

**Displacement in the context of climate
change and disaster, and conflict and
violence -
Working with innovation**

21 June 2018

Introduction

- Climate Change as a driver for displacement
 - Climate change as a threat multiplier
- Need to address knowledge and data gap in situations of human mobility in the context of climate change and disaster displacement, and conflict and violence

Getting the right picture: How to enhance data collection in the context of the nexus?

Jetson analytics project

<http://jetson.unhcr.org/>

Jetson is a machine-learning based application aimed at providing predictions on displaced population movement for the Somalia situation. The main research purpose is to **measure changes in the population in an specific period of time**.

There is not one single major cause of forced displacement. There are **many causes (variables)** and an infinite combination of these variables, along with behavioral human patterns that lead to forced displacement. The objective of the model is not to find the cause (**why?**) but to explain **how** are people moving (patterns).

Jetson analytics project

Variables monitored

- Number of people displaced per region per month
- Departures number per region per month
- Arrivals number per region per month
- Number of fatalities per region per month
- Number of violent conflict incidents per region per month
- River levels per river per month
- River discharge per river per month
- Rainfall average per region per month
- Water drum price per region per month
- Local goat Price per region per month

Data sources and/or main project partners:

Climate: [FAO-SWALIM](#), [WMO](#), [IGAD-ICPAC](#), [UNOSAT](#), [World Bank](#)

Infrastructure: [UNOSAT](#)

Conflict: [ACLED](#)

Food Security: [FAO-FSNAU](#), [FEWES](#)

Population: [UNHCR](#), [PRMN](#)

Data Science support: [UN Global Pulse](#), [Essex University](#), [Uptake.org](#)

Conclusion

- Building the evidence - Need for more data
 - Partnerships
 - Looking at the big picture
- Monitoring multicausality - understanding dynamics and interlinkages of phenomena
 - Understanding protection environment

Thank you!