



Factors shaping the link from climate-related disasters to forced migration and violent conflict

Michael Brzoska and Jürgen Scheffran



clisap^o



Deutscher Wetterdienst
Wetter und Klima aus einer Hand



World Natural Disasters 1980-2016

IFSH

Institut für Friedensforschung
und Sicherheitspolitik

Number

800

600

400

200

1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016

Geophysical events
(Earthquake, tsunami,
volcanic activity)

Meteorological events
(Tropical storm,
extratropical storm,
convective storm,
local storm)

Hydrological events
(Flood, mass movement)

Climatological events
(Extreme temperature,
drought, forest fire)

Accounted events have caused at least
one fatality and/or produced normalized
losses \geq US\$ 100k, 300k, 1m, or 3m
(depending on the assigned World Bank
income group of the affected country).

US\$ bn

400

300

200

100

1980 1982 1984 1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016

Overall losses
(in 2016 values)

Insured losses
(in 2016 values)

Inflation adjusted via country-specific
consumer price index and consideration
of exchange rate fluctuations between
local currency and US\$.

Source: © 2017 Munich Re,
Geo Risks Research,
NatCatSERVICE

Weather-related disasters

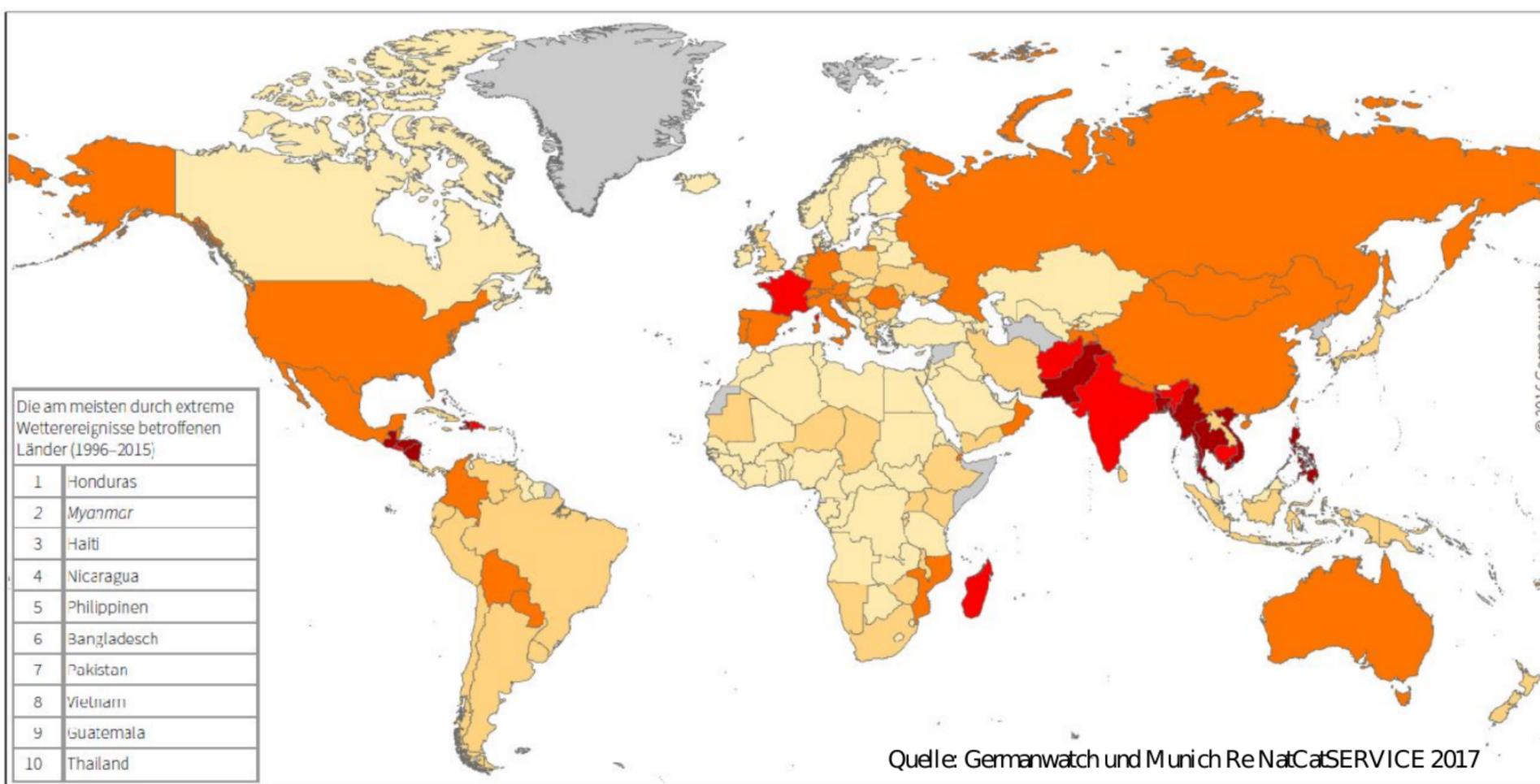
<i>Disaster type</i>	<i>Number of events</i>	<i>Total deaths (in thousands)</i>	<i>Total affected (in millions)</i>
Drought	293	21	1.347
Extreme temperatures	369	161	94
Flood	2.790	93	1.462
Landslide	313	14	4
Storms	1.705	193	556
Wildfire	198	1	3
Total	5.668	483	3.466

