



# Natural and Technological Disasters

## Facts & Figures

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European Commission, Joint Research Centre

Meeting of Senior Officials of the Carnegie Group Countries,  
the World Bank and the United Nations  
Brussels, 6 December 2012



# Extreme events

## Health Protection Agency bulletin: 30 November 2012

### Australia

- Victoria records hottest November day
- Bushfire threatens Tasmanian communities

### Guatemala

- Ash spews from Guatemala's Santa Maria volcano

### Russia

- Kamchatka Volcano Eruption Destroys Science Camps
- Heavy snow hits Moscow
- Moscow in gridlock after heavy snow

### UK

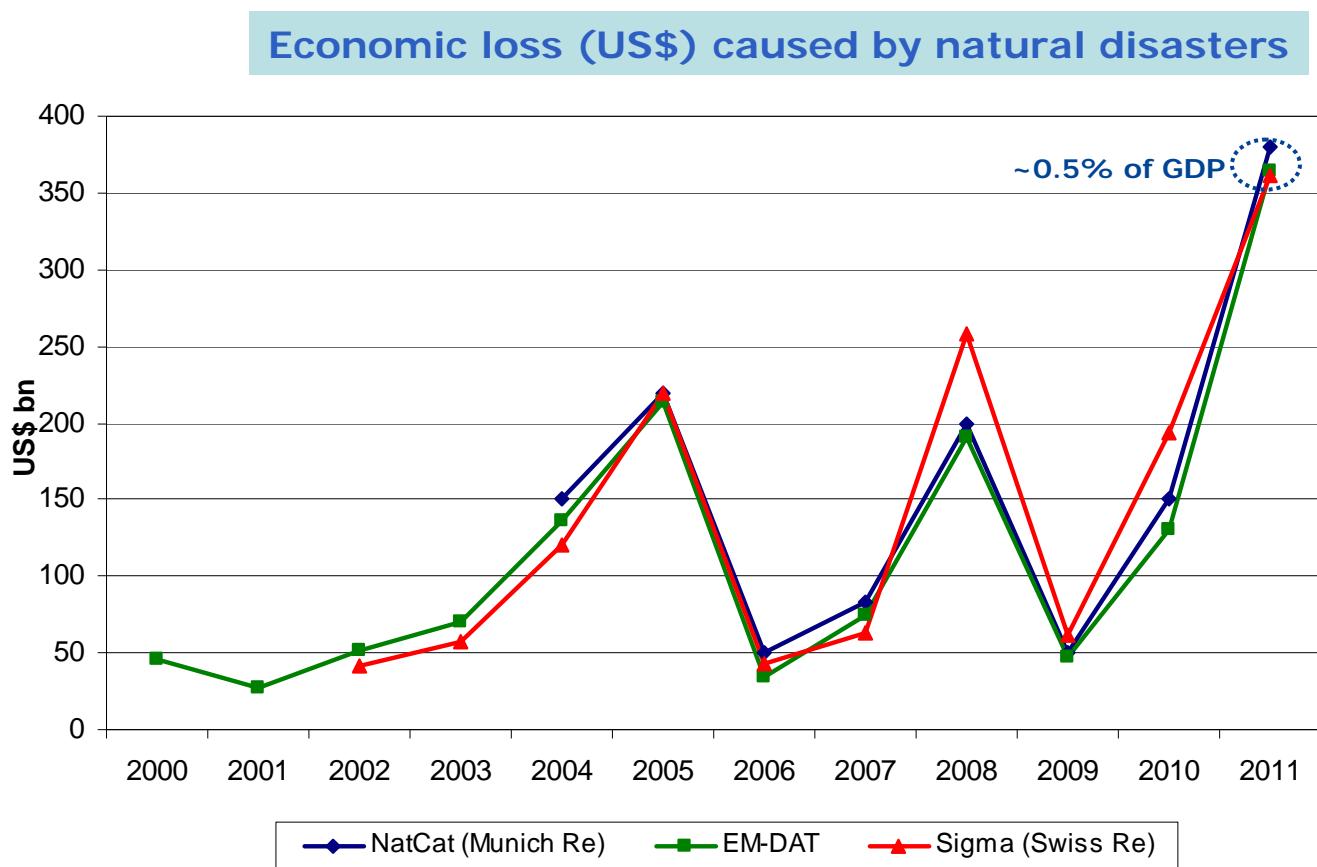
- Oxford floods: Environment Agency says defences cost £100m
- Tamworth floods: The chaos left across town
- Wales floods: Climate change could be to blame, Welsh Secretary says

