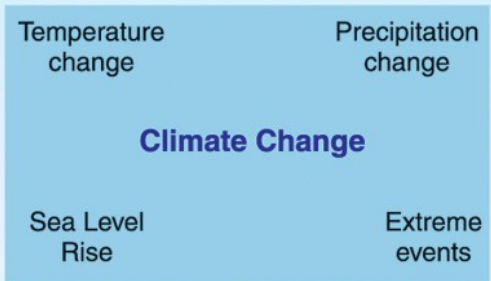




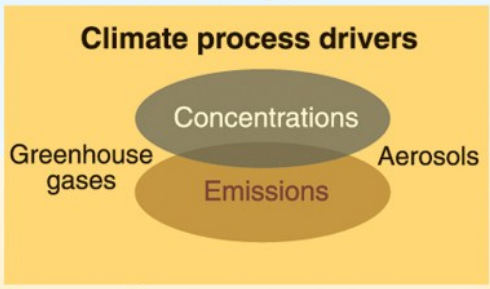
POPULATION DYNAMICS, MOBILITY AND CLIMATE CHANGE

José Miguel Guzmán

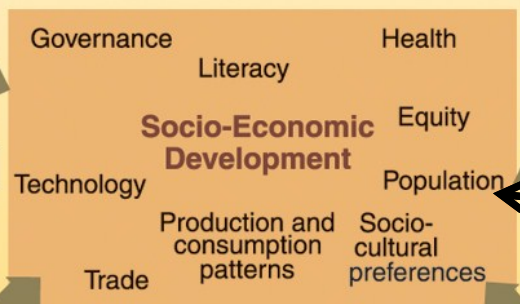
**Chief, Population and Development Branch
United Nations Population Fund**



