, 38, 56
Global business and the terrorist threat

influenza 12, 27
information 64, 104, 132
initiative, use of 39–40
injury, cost of 280–81
input-output models 202, 229, 247, 279
instability 140–44
institutions 19–21
insurance
anthrax attacks 85–7
disruption planning 33–4
long-term cover 53–4
long-term loans 52–3
losses from catastrophic events 42–6, 77, 96, 106–7
9/11 terrorist attacks 47
nuclear, biological, chemical and radiological (NBCR) risks 4, 75–80, 87–8
nuclear reactors 80–81
political instability risks 142–4
and risk 53–4, 101
terrorism insurance 74–5, 96–9
and Terrorism Risk Insurance Program Reauthorization Act (TRIPRA) 75–6, 81–4, 88
workers’ compensation 84–7
Intel 18, 34, 36
intelligence 17, 18–19
intentional disruptions 27–8
interchangeability 36
interdependencies
Anthrax and Beyond initiative 62–4
local 49
nature of 55–7
and risk 42–6
risk mitigation 57–62, 65–9
interest rates 250–52
international cooperation
global terrorism 15–16
information protocols 132
investment as antiterrorism strategy 191–4, 198–9
Kaesong Industrial Complex (KIC) 194–7
resilience planning 109–10
Tumen River Project 197–8, 199
international institutions 19–21
International Longshore and Warehouse Union (ILWU) 27–8
International Monetary Fund (IMF) 20
International Tourism Exchange (ITB) 127
international trade 183–4
see also trade
international travel, and border closure 228, 239–41, 245–6, 248, 253, 267–8
see also air travel; tourism; Western Hemisphere Travel Initiative in the Land Environment (WHTI-L)
Intriligator, Michael D. 2, 11
investment 191–4, 198–9, 250–52
Iran 78, 230
Iraq 14, 171, 193
Ireland 14
Irish Republican Army (IRA) 4–5, 93, 94, 98
iron collar 95–6, 101
Islamic Conference 21
Islamic terrorist attacks 14, 107, 123, 125, 127–30
Israel 13, 14, 34, 87, 121, 122, 199
Italy 20–21, 126, 128, 130
Ito, H. 148, 149, 150, 151, 152, 153, 154, 164
Jaffee, Dwight 4, 81
Japan 14, 20, 126, 192, 197–8
JARring actions 57
Kaesong Industrial Complex (KIC) 7, 194–7, 199
Kahneman, D. 78
Kang, H. 172
Katrina, Hurricane 31, 32, 39–40, 42, 44, 46, 50
Kenya 19
Keohane, N. 56
kidnapping 144
Kim Dae Jung 190
Korea 7, 189, 192, 194
see also Democratic People’s Republic of Korea (DPRK); Republic of Korea (ROK)
Korea-United States (KORUS) Free Trade Agreement (FTA) 196–7, 199
Kousky, C. 57
Kunreuther, Howard C. 3, 79, 81
labor 231–4, 235, 243, 251
Lagadec, Patrick 63
Landes, William 19
Landmines Treaty 20
Langewiesche, W. 78
Läpple, Klaus 127, 133
large airport hypothesis 148, 149–50, 158–63, 164
LaTourrette, Tom 8, 275, 276, 279
Lee, D. 148, 149, 150, 151, 152, 153, 154, 164
legal immigration, and border closure 204, 205, 207, 222–3, 229, 241–4, 245–6, 248
Leung, Billy (Rose et al.) 8
Li, Quan 6
Lia, Brynjar 15
liberalization 11–12
Libya 21, 171
Little, R. 108–9
loans 52–3
local interdependencies 49
Lockerbie bombing (1988) 56
London
CONTEST strategy 105–6
contingency planning 99–101
crowded public places 106–7
as economic target 4–5, 92–3
financial sector 94
resilience planning 101–5, 108–11
risk reduction measures 94–6
size of financial sector 107
terrorism insurance 96–9
London First 104, 110–11
London Resilience Partnership 103–5
long-term insurance 53–4
long-term loans 52–3
Los Angeles 10, 16, 17, 21, 149
losses, insured 42–6, 77, 96, 106–7
