Climate Science & Investment Ice Sheets, Sea Level Rise and Coastal Property

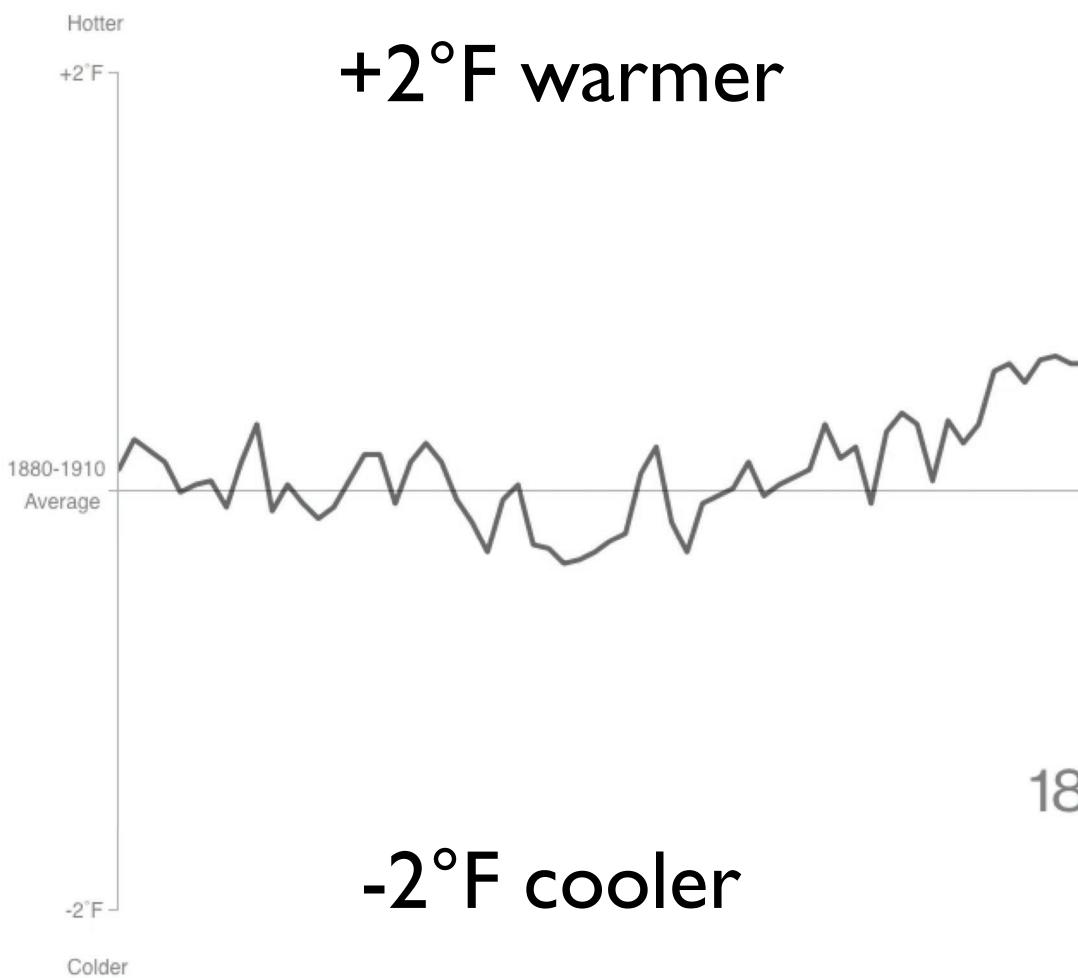


Peter de Menocal

Dean of Science Thomas Alva Edison/ConEd Professor Dept. Earth and Environmental Sciences Director, Center for Climate and Life



Why is climate changing?



