

Evidence for Public Policy Data applications for disasters and civil conflicts

Debarati Guha-Sapir Dept of Epidemiology, University of Louvain Brussels, Belgium

WWW.CRED.BE



Centre for Research on the Epidemiology of Disasters





What I will address

 Data on human impact of Natural Disaster – EMDAT

 Data on <u>Conflict affected</u> <u>populations - CEDAT</u>



EM-DAT: International Disaster Events Database

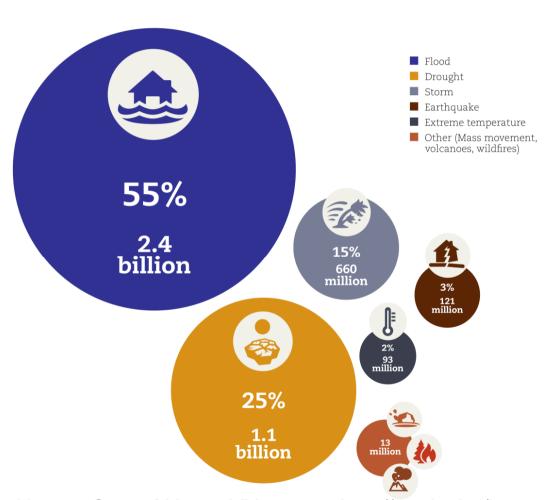


- ✓ Physical characteristics, human and economic losses natural disasters since 1980
- √ 1900 today and 184 countries
- ✓ Fixed inclusion criteria and definitions (with Munich Reinsurance)
- ✓ Geocodes of impact foot print (no public access)
- ✓ Regional hubs initiated
- ✓ Funded by: USAID/Belgian Government/EU)



Numbers affected by disaster types 1994 - 2013



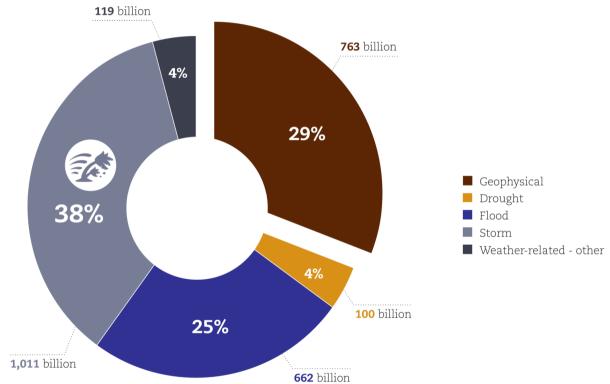


From: The Human Cost of Natural Disasters, http://emdat.be/human_cost_natdis



Economic damage by disaster 1995 - 2013

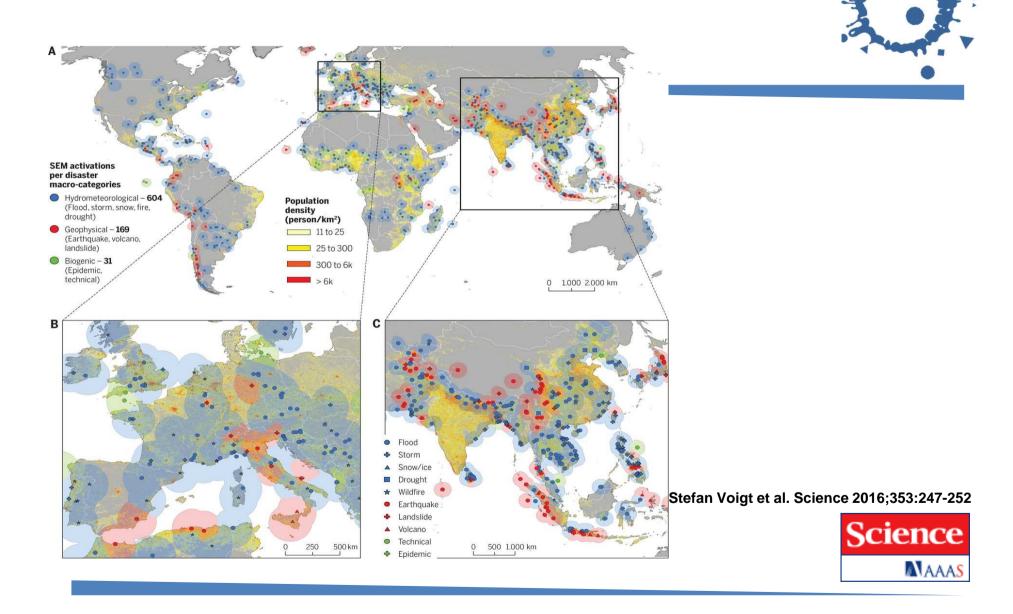




- Weather related disasters account for 70% of total losses;
- High asset values in high-income countries pushed up their recorded losses
- Human lives not accounted for