see also border closure
lower cost carriers (LCCs) 149–50, 152
Lower Manhattan Security Initiative 110
Lu, Z. 198
choice of target 28, 93
events of 119
stock market effects 1, 5, 119–20, 122–32
Major, John 93
Maldives 38
Malta 56
market share 232, 233, 234–5, 243, 251
Marsh & McLennan 66
Maximum Abbreviated Injury Scale (MAIS) 280
McKesson 23
media 122–32
Meliá (hotel chain) 127
Melnick, R. 121, 122
Merrill Lynch 32, 66
Metrovacesa 130
Mexico 272–3
MI6 (Secret Intelligence Service) 125
MIB index 126, 128, 130
Michel-Kerjan, Erwann O. 3, 63
Middle East peace process 20
MIGA (Multilateral Investment Guarantee Agency) 143–4
migration see illegal immigration, and border closure; immigration; legal immigration, and border closure
military action 177
Mississippi Power 35
Mitchell, Michael 137
mitigation of risk 51–4, 57–62, 65–9
Mitsubishi 13
modeling terrorism approaches 278–9
see also NIEMO (National Interstate Economic Model); REMI (Regional Economic Models Inc.) Policy Insight Model
Mongolia 198
Moore, James E., II (Gordon et al.) 7
morbidity 280–81
Morocco 14
mortality 280–81
Moss, D. 84
Mossad (Institute for Intelligence and Special Operations) 125
Motorola 143
Mueller, J. 78
multilateral cooperation
  global terrorism 15–16
  information protocols 132
  investment as antiterrorism strategy
    191–4, 198–9
Kaesong Industrial Complex (KIC)
  194–7
resilience planning 109–10
Tumen River Project 197–8, 199
multinational corporations 1, 13,
  14
mutual support, and global terrorism
  10, 16–22
Myanmar 38
myopia 47–8, 51–4
Nagasaki 78
Napoleoni, L. 2
Nasdaq index 126
National Counter Terrorism Security
  Office (NaCTSO) 107
nations, mutual support of 18–19
natural disasters 24–5, 51–4, 55
natural gas 1–2
natural resources 197
negative externalities 57
negligence 26–7
Netherlands 14, 20, 63
New York 31, 77, 85, 93, 109–10
  news 122–32
NH Hoteles 127, 130
NIEMO (National Interstate
  Economic Model)
  air travel, and border closure 202–4,
    207, 210–19, 229
  economic losses from border closure
    206–7
  immigration, and border closure
    204–6, 207, 222–5, 229
  shopping, and border closure 206,
    207, 226–7, 229
  trade, and border closure 204, 205,
    207, 220–21, 229
Nigeria 1
Nike 27
Nikkei index 126
9/11 Commission Recommendations
  Act 271, 272
9/11 terrorist attacks
  air travel effects 6, 150–64, 165–6
  air travel effects hypotheses 148–50
  business continuity 32
  global interdependencies 45
  global terrorism 14
  insurance 47
  international responses 101–2
  losses from 42, 43, 77
  stock market effects 2, 5, 120, 122
Nitsch, V. 172, 176
Nokia 18, 23
non-governmental organizations
  (NGOs) 19–20
North Korea 7, 78, 189, 193, 194
  see also Democratic People’s
  Republic of Korea (DPRK)
Northern Ireland 96
Northridge earthquake 253
Norway 13, 20
nuclear, biological, chemical and
  radiological (NBCR) attacks
  anthrax attacks 45, 62–3, 76, 85–7
  insurance coverage 4, 76–80, 87–8
  international action 87
  response to 102, 104
  and Terrorism Risk Insurance
  Program Reauthorization Act
    (TRIPRA) 75–6, 81–4, 88
  workers’ compensation 84–7
  nuclear reactors 45, 76, 80–81
  nuclear weapons 76, 78, 188–9, 199
O’Brien, G. 103
OECD (Organisation for Economic
  Co-operation and Development)
  177–82
