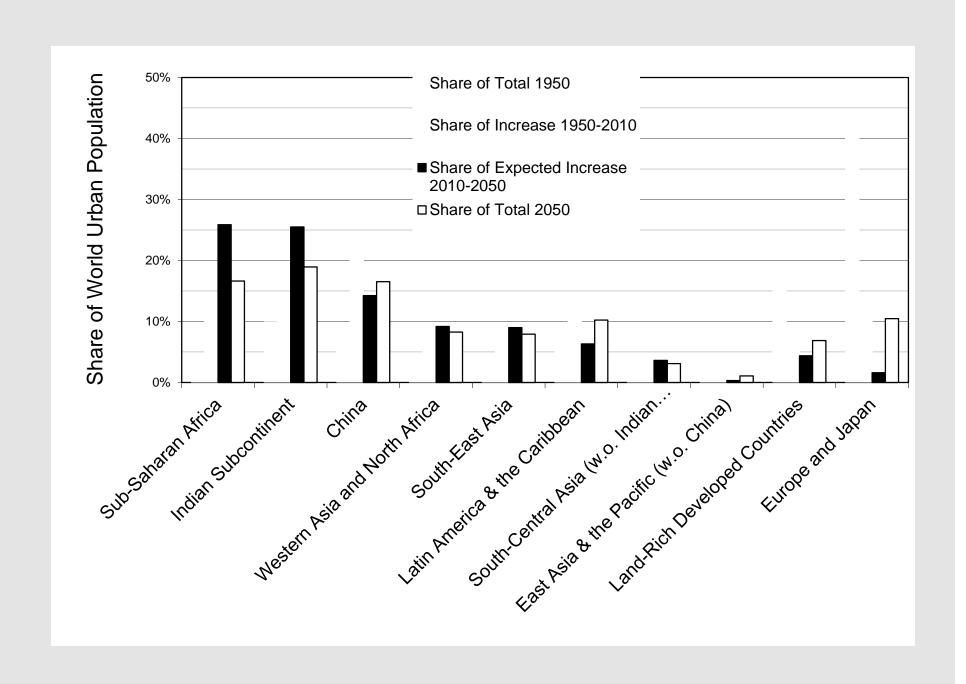
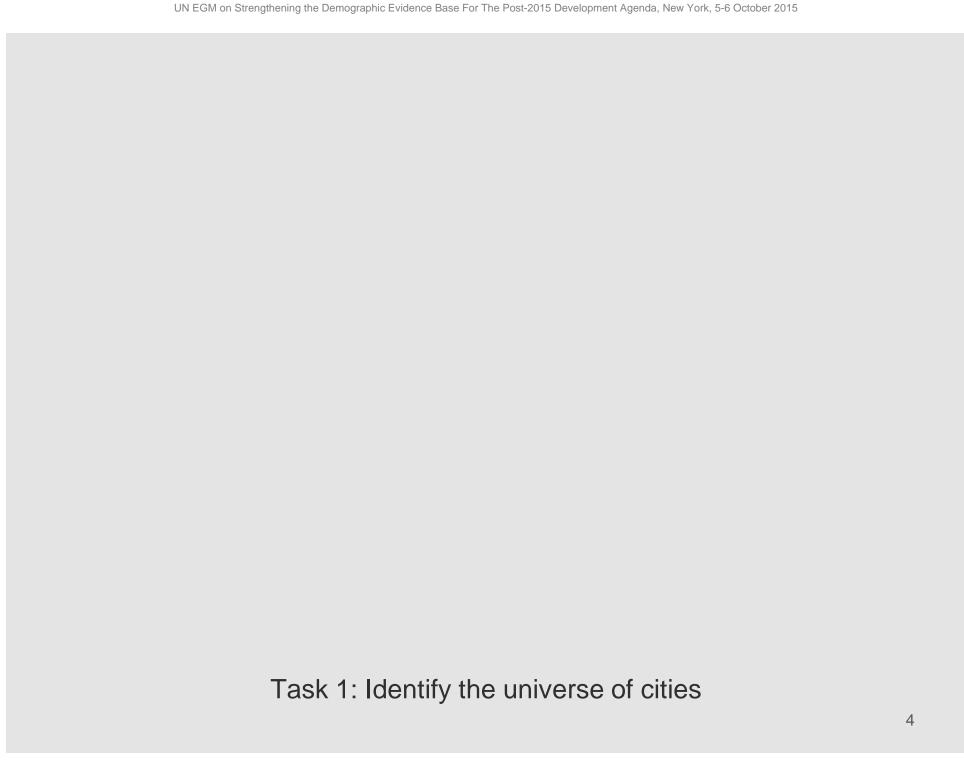
Monitoring Global Urban Expansion Using Remote Sensing and a Network of City -Based Researchers

Alejandro Blei, NYU Stern Urbanization Project October 6, 2015



- Presently no goal, or metrics, that pertain to the development and performance of the world's cities.
- Proposed research program is to make progress in filling that void.
- Broad goals: adequate, properly serviced, affordable lands for growing populations.
- The proposed methodology for carrying out this task is the Monitoring Urban Expansion program.



Universe of 4,245 cities ÆSample of 200 cities

- o Stratified on three dimensions
 - I. Region
 - II. City population size bins
 - III. Number of cities in country > 100,000 inhabitants

	World Regions		
1.	East Asia & Pacific		
2. 3.	Southeast Asia		
3.	South & Central Asia		
4.	Western Asia & Northern		
	Africa		
5.	Sub-Saharan Africa		
6.	Latin Am. & Caribbean		
7.	Europe & Japan		
8.	Land Rich Developed		
	Countries		

	City Population Bins
1.	100,000 - 471,000
2. 3.	471,000 - 1,250,000
3.	1,250,000 - 4,850,000
4.	4,850,000 +

	Number of	Cities in
	Country	>100k
1.	1 to 9	
2.	10 to 19	
3.	20 +	

- 8 regions x 4 po pulation bins x 3 cities in country bins = 96 'boxes'.
- 76 non -empty 'boxes' in universe.
- Sample city selection is roughly proportional to relative frequencies of urban population in the different boxes
- Weighting ensures that the sample is representative of universe.

Granada Suva Saidpur Jequié

Task 2: Select the sample of 200 cities

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Urban Expansion in Accra, Ghana 1991 - 2014

Phase II: The Quality of Urban Layouts

Phase II: The Quality of Urban Layouts



Phase III: The Land and Housing Survey in the Global Sample of Cities

Phase III: The Land and Housing Survey

City Footprint

Expansion Area

Phase III: The Land and Housing Survey

Thank you!

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