Emerging Risk Management
bei Munich Re

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Zwei Facetten des Unerwarteten – Risiko und Unsicherheit

- Risiko
- Unsicherheit

- Nicht versichert
- Versichert

- Keines
- Schätzung
- Quantifizierung

Risiko Appetit

Wissen
Recent Emerging Risks topics

Focus topic Cyber Risks
- Dependency on IT infrastructure
- Cyber liability
- IT viruses
- Cloud computing
- Cyber war

Related Publications

Selected topics discussed in 2012/2013
- Technology at the limits of controllability
- Biometrics
- Social media
- Artificial Intelligence
- Privatisation of government responsibilities
- Obesity
- Scarcity of resources
- Protectionism
- Migration of species
- Loss of biodiversity
- Contentious diseases
- Autonomous vehicles
- Counterfeit products
- Distressed cities
- Food security & safety
- Wind turbines
- Hydrofracking
- Social unrest
Volume of international trade illustrates increasing interdependencies

Development of international trade Index (1960=1), in constant prices, development in %, 1960 to 2010

source: Bundeszentrale für politische Bildung, 2012,
Number of events: 820

- Natural catastrophes
  - Selection of significant loss events
- Geophysical events (earthquake, tsunami, volcanic activity)
- Meteorological events (storm)
- Hydrological events (flood, mass movement)
- Climatological events (extreme temperature, drought, wildfire)

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Development of systematic risk landscape based on expert judgement

Structure of CARE

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<thead>
<tr>
<th>Society &amp; Politics</th>
<th>Environment &amp; Nature</th>
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<td>Economy</td>
<td>Technology</td>
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Example: Potential causes & consequences of a blackout (Selected nodes)
Was ist Wahrscheinlichkeit?

Subjektive Schätzungen sind systematisch verzerrt

Quelle: Lermer et al (2013)
How organisations can deal with uncertainty

Mindful management

Minimise uncertainty through standardisation
- Reduced scope of action
- Centralised planning and control
- Deviations are seen as a disturbance that should be eliminated

Competently cope with uncertainty using a flexible, learning-based approach
- Increased scope of action
- Flexible use of rules
- Deviations are seen as an opportunity to learn

Zusammenfassung

Vernetzung führt zu Komplexität.

Komplexität erhöht die Unsicherheit.

Mehr vom Gleichen – oder neue Strategien?

Transparenz ist nötig für gute Entscheidungen.

Unsicherheit akzeptieren und bewusst steuern.
Kontakt

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