### Capstone Two: Project Ideas & Proposal

# Climate damage functions for estimating the economic impacts of climate change in the United States

Review sectional impact modeling data (climate damage in millions 2015$) on infrastructure, ecosystem, water resources, human health in 7 US regions high/low-end scenario (30cm to 250 cm Global See level rise in 2100) for 2030 to 2090

https://pasteur.epa.gov/uploads/10.23719/1518524/REEP\_ReducedFormData\_20180814.xlsx

1. Merchandise exports by product group – annual (Million US dollar)

Dataset contains international merchandise trade statistics

(World Trade Organization <https://www.wto.org/english/res_e/statis_e/trade_datasets_e.htm>) by countries and Products/sectors from 2013 to 2019.

I would like to do some analysis to compare the same product by countries within this timeline. I will review the world advances economy countries: US, Canada, some western European countries, China and Japan. I will calculate the ratio of country product to this product global average as well as the % of change from the previous year.

I will also try to make predictions for selected countries/products

<https://data.wto.org/?idSavedQuery=8f10ccd7-fbeb-4d48-aff8-1d1b400943b9>

<https://data.wto.org/?idSavedQuery=a5cf3a0e-a3d4-4f8e-bb41-cb4a638a40aa>

1. Urbanization across the world today

More than half of the world’s population now live in urban areas — increasingly in highly-dense cities.

Based on the datasets provided by UN Department of Economics and Social Affairs (<https://population.un.org/wup/Download/> ) analyze dynamic of world urban and rural population

https://ourworldindata.org/urbanization