2017 Observed 1 MM

This line shows the measured, or "observed," land-ocean temperature

1880-2015



Why this matters

Center for Climate and Life

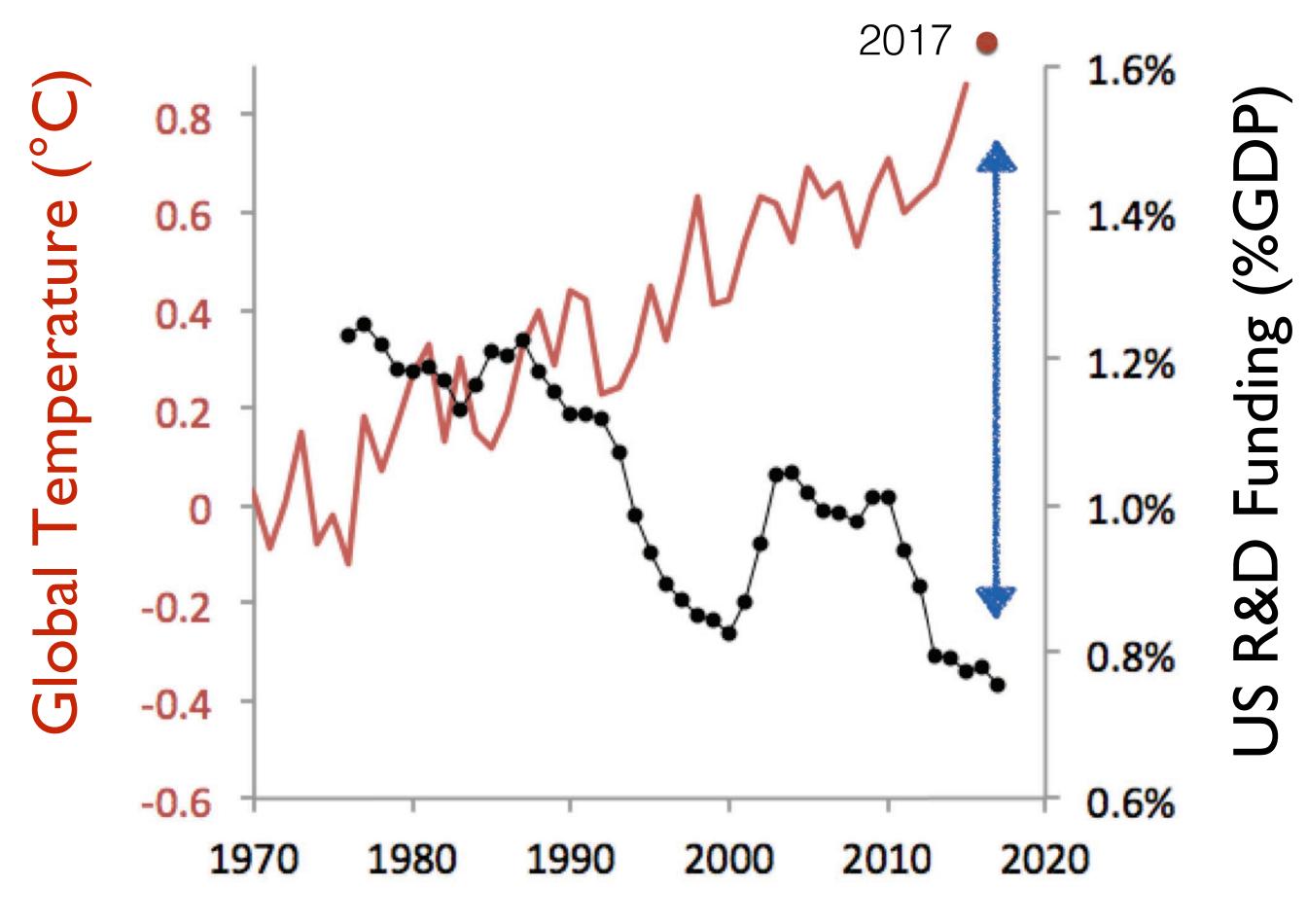
Addressing Global Challenges

