

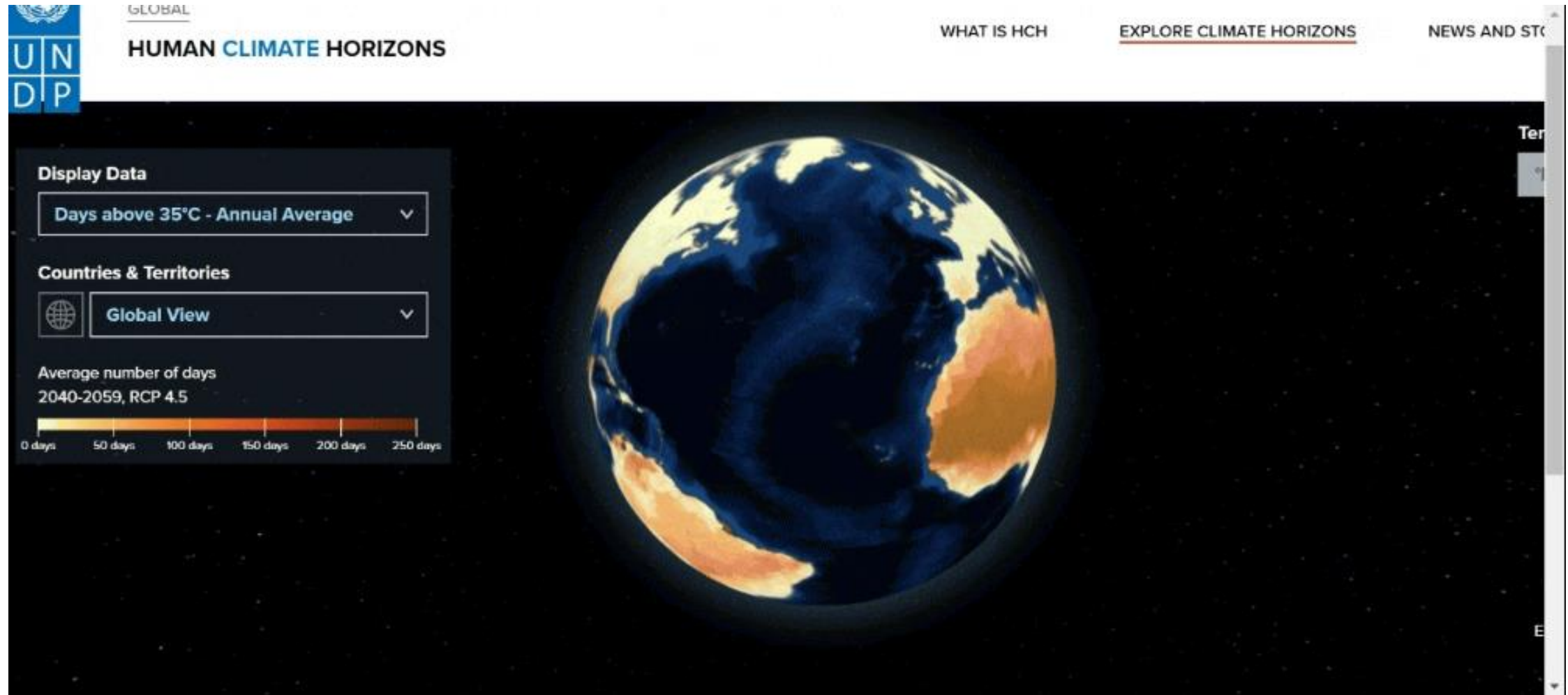
**Human  
Development  
Report  
Office**



