

Investigating the Effects of Socio-Economic Development and Population on a Country's Climate Protection

Performance

By: Poorvi N Ashok

## Experts ring alarm bell

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Carbon Dioxide Heats the Earth

ton, has found conclusive mathematical

evidence that the earth's temperature is

being warmed by the increased amount of

carbon dioxide present in the air. Smoke

which is also found in the breath

stacks emit huge volumes of

R. E. O. HULBURT, physicist of the

naval research laboratory, Washing-

### Earth hottest now, and getting hotter

THE Earth is on track to be the hottest it has been at any time in the past 11,000 years. a period spanning the history of human civilisation - a

Now we know that it is warmer than most of the past 11.300 years.

This is of particular interest because (it) spans entire period of human

The data shows temperawe cooled by 0.8C over the est 5000 years, but have en again in the past 100 ars, particularly in the ethem hemisphere, where Climate changeric

imate models project erage global temperares will rise 1.1C-6.3C by e end of the century, dending on the level of cara dioxide emissions from man activities.

What is most troubling is at this warming will be sigloundly greater



## LET'S TALK TRASH!





may Charles Shares Alchert Plan 2012-2017

THE TRACE OF INDIA

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Grim IPCC Warning: Climate Extremes To Go Up & Up

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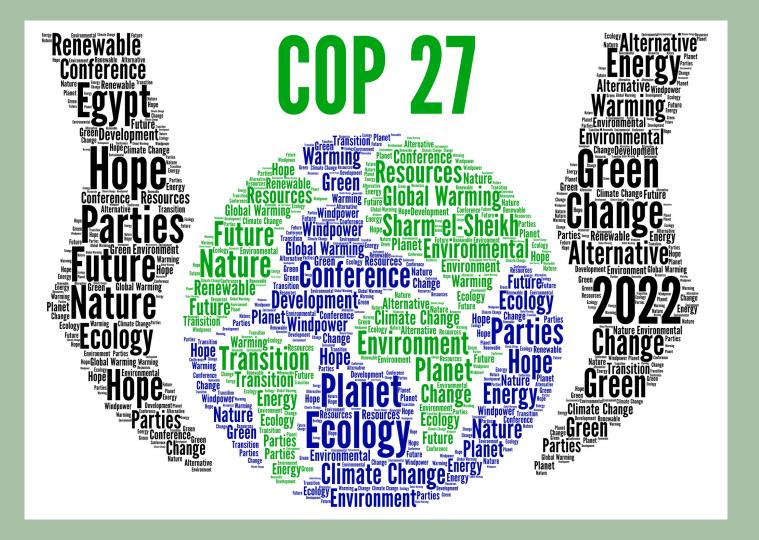
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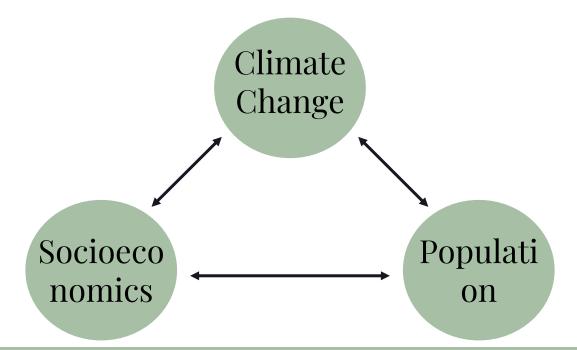
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## Climate Change, Socioeconomics and Population are intertwined



# Effect of socioeconomics and population on Developed Countries

High Education Levels

High National Income per Capita

Low Unemployment

Low Population Growth

GOOD CLIMATE MITIGATION STRATEGIES

## Hypothesis

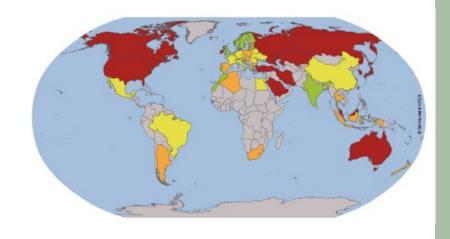
Countries possessing characteristics attributed to 'developed' countries will have good climate protection performance

## **Methodology – Backwards Model Selection**

**Explanatory Variable** 

#### Climate Change Performance Index (CCPI)

- Measure of a country's climate performance
- Measures greenhouse gas emissions, renewable energy use, conventional energy use and climate policy



## **Methodology – Backwards Model Selection**

#### Response Variables

#### Socioeconomic Variables

- Ratio of School Enrolment
- Gender Parity Index of School Enrolment
- Digital technology usage
- Labour Participation Rate
- Unemployment
- GDP per Capita
- GDP Growth

#### Population Variables

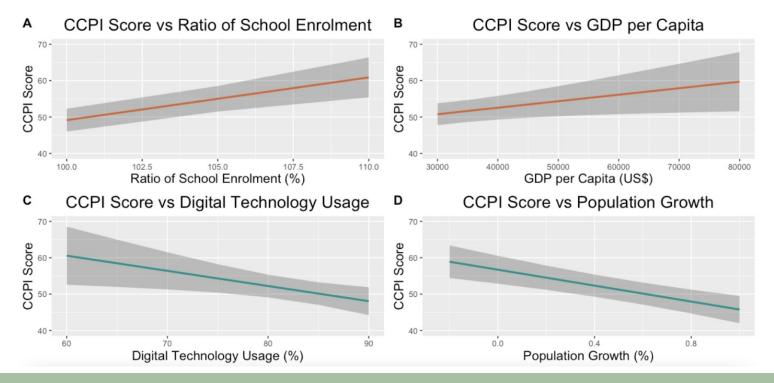
- Life Expectancy
- Sex Ratio
- Population Growth
- Population Density

## Results

Countries with **high** CCPI scores have:

- high ratio of School Enrolment
- high GDP per capita
- low digital technology usage
- low population growth

## **Results**



## **Discussion**

- High rates of School Enrolment, high GDP per capita and low population growth are consistent with the patterns of a 'developed' country.
- Low digital technology usage is contrary to our hypothesis of 'developed' countries
  - Could be due to usage of sustainable technologies which doesn't reflect in emissions or energy usage

## **Conclusion**

- Increasing School Enrolment and GDP per Capita should be in focus in climate mitigation plans.
- Switching towards more sustainable technologies should be another focus in climate mitigation plans

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