Office of Emergency Management
  (New York) 109
oil 1–2, 230, 254
Olympic Games, London (2012) 105
OPIC (Overseas Private Investment
  Corporation) 142–3
Organization of Petroleum Exporting
  Countries (OPEC) 230
  output 231, 232, 233, 243, 251
Pakistan 13, 14, 27
Palestine 199
Pan America flight 103 crash (1988) 56
pandemics 7–8, 12, 38, 44–5, 201–2
Paris 93
Park, Jiyoung (Gordon et al.) 7
Park Chung Hee 189
Passel, J.S. 242, 269
Payne, J. 48
pharmaceutical industry 27
Philippines 14
Philips Electronics 18, 23
Poland 13, 20
police 16, 109
political instability risk 140–46, 194, 197
Pool Reinsurance (Pool Re) 97–9, 101, 102, 106, 110
population 231, 232, 233, 235, 243
Portugal 20
postal security 62–4
PostEurop 64
prevention 30
Price-Anderson Act 80–81, 83
prices
and investment 251
migration effects 243
PricewaterhouseCoopers (PwC) 69
process design 37
process safety management (PSM) 25–6
Procter & Gamble 32
production costs 232, 233, 243, 251, 259–66, 269–70
production rescheduling 253
Project Argus (UK) 108
Project Griffin (UK) 108
Proliferation Security Initiative (PSI) 20–21
protection, assessment of need for 46–51
Provisional Irish Republican Army (PIRA) 4–5, 93, 94, 98
public places 106–7, 109
quality of life 281, 282–3
radiological weapons see nuclear, biological, chemical and radiological (NBCR) attacks
RAND Corporation 85, 207
ransom 144
Read, P. 103
recovery 30
see also resilience
Redfearn, C. 149
redlining, of insurance cover 96
redundant capacity 36
Régie Autonome des Transports Parisiens (RATP) 28
regionalism 198
regionalization 198
regulation 62, 271–2
see also terrorism security regulations
REMI (Regional Economic Models Inc.) Policy Insight Model
duration of border closure 249–50, 253–4
economic impact of border closure 228–9, 244–55
exports, and border closure 228, 237–9, 244, 245–6, 248, 250–51, 253
immigration, and border closure 234, 241–4, 245–6, 248, 269–70
imports, and border closure 235–7, 244, 245–6, 248, 250–51, 253, 259–66
international travel, and border closure 239–41, 245–6, 248, 253, 267–8
investment 250–52
methodology 8, 230–35, 255
simultaneous shutdown of all activities 247–8
Republic of Korea (ROK)
and Democratic People's Republic of Korea (DPRK) 187, 192, 193, 194, 199
economy 189, 190
Kaesong Industrial Complex (KIC) 194–7, 199
reunification with Democratic People's Republic of Korea (DPRK) 7, 189, 193, 194
Tumen River Project 197–8
resilience 2–3, 101–6, 108–11, 244, 252–4
see also business continuity
Resilient Enterprise, The (Sheffi) 10, 18
responsibility for attacks 122, 132
retail sales, and border closure 206, 207, 214, 226–7, 229, 267–8
Revolutionary Armed Forces of Colombia (FARC) 139
Richardson, Harry W. 7
ricin gas 79
ring of steel (London) 94–5, 101, 107
risk
break-even analysis of terrorism regulations 8–9, 273–7
and global interdependencies 42–6
global risks 54–5, 65–9
and individual behaviour 46–51
insurance premiums 53–4
management 30, 101
mitigation 51–4, 57–62, 65–9
from political instability 140–46, 194, 197
rating urban centres 98
reduction 94–6, 141–4, 278–9
Risk Management Systems 85
Riyadh 93
Rose, Adam Z. 8
Rose, Andrew 172, 252, 253
Royal and Sun Alliance 126
Rubinstein, Y. 149
Russell, Thomas 4, 81
Russia 20, 190, 192, 197
safety 25–6
San Francisco 10, 16, 77