Climate impacts life's essentials

Food Water Shelter Energy Health & the economy

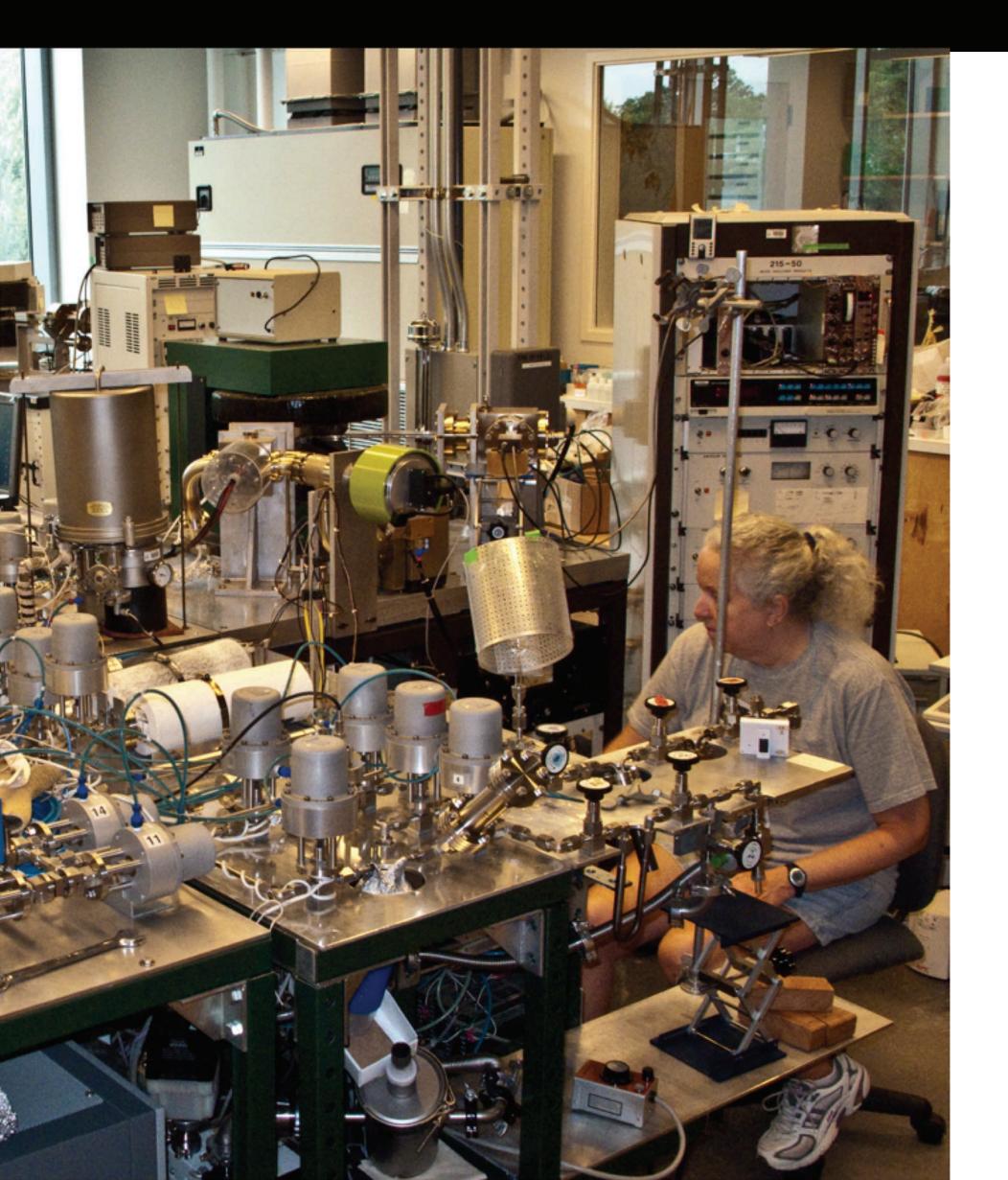


The Challenge – Science Funding Gap



Year

Our Solution



New Science Delivery Model

