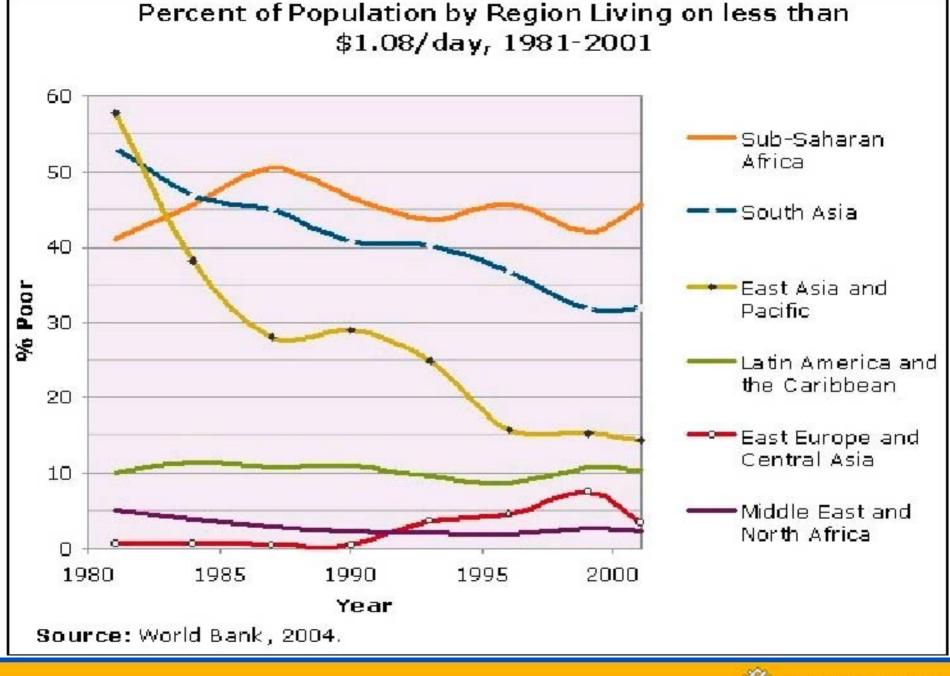
Poverty, Inequity, and the Distribution of Natural Resource Revenues in Africa

Peter Veit
Institutions and Governance Program

World Resources Institute

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Why Worry About Inequity?

- Inequity retards econ growth and can cause poverty and underdevelopment; equity promotes faster econ growth
- Constitutions guarantee basic right to life and broad-based national development
- Inequity (probably more than poverty) breeds resentment and can lead to violence and ultimately separatist movements

Civil Wars Linked to Resource Wealth: Africa, 1990-2002

STATE YEAR NATURAL R	<u>ESOURCE</u>
Angola 1975-2002 Oil, diamond	ls
Angola (Cabinda) 1975 Oil	
Congo, Rep. of 1997 Oil	
Congo, Dem. Rep. of 1996- Copper, gold diamonds, co	l, cobalt, oltan
Liberia 1989-96 Timber, iron, diamonds, ru	, rubber, gold, ubber
Morocco 1975- Oil, phospha	ites
Sierra Leone 1991-2000 Diamonds	
Sudan 1983-2005? Oil	



Inequity by Region

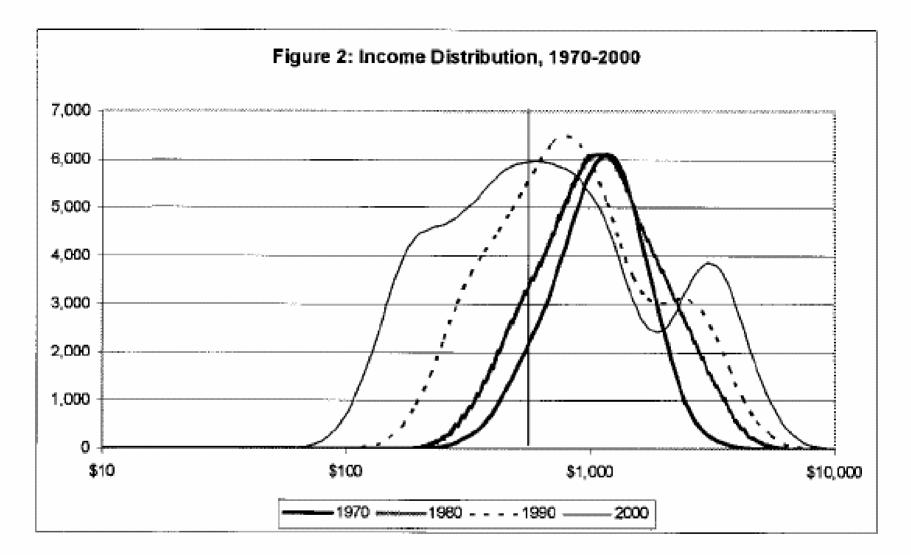
Gini Index Range	Numbe							
60-100				6				
50-59.9				7		5	5	1
40-49.9	8	1	2	9	1	5	6	
30-39.9	14	19	7	7	1	1		2
0-29.9	3	15		1				
	Asia	Europe	Mid East/N Africa	Sub- Saharan Africa	North America	CA & Caribbean	South America	Oceana

