COVID-19 impact on zoonotic disease risk solutions in displaced populations

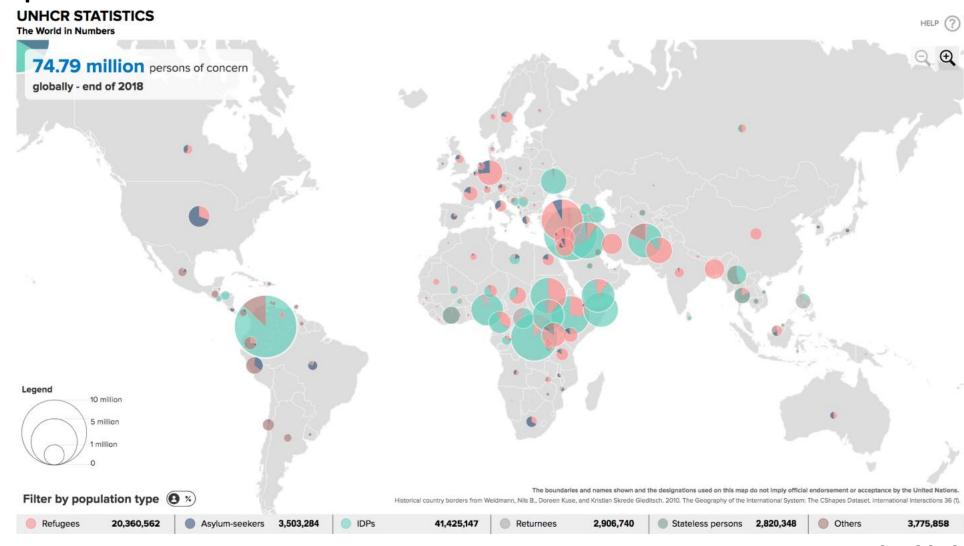
Cambridge Global Food Security Food for Thoughts Coffee Break Seminar

Dorien Braam, June 2020





Displacement



Map: UNHCR, 2019

Displacement











Zoonotic disease

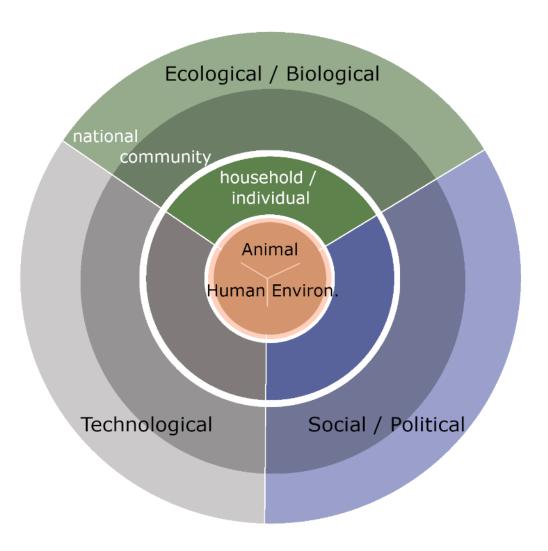
- Infectious diseases that spread between animals and humans
 - > 60% of emerging infectious diseases
 - COVID-19; Bovine Tuberculosis, Brucellosis
- Emergencies and health
 - respiratory
 - gastrointestinal
- Displacement increases risks
 - overcrowding
 - living conditions