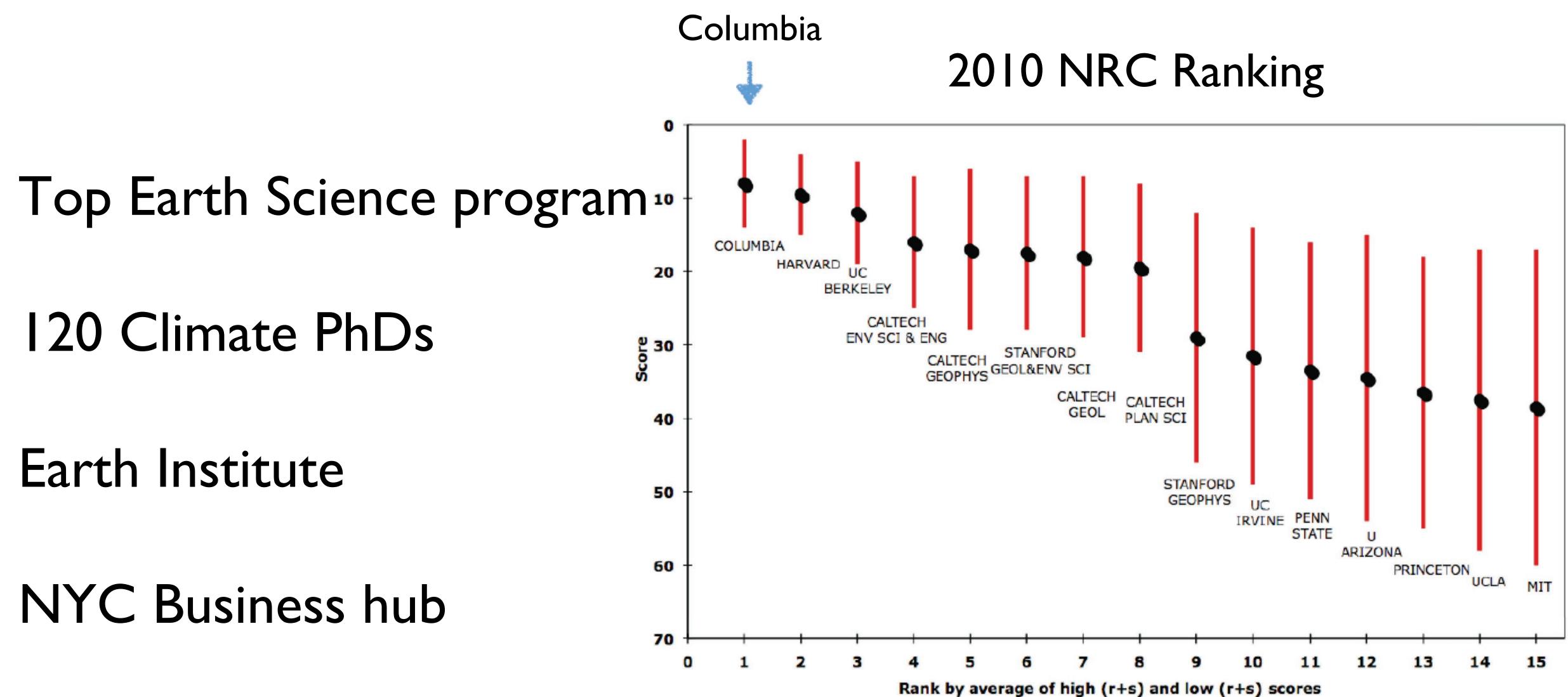
- problems people care about
- places they care about
- timescales they care about

Engage Business & Philanthropy

- Support urgent science
- Put it to work.



Why Columbia ?