# **INNOVATIONS FOR SDG-ACTION**

**Heriberto Tapia  
Human Development Report Office**

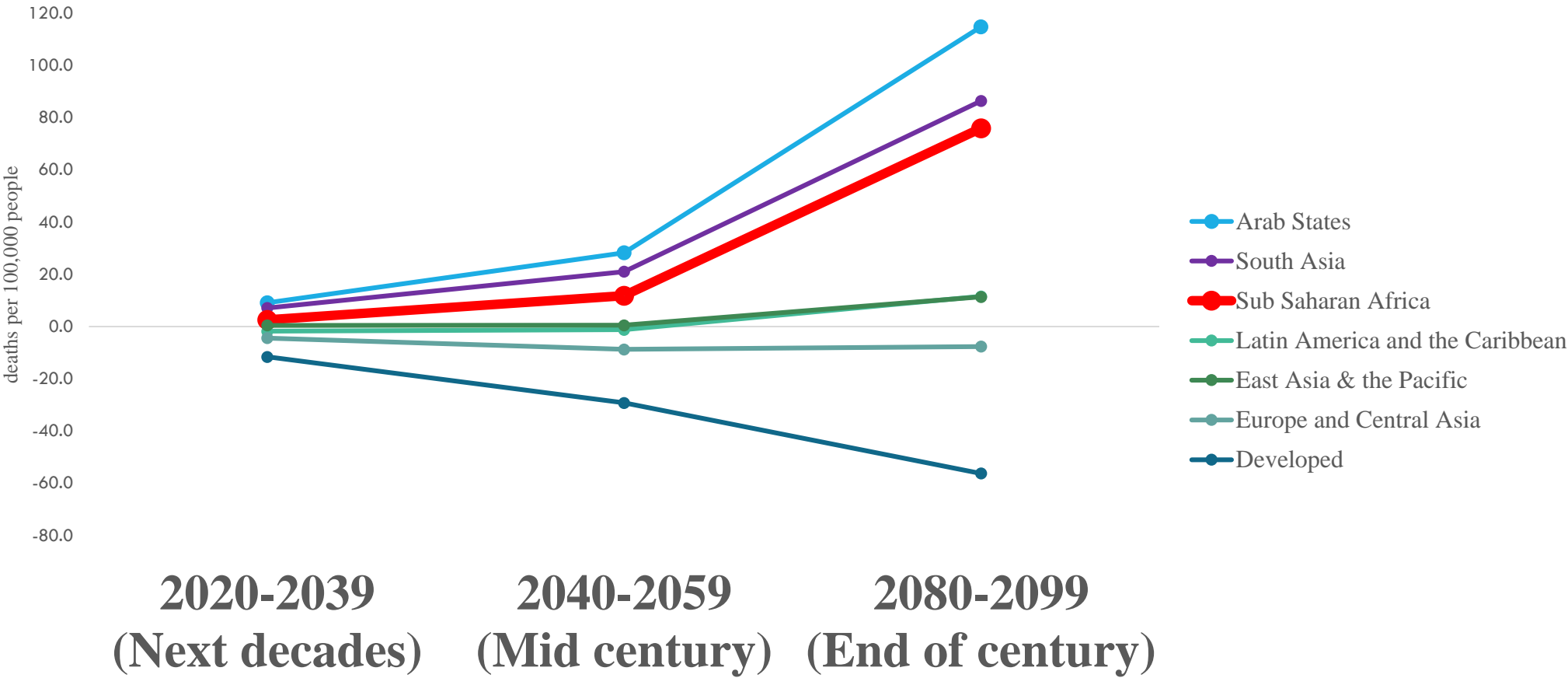
# THE ANTHROPOCENE CONTEXT



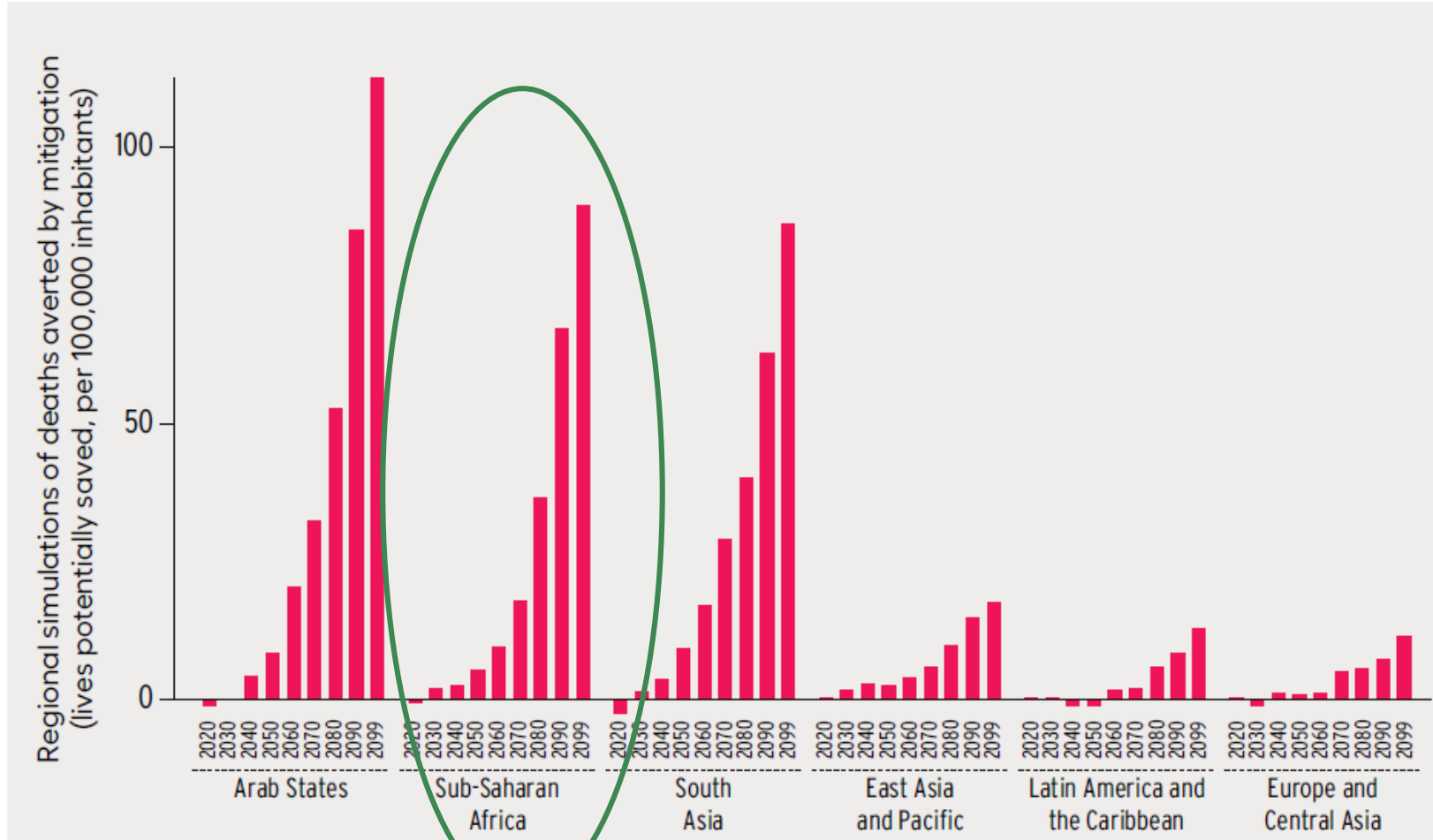
[horizons.hdr.undp.org](https://horizons.hdr.undp.org)

# SSA COULD BE ONE OF THE MOST AFFECTED REGION FOR CLIMATE CHANGE

Change in death rate due to global warming  
(Regional averages, very high emissions scenario)



# THE BENEFITS OF MITIGATION...



**Note:** Comparisons are between Representative Concentration Pathways 4.5 and 8.5. Aggregates are weighted by population.

**Source:** Human Development Report Office based on Carleton and others (2020).

**Sub-Saharan Africa** is one the regions with the largest expected benefits of **global collective action** -- in terms of the potential to save lives.