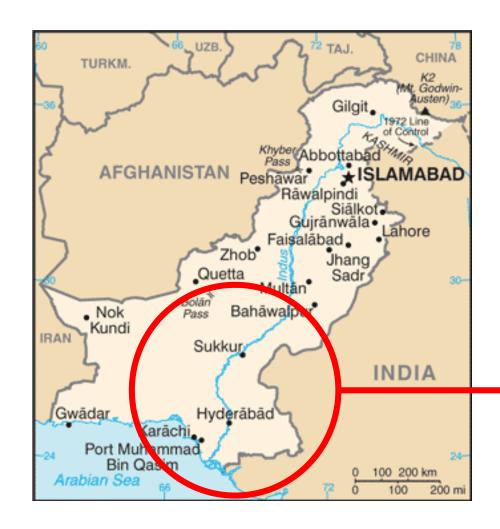
Risk factors

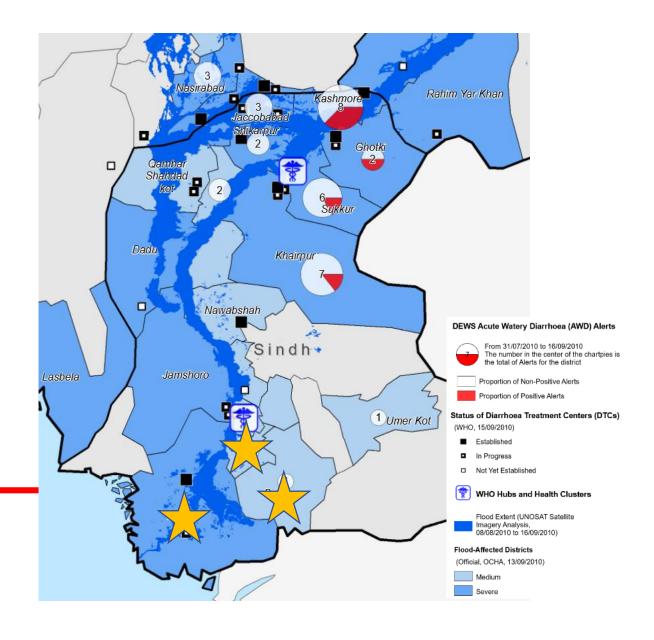
- Disease risk during disasters & conflict
- Health in displacement
- Ecosocial theory (Krieger, 1994)

	Ecological/ Biological	Technological	Social/Political
National/regional	Prevalent animal diseases	Available services	Policies Conflict
Community Changes in:	Land Wildlife interactions Host interaction Vectors Endemic disease	Urban planning Water and sanitation Health services Veterinary services	Community structure Knowledge
Household/individual Changes in:	Available hosts Immunity Stress	Housing/ shelter Animal husbandry Malnutrition	Socio-economic status Animal handling Slaughter practices



Case study I: Sindh





Environmental displacement

- Movement
 - Formal vs informal (relatives)
 - Transportation
- Livestock
 - Loss: disaster, accidents, theft
 - Disease at destination and return
- Responses
 - (lack of) policies
 - Animals away from formal camps: fodder, health



Seasonal migration











Coastal erosion









Superfloods 2010









Case study: Mafraq





Conflict displacement

- Since 2011
 - Protests > conflict
 - Forced migration until 2015
- Livestock
 - Internal displacement (sales, theft)
 - Smuggling
- Refugees
 - 1.1 million in Jordan
 - >80% outside refugee camps





Refugees









Seasonal migrants -> refugees



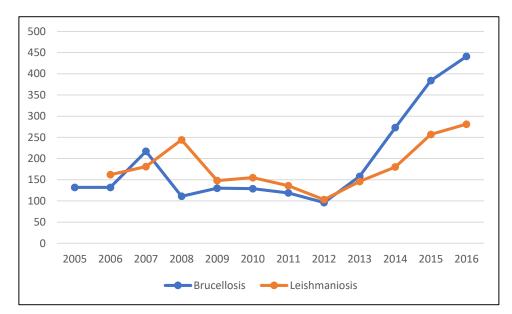






Preliminary findings

- Displacement
 - Policies; refugee/ IDP status
 - Animal loss: sales, conflict, accidents, theft
 - Smuggling
- Animal diseases
 - Regional endemic diseases
 - At destination and return
- Human health complaints
 - Respiratory, gastrointestinal, fever, skin
 - Zoonoses: occupational hazard
- Responses
 - Compound hazards multiply or equalize
 - Public vs private sector
 - Formal (fodder, health) vs informal/ traditional responses; restocking





COVID-19

- Impact
 - National policies
 - Movement restrictions
 - Lockdowns, curfews
- Food supply
 - Seasonal (labour) migration
 - Market closures
- Responses
 - Localized
 - Innovation
 - Transdisciplinary: multidimensional, integrated and participatory



14-05-2020 | Latest News , Africa , Health Care in Danger

South Sudan: Tens of thousands of people at-

risk as COVID-19 reaches crowded Juba

displacement camp

Source: FAO • Posted: 28 May 2020 • Originally published: 28 May 2020 • Origin: View original 29

Using innovation to deliver in Somalia despite COVID

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