Aminul
Aminul Islam

BACKGROUND
- MS in Geographical Sciences (University of Maryland)
- MS & BS in Urban Planning (BUET, Khulna University, Bangladesh)

WORK STATIONS
- World Bank, Washington DC (2012 - present)
- International Water Management Institute (IWMI), Colombo, Sri Lanka
- Institute of Water Modelling (IWM), Dhaka, Bangladesh

EXPERTISE
- GIS and Remote Sensing

INTEREST
- Spatial Analysis
- Data Visualization
DATA VISUALIZATION
Seasonal Changes of Vegetation Growth in Africa
AFRICA
100 YEARS OF MONTHLY CLIMATE

Months in columns
Years in rows
100 YEARS OF MONTHLY CLIMATE

Monthly Average Temperature and Precipitation Time Series (1901-2009)

Central Asia

Graphical representation by The World Bank

Data source: Climate Research Unit (CRU)
Global Transboundary Basins Facts

Population (per sq. km.)
- < 1
- 1 - 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000
- > 100,000

Total Pop. (2012)
- 54 Million
- 732 Million
- 201 Million
- 48 Million
- 67 Million
- 115 Million
- 238 Million
- 11 Million
- 60 Million

GDP (in thousand US dollars)
- < 1
- 1 - 9
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- > 10,000

Total GDP (2014)
- 38 Billion
- 395 Billion
- 134 Billion
- 20 Billion
- 46 Billion
- 42 Billion
- 168 Billion
- 19 Billion
- 83 Billion

Annual Precipitation (mm)
- < 50
- 51 - 100
- 101 - 200
- 201 - 500
- 501 - 1,000
- 1,001 - 2,000
- > 2,000

- 318 mm
- 1,215 mm
- 424 mm
- 358 mm
- 1,531 mm
- 662 mm
- 628 mm
- 94 mm
- 318 mm

Annual Temperature (°C)
- < 9
- 9 - 12
- 12 - 18
- 18 - 27
- 27 - 32
- 32 - 37
- > 37

- 9 °C
- 18 °C
- 12 °C
- 27 °C
- 21 °C
- 27 °C
- 25 °C
- 3 °C
- 18 °C

Land Use/Land Cover
- Bare
- Cropland
- Forest
- Grassland and meadows
- Urban
- Wetlands
- Shrubs
- Herbs

Total Cropland (2015)
- 18 Mil Ha
- 71 Mil Ha
- 22 Mil Ha
- 30 Mil Ha
- 27 Mil Ha
- 50 Mil Ha
- 57 Mil Ha
- 4 Mil Ha
- 27 Mil Ha

Population: Oak Ridge National Laboratory (ORNL); GDP: OECD; The World Bank; Landcover: ESA; Climate Data: World Clim

Note: Total and average figures are derived using GIS processing.
### Africa Transboundary Basins Facts

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### Saudi Arabia Regional Facts

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**Data Sources:**
- Population: UN, 2012, World Pop. Database
- GDP: World Bank
- Temperature: WorldClimate
- Crop Area: Ministry of Agriculture and Water
URBAN DEVELOPMENT FACTS OF SOUTH ASIA

Development Indicators: The Story of Progress in 2015

Human habitats including cities and towns are automatic services and fail Asia by leveraging agglomeration economies and providing the ground for specialization of labor and rose town growth. South Asia is known for high density population and emerging economic and urban development. Despite the economic growth and the expansion of cities and towns, the urban living conditions have been short of acceptable standards. Poverty at national and urban level still remains as a major challenge. Although electricity coverage has increased in most of the countries, access to safe drinking water, sanitation facilities, and clean solid fuel are the key areas of improvement for better urban living.
TOPOGRAPHIC 3D HILLSHADE
(simples form of virtual 3D)
SOCIOECONOMIC 3D
CAMBODIA