

Comments on *People on the Move*



Michael J. White
Department of Sociology
Population Studies and Training Center
Brown University

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Woodrow Wilson Center

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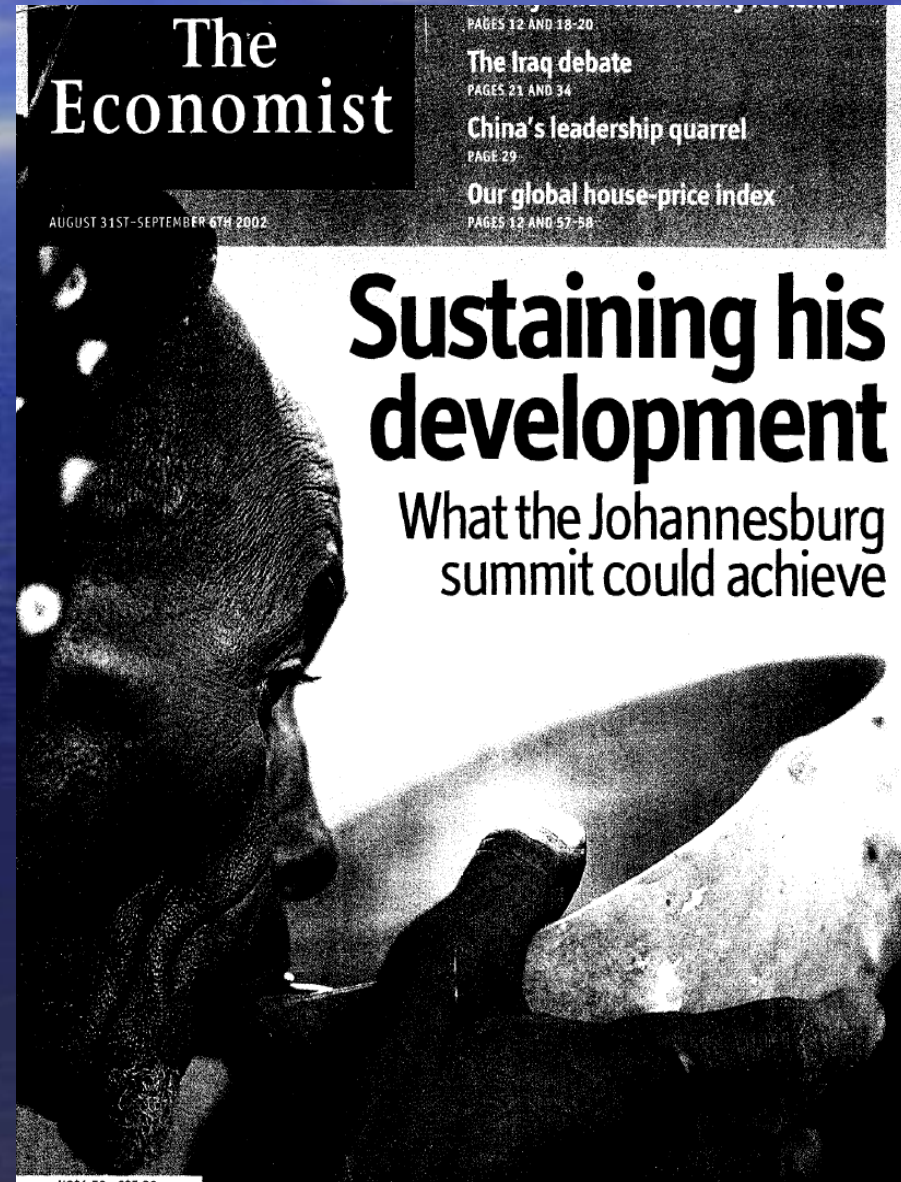
What to Take Away

- *People on the Move* is a clear step forward
 - Recognizes links
 - Shows concern for incentives
 - Attn to social institutions and security/strife
 - Calls on the conservation sector
- Embed “migration” into wider framework
 - Always migrants?
 - Unpack types of migration
 - Migration and econ betterment
- Public Policy can matter
- **Next steps: dig more deeply**