### US

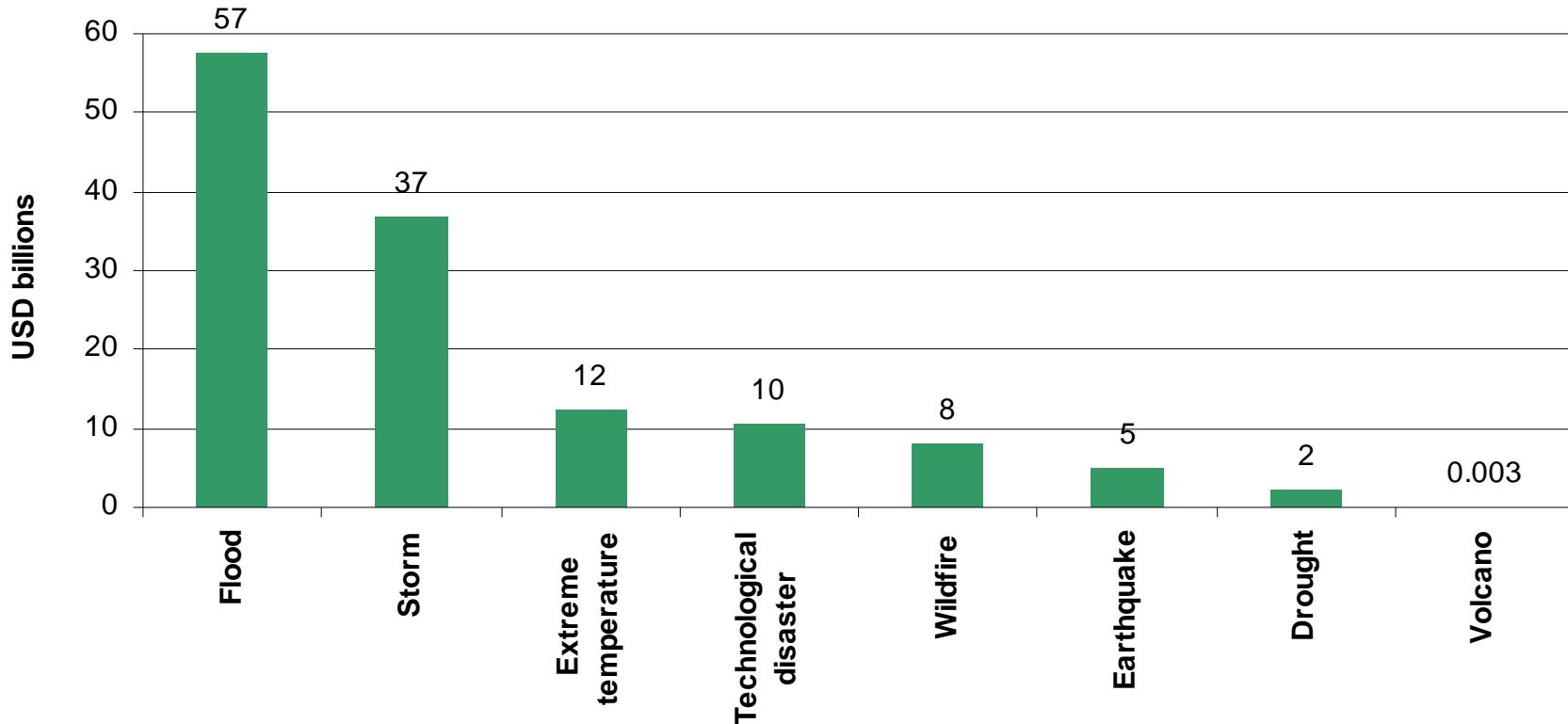
- Bay Area residents brace for strong winds, high surf, heavy rain
- Winter storm brings heavy rain, wind