Science can inform Business Risk

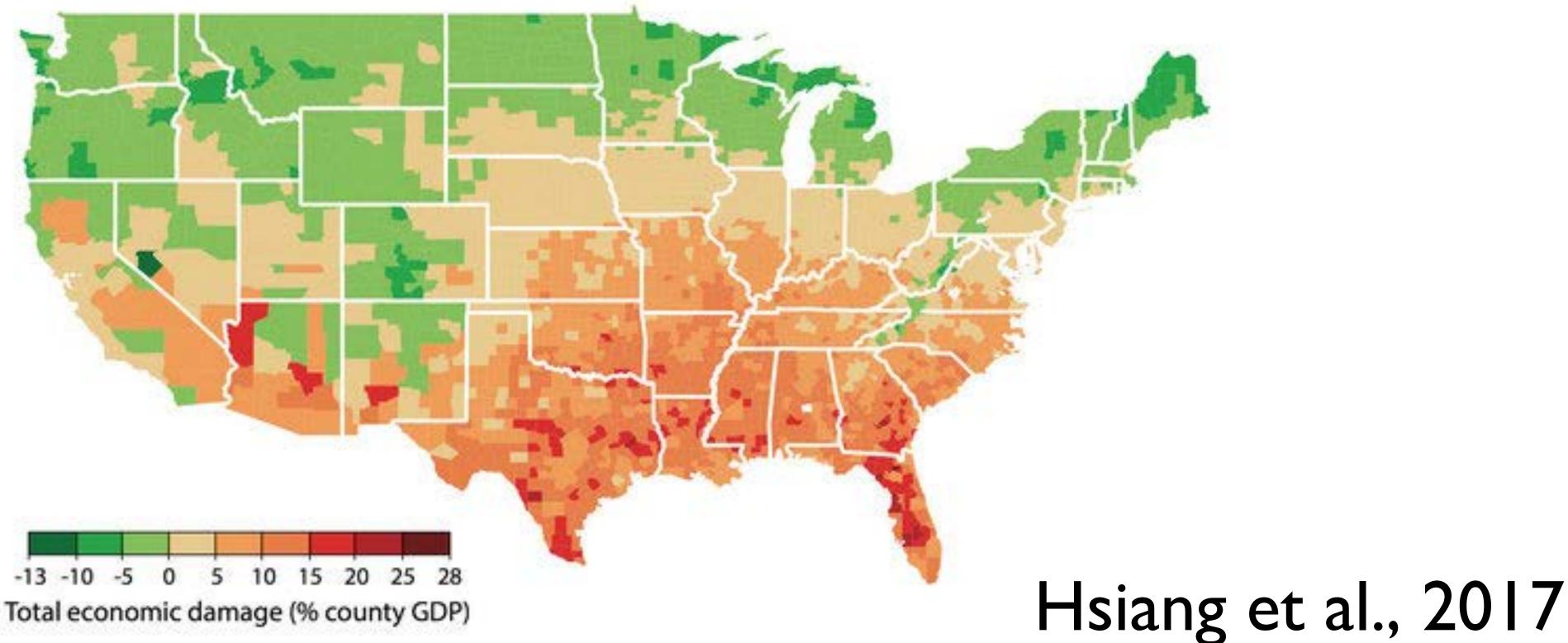


What Business risk?