Sandler, T. 56
Santayana, George 12
sarins gas attacks 76, 79, 111
SARS (Severe Acute Respiratory Syndrome) 44
Saudi Arabia 171
scenario analysis 207
Schelling, T. 49, 62
Schkade, D. 48
Schumacher, D. 172, 176
security, cost of 149
security externalities 45
security plans 100
Segui-Gomez, M. 282
September 11, 2001 terrorist attacks see 9/11 terrorist attacks
severity of attacks 183
Shapiro, J.M. 148
share dealing see stock markets
Sheffi, Yossi 2, 3, 10, 18
shopping, and border closure 206, 207, 214, 226–7, 229, 267–8
Siems, T. 120
Simkins, B. 121
simulation 278–9
see also NIEMO (National Interstate Economic Model); REMI (Regional Economic Models Inc.) Policy Insight Model
Singapore 20
Slovic, P. 78
Small Business Administration (SBA) 50–51
Soll, J.B. 49
Somalia 38
South Africa 13, 87
South Korea 7, 189, 193, 194
see also Republic of Korea (ROK)
Southwest Airlines 36
Spain 20, 87, 122–32
speed 36
Sri Lanka 14, 38
stock markets
and terrorism 120–22, 184
trading by terrorist groups 2
storms 44
strategic emergency plans 104
strategic gaming 207–8
strikes 27–8
Sudan 2, 14
suicide attacks 102
Sullivan, John P. (Lieutenant) 17
sunshine policy 190
Sunstein, S. 78
supply chains 18, 57–62
surveillance 102
Sweden 45
Swiss Re 66
Switzerland 14
Tanzania 19
tariffs 28
technology 11, 14, 21
telecommunications 203–4, 215, 216–17
terrorism
adaptation of methods 278
as business 2
business collaboration with 5, 136–40
cost-benefit analysis of security measures 8–9, 273–85
deaths resulting from 78
Democratic People’s Republic of Korea (DPRK) 187–8
effect on trade 6–7, 169–72, 182–4
empirical analysis of trade effects 172–82
and financial markets 74, 120–22
global 10, 14–22, 170–71
and global business 1–2, 191–4, 198–9
and globalization 2–3
and insurance 74–5, 96–9
as intentional disruption 28
meaning of 14, 170
nuclear, biological, chemical and radiological (NBCR) risks 75–80
and stock markets 120–22, 184
targets 19
Terrorism Early Warning (TEW) unit, Los Angeles 17, 21
Terrorism Risk Insurance Act (TRIA) 74, 75, 82, 86, 88
Terrorism Risk Insurance Extension Act (TRIEA) 74, 82, 83
Terrorism Risk Insurance Program Reauthorization Act (TRIPRA) 74–6, 81–4, 88
terrorism security regulations
benefit assessment 62, 271–2
benefit estimation 277–85
break-even analysis 273–7, 284–5
catastrophic events 284–5
Western Hemisphere Travel Initiative in the Land Environment (WHTI-L) 272–7
testing emergency responses 104–5
Texas 205, 207
Thailand 38
threats, and business continuity 27–8
Tierney, K. 253
time horizons 47–8, 51–4
tipping point, of loss mitigation 61–2
Tokyo subway gas attack (1995) 79, 93, 111
tornadoes 24–5
tourism
effects of border closure 239–41, 248, 255, 267–8
9/11 terrorist attack effects 148, 163–4, 165–6
see also international travel, and border closure
Toyota 13, 18, 40
trade
Democratic People’s Republic of Korea (DPRK) 196–7, 199
effect of terrorism on 6–7, 169–72, 182–4
empirical analysis of terrorism effects 172–82
extent of 183–4
liberalization 11–12
losses from border closure 204, 205, 207, 220–21, 229
see also exports, and border closure;
imports
trade associations 62
transnational corporations (TNCs)
Chiquita Brands International (CBI) case 136–40
effects on host country 144–6
political instability risk 140–44
see also business