# Comparison of the three main sources of global disaster data

- **NatCat:** maintained by Munich Reinsurance Company
- **Sigma:** maintained by Swiss Reinsurance Company
- **EM-DAT:** maintained by the Centre for Research on the Epidemiology of Disasters (Université Catholique de Louvain)

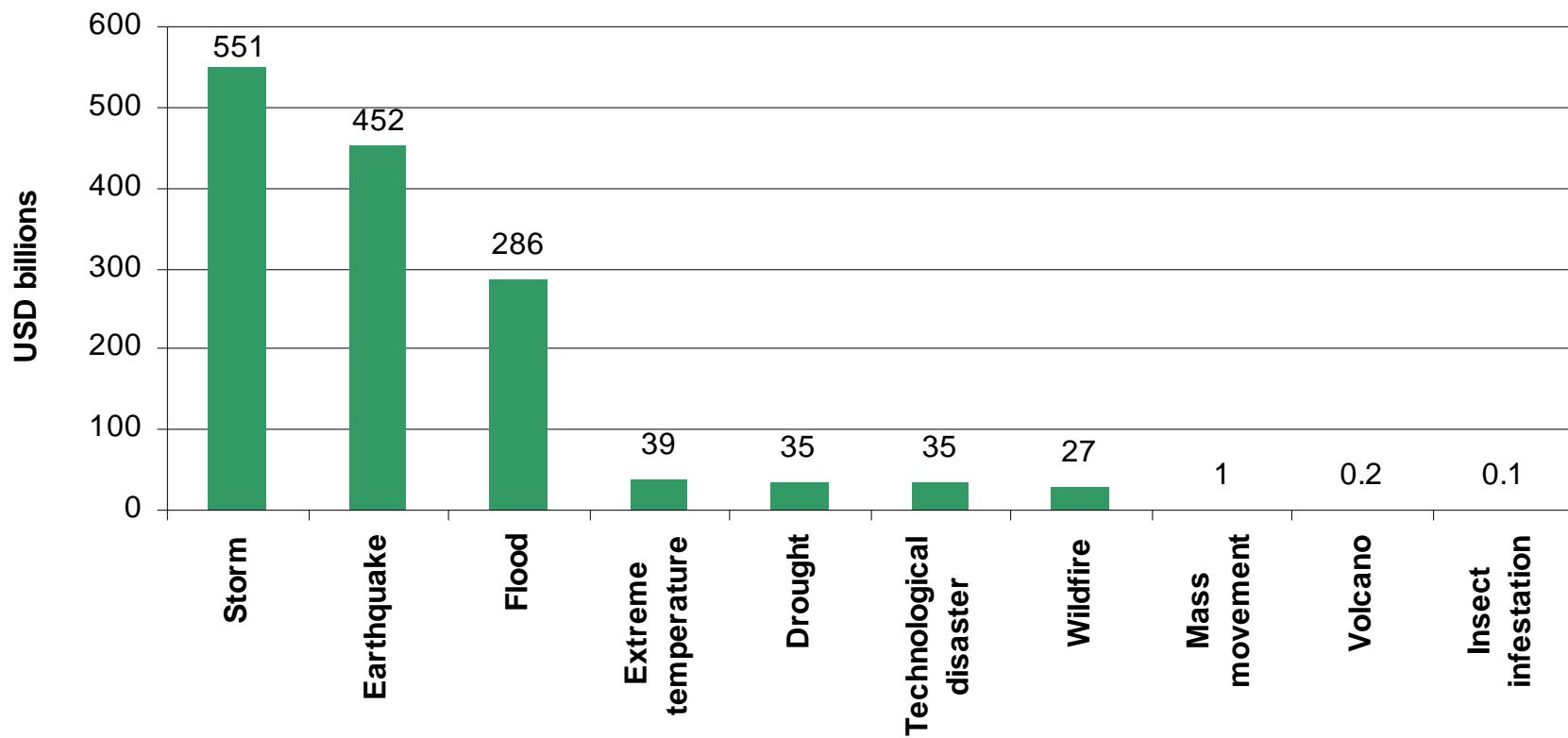


## Economic losses caused by natural and technological disasters in the EU over the whole 2000-2012 period



