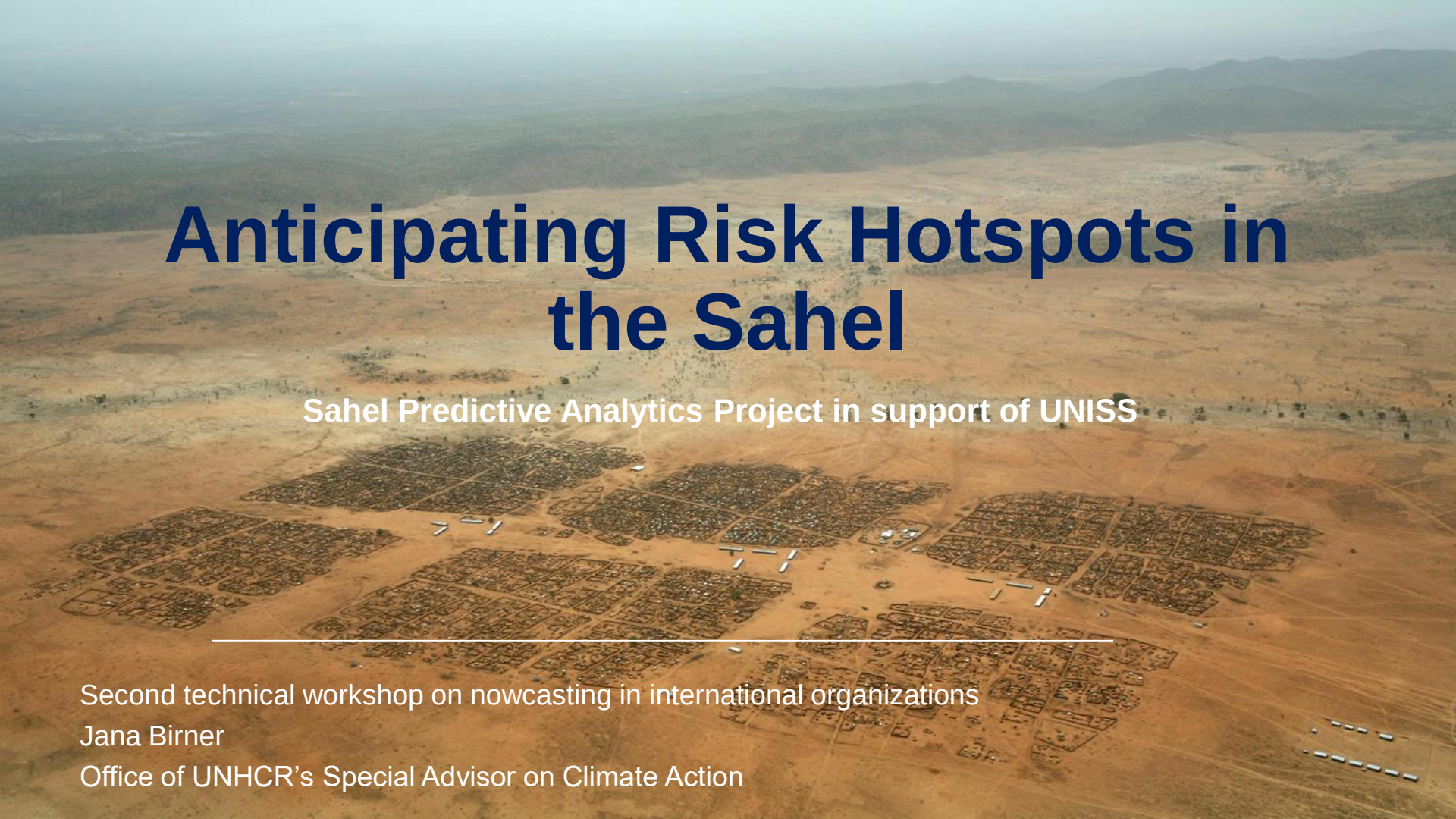


Anticipating Risk Hotspots in the Sahel

Sahel Predictive Analytics Project in support of UNISS

Second technical workshop on nowcasting in international organizations

Jana Birner
Office of UNHCR's Special Advisor on Climate Action

Predictive Analytics Pilot

Promote anticipatory planning and preparedness

- Deepen understanding of interconnectedness of risks in Sahel → Triple-nexus
- Assess the likelihood of future outcomes based on historical data

Enhance collaboration around data

- Aligned with the SG's Data Strategy
- Facilitate access, integration & sharing data
- Support data standardization

Problem Statement

Consultation

- Digital surveys and 50+ in-depth interviews
- 22 UN entities consulted (HQs, regional, field)
- Academia (20+ institutions)