Human Cost of Disasters, CRED Report, 2015, www.cred.be/humancost

Fig. 2 Spatial distrib. of Sat. Emerg. Mapping activations by disaster type:



Natural disasters in Egypt 1980 - today (EMDAT)

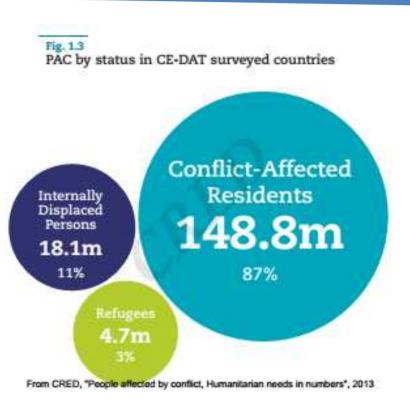
Disaster	No.	Deaths	Affected (tot)	Losses* (mill US\$)
Floods	9	669	168 498	232
Storms Earthquakes	6 5	119 694	32 849 93 965	130 2 088
Cold & heat	4	167	171	?
Grand Total	24	1649	295 483	2 450

^{*} Does not include value of lives lost

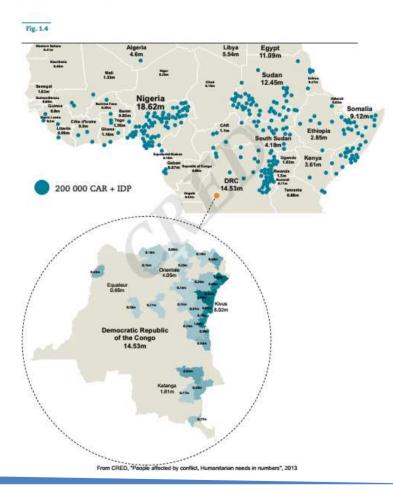
Data from fragile or insecure regions

(Data source: CEDAT)





Where are people living in conflict in 2012?



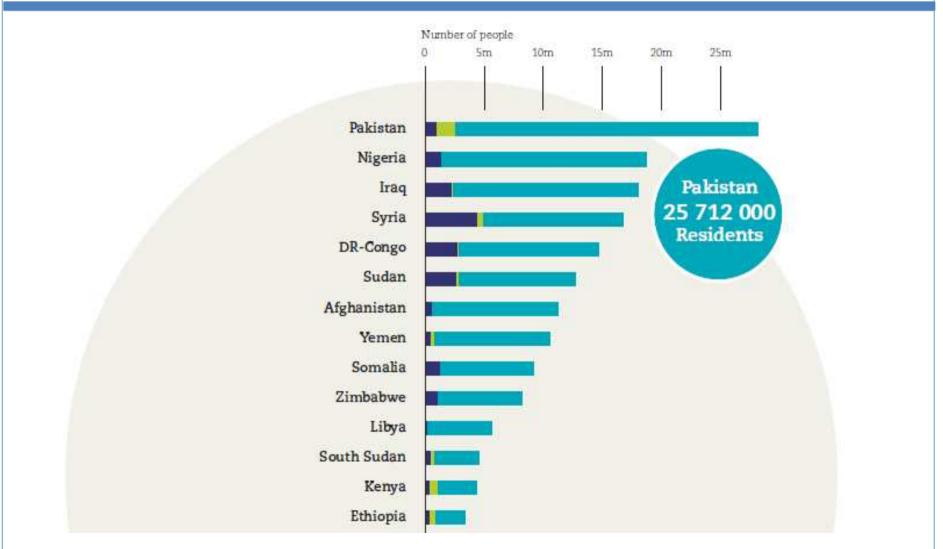
People affected by conflict, Humanitarian needs in numbers, CRED Report, 2013, www.cred.be



People affected by conflict



refugees, internally displaced and residents (2012)