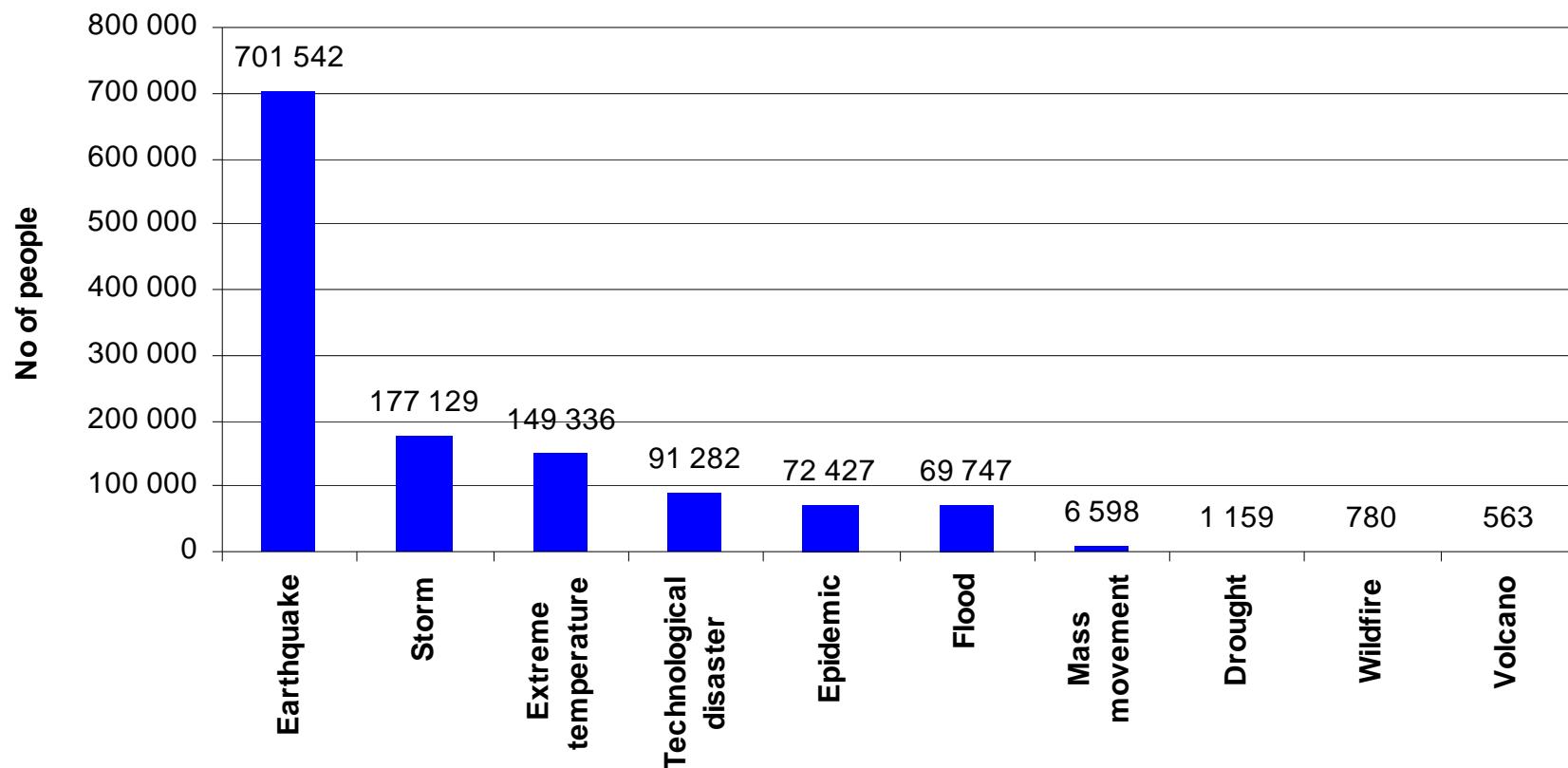


## Economic losses caused by natural and technological disasters in the World over the whole 2000-2012 period



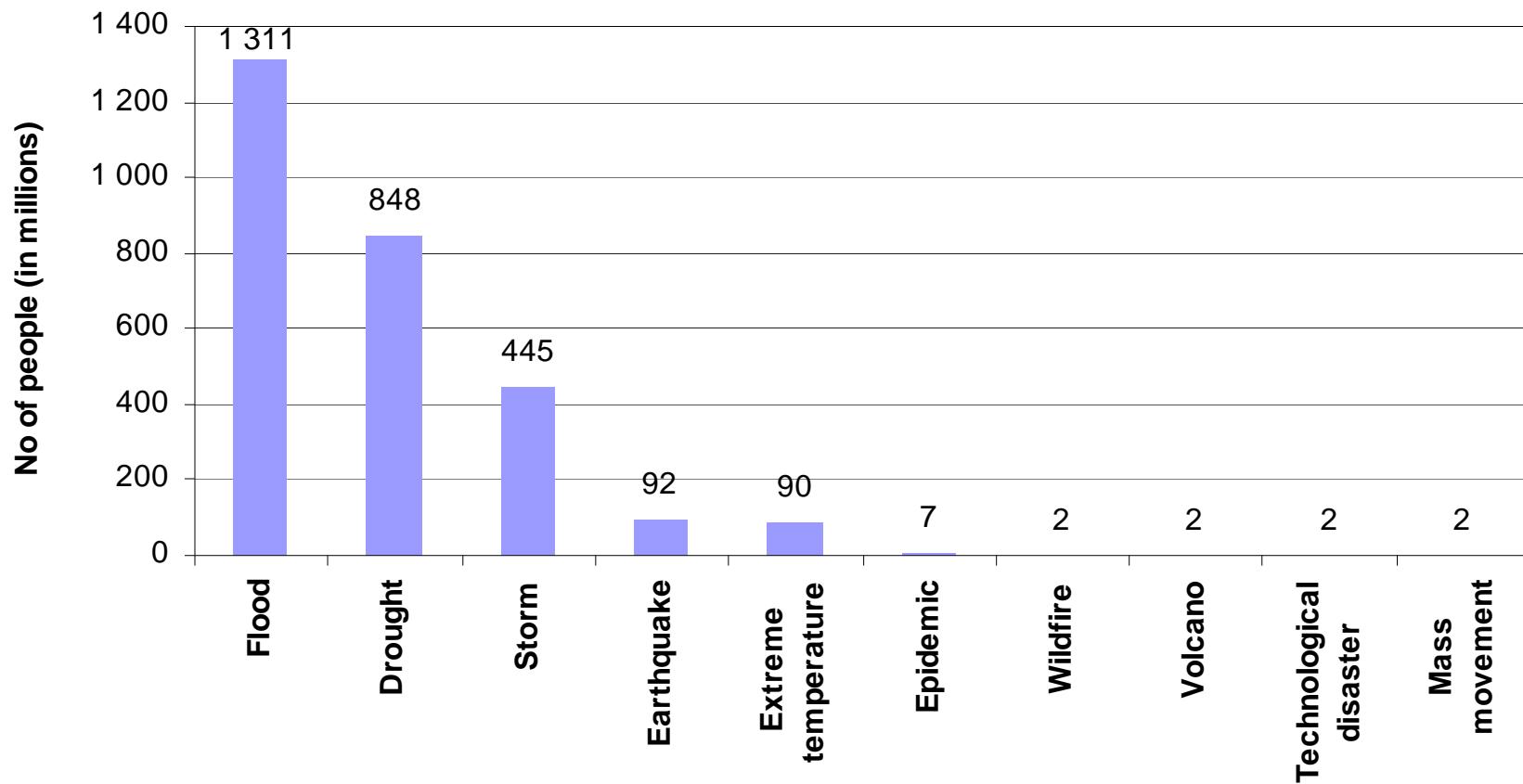