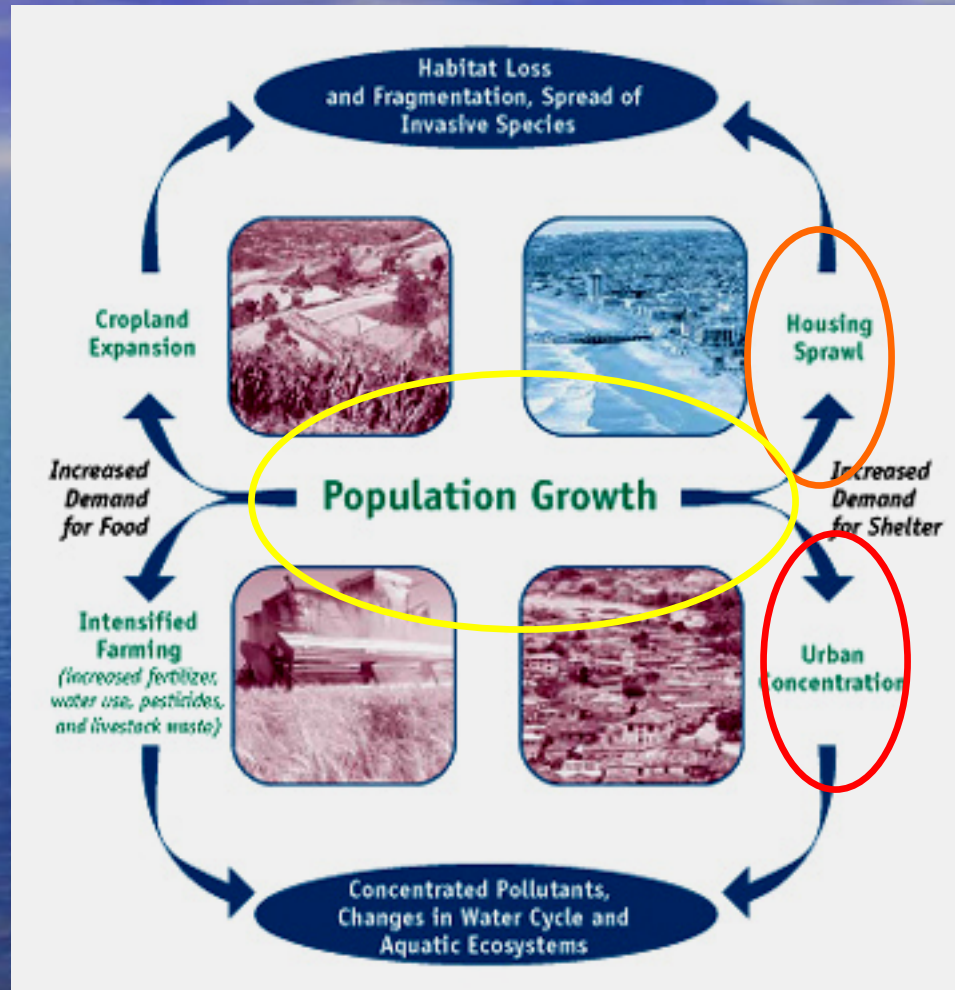
A Key Issue: Poor and Rich countries

Developing countries cannot reasonably be expected to restrict their future emissions without being assured of a fair allocation scheme **that will not impair their ability to develop.**

