RICHMOND PUBLIC SCHOOLS
Shaping Our Future: Policy Pathways
Mr. Wayne Thomas, Teacher

Capstone Project

Climate Change and the Restoration of Depleted Forests to Build Food Security in Ghana

Capstone Team members:

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Capstone Site: Center for Women and Food Security-Ghana (CeWaFS-Ghana)

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Sponsoring Organization: The Commonwealth (VA) Chapter of Links, Incorporated, International Trends and Services Facet, LIFE Program

Problem Statement

Climate change and illegal logging and mining are contributing to the water crisis and rising poverty and hunger levels in rural Ghana.



Policy Context: Republic of Ghana



- Capital: Accra
- Population: 25.5 million
- Major languages: English, African languages
- Gold, cocoa, and oil form the cornerstone of Ghana's economy.
- 57.7% of Ghana's population lives in urban centers, while 42.3% lives in rural areas.

Policy Context

- Climate change and deforestation
- Rural women farmers food insecurity
- Overty



Policy Formation



- Promotion of food security and agricultural development to help women, children and families
- •mprovements in Agricultural production.
- Environmental laws regulate the environment and ensure the implementation of environmental and forest policies.
- ellegal logging, corruption, and weak enforcement of forest and environmental laws are impediments to sustainable forestry and environmental initiatives.

Policy Implications: The Role of Non-Governmental Community-Based Organizations







The Center for Women and Food Security-Ghana (CeWaFS-Ghana)

- a community development-based organization in Sunyani
- Educates and empowers rural women farmers
- creates avenues for food security and poverty reduction
- strengthens the capacity of women farmers

Policy Recommendations

- Help rural women farmers through education, advocacy, and financing
- Value rural women's opinions in policy decision making
- Address corruption
- Support organizations like the Center for Women and Food Security - Ghana
- Tackle gender gaps to help achieve food security



References

Source: https://www.bbc.com/news/world-africa-13433790

Source:

https://datareportal.com/reports/digital-2021-ghana#:~:text = Ghana's%20population,31.40%20million%20in%20January %202021

Source:

https://extranet.who.int/nutrition/gina/en/node/11625#:~:tex t=Programme%20description,of%20poverty%2C%20hunger %20and%20undernutrition

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Source:

https://extrapet.who.int/putrition/gipa/en/pede/11625#: ...tox



Richmond Public Schools Shaping Our Future: Policy Pathways Mr. Wayne Thomas, Teacher

Climate Information for Disaster Risk Management During The Monsoon Season in Central Vietnam

The International Research Institute for Climate and Society (IRI)

Columbia University

Dannie Dinh, Program Officer

Team Members: Anaya White, Loany Escalante-Murillo Tion Armstrong, Kyvon Taylor, and Ahmonte Green



Problem Statement: Vietnam

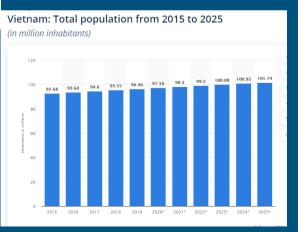


Over the last 20 years, climate change has negatively impacted the agricultural sector leading to a rise in the poverty level in Vietnam.

Policy Context: Vietnam

- Located in Southeast Asia on the eastern edge of the peninsula known as Indochina.
- Current population of Vietnam in 2021 is 98,168,833, a 0.85% increase from 2020
- In 2018, agriculture, forestry and fishing accounted for 14.68% of the country's Gross Domestic Product (GDP).
- The agricultural land area makes up 39.25 percent of Vietnam's total land area.





Formation

Climate change and the devastation of the monsoon season have led to calls for action

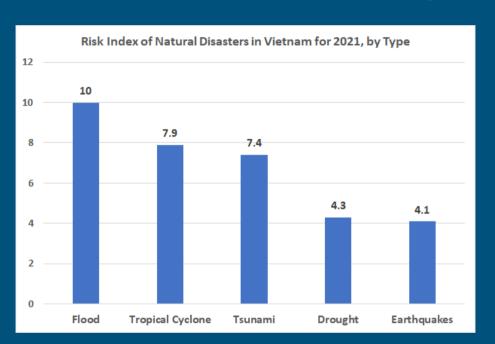
Policy

- Traditional models of responding to disasters after-the-fact with relief aid are costly and unsustainable.
- Management and response strategies must become more proactive



Source: The International Research Institute for Climate and Society (IRI)

Policy Analysis



- Compared to droughts, and earthquakes, Vietnam is more likely to experience flooding, tropical cyclones, and tsunamis.
- The destruction to crop lands and livestock creates additional hunger, food insecurity, and poverty with wider impacts beyond the geographic region.

Source: https://www.statista.com/statistics/920892/vietnam-risk-index-for-natural-disasters/

Policy Analysis



- One in nine people on the planet go hungry-mostly farmers and their children.
- Climate change makes these humanitarian and development challenges worse.
- Eighty percent (80%) of the world's agriculture is rainfed.
- Man-made climate change is a contributing factor to food insecurity and rising poverty.

Policy Implications: The ACToday Vietnam Project

- The ACToday Vietnam works with Vietnam's lead hydrological and meteorological agency (NCHMF) to develop climate information, tools, and services to support the agricultural sector's needs.
- Project Aim: To improve climate information and services to support disaster risk management in Central Vietnam.
- Challenges: Cultural practices, nonscientific traditional beliefs local farmers, and lack of technology, such



Recommendations

Strengthen governmental partnerships to:

- Share information, data, plans, and strategies
- Monitor atmospheric changes
- Strengthened dyke systems
- Enhance communications to enhance flood prevention
- Improve alert and rapid response systems



References

Image (Slide 2):

https://en.vietnamplus.vn/mekong-delta-floods-inundate-over-2000ha-of-rice/140743.vnp

Images (Slides 5, 6, and 7):

https://kids.nationalgeographic.com/geography/countries/article/vietnam#:~:text=use%20is%20prohibited.-,Vietnam%20is%20a%20long%2C%20narrow%20nation%20shaped%20like%20the%20letter,to%20the%20east%20and%20south

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Source: https://en.vietnamplus.vn/mekong-delta-floods-inundate-over-2000ha-of-rice/140743.vnp