\$600 billion/yr loss by 2100

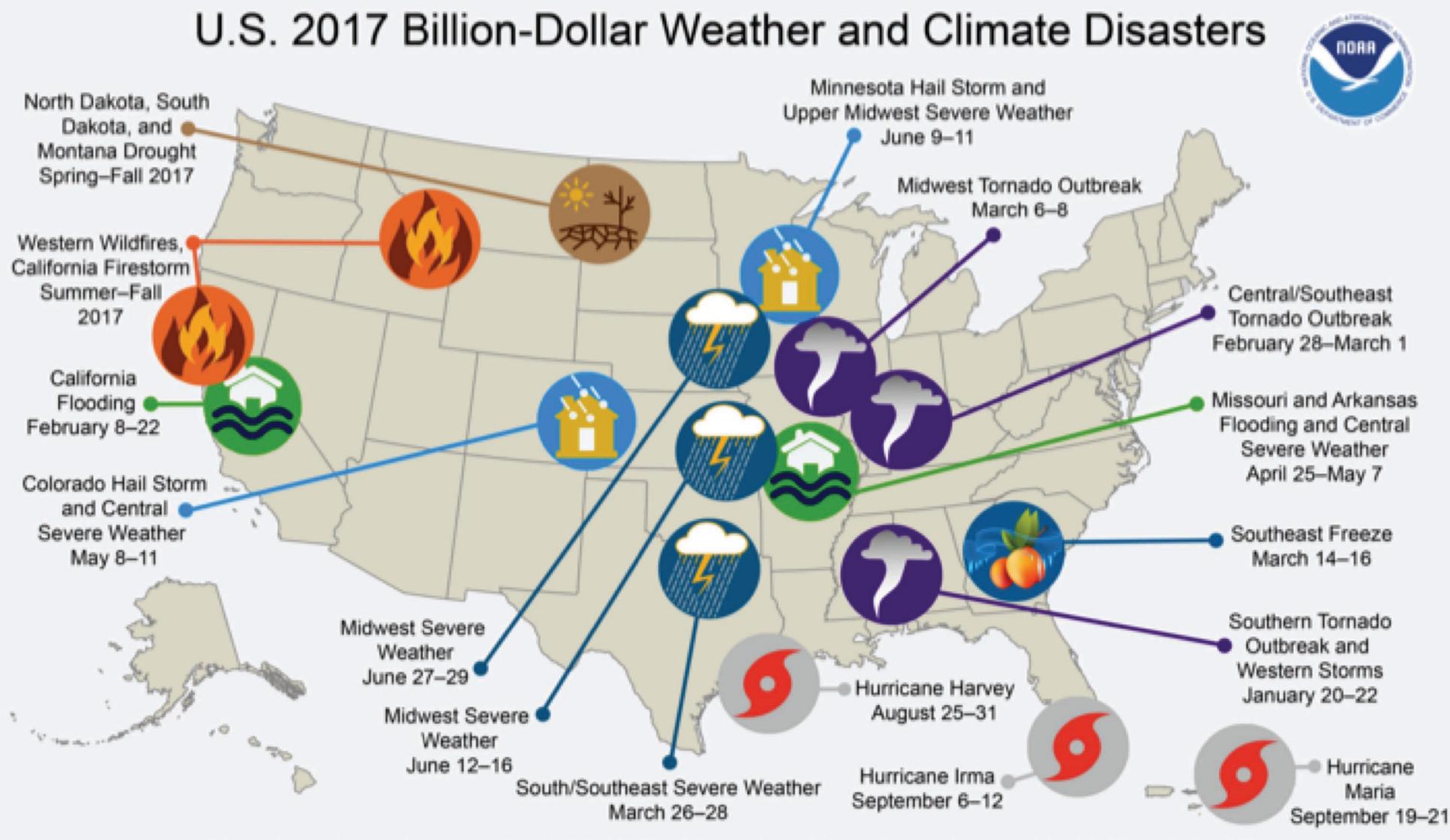
Climate-related Loss

Labor Crime Agriculture Mortality Electricity Property





\$300 billion loss in 2017



This map denotes the approximate location for each of the 16 billion-dollar weather and climate disasters that impacted the United States during 2017.

Miami - low elevation homes discounted

Effect of elevation on price appreciation

Ground less than 5 feet above sea level Less Frequent flooding has damped buyers' enthusiasm. MIAMI Little Miami Beach Haiti Atlantic Ocean Outside of Miami Beach areas with higher elevations have seen values rise.

