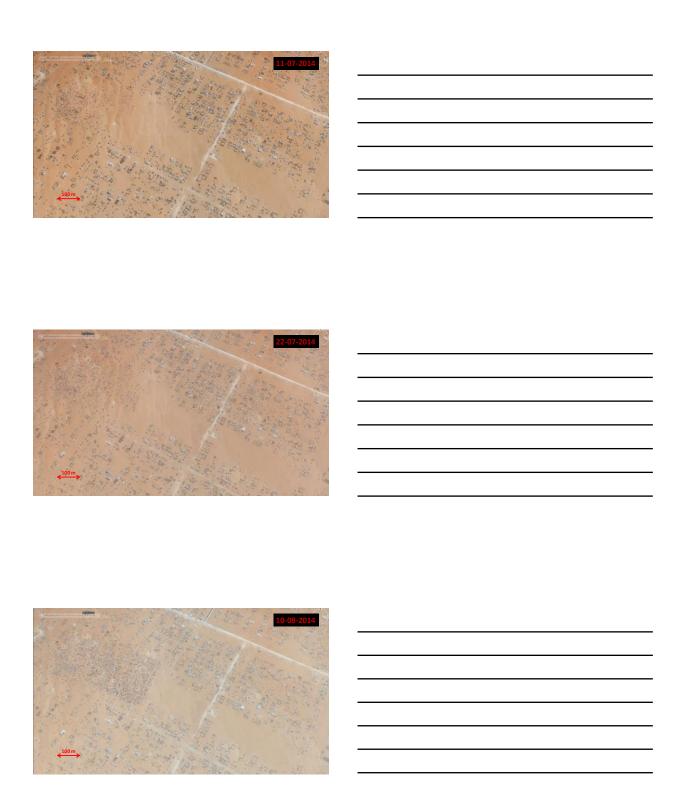
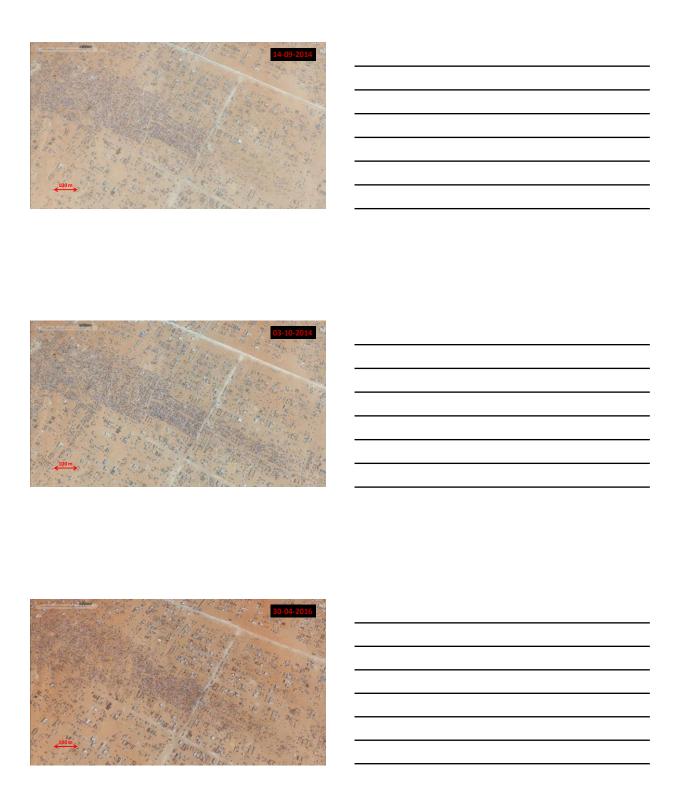
Migration in Extreme Climate Change Scenarios	
Hugo Observatory - University of Liège	
François Germenne Julia Blocher Electronic de Longovillo	
Florence de Longueville Dalla Gharbaoul Plerre Ozer	
Nakia Pearson Sara Vigil Caroline Zickgraf	
helix Université de Liège	
This research leading to these results has received funding from the European Union Seventh Framework Programme FP7/2007-2013 under grant agreement of 038864.	
No direct relationship between the scale	
of climate impacts and migration impacts	
 Small perturbations can have big effects including migration 	
Big changes don't always mean big effects on migration	
 Don't assume climate hotspots are migration hotspots Small and big outcomes can be big in terms of 	
permanence or temporality	
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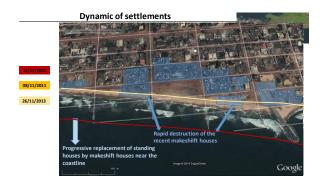


Climate change at 2°C, 4°C, 4°C will make migration different (not bigger not smaller)

- Insist on non-linear changes
- immobility

Study area



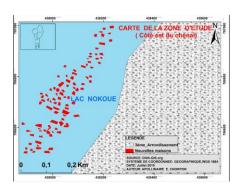












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Climate tipping points do not equal
migration tipping points

- Perceptions about climate change can alter migration responses
- What is the lag time between perceptions and intentions? Between intentions and actions?

Perception of climate change (rainfall)

Climate	Arid Sahel		
Mean annual rainfall	300-500 mm		
Perception of change	-	NC	+
Source / Indicator	Yearly total rainfall		
Akponikpè et al. (2010)	91	2	2
Nielsen & Reenberg (2010)	62	6	32
Mertz et al. (2012)	83	4	13
Diessner (2012)	90	6	3
This study (based of ABABAA data)	01	2	14

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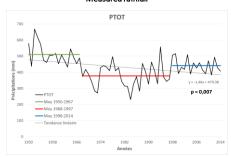
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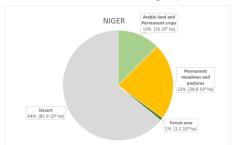
Adaptation to climate change (rainfall)

Temporal migration in response to a drier climate: 4.4%
Permanent migration in response to a drier climate: 29.3%
Temporal migration in response to a drought: 55.9%
Migration in the 'top 3' adaptation strategies to climate change: 54%

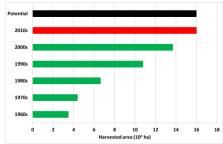
Measured rainfall



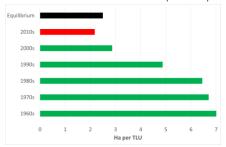
Potential land resources in Niger (FAO, 2015)



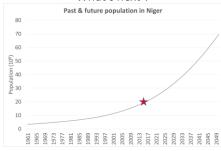
Harvested area Vs Arable land and permanent crops potential



Livestock area Vs Permanent meadows and pastures potential



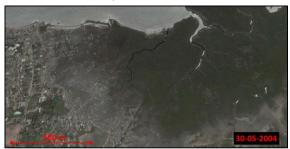
What's next?



At the end of the day, it comes down to inhabitability

- The conjuncture of social inhabitability and climate inhabitability
 - Resilience
 - Maladaptation

Cap-Haïtien, Haïti



Cap-Haïtien, Haïti





















