The Structure of the WorldRiskIndex

Exposure — Number and share of the population regarding

- Strong
- Severe
- Extreme

Intensity Levels | Earthquakes | Tsunamis | Cyclones | Coastal Floodings | Riverine Floodings | Droughts | Sea Level Rise

WorldRiskIndex = √(Exposure × Vulnerability)

Vulnerability — is composed of

Susceptibility

Socio-Economic Development

- Life expectancy at birth
- Life expectancy at age 70
- Mean years of schooling
- School life expectancy from primary to tertiary education
- Gross national income per capita (USD PPP)
- Gross national savings per capita (USD PPP)
- Net volume of official development assistance received per capita (USD PPP)
- Net volume of personal remittances received per capita (USD PPP)

Societal Disparities

- Income gini coefficient
- Income top-bottom decile ratio
- Young age dependency
- Old age dependency
- Gender disparity in adolescent fertility
- Gender disparity of mean years of schooling
- Gender disparity of school life expectancy from primary to tertiary education
- Gender disparity of labor force participation

Socio-Economic Deprivation

- Lack of access to at least basic drinking water services (percent)
- Lack of access to at least basic sanitation services (percent)
- Fixed broadband subscriptions per 1,000 persons
- Mobile cellular subscriptions per 1,000 persons
- Lack of access to electricity (percent)
- Lack of access to clean cooking fuels (percent)
- Prevalence of undernourishment
- Average dietary energy supply adequacy

Vulnerable Populations due to Violence, Conflicts and Disasters

- Refugees, asylum seekers, returned refugees and other displaced (total and percent)
- Internally displaced persons due to natural disasters (total and percent)
- Internally displaced persons due to violence and conflict (total and percent)

Vulnerable Populations due to Diseases and Epidemics

- Prevalence of HIV and AIDS
- Prevalence of tuberculosis and respiratory diseases
- Prevalence of neglegted tropical diseases and malaria
- Prevalence of other infectious diseases

Lack of Coping Capacities

Recent Societal Shocks

- Population affected by disasters in the last 5 years (total and percent)
- Population killed in conflicts in the last 5 years (total and percent)

State and Government

- Control of corruption
- Rule of law
- Government effectiveness
- Political stability and abscence of violence and terror

Health Care Capacities

- Medical doctors and practitioners per 1,000 persons
- Nursing and midwifery personnel per 1,000 persons
- Maternal mortality rate
- U5 child mortality rate
- Hospital beds per 1,000 persons
- Current health expenditures per capita (USD PPP)

Infrastructure*

Social Networks*

Material Protection*

Lack of Adaptive Capacities

Educaction

- Government expenditure on primary and secondary education per capita (USD PPP)
- Number of teachers in primary and secondary education per 1,000 students
- Gross enrollment rate in primary and secondary education

Research

- Government expenditure on research and development per capita
- Personnel in research and development per 1,000 persons
- Gross enrollment rate in tertiary education

Long-Term Health and Deprivation Effects

- Years lost due to unsafe water and sanitation sources
- Years lost due to particulate matter air pollution
- Years lost due to child and maternal malnutrition
- Children without third dtp dosage (percent)
- Children without third polio dosage (percent)
- Children without second measles dosage (percent)

Investment Capacities

- Gross fixed capital formation per capita (USD PPP)
- General consumer price instability (rate)

Disaster Prepardness*

Climate Change Mitigation*

* These dimensions are not currently considered due to insufficient availability of indicators.

The unweighted geometric mean is used to aggregate the indicator values at all levels of the WorldRiskIndex.

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