

Current Challenges and Opportunities for the Prevention and Control of Infectious Diseases in an Increasingly Urban and Interconnected World: A Local Perspective

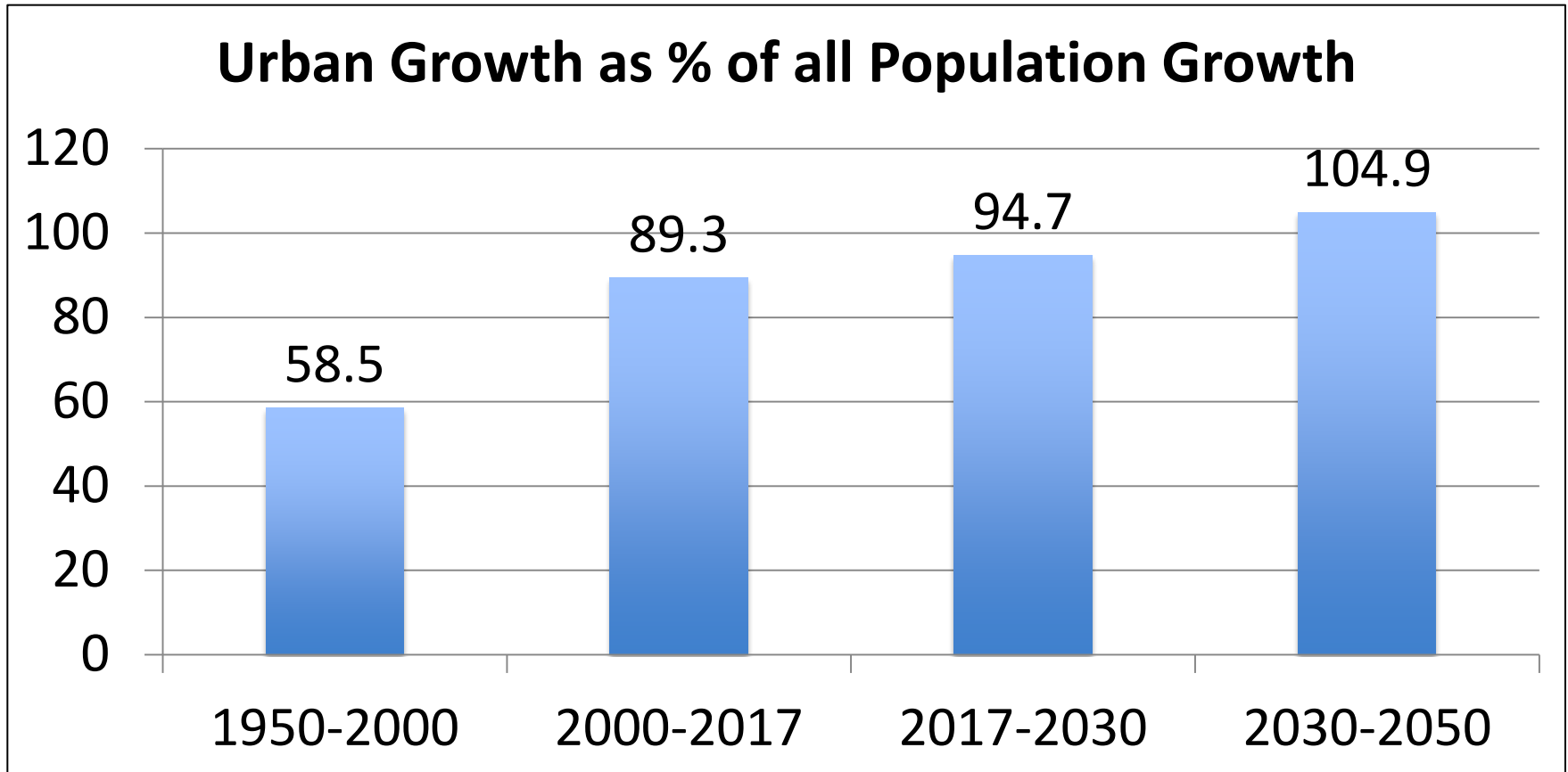
Urbanization and Slums: New Transmission Pathways of Infections Diseases

Alex Ezeh – Still at APHRC



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Increasingly Urban...