Regon of the World

Source: 2004 Human Development Report, UNDP

Inequity by Population Group Gini Coefficient, South Africa

Ethnic Group	1991	1996	2001	
African	62	66	72	
White	46	50	60	
Coloured	52	56	64	
Asian	49	52	60	
Total	68	69	77	



Source: Authors' calculations based on Sala-i-Martin (2003)

Addressing Poverty with High Inequity: The Case for Distribution

- Econ policy reforms are conducive to reductions in poverty, econ growth is a necessary, but insufficient condition
- Location (infrastructure, education) and access (finances, land) matter. In their absence, the poor cannot benefit from new economic opportunities, increasing inequity
- Distribution, especially of assets, to the poor, coupled with intensified growth in the sectors in which they engage can speed up their participation in the growth process

Addressing Poverty with High Inequity cont'd

- Distribution is more effective than econ growth in reducing poverty in high inequality countries and in the least developed countries. Small changes in distribution can have a large effect on poverty reduction.
- Multiple targeting methods for poverty reduction.
 Using more methods produces provides better targeting; implementation matters to outcomes.

Goal and Objectives

Goal. Increase efficiency of econ growth and maximize the reduction in poverty by use of distribution strategy of natural resource assets, especially in countries with high inequity.

Objectives

- Increase the assets of the poor and their opportunities for high returns to these assets so that they can participate in the econ opportunities
- Poverty is a primary criteria in establishing distributions; poor people are targeted in the distribution of public resources
- In resource-dependent economies, poor people capture a disproportionately large share of natural resource revenues

Why Focus on Natural Resource Assets?

- Large, underutilized environmental endowments
- National and household economies driven by natural resources; rural poor most dependent on nature
- Natural resources not evenly distributed in space and not equally accessible to all
- Easier to distribute natural resource assets than other forms of capital
- If not managed well, can lead to poverty, inequity, environmental degradation, unsustainable development

Resource Dependency, 1995 Mineral Dependency Oil Dependency

Rank State	% GDP	Rank State	% GDP
1. Botswana	35.1	1. Angola	68.5
2. Sierra Leone	28.9	6. Congo, Rep. of	40.9
3. Zambia	26.1	7. Nigeria	39.9
5. Mauritania	18.4	9. Gabon	36.1
8. <i>Liberia</i>	12.5	12. <i>Algeria</i>	23.5
9. Niger	12.2	14. Libya	19.8
11. Guinea	11.8		
12. Congo, Dem. Rep. of	7.0	Chad, Equatorial Guin	ea,
15. Togo	5.1	Congo Dem Rep of,	
16. Central African Rep.	4.8	Uganda, Tanzania?	
18. Ghana	4.6		
20. <i>Angola</i>	3.6		



Households' Total Income Shares by Quintile and by Major Income Source

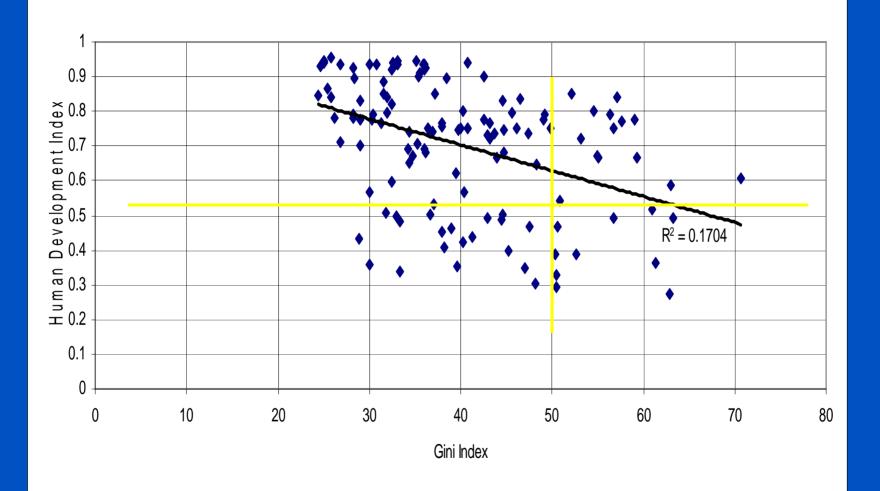
Rural
Households
and their
dependence on
Environmental
Resources (A
Case Study of
Zimbabwe)