Formulation of issues & solutions

- Identify climate impacts/mega trends, identify risk hotspots
- Request for improved data sharing
- Align with UNISS (locally owned)

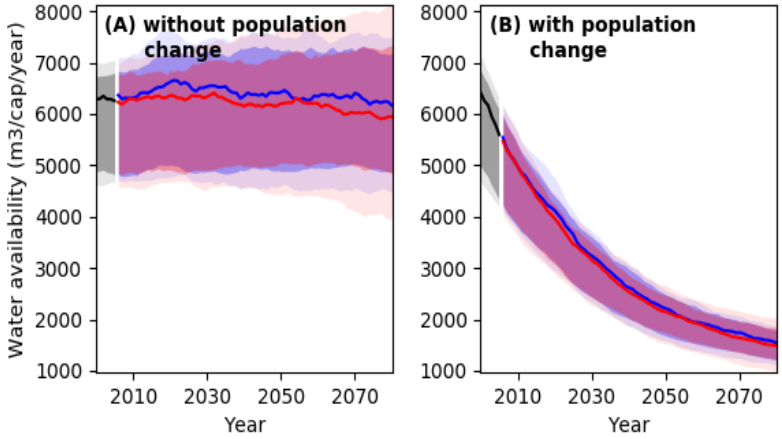
Multi-stakeholder collaboration

20 Partners in the expert consortium on PA for the Sahel in support of the UNISS

- Unite best practices for modelling and strategic foresight across the triple nexus
- Allow for cross-fertilization and integration
- Establish linkages to data owners
- Enhance local capacity building

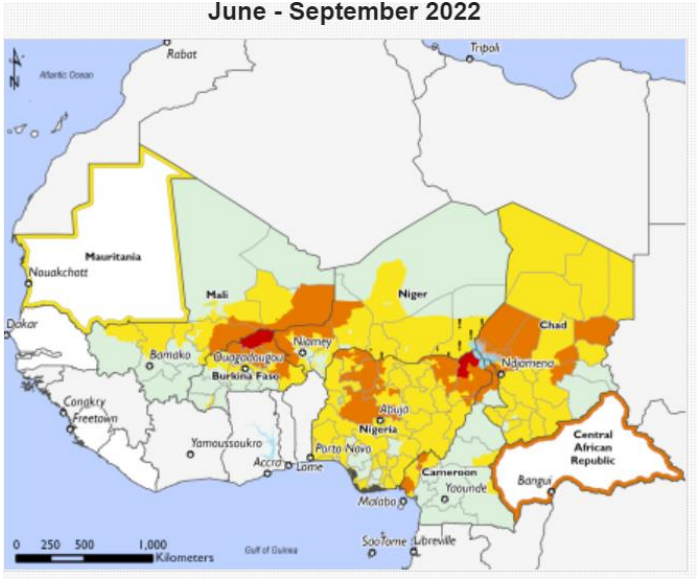
Four key areas

1. Climate Change



Projections of water availability from precipitation per capita and year with (A) national population held constant and (B) changing population

2. Food Security



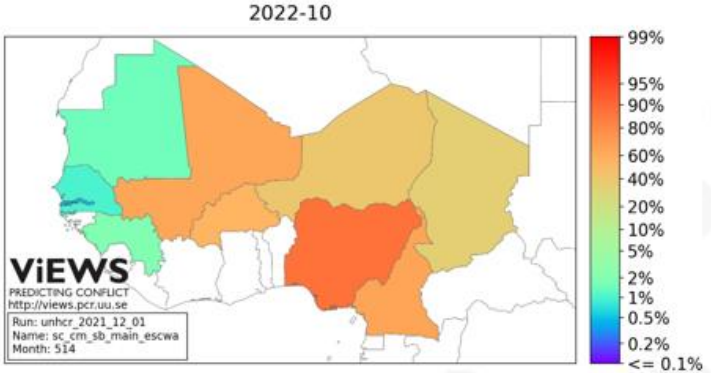
Forecasting Acute Food Insecurity (IPC Phases)