Source: Created from Guha-Sapir, D., Below, R. and Hoyois, P., EM-DAT: The CRED/OFDA International Disaster Database (Université Catholique de Louvain, Brussels), www.emdat.be.

Global Climate-Risk-Index (1996–2015)

IFSH

Institut für Friedensforschung
und Sicherheitspolitik
an der Universität Hamburg



Kursiv: Länder, in denen mehr als 90 % der Verluste/Todesfälle in einem Jahr/Ereignis aufraten.

Klima-Risiko-Index: Ranking 1996–2015 1–10 11–20 21–50 51–100 >100 Keine Daten

Based on disaster impact: casualties and GDP loss (percent and total)

World Natural Disasters 2016



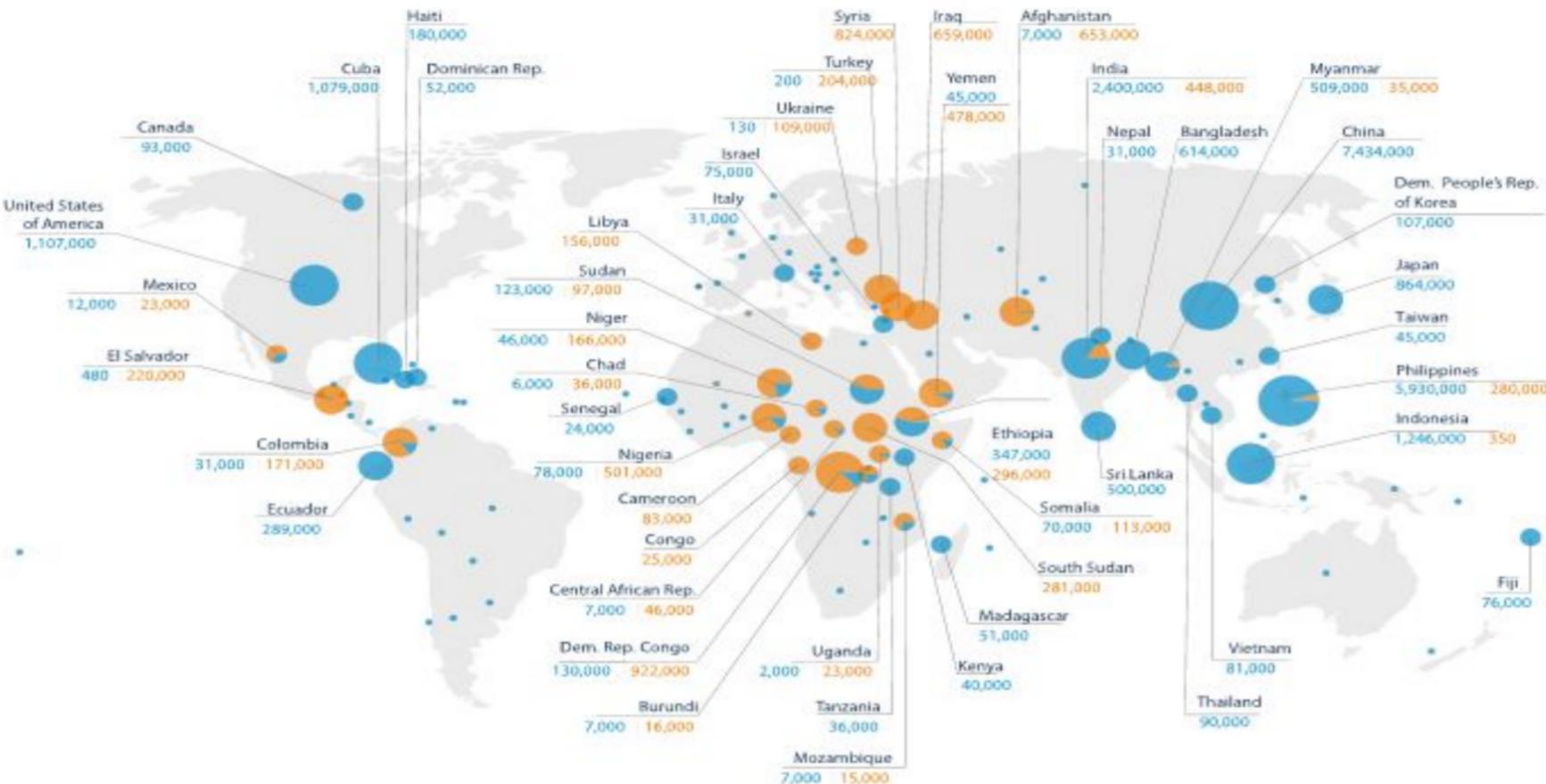
New displacements by conflict and disasters in 2016