_	96/97 Panel Household Quintile					
	Lowest	20% to	40% to	60% to	Top	All Panel
1996/97 Data	20%	40%	60%	80%	20%	Households
Total Cash Income (Excl. Env. Cash Income)	23.59	27.86	35.28	37.36	47.37	34.27
- Crop Income	2.73	2.88	4.57	4.84	6.71	4.34
- Livestock Income	5.33	4.90	3.49	5.50	7.70	5.38
- Unskilled Labour Income	3.48	1.74	1.68	1.16	0.28	1.67
- Skilled Labour Income (Teaching)	0.00	0.00	0.00	0.00	3.95	0.78
 Crafts and Small-Scale Enterprises 	2.60	3.09	4.70	5.42	1.86	3.54
- Remittances	9.46	15.24	20.83	20.44	26.87	18.56
Total Net Gifts/Transfers	4.04	2.00	3.59	5.32	1.92	3.38
Total Own Produced Goods	28.53	28.18	25.55	24.38	20.72	25.48
- Consumption of Own Produced Goods	24.60	23.24	21.55	20.61	17.45	21.50
- Input Use of Own Produced Goods	3.94	4.94	4.00	3.77	3.27	3.99
Total Environmental Income	43.83	41.96	35.59	32.93	29.99	36.87
- Gold Panning	3.88	5.89	2.58	1.88	1.74	3.20
 Natural Habitat Utilization Cash Income 	8.85	8.13	3.72	4.78	1.60	5.43
- Consumption of Own Collected Wild Foods	6.83	5.48	4.01	3.44	2.66	4.48
- Consumption of Own Collected Firewood	12.00	9.27	8.37	6.58	4.66	8.17
- Consumption of Own Collected Wild Goods	1.49	0.87	0.66	0.48	0.57	0.81
- Use of Environmental Goods for Housing	4.06	3.11	3.10	1.53	1.13	2.59
 Use of Environmental Goods for Fertilizer 	0.64	1.01	0.26	0.28	0.39	0.52
- Livestock Browse/Graze of Environmental Resources	6.09	8.18	12.88	13.96	17.24	11.66
Total Income	100.00	100.00	100.00	100.00	100.00	100.00

- ■Environmental Income makes a substantial contribution to total incomes, comprising 36.87 percent
- The share of aggregate environmental income decreases as income rises, therefore, the poor are more resource-dependent than the rich

Source: Cavendish 1999

Human Development and the Gini Index



Source: 2004 Human Development Report, UNDP

Two Components of Distributional Equity

Vertical Distribution. The distribution of revenue among institutions along the market chain from the source to the market

<u>Problem</u>: Policies and practices ensure that benefits are concentrated and captured by the elite

Goal: Raise the return of the poor's natural resource assets and enable them to capture a larger share of profits as direct income

Horizontal Distribution. The distribution of public revenues, including public goods/services, across regions and peoples

Problem: Poverty not a main distribution criterion

Goal: Target poor people and regions; rural poor receive a larger share of public assets



Vertical Dist - Charcoal Profits, Senegal

Urban population	1994	2002/3	
Retailers	12%		?
	1270		
Urban wholesalers	22%		?
Transporters	-		-
Coxeur de Brousse	_		_
Co-operatives			
Merchants/	53%		
Patrons	JJ /6		+
Migrant Wood-cutters	10%		=
Forest Villages	3%		?

