TOWARD AN INTEGRATED FRAMEWORK TO EVALUATE CLIMATE EFFECTS ON NATIONAL SECURITY INTERESTS

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SOUTHWEST ASIA GULF COUNTRIES UNLIVABLE?
AFRICA CLIMATE CHANGE

Annual Temperature Change
Difference from 1986–2005 mean (°C)

mid 21st century

late 21st century

RCP8.5

RCP2.6

Growth of African cities
% increase, 2010-2025 forecast

City population, forecasts, 2010 2025

Source: UN-HABITAT
CLIMATE CHANGE, EXTREME WEATHER AND CONFLICT

- It is accepted that environmental factors can have impacts on National Security assets and be triggers or contributing factors for conflict.

- Climate change and extreme weather impacts to infrastructures and systems is reasonably well understood and accepted.

- **Forecasting** the role of environmental factors as a potential trigger for conflict is much less understood.
AN INTEGRATED CLIMATE IMPACT ASSESSMENT FRAMEWORK FOR SECURITY & CONFLICT

- Addressing questions from societal perspective requires a context driven, system-of-systems approach

![Diagram showing a circular framework with overlapping systems]

- Governing Systems
- Health Systems
- Business/Supply Chains
- Human Landscape
- Economic Systems
- Infrastructure

[Image: Argonne National Laboratory]
PROBLEMS THAT MIGHT REQUIRE THIS KIND OF FRAMEWORK?

• How might environmental stress impact regional stability?
  - Competition for scarce resources (e.g., water).
  - Migration as the only option to sea level rise, other scarcity

• Developing climate impact mitigation solutions

Extreme Drought Resulted in Crop Failures…
Which Resulted in Large Scale Migration to Urban Areas…
Which Resulted in Overcrowding and High Levels of Unemployment Which Led to Protests…
THANK YOU FOR YOUR TIME

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