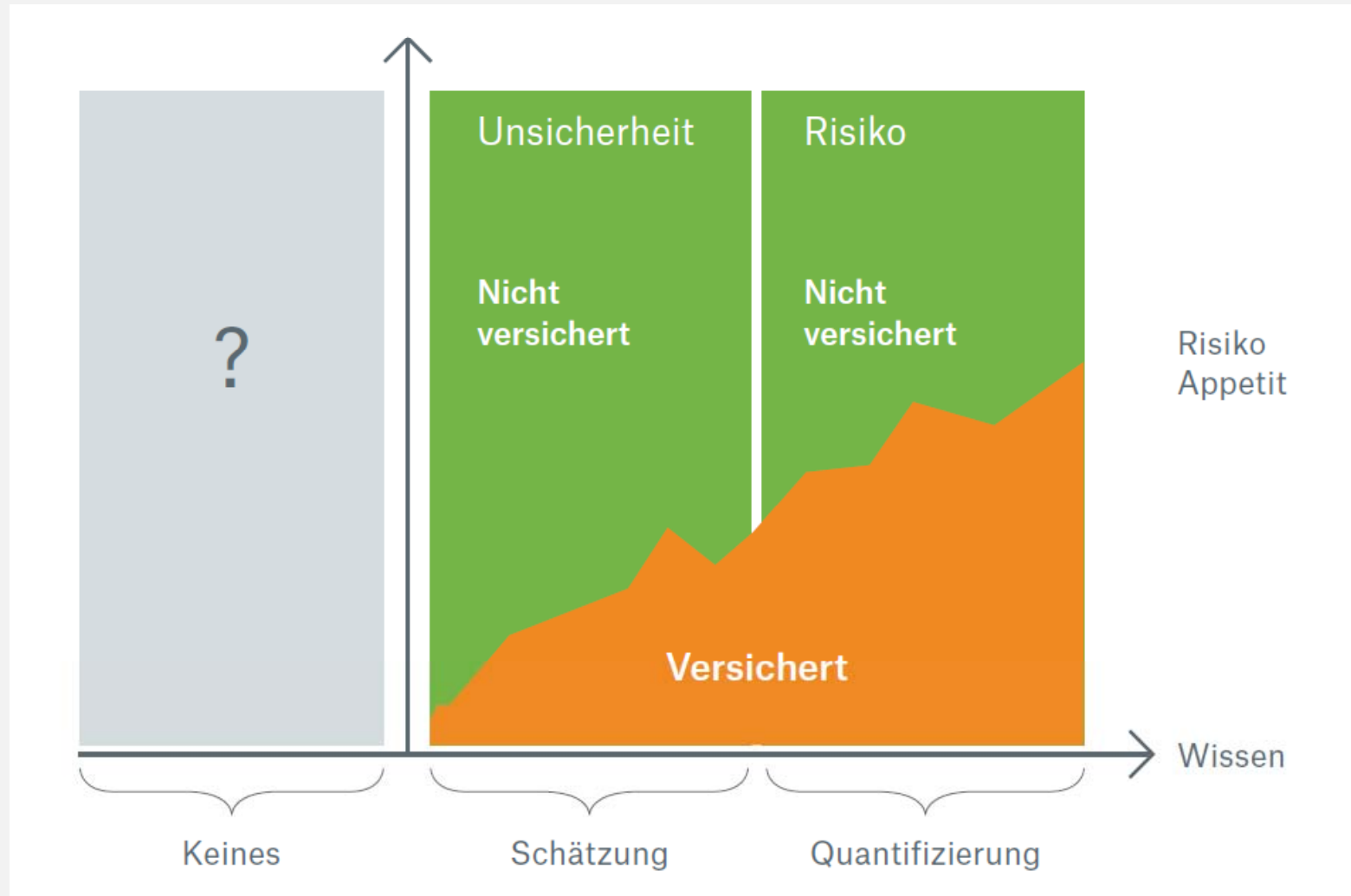




Emerging Risk Management bei Munich Re

Dr. Rainer Sachs
Fachworkshop Sicherheitsökonomie, Göttingen
13 Dezember 2013

Zwei Facetten des Unerwarteten – Risiko und Unsicherheit



Focus topic Cyber Risks



- Dependency on IT infrastructure
- Cyber liability
- IT viruses
- Cloud computing
- Cyber war

