

COMMUNITY RESPONSIVE ADAPTATION TO FLOODING: 2017-2020

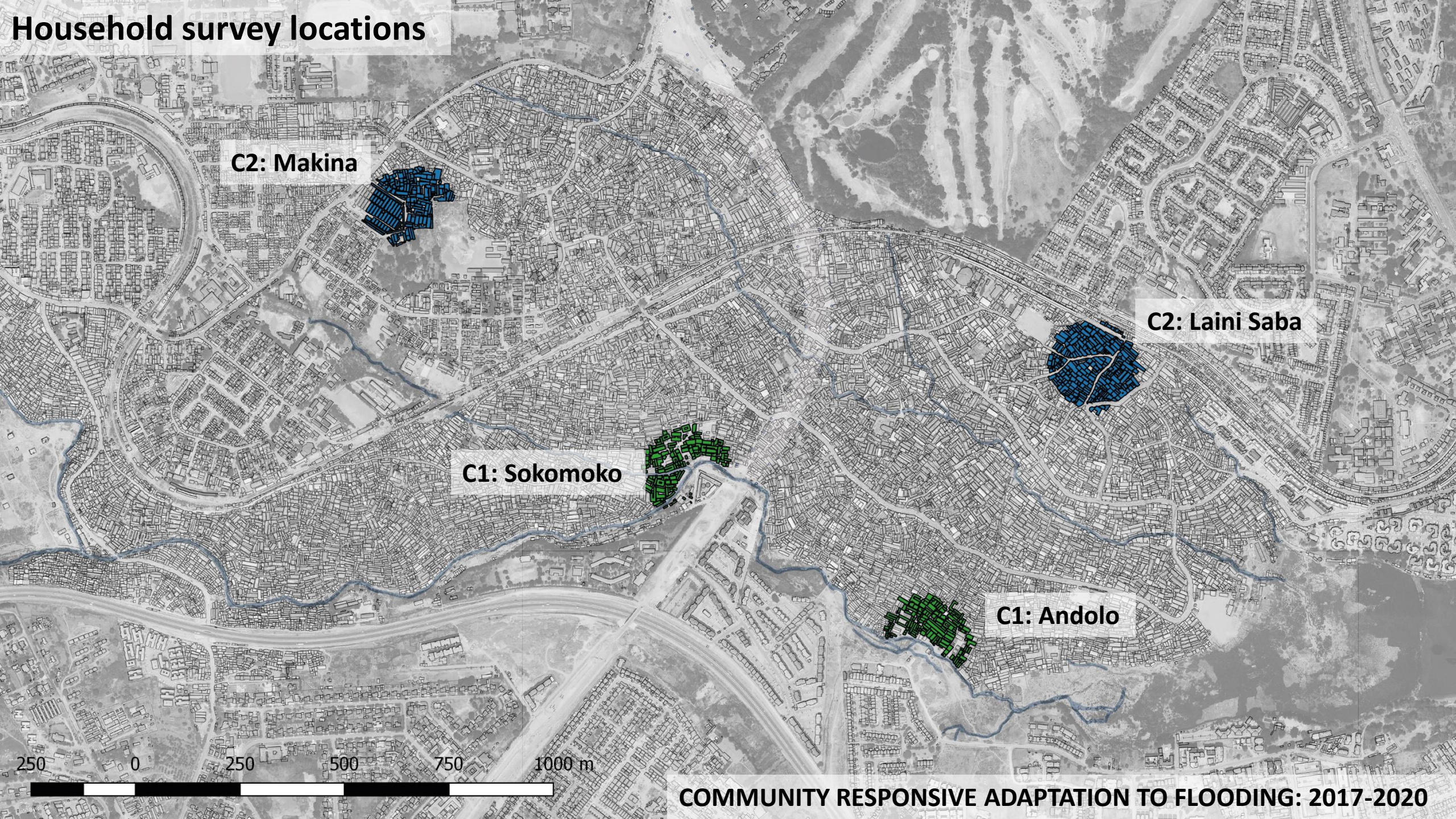
Equity in Climate Change Adaptation,
Session 3