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Slum Health is not Urban Health

The health of people who live in slums 1



The history, geography, and sociology of slums and the health problems of people who live in slums

Alex Ezeh, Oyinlola Oyeboade, David Satterthwaite, Yen-Fu Chen, Robert Ndugwa, Jo Sartori, Blessing Mberu, GJ Melendez-Torres, Tilahun Haregu, Samuel I Watson, Waleska Caiaffa, Anthony Capon, Richard J Lilford

The health of people who live in slums 2



Improving the health and welfare of people who live in slums

Richard J Lilford, Oyinlola Oyeboade, David Satterthwaite, GJ Melendez-Torres, Yen-Fu Chen, Blessing Mberu, Samuel I Watson, Jo Sartori, Robert Ndugwa, Waleska Caiaffa, Tilahun Haregu, Anthony Capon, Ruhi Saith, Alex Ezeh



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Bellagio Convening on Slum Identification



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Why is Slum Health so Important?

- Health Risks
- Health Determinants
- Health Outcomes
- Global interconnectedness
- Urban Inequities



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Health Risks

Overcrowding



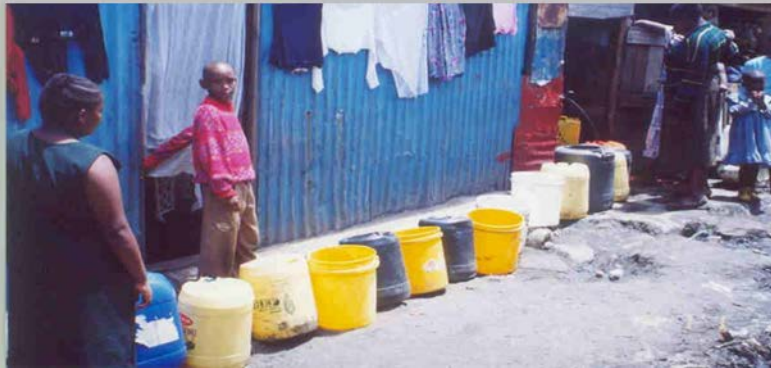
Poor garbage disposal



Poor toilets



No affordable clean water

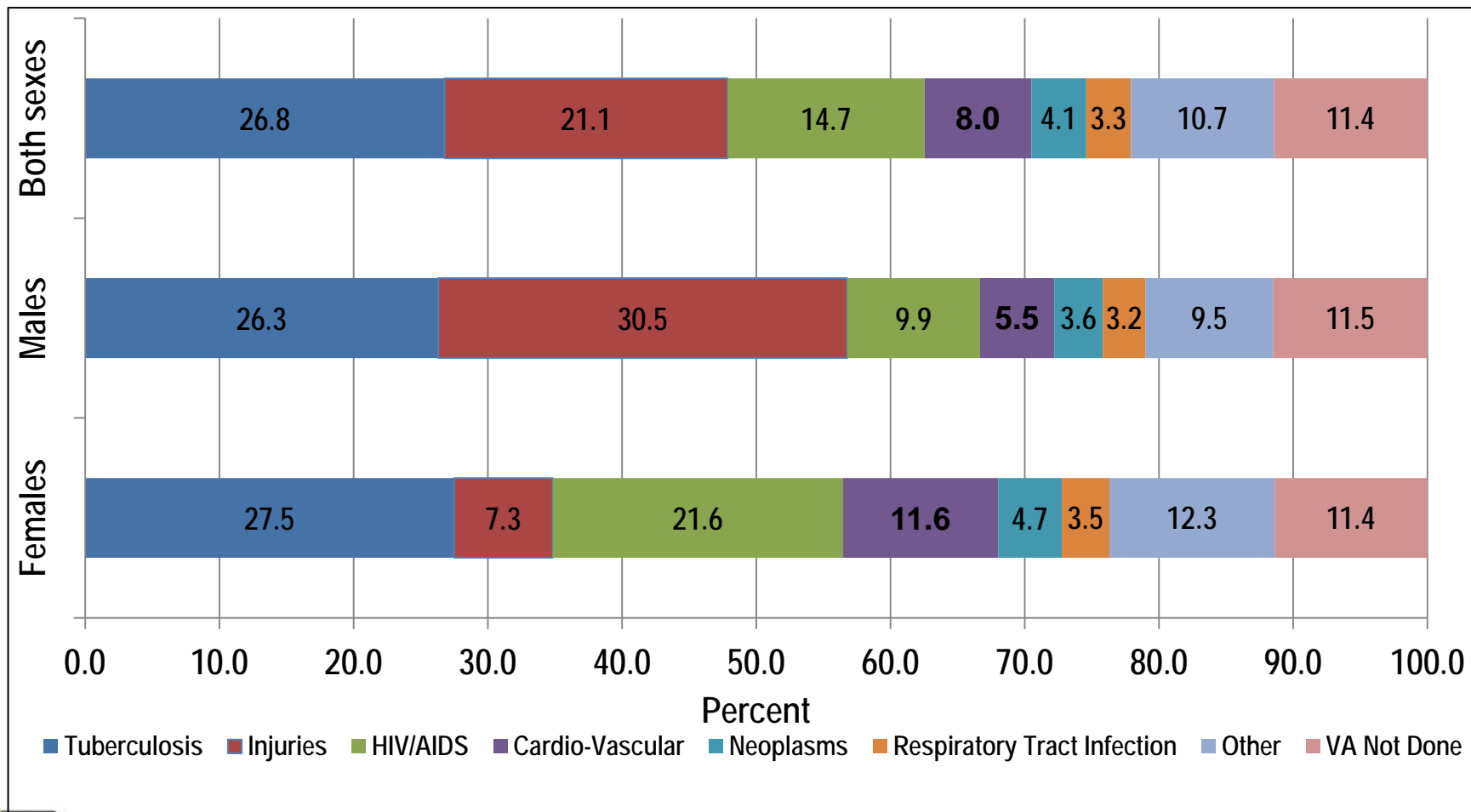


Poor drainage



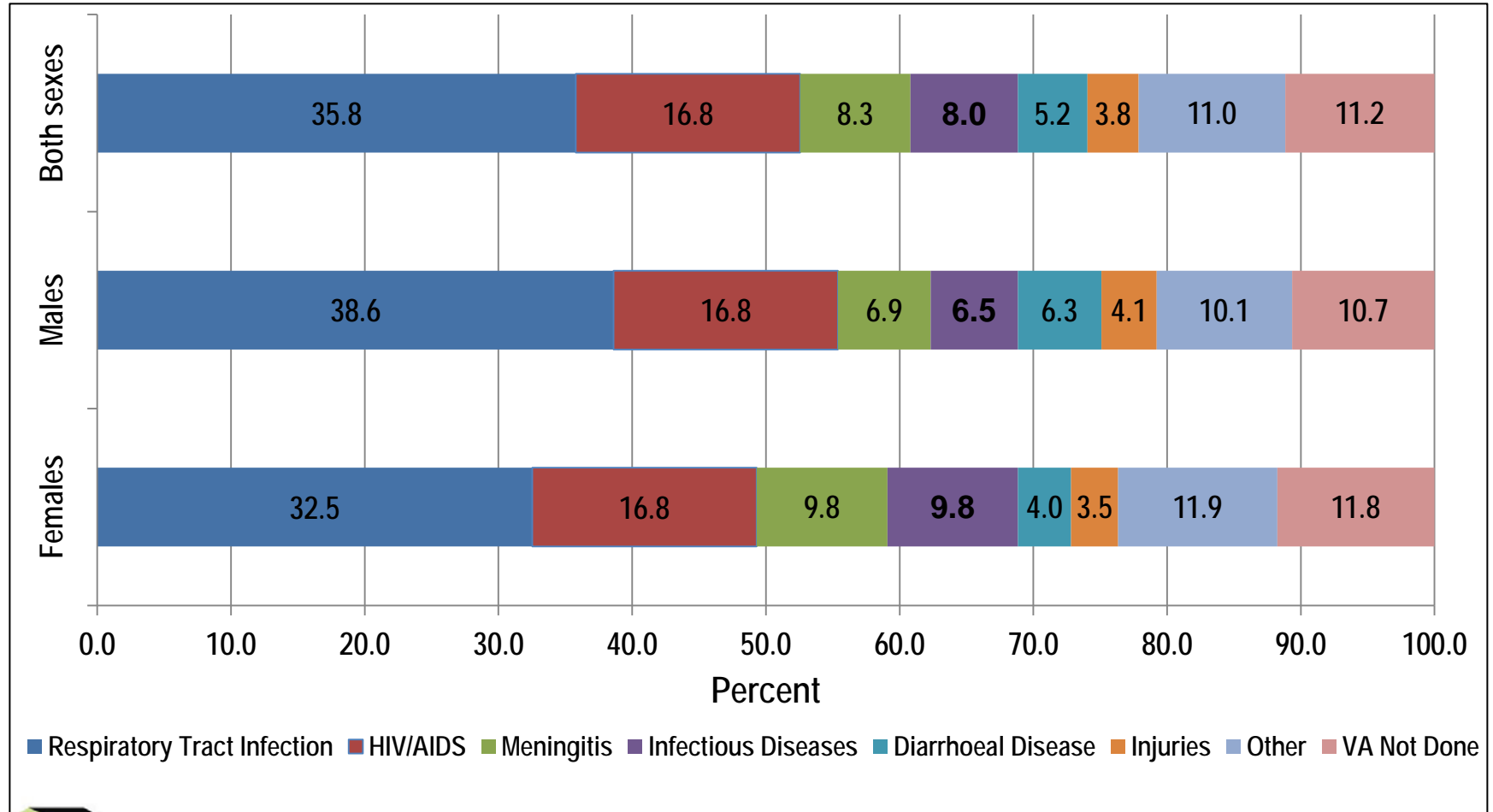
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Health Determinants: Distribution of Top Six COD among 15+ by gender, NUHDSS 2003-2016