Related Publications

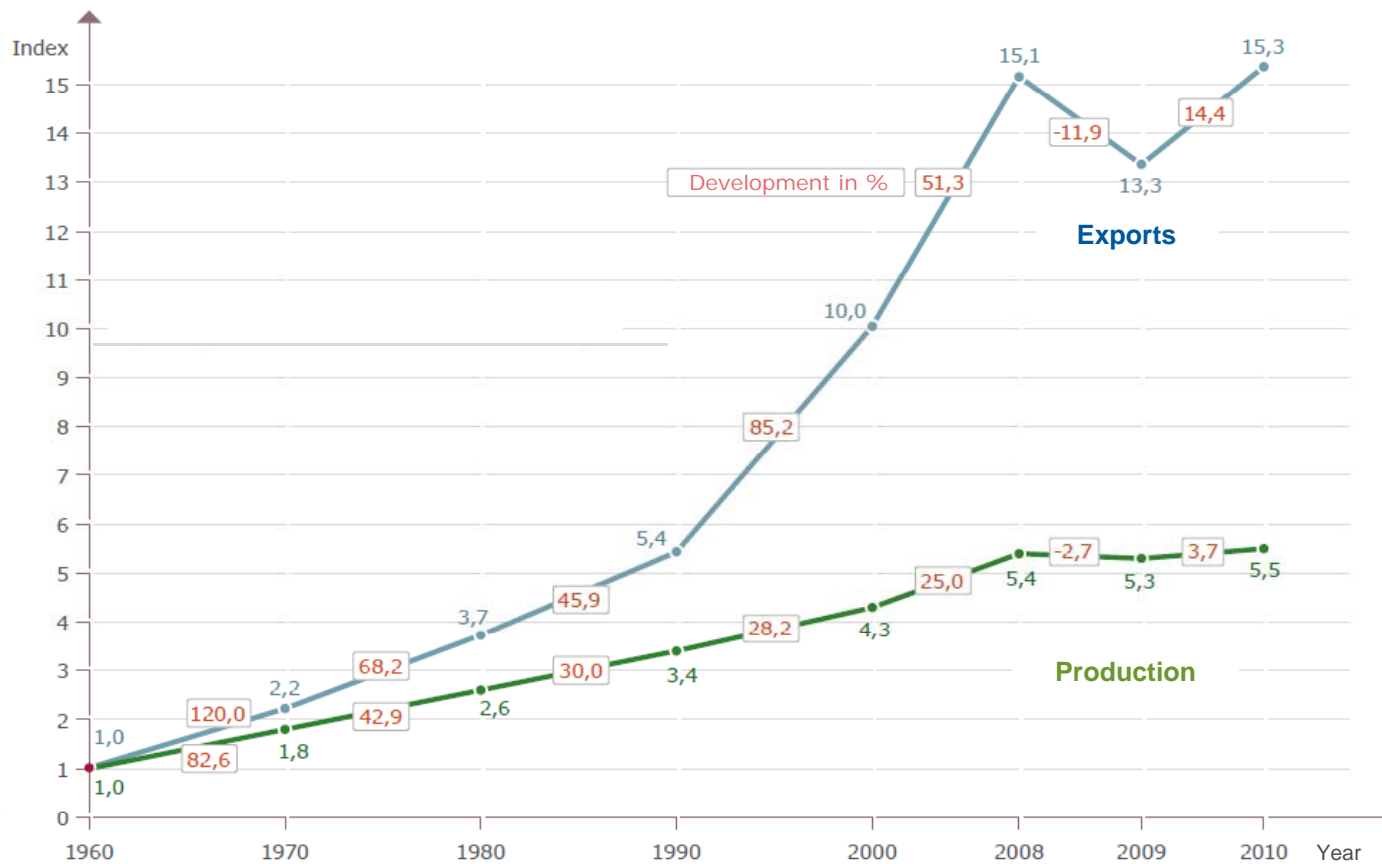


Selected topics discussed in 2012/2013

- 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

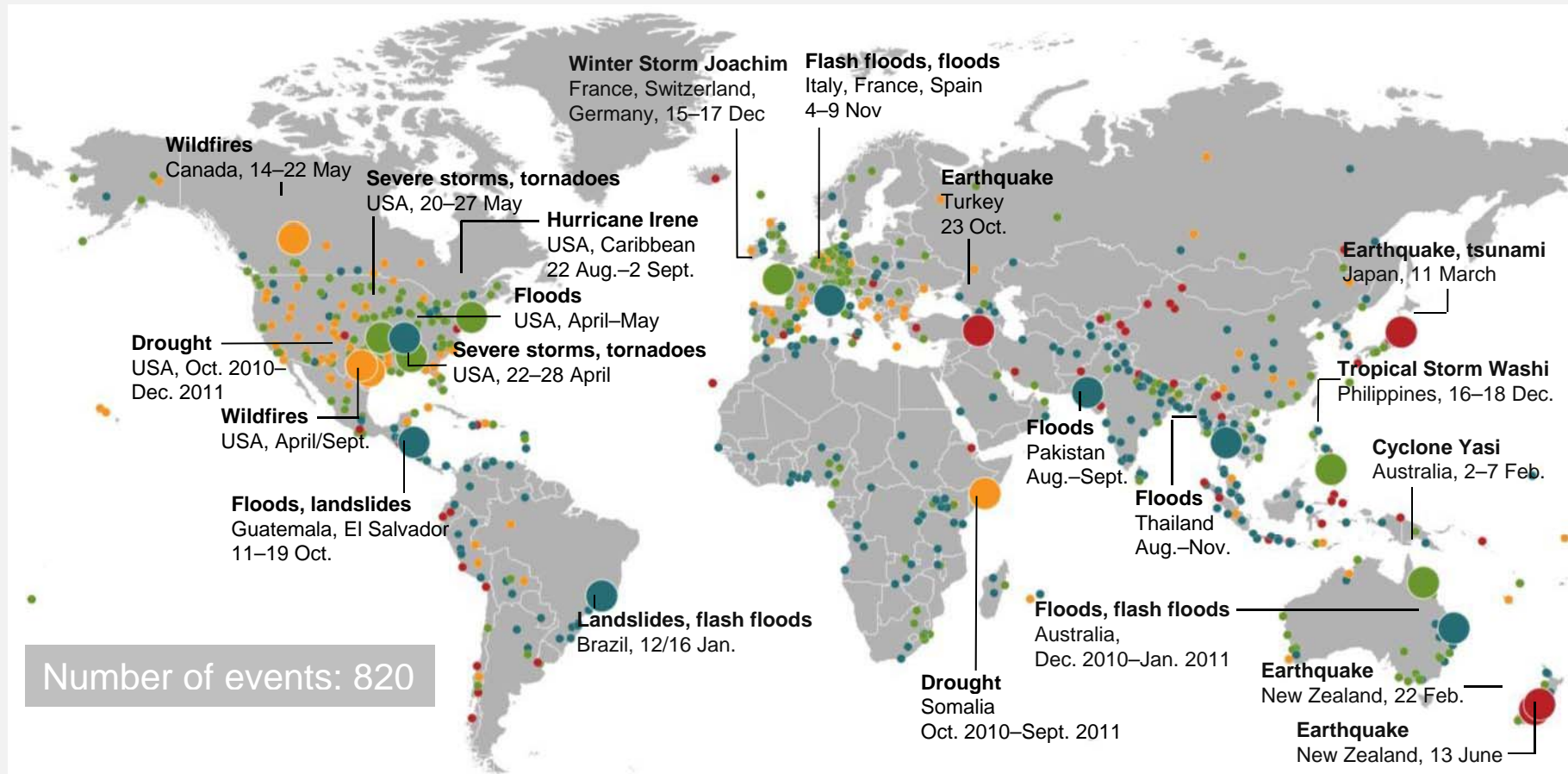
Development of international trade Index (1960=1), in constant prices, development in %, 1960 to 2010



source: Bundeszentrale für politische Bildung, 2012, www.bpb.de // World Trade Organization (WTO): International Trade Statistics 2010/2011 // license Creative Commons by-nc-nd/3.0/de