Source: PIK, Climate Hazard Centre at University of Santa Barbara

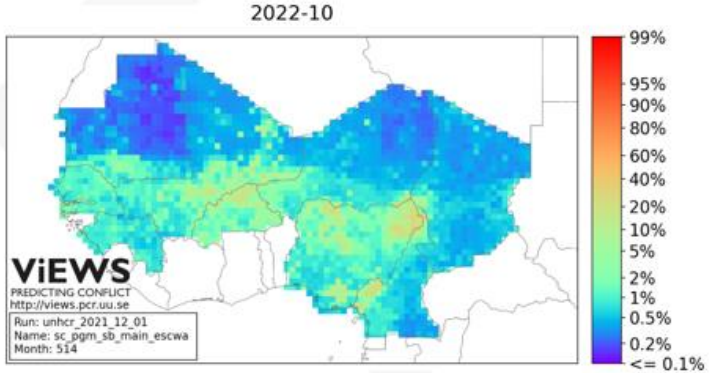
Four key areas

3. Conflict

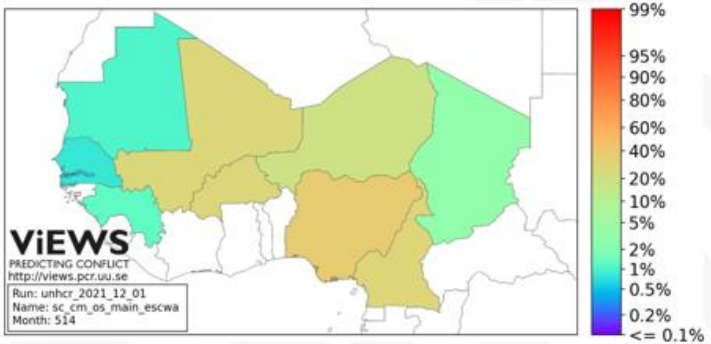
Predicted probability of political violence in October 2022, projected in December 2021



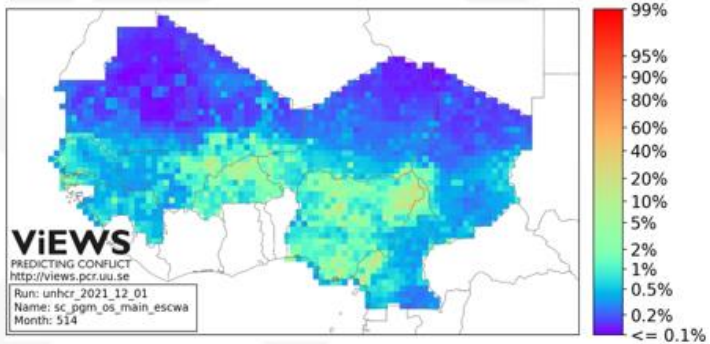
(a) State-based violence **(sb)**, *cm* level



(b) State-based violence **(sb)**, *pgm* level



(c) One-sided violence **(os)**, *cm* level

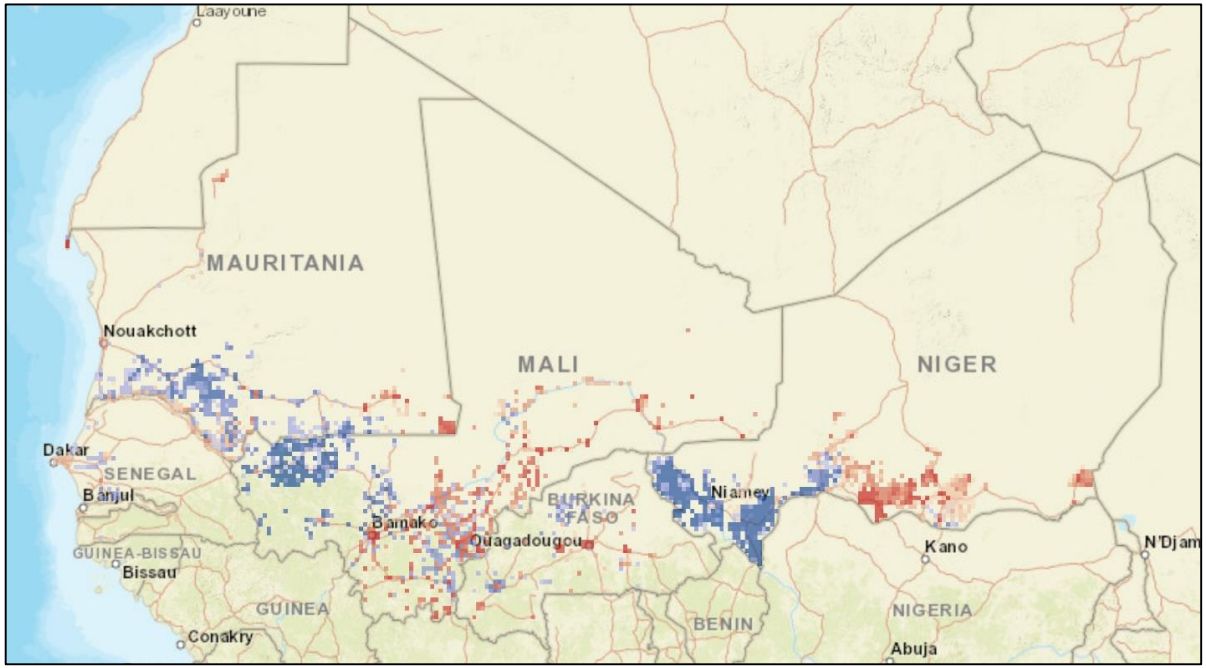


(d) One-sided violence **(os)**, *pgm* level

Source: ViEWS

Four key areas

4. Migration and displacement



In-Migration
- High certainty in high levels of climate in-migration
- Moderate certainty in high levels of climate in-migration
- Low certainty in high levels of climate in-migration