## People killed by natural and technological disasters in the World over the whole 2000-2012 period



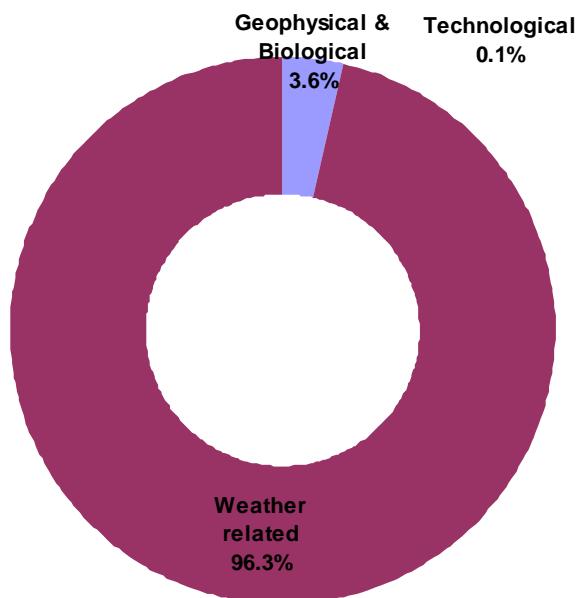


## People affected by natural and technological disasters in the World over the whole 2000-2012 period