# IN UGANDA, SIGNIFICANT WITHIN COUNTRY INEQUALITIES



GLOBAL

HUMAN CLIMATE HORIZONS

WHAT IS HCH

EXPLORE CLIMATE HORIZONS

NEWS AND STORIES

HOME / COUNTRY INSIGHTS

< GLOBAL VIEW

## Uganda Show borders

As human activity pushes the climate away from its current state, the weather conditions we experience are changing, resulting in higher year-round temperatures, more extremely hot days, and fewer days below freezing. This warming influences human development and all spheres of our lives, including our health, livelihoods, and ability to work.

Explore relative exposure to climate change in Uganda over time, and see the varying effects across regions and projected impacts for major global cities. Next, study the cards to understand projected change over time. And see the Emissions Scenario menu to view the prospects of our mitigation actions to reduce greenhouse gas emissions relative to higher risk outcomes.

Countries & Territories

Uganda

Time horizon

2080-2099 (end of century)

Emissions scenario ⓘ

High (RCP 8.5)

Temperature

°F

°C

Average Annual Temperature ⓘ

Median projection: 27.3°C

Map: Uganda | 2080-2099 (end of century) | High emissions scenario (RCP 8.5)





# TOWARDS HYPER LOCAL ESTIMATES OF HUMAN DEVELOPMENT

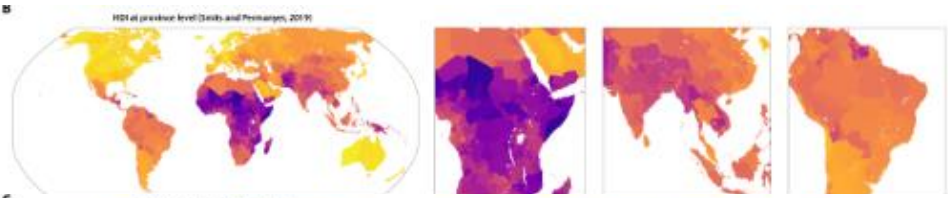
Using Machine Learning and Satellite Imagery... we can go from

