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Investing in Family Planning, Education, and Empowering of Women and Girls to Mitigate the Impact of Climate Change: An Exemplary Case of Rwanda.

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Investing in Family Planning, Education, and Empowering of Women and Girls to Mitigate the Impact of Climate Change: An Exemplary Case of Rwanda.

Ma'Adjoa Manu

OHSU-PSU School Of Public Health

Annual Conference

April 4th, 2023

Outline

- Project Drawdown
- Rwanda
- ☐ The Climate Crisis
- Investing in family planning and education
- ☐ The Benefits of the investment

Project Drawdown

- Drawdown is "the point in time when <u>levels of greenhouse gases in</u> the atmosphere stop climbing and start to steadily decline" (Project Drawdown, 2020).
- Project Drawdown solutions <u>use feasible technologies and practices</u> to model scenarios that promote societal change that reduce greenhouse gas emissions between 2020 and 2050.
- For family planning and education, two scenarios were compared.

Project Drawdown

SCENARIO 2

- ☐ Increased investments in and adoption of voluntary family planning and universal education.
- Nearly 70 gigatons of carbon dioxide equivalent emission reduction by 2050.

REFERENCE SCENARIO

- No additional investments and a continuation of current barriers to family planning and education
- The status quo or all other things being equal

Rwanda: Resilience and Mitigation



"The Land of 1000 Hills"
MacDermot, G. E. (2017, March 17)



Lake Kivu Serena Hotel, Rwanda Timbuktu Travel. (n.d.)

Kwita Izina - The Annual Naming Ceremony of The Gentle Vegetarian, Mountain Gorilla









Conservation is Life





Conciatore, J. (2021, October 25) Gorilla Doctors Staff. (2017, September 4) Nakisozi, C. (2019, September 6)

100 days of the Rwanda 1994 Genocide



The genocide claimed the lives of at least 800,000 people, mostly Tutsi.

"Never Again" – Kigali Genocide Memorial



Children
Memorial
dedicated to the children whose lives were ended viciously during the genocide.

"Never Again" – Kigali Genocide Memorial

"A visit to our loved ones to spend time together"





Why Rwanda?

What has it got to do with Climate Change?



During the War

- Rape of women and girls was weaponized.
- Women were disproportionately burden at home.
- Increased morbidity rate.
- ■Women and girls could not go to school or pursue higher education.
- ☐ Difficult for women to be independent.

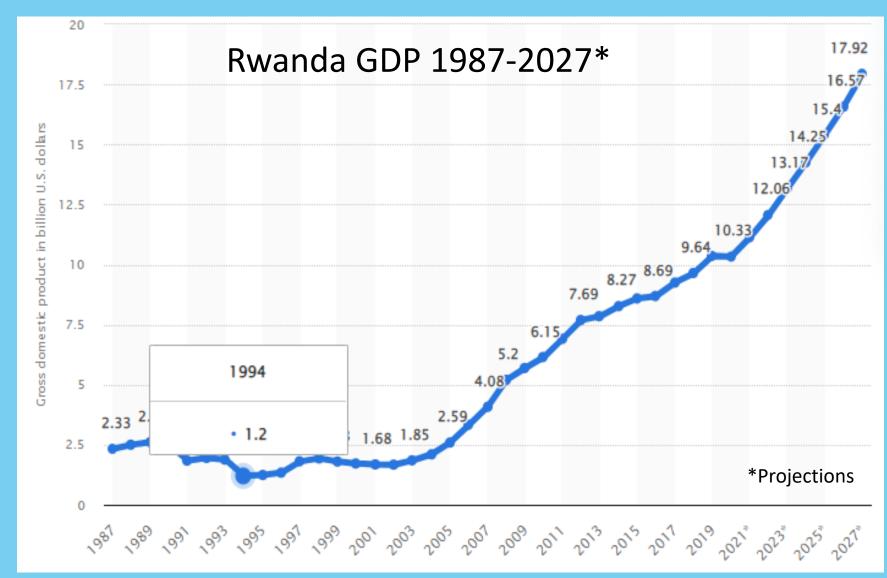
Why Rwanda?

What has it got to do with Climate Change?



After the War

- ☐ The government focused on gender development.
- ☐ Provided opportunities and finance for women's education.
- Currently, 61% of women serve in Rwanda's parliament.
- Rwandan women are leaders in business and in all sectors of society and the economy.



- Rwanda is
 one of the
 best places to
 do business
 in Africa
- Among the top five least corrupt countries in Africa.