IFSH

Institut für Friedensforschung
und Sicherheitspolitik
an der Universität Hamburg

displacements by conflict and disasters in 2016

 TWEET THIS MAP

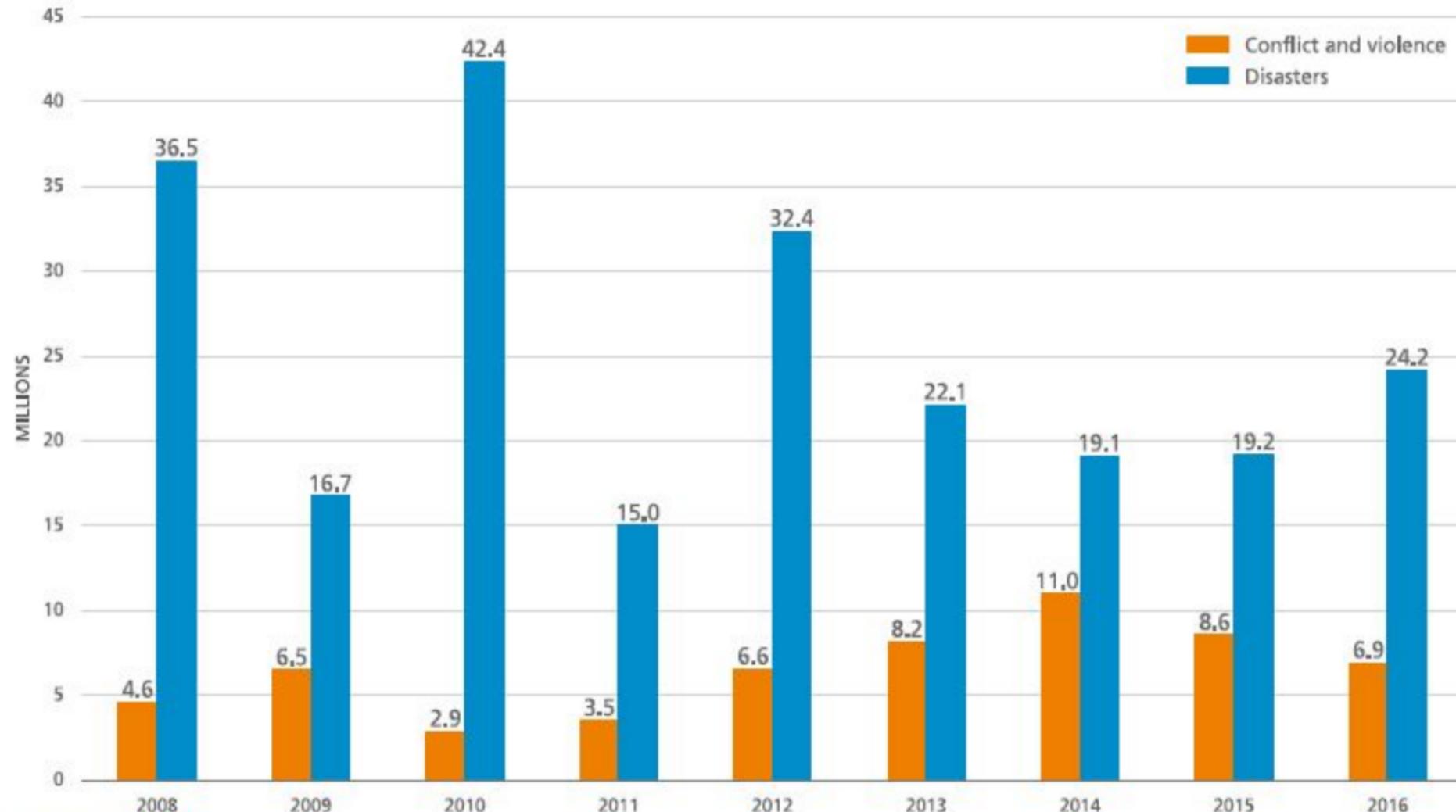


MORE THAN 3 MILLION
1,000,001 TO 3 MILLIONS
200,001 TO 1,000,000
20,001 TO 200,000
LESS THAN 20,000

Source: IDMC, GRID 2017

Seite 6

New forced displacements per year since 2008

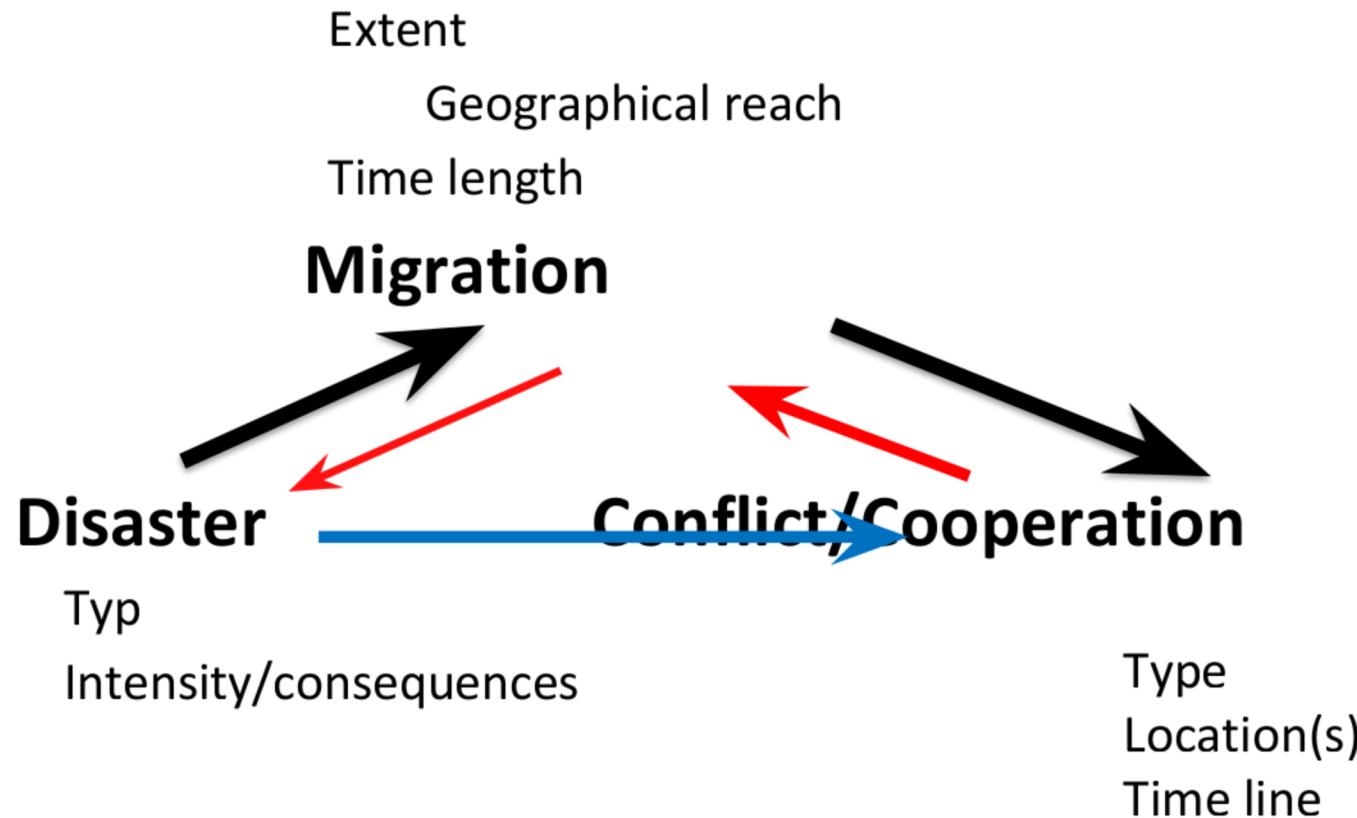


Source: IDMC

Source: IDMC, GRID 2017



- Disasters as conflict drivers
 - Examples: Somalia drought 2011, India-Bangladesh
- Disasters as social unifiers
 - Example: Philippine (Mindanao) cyclones 2013-2015
- Disasters as transformation accelerators
 - Examples: Haiti 2004, Egypt 2011



- Environmental disasters have only rarely initiated political violence.
- They more often, but still rarely, have fueled existing internal armed conflicts.
- Low—level political violence is rare but more likely to emerge than armed conflicts.
- Disasters have also sometimes facilitated the ending of armed conflict.
- Migration does not seem to independently exacerbate the likelihood that disasters are linked to violence but can aggravate/dampen conflicts in origin and destination regions because of its characteristics.

- State capacity and political system affect the relationship between disasters and violent conflict.
- There is limited evidence that scarcities, with migration as a contributing factor, are driving violent conflict. In addition, perceptions about distributional effects are important. Furthermore, extreme weather events can have translocal effects on the availability and prices of relevant goods, particularly food.
- Humanitarian assistance often shapes the availability of goods and services to both migrant and host populations and thus affects patterns of migration and resource scarcity and also interacts with conflict.
- Both the immediate disaster situation and post-disaster recovery can be conflict-prone.

- Pre-disaster levels of social cohesion and/or conflict
- Differences among and organisation of social groups (migrants and others)
- Distribution (and perceptions of distribution) of costs of disasters in relationship to existing (potentially migration-enhanced) conflict fault lines
- Effects of disasters (and induced migration) on distribution (and perceptions of distribution) of goods, services, revenues and wealth in and post disasters
 - Management of humanitarian assistance
 - Divisiveness of post-disaster recovery