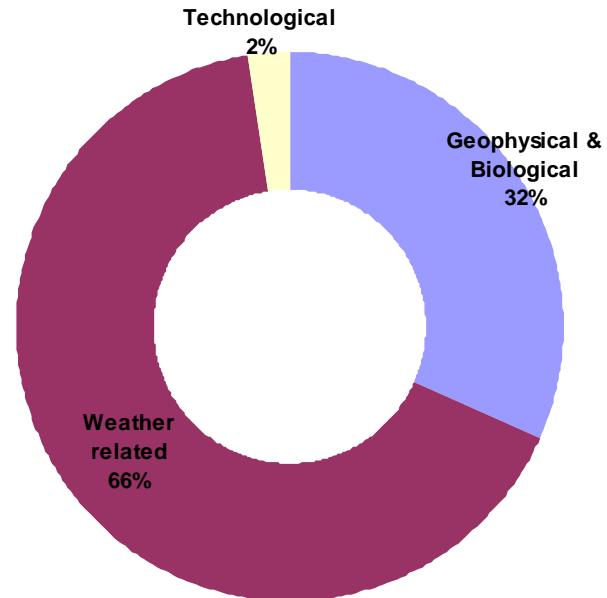


# Human and economic impact of disasters in the World, 2000-2012

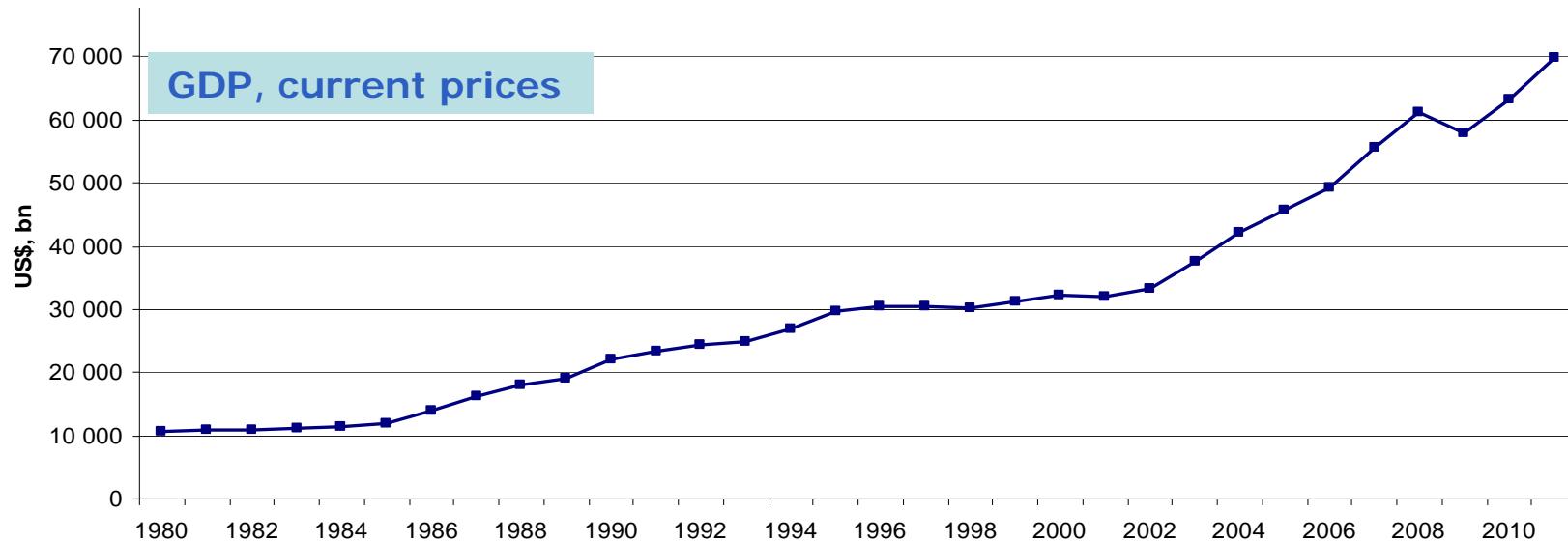
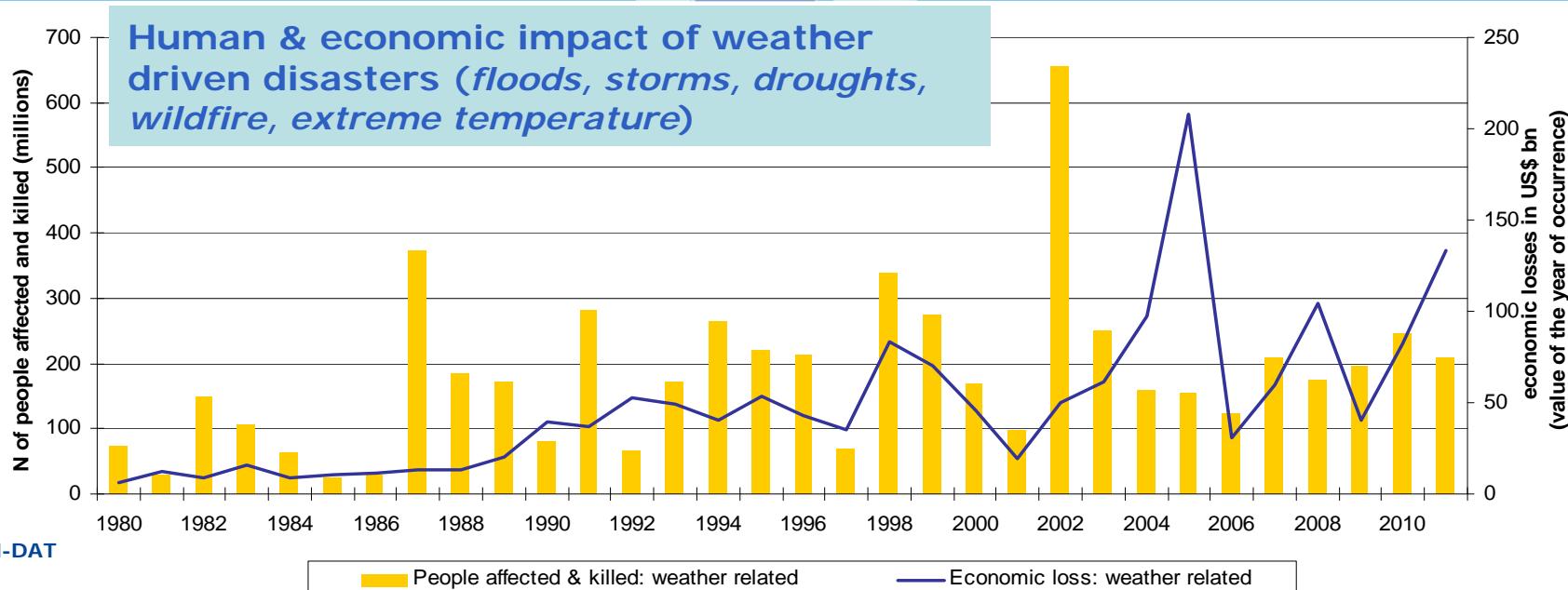
People affected and killed: 2,8 billion