Country



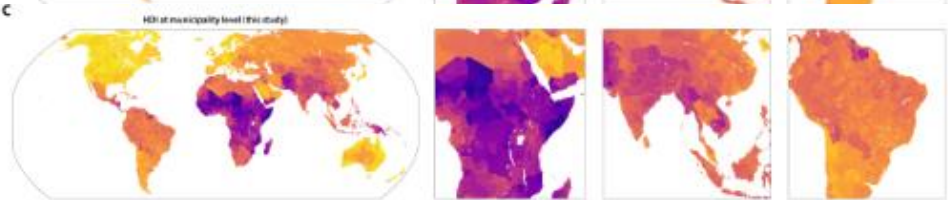
N=191

Province



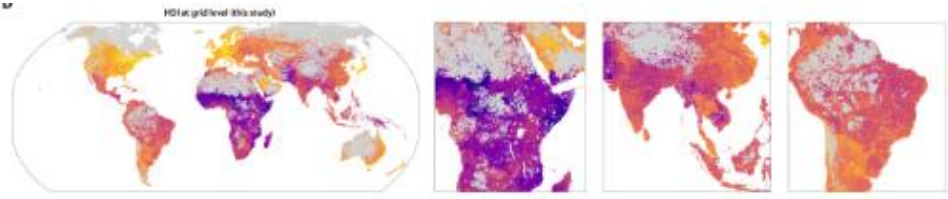
N=1,765

Municipality



N=61,591

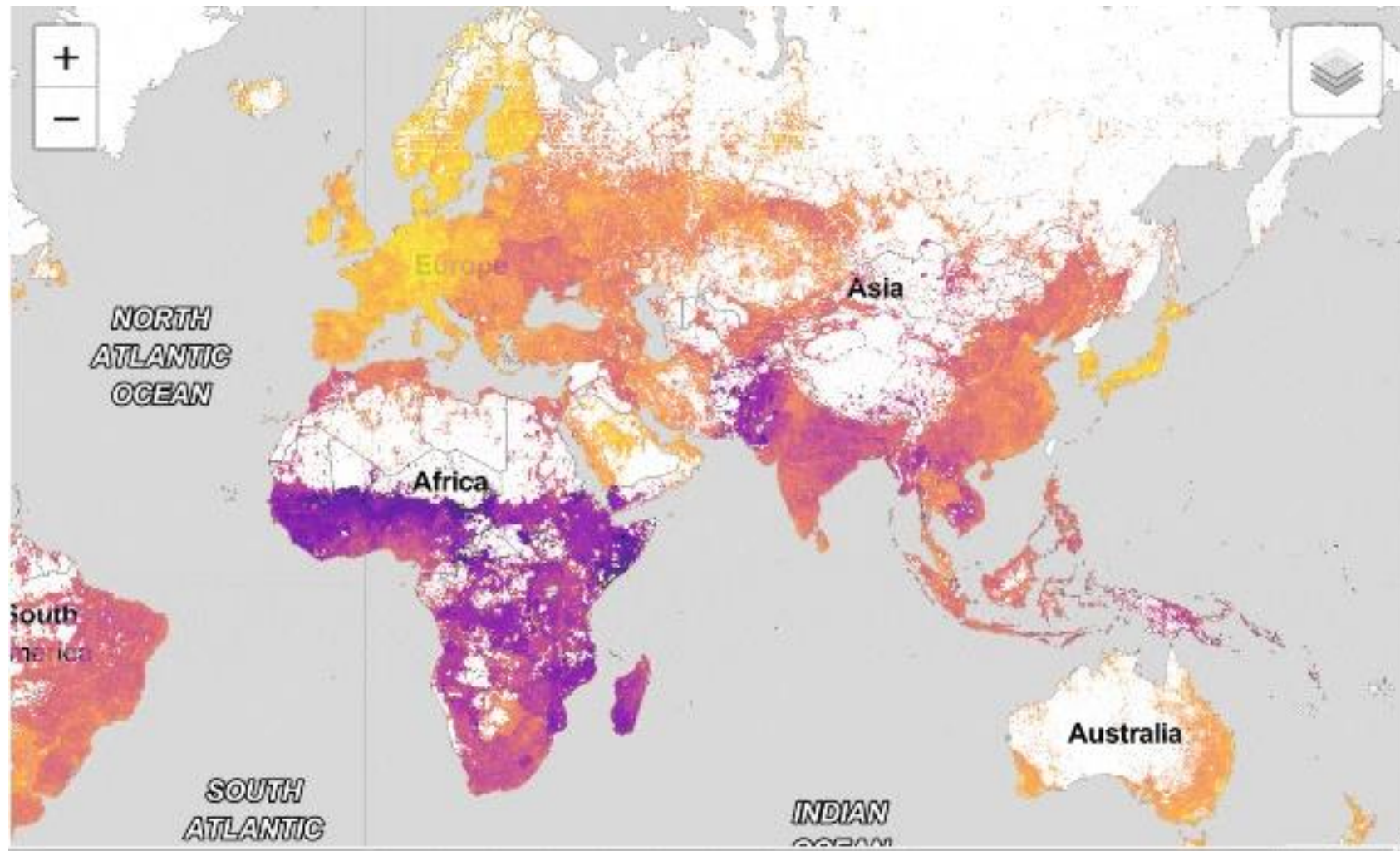
0.1 x 0.1 degrees



N=806,361



# HYPER-LOCAL ESTIMATES OF HDI USING SATELLITE IMAGES AND MACHINE LEARNING





# Human Development Report Office

 [www.hdr.undp.org](http://www.hdr.undp.org)

 [facebook.com/HumanDevelopmentReport](https://facebook.com/HumanDevelopmentReport)

 [twitter.com/hdrundp](https://twitter.com/hdrundp)