Science "Equity and Greenhouse Gas Responsibility" (Sept 2000)
emphasis added



Population Growth and Urbanization often seen as Deleterious

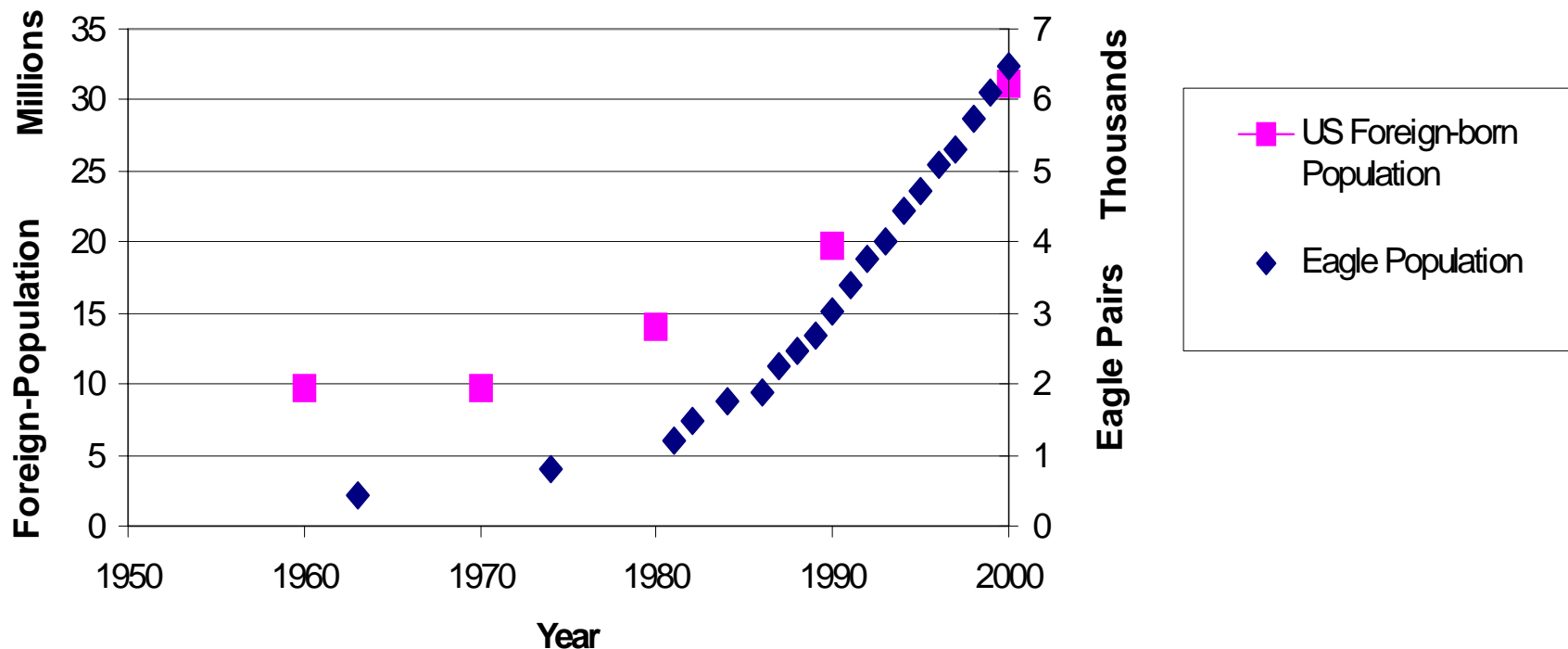


Cincotta, Richard and Robert Engleman. *Natures Place*. Washington, DC: Population Action International, 2000.

Demographic Reasoning?

As US (Human) Immigration has increased...
so has the US Bald Eagle Population...and !?

