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Wealth, Natural Capital, and Sustainable Development: Contrasting Examples from Botswana and Namibia

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explicit policy of reinvestment of resource rents, has roughly tripled per capita wealth and national income over the past two decades. Namibia, with no explicit policy to use natural capita to build wealth, has seen per capita wealth and income decline.



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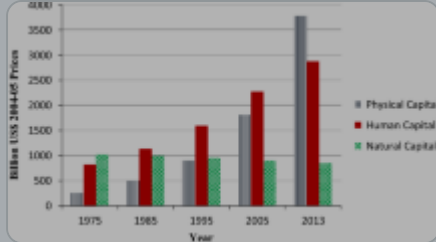
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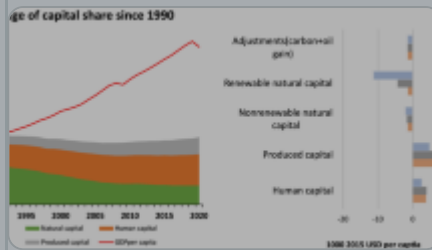
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Auty, R.M.(1993),*Sustaining Development in Mineral Economies:The Resource Curse Thesis*London: Routledge.

Auty, R.M.and R. Mikesell (1998),*Sustainable Development in Mineral Economies*.Oxford: Clarendon Press.

[Google Scholar](#)

Bank of Botswana (2001a),Annual Report 2000.Gaborone,Botswana.

Bank of Botswana (2001b),Unpublished Time Series of Net Foreign Financial Assets. Gaborone,Botswana.

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Uses in Ngamiland,Botswana ',Report to Conservation International,Washington,DC.

Barnes, J.and P. Lindeque (2003),'A Study to Value the Natural Asset Portfolio of the Ministry of Environment and Tourism (MET):Wildlife Stocks,Tourism Land,and Forests ',unpublished report to the Directorate of Environmental Affairs,Ministry of Tourism and Environment. Windhoek,Namibia.

[Google Scholar](#)

Bell, C.,S. Devarajan and H. Gersbach (2003),'The Long-Run Economic Impact of AIDS: Theory and an Application to South Africa '.World Bank paper (unpublished).Washington,DC: World Bank.

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Central Statistics Office (1998), 'National Accounts Statistics-Capital Stock.' Stats Brief No. 98/7, June, Gaborone, Botswana: CSO.

[Google Scholar](#)

Central Statistics Office (2000), Environment Statistics. Gaborone, Botswana: CSO.

[Google Scholar](#)

Central Statistics Office (2003), Population Census 2001, Gaborone, Botswana: CSO.

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Department of Mines (annual),Annual Report.Gaborone,Botswana:Ministry of Mines, Energy and Water Resources.

Food and Agriculture Organization (2002),'AIDS-a Threat to Rural Africa:Fact Sheet '. Rome: FAO.

[Google Scholar](#)

Green, J.,P. Akatu, M. Mfunwa, T. Poddar and S. Ding (2002),'Botswana:Selected Issues and Statistical Appendix '.IMF Country Report No.02/243

Gylfason, T.(1999),'Exports,Inflation and Growth '.*World Development* **27**(6),1031-1057.

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Heal, G. and B. Kristrom (2001) 'National Income and the Environment,' draft of a chapter forthcoming in T. Tietenberg and H. Folmer, eds., *International Yearbook of Environmental and Resource Economics*. Cheltenham, UK: Edward Elgar.

[Google Scholar](#)

International Monetary Fund (2001), *International Financial Statistics Yearbook*. Washington, DC: IMF.

[Google Scholar](#)

Kunte, A., K. Hamilton, J. Dixon and M. Clemens (1998), 'Estimating National Wealth: Methodology and Results'. Environment Department Papers, Environmental Economics Series No. 57, Washington, DC: World Bank.

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Environmental Affairs, Windhoek, Namibia, February 2003.

Lange, G., J. I. Barnes and J. Motinga (1998), 'Cattle Numbers, Herd Productivity, and Land Degradation in Namibia.' *Development Southern Africa* **15**(4), 555-572.

[Google Scholar](#)

Lange, G., R. Hassan and K. Hamilton (2003), *Environmental Accounting in Action: Case Studies from Southern Africa*. Cheltenham, UK: Edward Elgar Publishers.

[Google Scholar](#)

Lange, G. and M. Wright (2004), 'Sustainable Development in Mineral

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Pezzey, J.(1992),'Sustainable Development Concepts:An Economic Analysis'
'World Bank Environment Paper No.2.

Ryan, L.,R. Thomson and A. Sincock (2003),'Accounting for Subsoil Assets in the National Accounts.'Paper presented at the London Group Meeting,Rome,5-7 November.

Sachs, J.and A. Warner (2001),'The Curse of Natural Resources '*European Economic Review* **45**,827-838.

[Google Scholar](#)

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Solow, R.(2003)'Population Estimates and Projections:Data Online'.Retrieved from [http:// www.un.org/esa/population/unpop.htm](http://www.un.org/esa/population/unpop.htm) in January 2004.

United Nations,European Commission,International Monetary Fund,Organization for Economic Cooperation and Development,and World Bank (1993)System of National Accounts.New York: UN.

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World Bank (2002),World Development Report.Washington,DC: World Bank.

[Google Scholar](#)

World Bank (2003),World Development Indicators.EdStat online database
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