Out-Migration
- High certainty in high levels of climate out-migration
- Moderate certainty in high levels of climate out-migration
- Low certainty in high levels of climate out-migration
- ★ National capital

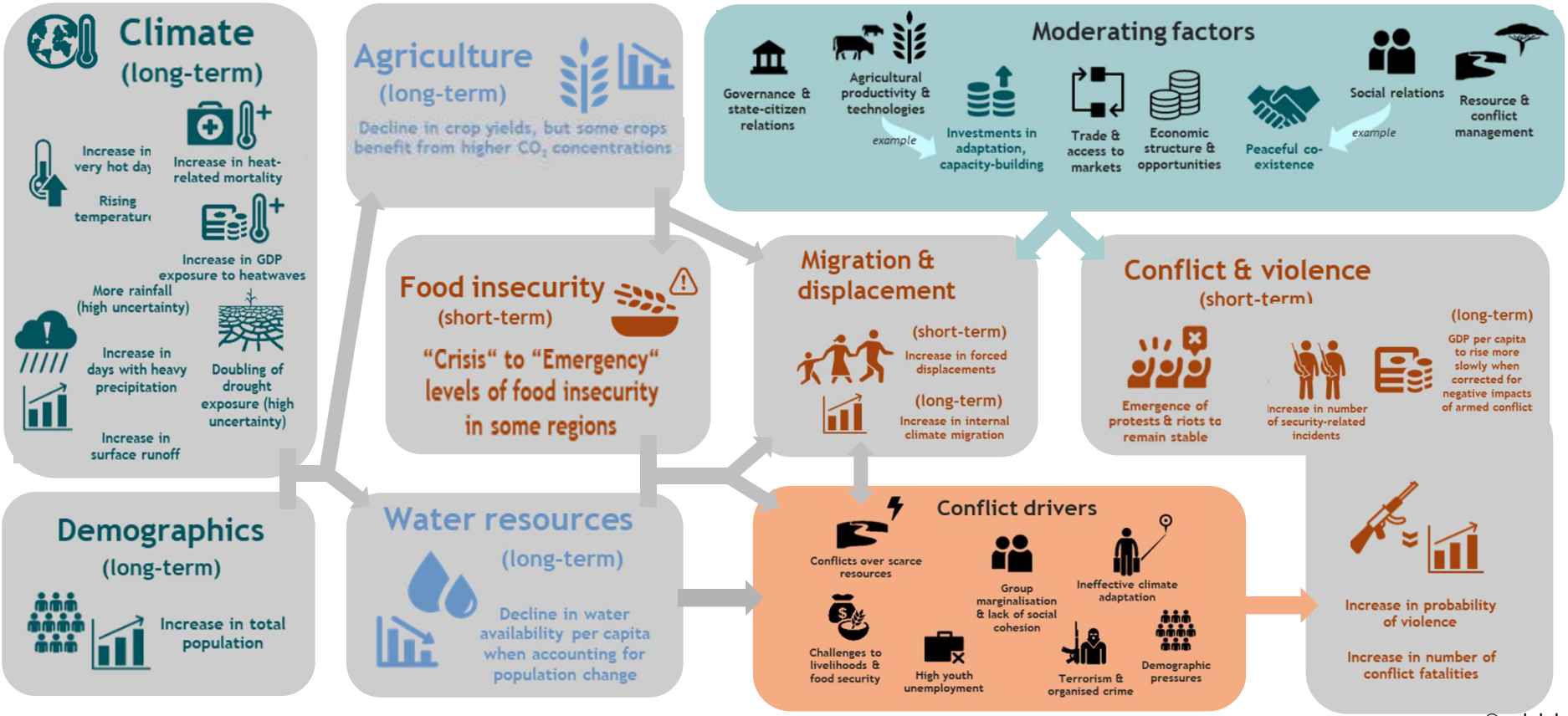
projecting permanent internal migration patterns related to slow-onset climate change impacts under different warming scenarios over 5-to-10-year intervals out to 2050 (the INCLUDE model)

Source: City University New York

Key findings

- High variability of risks (spatial and temporal)
- Climate change as a risk multiplier
- Data availability as key limitation
- PA key to support the implementation of the UNISS, in particular to promote long-term resilience and strengthen livelihoods
- Promotion of climate adaptation and good governance

Key findings (inter-linkage)




Thank you!