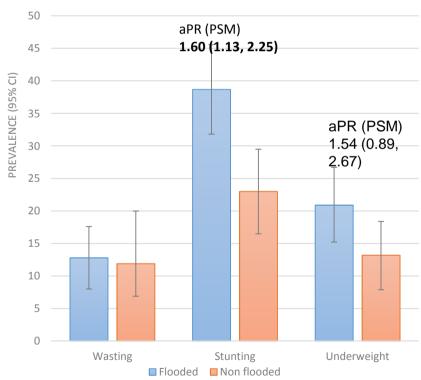


Flooding and long term effects on child growth



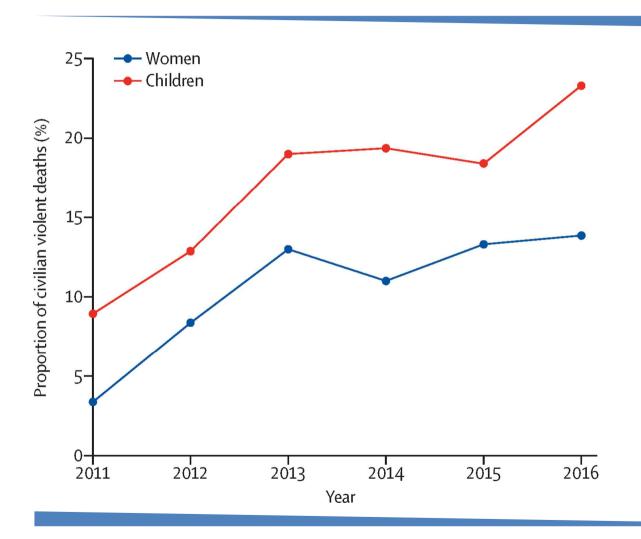


Propensity score matched for age, sex, bw, water, vaccination, income, caste, religion,



Evidence from weapon deaths in Syria: Mortality risk for child deaths 5x higher from aerial bombing



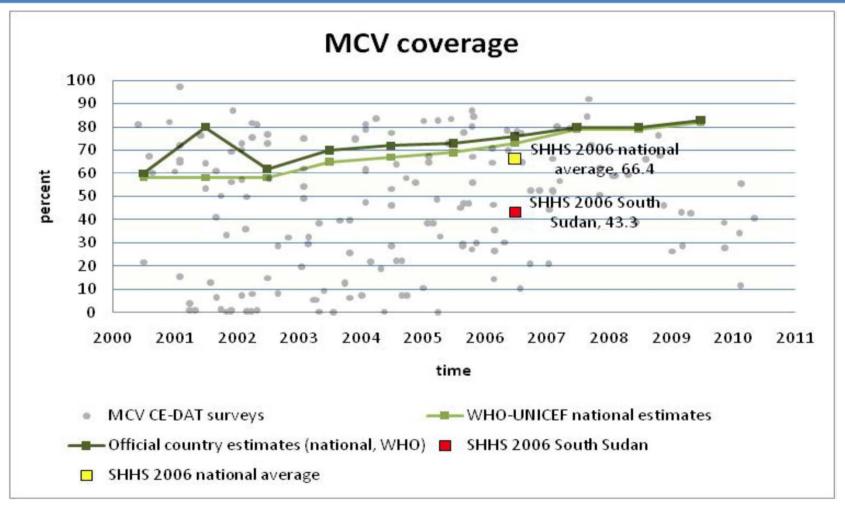


The Lancet, 2017



CEDAT Small scale surveys: SMART Consortium



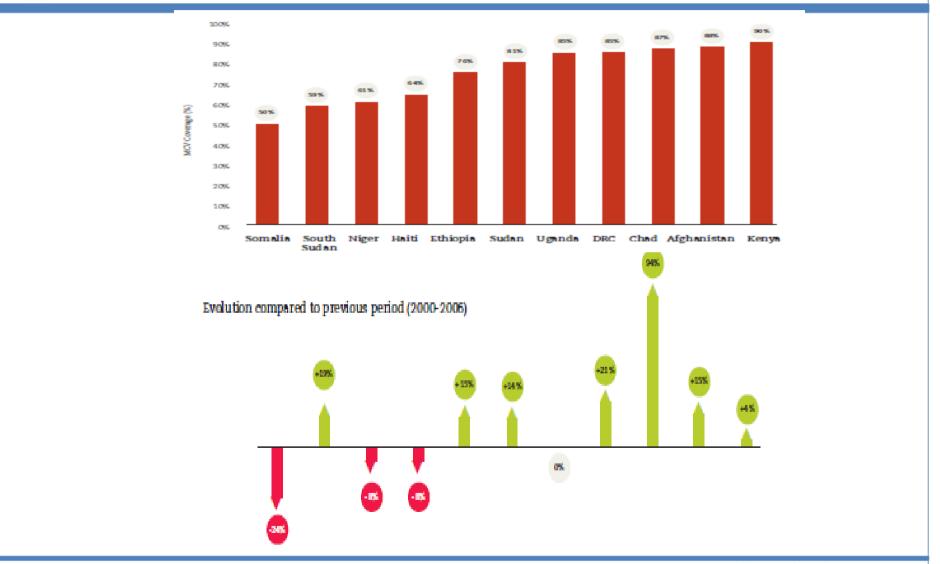


<u>Health data in civil conflicts: South Sudan under scrutiny</u>, Vogt, Heudtlass, Guha-Sapir, CRED Working Paper 282 Brussels, July 2011



Measles vaccine coverage among children in conflict zones: 2007 – 2012 (source: CEDAT Database, CRED)









IN GOD WE TRUST

ALL OTHERS MUST BRING DATA

STATISTICAL REPORTS AND DATABASES AVAILABLE ON WWW.CRED.BE

Contact: regina.below@uclouvain.be