Natural Catastrophes 2011

World map



Number of events: 820

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

Development of systematic risk landscape based on expert judgement

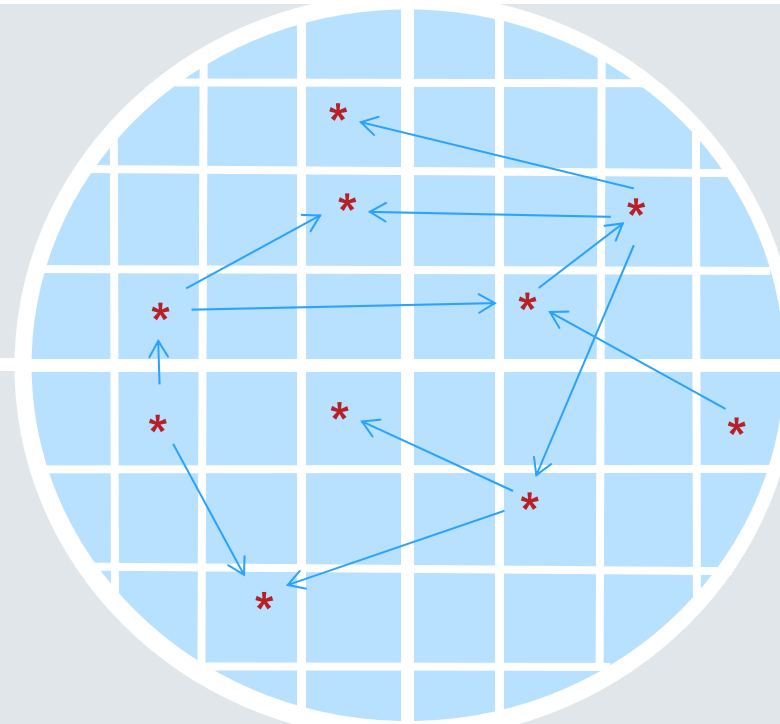