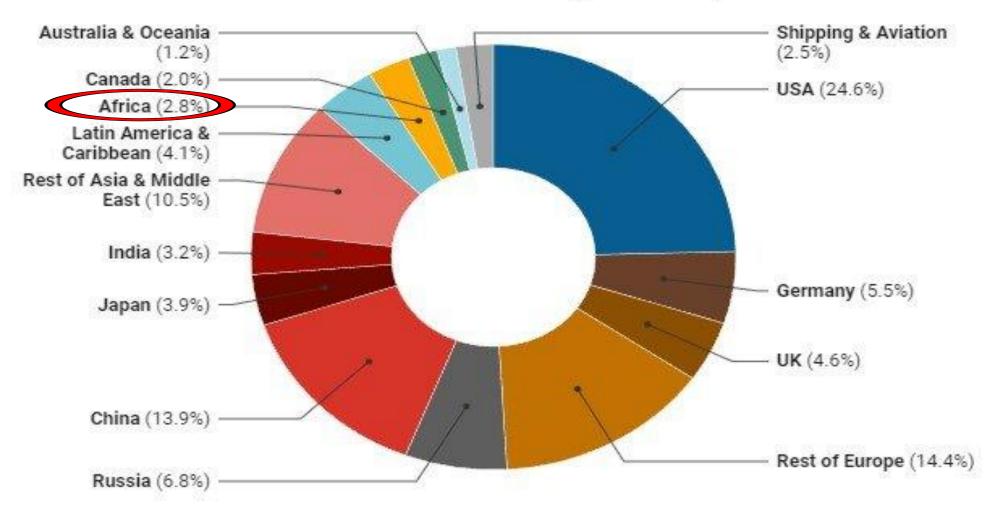
The Climate Crisis



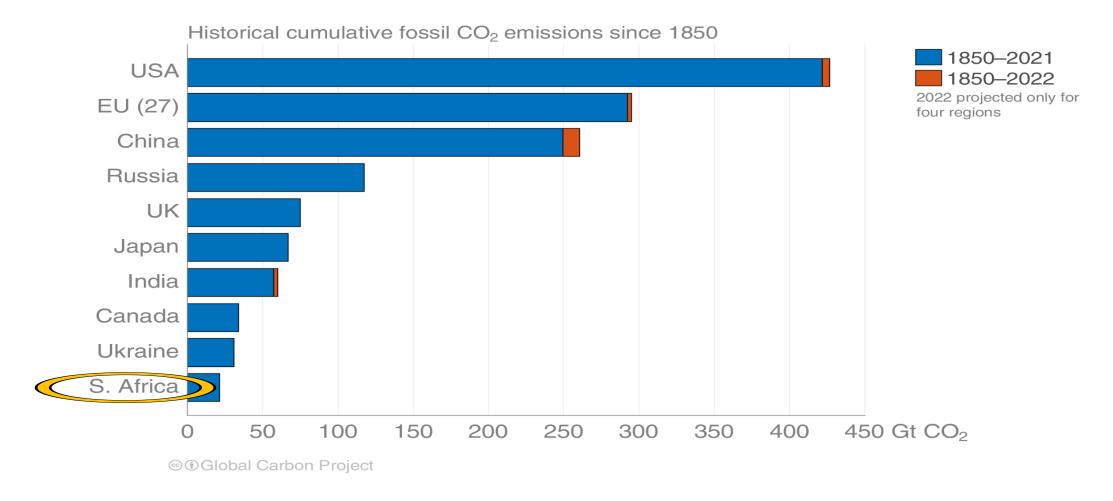
Chu, J. (2017, March 16)

Cumulative carbon dioxide emissions, 1750-2020

Estimated shares of carbon dioxide emissions from energy and industry since 1750.



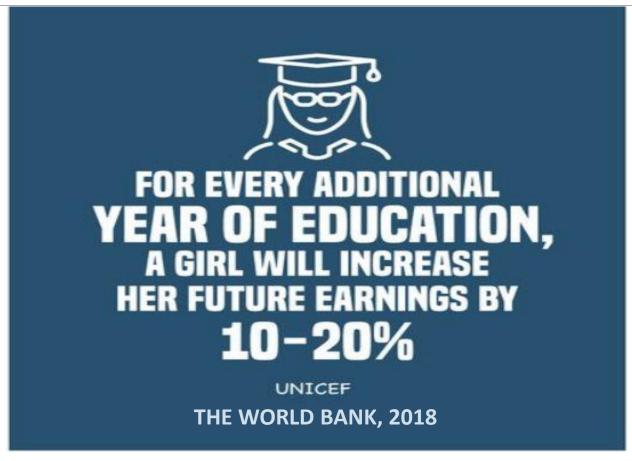
Credit: Chart: The Conversation/CC-BY-ND Source: Our World In Data, Global Carbon Project