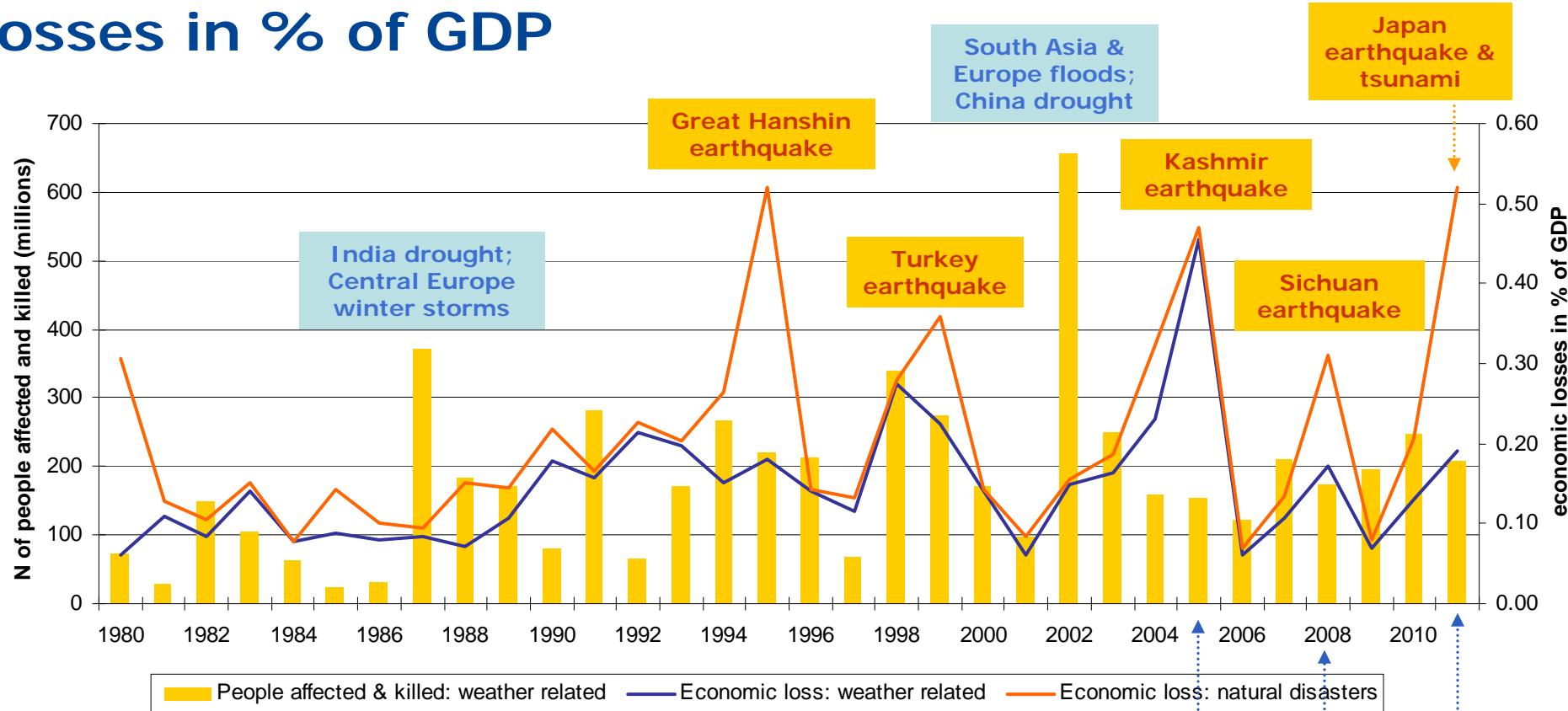
Economic loss (US\$): 1,4 trillion



Weather disasters: meteorological (storm), hydrological (floods, wet mass movement), climatological (extreme temperature, drought, wildfire)



# Human impact and economic losses in % of GDP



Weather driven disaster

Other natural disaster

USA hurricanes

Thailand floods

Nagris cyclone