Structure of CARE

Society & Politics

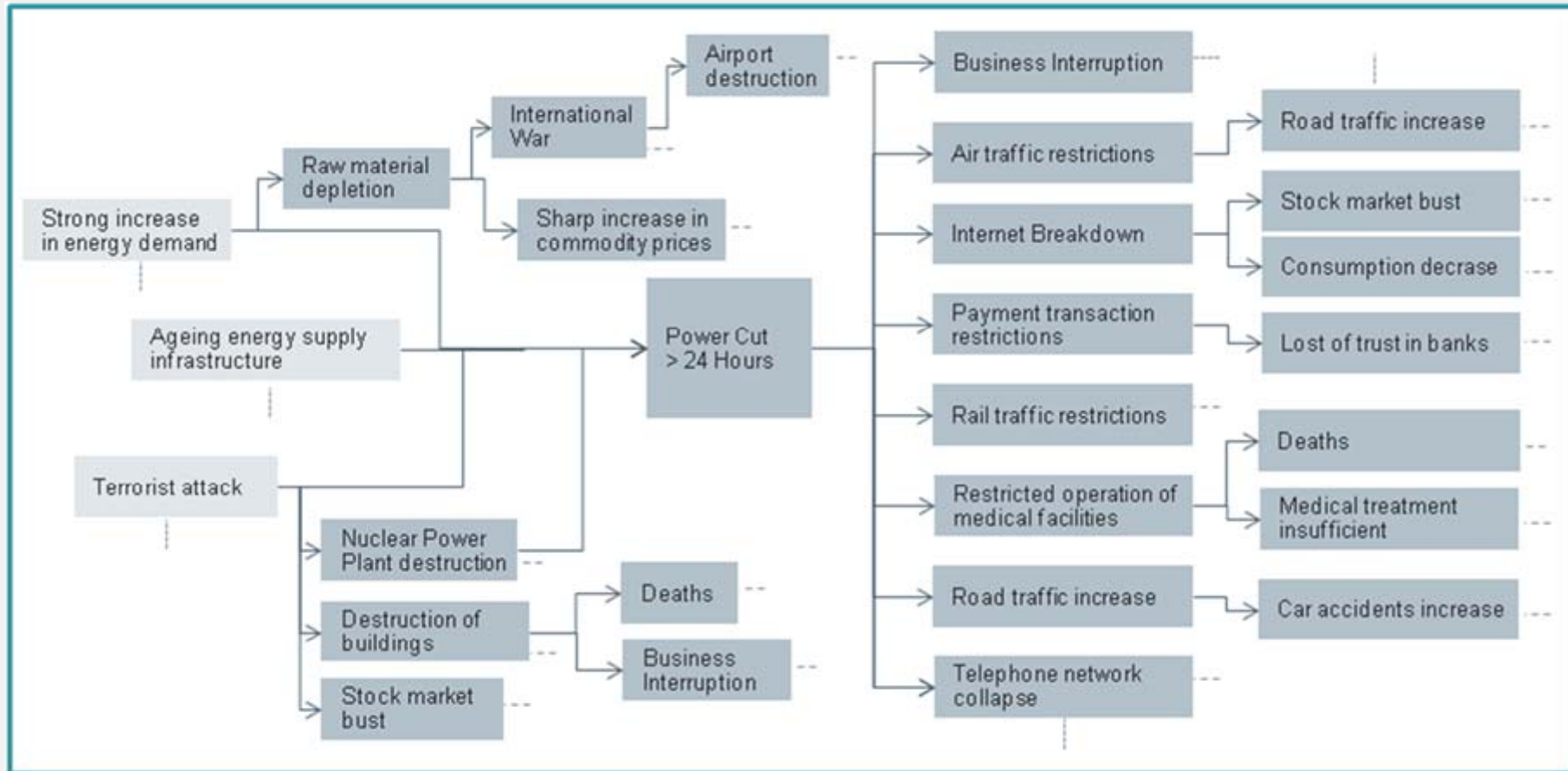
Environment & Nature

Economy

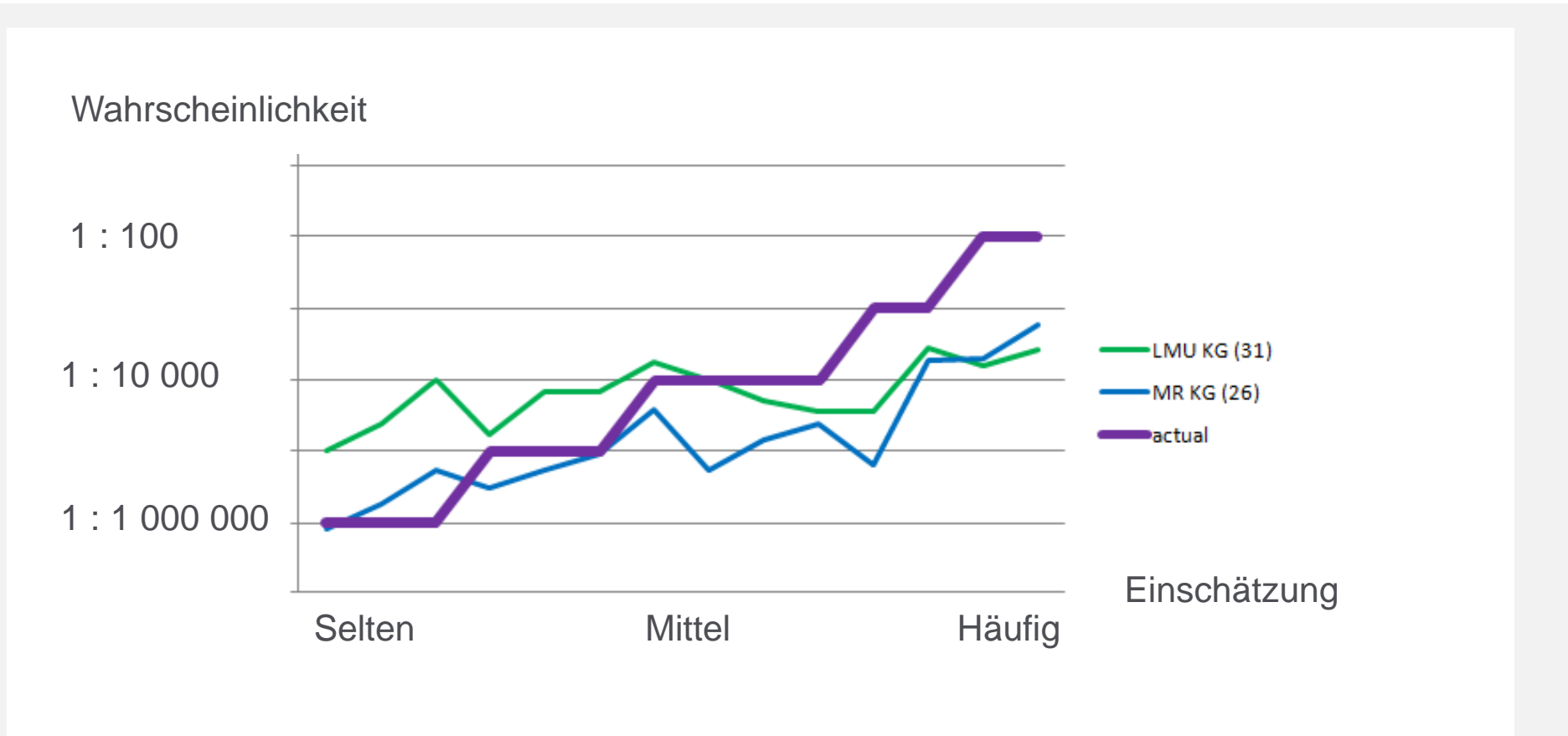
Technology



Example: Potential causes & consequences of a blackout (Selected nodes)