Global Carbon Project. Retrieved from https://robbieandrew.github.io/GCB2022/

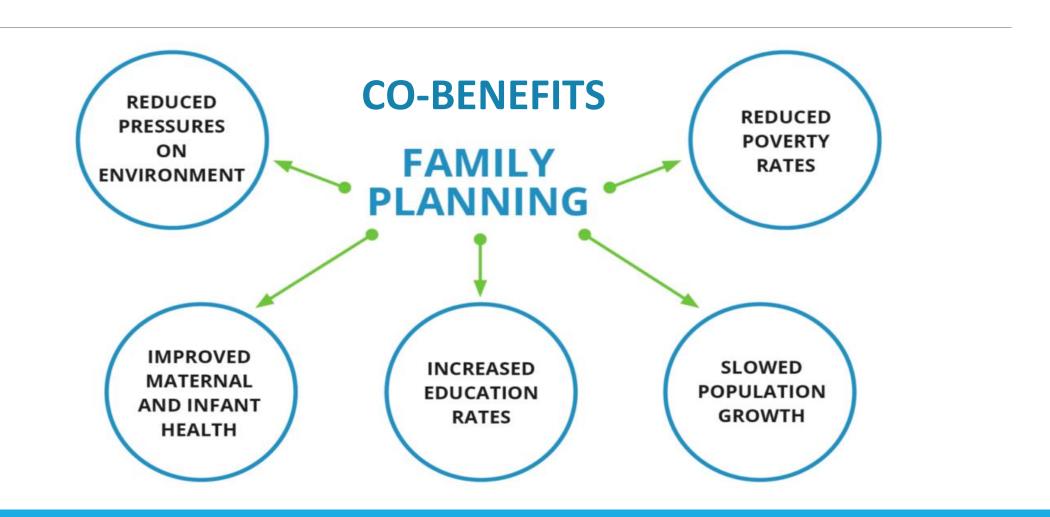


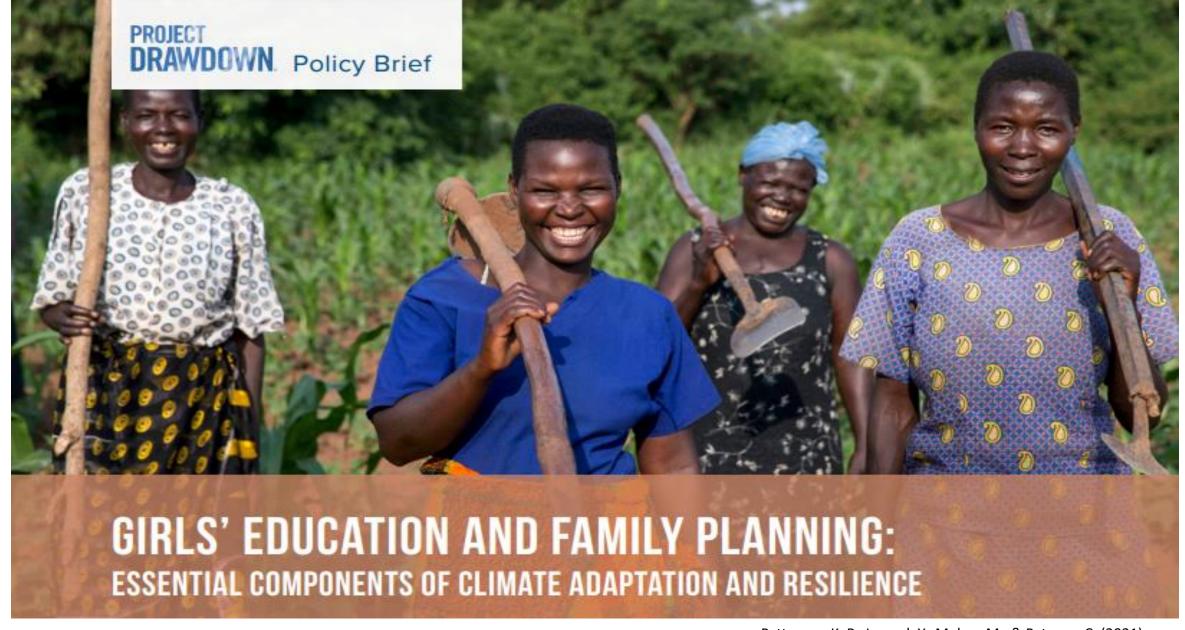
Education and Empowering Women and Girls



Wodon, Q., Montenegro, C., Nguyen, H., & Onagoruwa, A. (2018)

Family Planning & Climate Change





Top 5 solutions to climate change

78.33
Plant-rich diets

57.15Refrigerant management



88.50 Reduced food waste

68.90 tower population growth (family planning & education)

54.45 Tropical forest restoration

**Gigatonnes CO2 Equivalent Reduced/Sequestered (2020–2050), in line with 2°C temperature rise by 2100 Source: Project Drawdown, 2022