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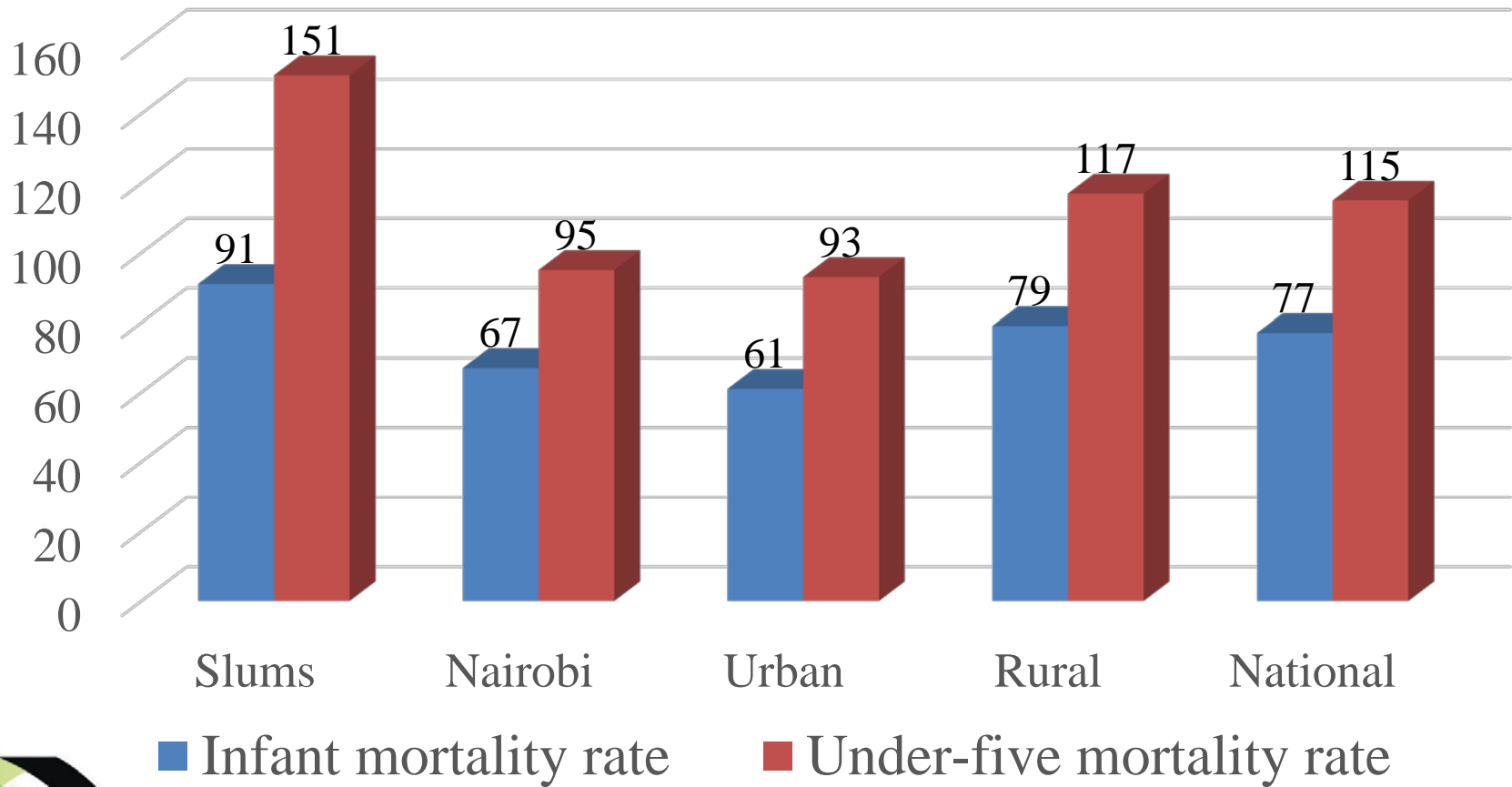
Health Determinants: Distribution of Top Six COD among **under-5s** by gender, NUHDSS 2003-2016