EARTH SYSTEMS

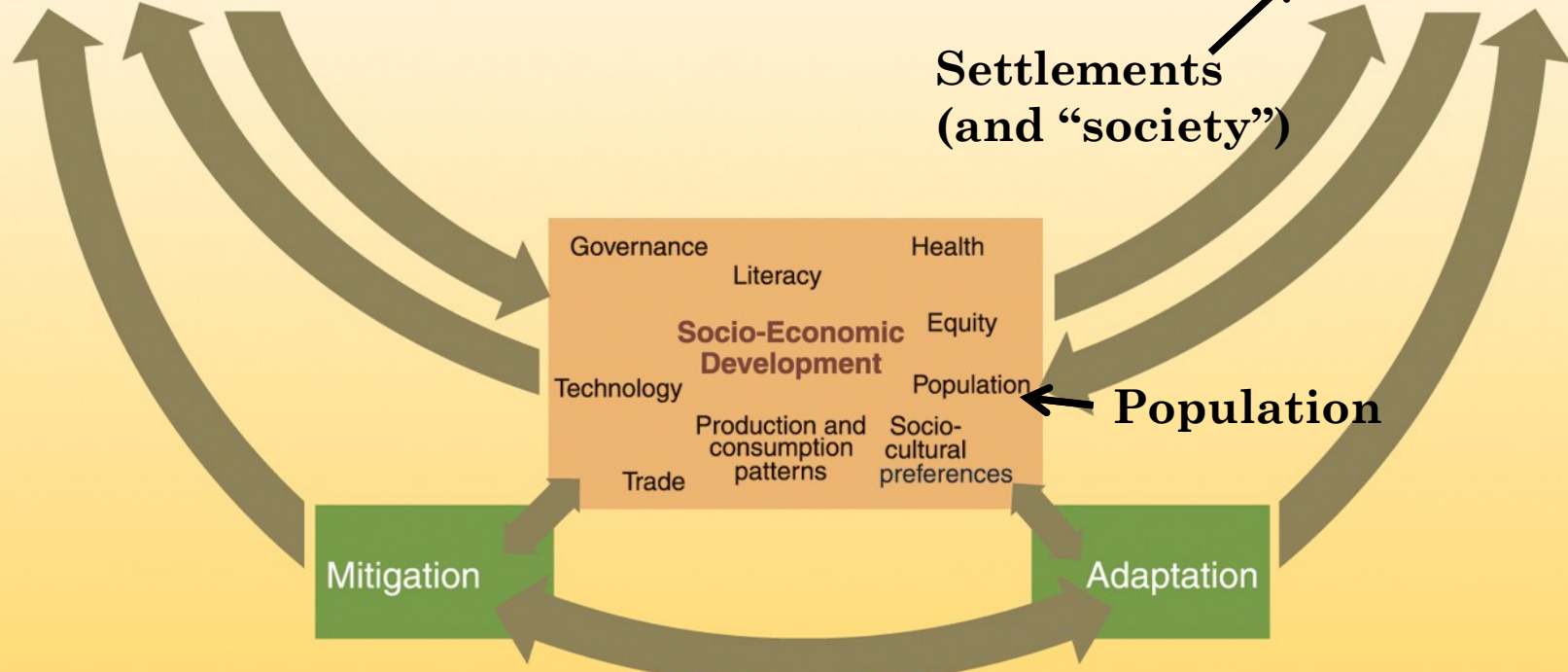


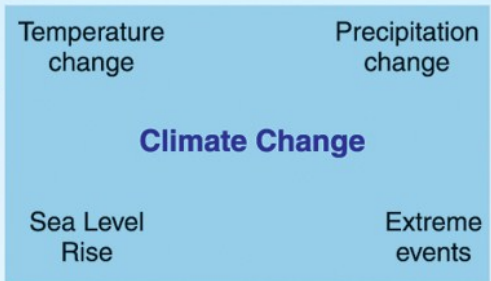
HUMAN SYSTEMS



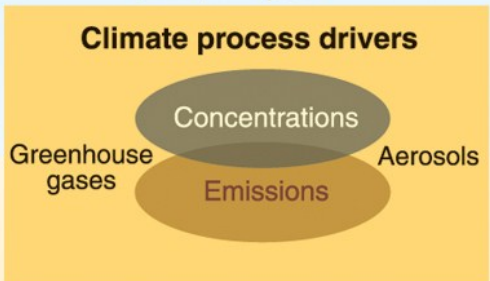
Settlements (and "society")

Population



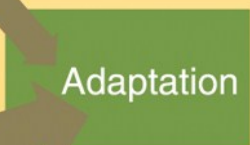


EARTH SYSTEMS



HUMAN SYSTEMS

**Migration? Age structure?
Household composition?
Linking mechanisms?**



CLIMATE CHANGE RELATED DROUGHT VULNERABILITY AND URBANIZATION

Country	Urban %	Urban Growth Rate
Malawi	19.8	5.32
Ethiopia	16.7	3.76
Zimbabwe	38.3	3.43
India	30.0	2.38
Mozambique	38.4	4.02
Niger	17.1	4.70
Mauritania	41.4	2.86
Eritrea	21.6	5.21
Sudan	40.1	3.74
Chad	27.6	4.62
Kenya	22.2	4.22
Iran	70.8	1.90

Drought Risk from World Bank. Urban projections from UN Population Division.