transnational terrorism 10, 14–22, 170–71
travel see air travel; international travel, and border closure; tourism
Tropical Storm Agnes (1972) 50
tsunamis 38
TUI 126
Tumen River Project 7, 197–8, 199
Tversky, A. 78
typhoons 44
uncertainty 3–4, 250–52
uninsurable risks 76–80
Union Carbide 80
Unión Fenosa 130
United Kingdom (UK)
CONTEST strategy 105–6
crowded public places 106–7
as economic target 4–5, 92–3, 106–7
emergency response testing 104
global business 14
influenza vaccine 27
mutual support 20–21
nuclear, biological, chemical and radiological (NBCR) risks 87
postal security 63
regional threats 108
stock market effects of Madrid train bombings 126, 128, 130
United Nations (UN) 16, 19–21, 197
United States (US)
air travel, and border closure 6, 202–4, 207, 210–19, 229, 267–8
anthrax crisis 62–3
and China 250
Chiquita Brands International (CBI) case 137–8
and Democratic People’s Republic of Korea (DPRK) 192, 194, 196–7
disaster assistance 49–51
economic impact of border closure 7–8, 201–2, 206–8, 228–9, 244–55
emergency response testing 104
exports, and border closure 228, 237–9, 244, 245–6, 248, 250–51, 253
global business 14
global terrorism 15, 169, 187–8, 198
illegal immigration, and border closure 205–6, 207, 224–5, 229, 241–4, 245–6, 248, 269–70
imports 2, 28
imports, and border closure 228, 235–7, 244, 245–6, 248, 250–51, 253, 259–66
individuals’ risk estimations 47
influenza vaccine 27
international travel, and border closure 228, 239–41, 245–6, 248, 253, 267–8
legal immigration, and border closure 204, 205, 222–3, 229, 241–4, 245–6, 248
mutual support 10, 16, 17, 20–21
nuclear, biological, chemical and radiological (NBCR) risks 4, 74–6, 77, 81–7, 88
oil price shocks 230
shopping, and border closure 206, 207, 214, 226–7
simultaneous shutdown of all activities 201–2, 247–8
stock market effects of terrorism 126, 128, 130, 184
strikes 27–8
trade, and border closure 204, 205, 207, 220–21, 229
workers’ compensation 84–7
Universal Postal Union 63
UPS 18, 38, 40
urban terrorism
CONTEST strategy 105–6
economic targets 92–3
fortification of London 94–6
resilience planning 99–105
terrorism insurance 96–9
US Coast Guard 40
US Customs and Border Protection (CBP) 272
US Postal Service 64
USIO model 202
value of a statistical life (VSL) 282
vehicle-borne improvised explosive devices (VBIEDs) 93, 94, 102, 107
victims, number of 122, 132
Viscusi, W.K. 281
wages
and investment 251
migration effects 243, 269–70
REMI model 232, 233, 234, 235
Wall, H.J. 173, 176
Wal-Mart 13, 31, 32, 35
Washington 77
weapons of mass destruction (WMD) 46
see also nuclear, biological, chemical and radiological (NBCR) attacks
weather early warning systems 38
Wei, Dan (Rose et al.) 8
Western Hemisphere Travel Initiative in the Land Environment (WHTI-L) 272–7, 279, 282, 283, 285
Wharton Risk Management and Decision Processes Center 3, 53, 66
willingness to pay 48, 281–2
Willis, Henry H. 8, 275, 276, 279
workers’ compensation 84–7
World Bank 20, 192
World Economic Forum (WEF) 3, 20, 55, 66, 69
World Health Organization (WHO) 38
World Social Forum 20
World Trade Centre terrorist attacks see 9/11 terrorist attacks
World Trade Organization (WTO) 12, 20, 28
World War I 12
World War II 12, 15, 253, 259
Yongbyon nuclear reprocessing plant 188
Zeckhauser, R. 56, 57