Stockholm World Water Week 2019

Vera Bukachi, Kounkuey Design
Initiative



Household survey locations



C2: Makina

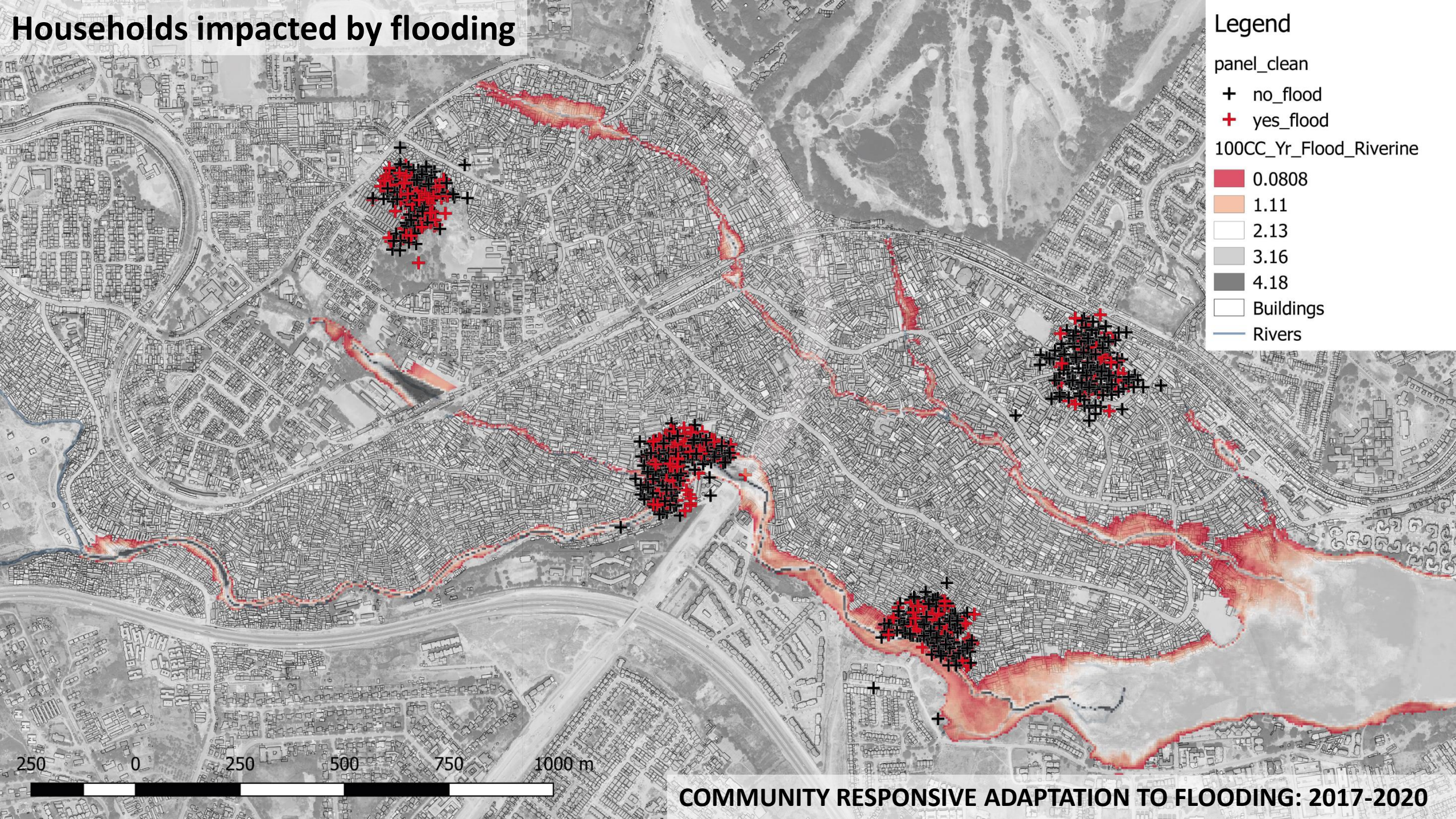
C2: Laini Saba

C1: Sokomoko

C1: Andolo

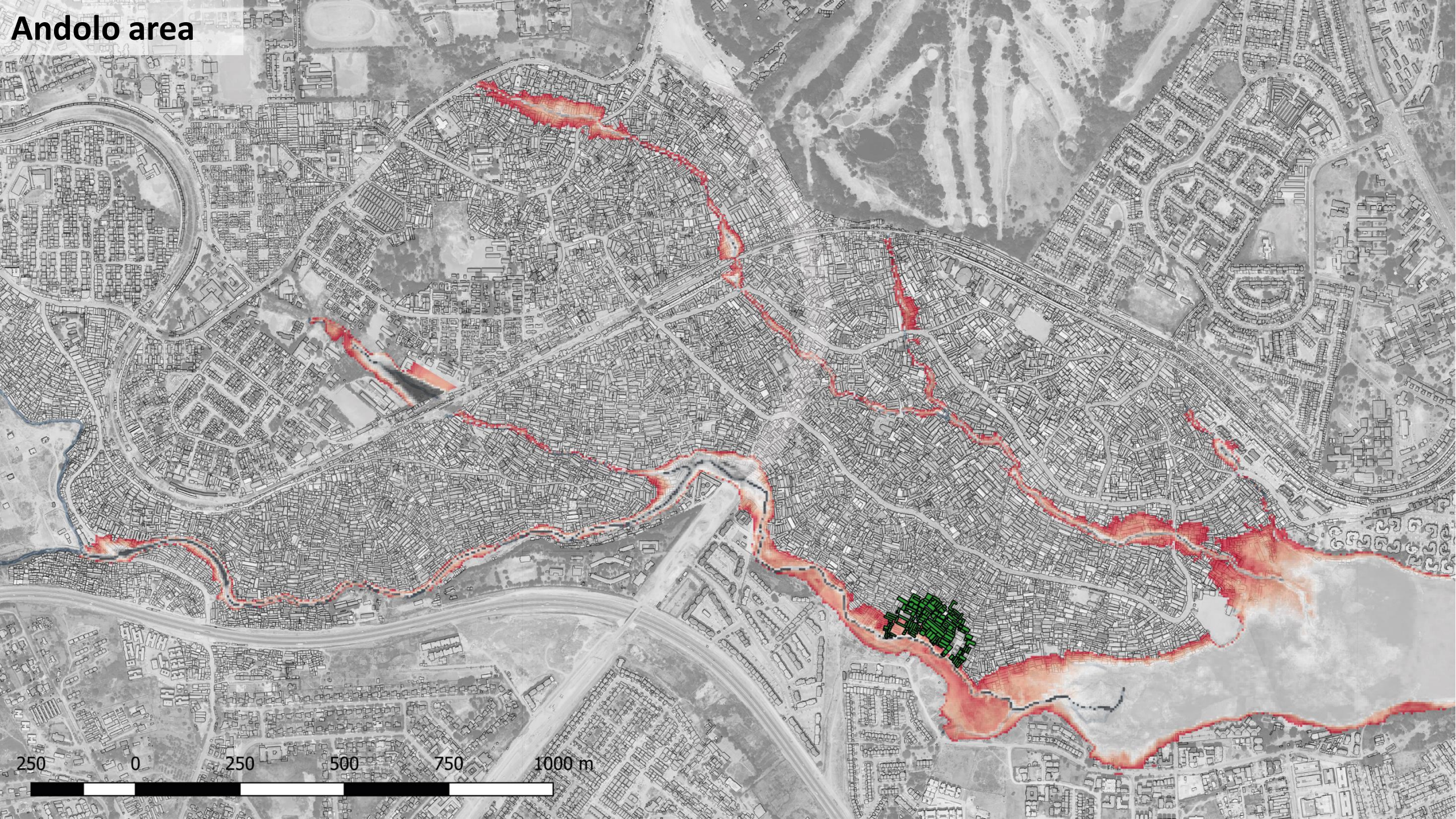


Households impacted by flooding



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Andolo area



250 0 250 500 750 1000 m



“the old guys who have stayed around that area for long knows how dangerous that space can be... every building that was constructed along that space was destroyed”

Andolo Resident

Adaptation Constraints + Transformation

SCALES →

● Relevant at this scale

FLOOD RESILIENCE MEASURES	Household	Compound	Community	Settlement	Watershed
	Resident	Landlord	Community Orgs.	Local Gov.	State/Nat. Gov.
Raise floor level	●	-	-	-	-
Raise Internal Assets	●	-	-	-	-
Door step	●	-	-	-	-
Floor drainage	●	-	-	-	-
Building Waterproofing	●	●	-	-	-
Flood walls (local)	●	●	●	-	-
Rainwater Harvesting	●	●	●	-	-
Local Flood walls (river/drainageway)	●	●	●	-	-