CLIMATE CHANGE RELATED FLOOD VULNERABILITY AND URBANIZATION

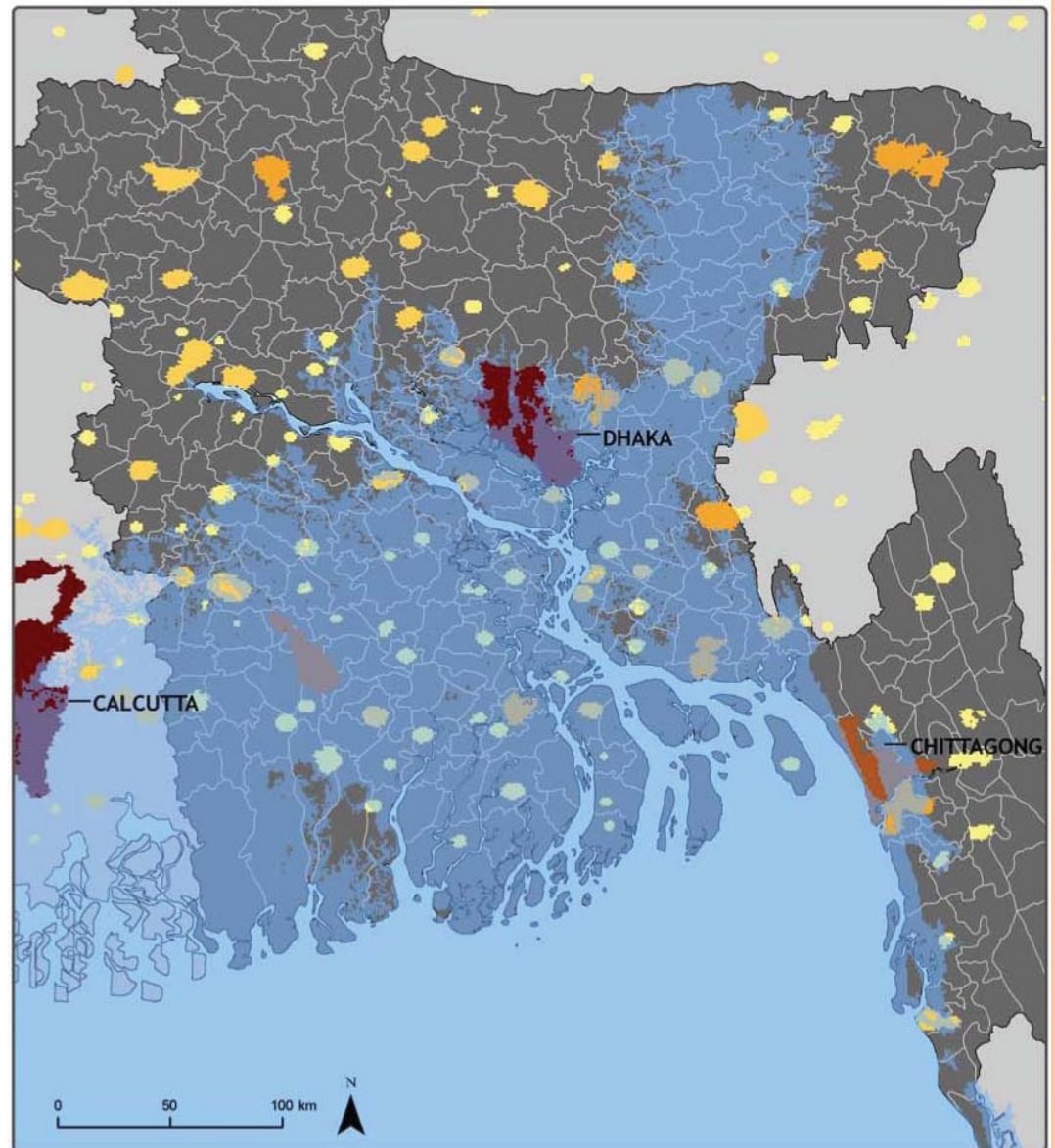
Country	Urban %	Urban Growth Rate
Bangladesh	28.1	3.13
China	47.0	2.29
India	30.0	2.38
Cambodia	20.1	3.24
Mozambique	38.4	4.02
Lao PDR	33.2	4.92
Pakistan	35.9	3.10
Sri Lanka	14.3	1.06
Thailand	34.0	1.77
Viet Nam	30.4	3.03
Benin	42.0	4.01
Rwanda	18.9	4.37

Flood Risk from World Bank. Urban projections from UN Population Division.



LOW ELEVATION COASTAL ZONE IN BANGLADESH

Source: Balk *et al.* 2009, CEISIN 2008.



Urban Extents, by Population Size, 2000



NOTE: LECZ layer has been made semi-transparent to show the underlying layers. Thus the blue color is not uniform.



THANK YOU!

José Miguel Guzmán
joguzman@unfpa.org