Foreign Population vs. Eagle Nesting Pairs



A simple comparison

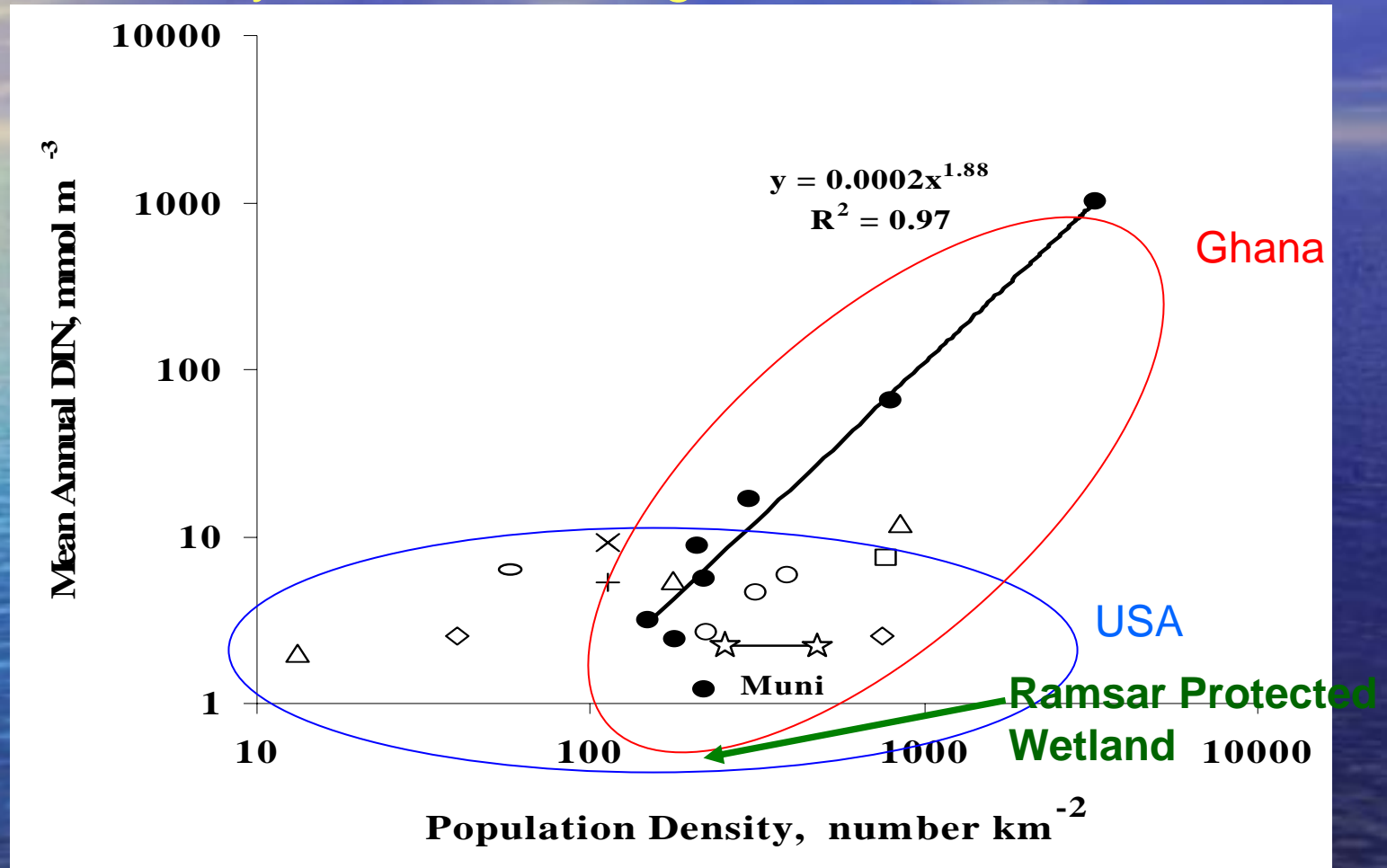
Ghana vs. Sub-Saharan Africa vs. UK

Source: PRB World Pop Data Sheet, 2004

Indicators	Ghana	SSA	UK
Total Population in 2000 (million)	22.0	752.0	60.1
Total Fertility Rate	4.4	5.6	1.7
GNI PPP per Capita (dollars)	2,280	1,830	31,460
Land Area (1000 sq mi)	92.1	9,379.0	94.5
Energy (Kg Oil Equiv percapita)	411.0	651.0	3,824.0

What about lagoons?

Population Density tied to Nutrient Concentration in Ghana, but clearly not in all settings: US (blue) vs. Ghana (red)



NB: Mean annual concentrations of dissolved inorganic nitrogen in the coastal lagoons of Ghana (solid circles) and some coastal lagoons on the Atlantic coast of the US (open symbols, X, and +) as a function of population density in the watershed.

Source: Nixon S., Buckley B., Granger S., White M., Entsua-Mensah, M., McKinney R. "Anthropogenic Enrichment and Nutrients In Some Tropical Lagoons Of Ghana, West Africa." *Ecological Applications* 17(2007): S144–S164.

The Future!

- Urbanization to continue worldwide, more noticeable in developing societies
- Migration to increase
 - International
 - Internal (across province, region borders)
- Consider alternative *paths*
- **Next steps: dig more deeply**