Letzter, R., 2019; Jenny Evans/Stringer/Getty Images

References

Atwoli, L., Erhabor, G. E., Gbakima, A. A., Haileamlak, A., Ntumba, J.-M. K., Kigera, J., Laybourn-Langton, L., Mash, B., Muhia, J., Mulaudzi, F. M., Ofori-Adjei, D., Okonofua, F., Rashidian, A., El-Adawy, M., Sidibé, S., Snouber, A., Tumwine, J., Yassien, M. S., Yonga, P., ... Zielinski, C. (2022). COP27 Climate Change Conference — Urgent Action Needed for Africa and the World. *The New England Journal of Medicine*. https://doi.org/10.1056/NEJMP2213503

Chu, J. (2017, March 16). Climate change to worsen drought, diminish corn yields in Africa. MIT News | Massachusetts Institute of Technology. https://news.mit.edu/2017/climate-change-drought-corn-yields-africa-0316

Commonwealth Club. (2021, May 21). *Empowering Women: The Climate Solution We Don't Talk About*. Commonwealth Club. https://www.commonwealthclub.org/events/2020-05-21/empowering-women-climate-solution-we-dont-talk-about

Conciatore, J. (2021, October 25). *Protecting Rwanda's mountain gorillas | African Wildlife Foundation*. African Wildlife Foundation. https://www.awf.org/news/protecting-rwandas-mountain-gorillas

Global Carbon Project. Retrieved from https://robbieandrew.github.io/GCB2022/

Gorilla Doctors Staff. (2017, September 4). New Mountain Gorilla Babies Named in 13th Annual Kwita Izina Ceremony. Gorilla Doctors. https://www.gorilladoctors.org/new-mountain-gorilla-babies-named-13th-annual-kwita-izina-ceremony/

Gorilla Doctors Staff. (2017, September 4). *New Mountain Gorilla Babies Named in 13th Annual Kwita Izina Ceremony*. Gorilla Doctors. https://www.gorilladoctors.org/new-mountain-gorilla-babies-named-13th-annual-kwita-izina-ceremony/

Kigali Genocide Memorial. (n.d.). Kigali Genocide Memorial – A place for remembrance and learning. Retrieved November 12, 2022, from https://kgm.rw/

Letzter, R. (2019, September 26). Are We Really Running Out of Time to Stop Climate Change? Livescience.Com. https://www.livescience.com/12-years-to-stop-climate-change.html

Limb, L. (2022, November 1). Which European leaders are attending COP27? The influential politicians heading to Egypt. Euronews. https://www.euronews.com/green/2022/11/01/which-european-leaders-are-attending-cop27-the-influential-politicians-heading-to-egypt

References

Loria, K. (2017, June 1). How Much Has the US Contributed to Climate Change? Business Insider. https://www.businessinsider.com/us-effect-on-climate-change-co2-emissions-warming-2017-6

MacDermot, G. E. (2017, March 17). *I Want You to Know that Rwanda is the Most Remarkable Country in the World | by Galt Elijah MacDermot | Medium*. Medium. https://medium.com/@gmacdermot/i-want-you-to-know-that-rwanda-is-the-most-remarkable-country-in-the-world-85a3bd18bcd6

Mattapan CHC. (n.d.). Family Planning - mattapanchc. Retrieved November 12, 2022, from https://www.mattapanchc.org/services/planning

Nakisozi, C. (2019, September 6). Kwita Izina, Rwandan ceremony. Everbased Tours and Travel. https://everbased.com/kwita-izina-2019/

O'Neill, A. (2022, June 1). Rwanda - Gross domestic product (GDP) 1987-2027 | Statista. Statista. https://www.statista.com/statistics/452123/gross-domestic-product-gdp-in-rwanda/

Patterson, K. P., Jameel, Y., Mehra, M., & Patrone, C. (2021). Girls' education and family planning: essential components of climate adaptation and resilience. www.drawdown.org

ProjectDrawdown. (2020, February 7). Family Planning and Education: ProjectDrawdown ClimateSolutions. Project Drawdown. https://drawdown.org/solutions/family-planning-and-education

The Conversation/CC-BY-ND Source: Our World In Data, Global Carbon Project

Timbuktu Travel. (n.d.). Lake Kivu Serena Hotel, Rwanda | Timbuktu Travel. Timbuktu Travel. Retrieved November 12, 2022, from https://www.timbuktutravel.com/lodge/lake-kivu-serena-hotel

Wharton School. (n.d.). *The Transformative Power of Women Leaders in Rwanda*. Wharton School of the University of Pennsylvania. Retrieved November 12, 2022, from https://alumni.wharton.upenn.edu/all-stories/alumni/the-transformative-power-of-women-leaders-in-rwanda/

Wodon, Q., Montenegro, C., Nguyen, H., & Onagoruwa, A. (2018). Missed Opportunities: The High Cost of Not Educating Girls. The World Bank.