Drainage widening/formalisation	-	-	●	●	-
Green Infrastructure	-	-	-	●	-
Engineered Flood Protection	-	-	-	●	●
Drainage clearance	●	●	-	●	●
Flood Preparation Committees	-	-	●	●	-
Flood Response Committees	-	-	●	●	-
Waste collection (microenterprise)	-	-	●	●	-
Micro-savings programs	-	-	●	●	-
Government Flood awareness campaigns	-	-	-	●	-
Waste collection (municipal)	-	-	-	●	-
Early warning system	-	-	-	●	●
National Disaster Response Mobilisation	-	-	-	-	●
Land Use Regulation/Assisted Relocation	-	-	-	-	●

STRUCTURAL

NON-STRUCTURAL

AUTONOMOUS ACTION BY INDIVIDUALS

COMMUNITY RESPONSIVE ADAPTATION

PUBLIC POLICY MEASURES

- Lack of interface and legitimacy with communities
- Lack of capacity
- Lack of policy framework
- No integration of climate change

- Lack of capital
- Lack of technical knowledge
- Lack of clarity on ownership

- Builds on existing community efforts
- Connects with technical resources
- Connects with government programs

Adaptation Constraints + Transformation

SCALES →

● Relevant at this scale

FLOOD RESILIENCE MEASURES		Household	Compound	Community	Settlement	Watershed
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STRUCTURAL	Raise floor level	●	-	-	-	-
	Raise Internal Assets	●	-	-	-	-
	Door step	●	-	-	-	-
	Floor drainage	●	-	-	-	-
	Building Waterproofing	●	●	-	-	-
	Flood walls (local)	●	●	●	-	-
	Rainwater Harvesting	●	●	●	-	-
	Local Flood walls (river/drainageway)	●	●	●	-	-
	Drainage widening/formalisation	-	-	-	●	-
	Green Infrastructure	-	-	-	●	-
NON-STRUCTURAL	Engineered Flood Protection	-	-	-	●	●
	Drainage clearance	●	●	-	-	-
	Flood Preparation Committees	-	-	●	●	●
	Flood Response Committees	-	-	●	●	●
	Waste collection (microenterprise)	-	-	●	●	●
	Micro-savings programs	-	-	●	●	●
	Government Flood awareness campaigns	-	-	-	●	●
	Waste collection (municipal)	-	-	-	●	●
Early warning system	-	-	-	●	●	
National Disaster Response Mobilisation	-	-	-	-	●	
Land Use Regulation/Assisted Relocation	-	-	-	-	●	

AUTONOMOUS ACTION BY INDIVIDUALS

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