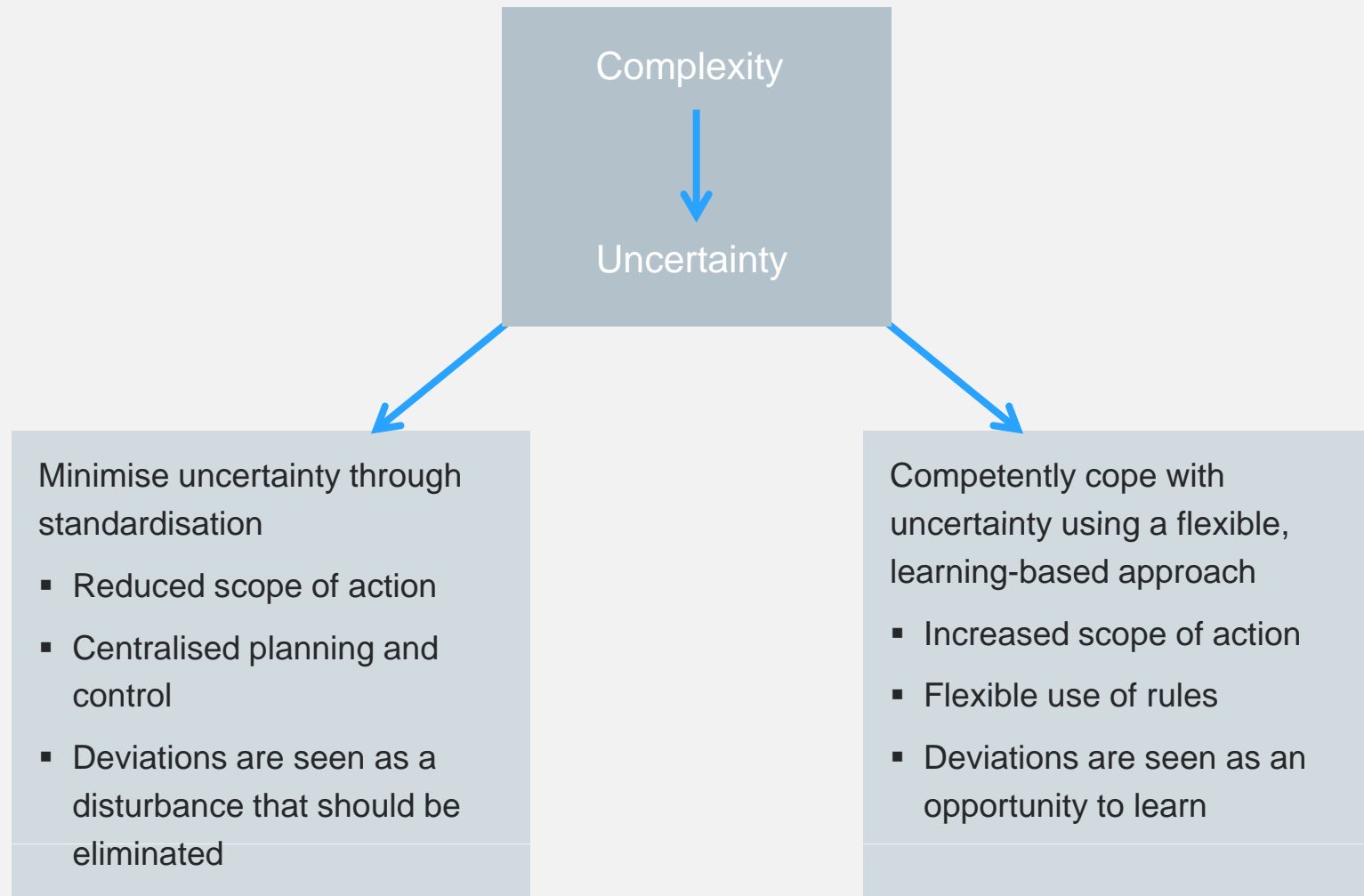


Was ist Wahrscheinlichkeit?



Subjektive Schätzungen sind systematisch verzerrt

How organisations can deal with uncertainty



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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