

# Brainstorming

## Climate change

### Causes

#### Natural Causes

- Solar Radiation Variation
- Volcanic activity
- Milankovitch cycle
- Tectonic plates activity

#### Human Activities related

##### Causes

- Green house Gases emissions
- Deforestation
- Industrialization
- Pollution

### Consequences

- Rise in Temperature
- Impact on ecosystems
- Economic lost
- Human health
- Impact on agriculture & food security
- Extreme weather events
  - ↳ sp. migration
  - ↳ habitat lost
- Bio diversity lost
- World wildlife fund 2024
- Clean air future
- Spread of infectious disease
- health related issues
- UNDP - 30bn USD lost



# Outline

## Climate change: Causes and Consequences

### 1 Introduction

1.1 Hook statement

1.2 General statement

1.3 Thesis statement

There are several causes of climate change. The natural causes includes variation in solar radiation, volcanic activity, Milankovitch cycle and ocean current effects. Human activities related causes are Green house effects, ~~Main body~~ deforestation, industrialization and pollution.

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### Causes of climate change

#### 2.1 Natural Causes

2.1.1 Variation in Solar Radiation

2.1.1.1 Warming and cooling trends

2.1.2 Volcanic activity

2.1.2.1 Inclusion of ash and sulphur dioxide in atmosphere

2.1.3 Milankovitch cycle

2.1.3.1 Changing in earth's orbit

2.1.4 Ocean Current

2.1.4.1 El Niño, La Niña effects

3.2

#### Human activity related Causes

3.2.1 Green house Gas Emission

3.2.1.1 Burning of fossil fuel

3.2.1.2 Green house effect

3.2.2 Deforestation

3.2.2.1 "Green Emergency" in Pakistan



3.2.3 Industrialization ✓

3.2.4 Pollution ✓

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## Consequences of Climate change

3.1 Rise in temperature

3.1.1 Warming of Ocean and atmosphere

3.2 Impact on ecosystem

3.2.1 Biodiversity loss, Migration of species

3.2.2 Ocean acidification

3.3 Economic loss

3.3.1 Destruction of infrastructure

3.3.2 Recent 'UNDP' report

3.4 Impacts on health

3.4.1 Spread of infectious disease

3.4.2 Health related issues

Conclusion ✓



"We are the first generation to feel the effect of climate change and the last generation who could do something about it." This stark warning from US President Barack Obama underscores the urgency of the climate crisis we face today. Climate change refers to significant and long term changes in the Earth's climate. It is a complex global phenomenon. Addressing climate change is one of most urgent challenge of the time requiring global efforts. Climate change is significant environmental and social issue worldwide.

Both natural as well as human activities causes change in climate, leading to severe consequences. There are several causes of the climate change related to nature as well as human activities. The natural causes of climate change includes variation in solar radiation, volcanic activity, Milankovitch cycle changes and ocean current effects. Causes related to human activities includes emission of green house gases, deforestation, industrialization and pollution.