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Health Outcomes: The Real Issue with Slum Populations

Comparison of IMR & U5MR in Kenya (KDHS 2003, NCSS 2000)



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Local & Global Interconnectedness: The Urbanization of Epidemics

- Cholera in Nairobi (2017)
- Ebola (2014 – 2016)
 - Previous outbreaks confined to small and remote areas
 - This outbreak reached 3 capital cities in W/Africa; then global
- H1N1 influenza (2009) – global; In China
 - 44% of traced close contacts of index cases were passengers on the same flight; 23% were at school or work; 6% were service person at a public place.
- Zika Virus (2015)??



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Urban Inequities

- High Gini coefficients in LMICs cities
- Reduced physical distance across SES groups
 - Mitigated by welfare in HICs
- Slum health – an increasingly key determinant of global health!

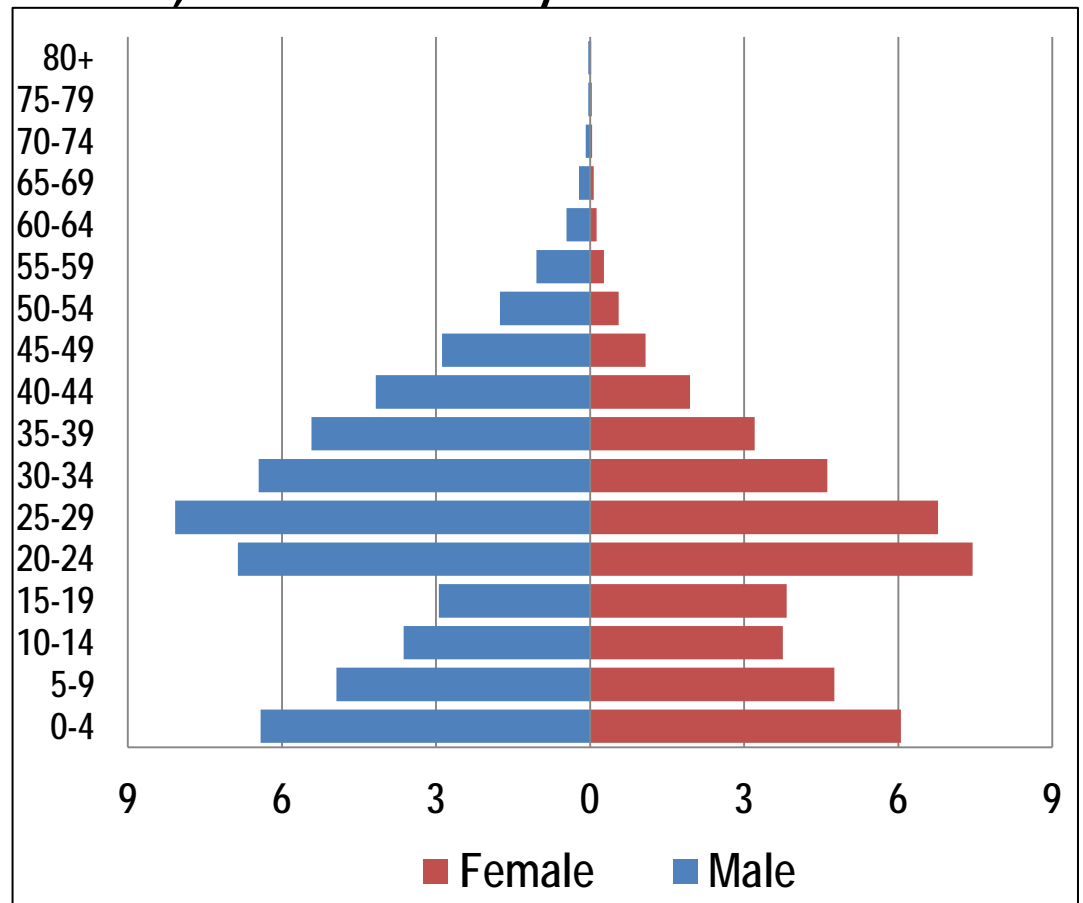


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Opportunities for Action

- Cost effectiveness of prevention and control efforts
 - Size of slum populations reached
 - Herd effect
- Significant Impact within a short period of time
- Thriving private sector
- Youth presence!

Population Pyramid – Viwandani Slum, Nairobi Kenya - 2016



**The slum is not a place of despair. It's
inhabitants are all working towards a better life**

Vikas Swarup



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Thank You



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