"Concerns over rising sea levels and floods are beginning to reshape one of the country's largest housing markets, with properties closer to sea level now trading at discounts to those at higher elevations." WSJ, April 20, 2018





Science and Business should work together

opportunities—to build a stronger, more resilient, and sustainable global economy.

Sincerely,

mhyRoomberg

Michael R. Bloombe

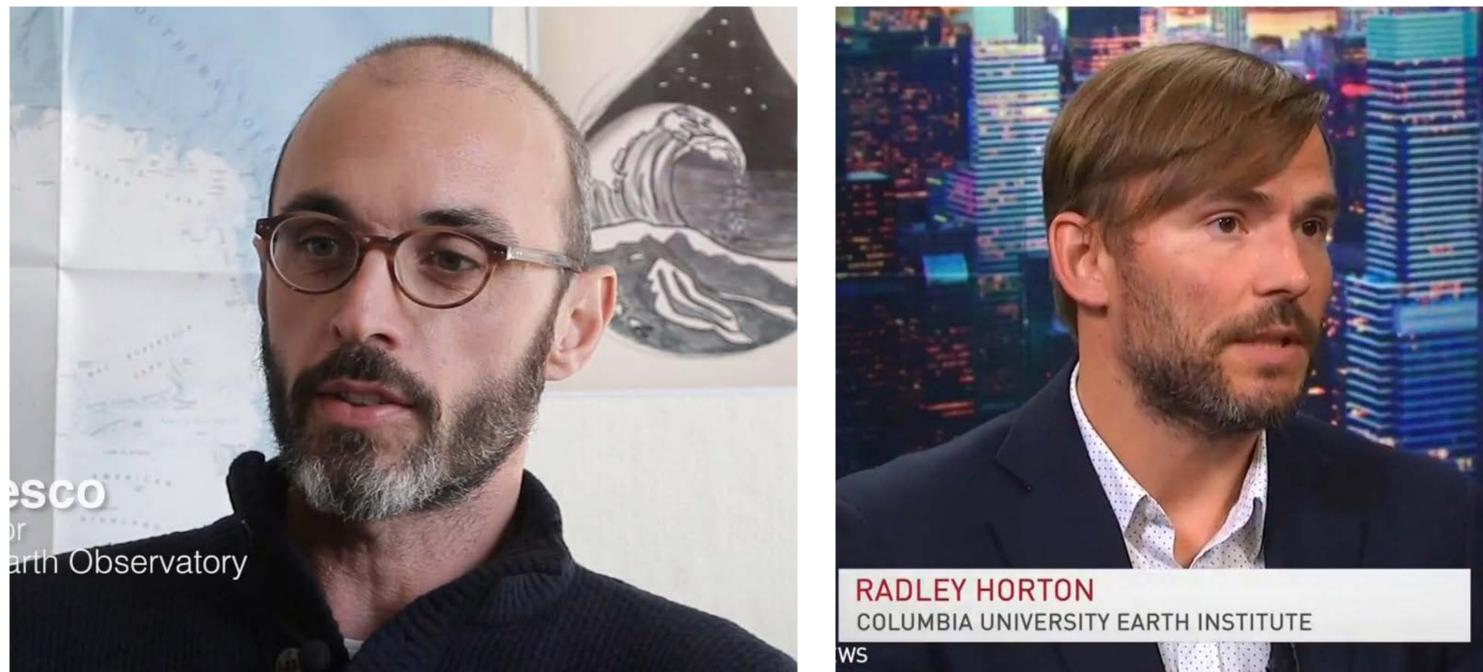
The risk climate change poses to businesses and financial markets is real and already present. It is more important than ever that businesses lead in understanding and responding to these risks—and seizing the

2017 Task Force on Climate-Related Financial Disclosures



Our Scientists





Prof. Robin Bell Glaciologist

Prof. Marco Tedesco Glaciologist

Prof. Radley Horton **Climate Scientist**





evel rise and coastal assets

SHELTER