Mechanisms of Benefit Concentration

- VILLAGERS
 - → Forest access control
 - → Threats of violence
 - → Village access (wells & housing)

MERCHANTS

- → Control of labor opportunities
 - → Permits
 - → Credit
 - → Control of market access
- → Control of access to markets
 - → Quotas, licenses
 - → Cooperative membership
 - → Social ties with government
- → Leverage over prices
 - → Collusive price fixing
 - → Inter-locking credit-labor arrangements
 - → Misinformation

WOODCUTTERS

- → Access to merchants
 - → Social ties → Social identity
 - → Technical skills

WHOLESALERS

- → Control of distribution
 - → Credit Arrangements/Capital
 - → Knowledge of demand
 - → Social ties with vendors & merchants

RETAILERS

- → Maintenance of access to wholesalers
 - → Manipulation of Weight
 - → Management plans
 - → RC right to say no
 - → RC labor allocation
 - → Access to RC

Horizontal Distribution

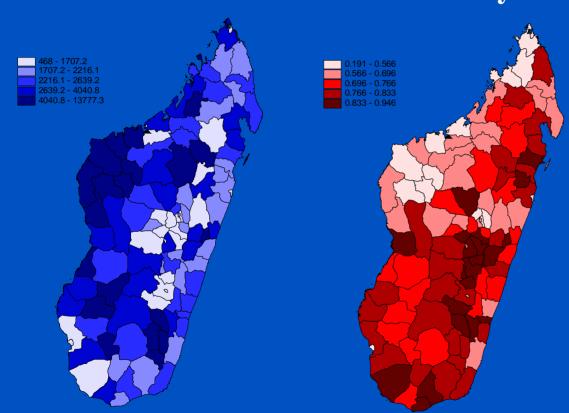
Inter-Jurisdictional Equity. Distributional equity across districts and other sub-divisions within a nation

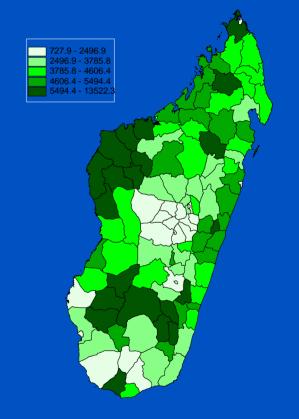
- A central government responsibility and a function of the willingness of the state to engage in distributive justice among regions
- 3 common disbursement mechanisms
 - Central government public/social services
 - Central government transfers to local levels
 - Central government direct disbursements to citizens



Central Government Public Services and the Poor: Madagascar

District Poverty Incidence





p.c. health to districts

p.c. edu to districts

Central Gov't Transfers to Local Level: Kenya

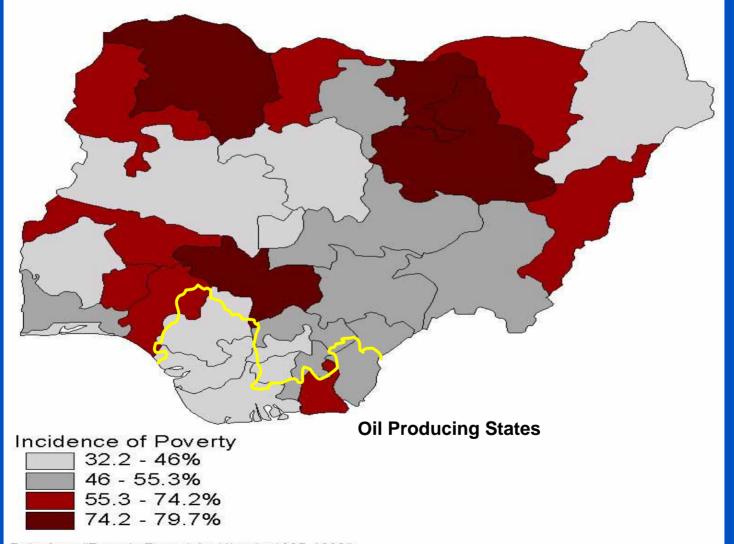
171 Local Authorities (County Councils)

- Local Authority Transfer Fund. 0.5-5M Ksh; development needs
- LA Service Delivery Action Plan. 0.5-5M Ksh; recurring costs

210 Constituencies

- Constituency Development Fund. 0.5% of national budget. 20M
 Ksh to each constituency (85% of fund); remaining 15% by poverty
- Constituency Bursary Fund. Small amounts, disbursement now based on student enrollment and level of poverty
- Constituency HIV/AIDS Fund. Small amounts, competitive

Nigeria
Incidence of Poverty -1996



Data from "Poverty Report for Nigeria 1985-1996" Federal Office of Statistics, Nigeria -1998

Oil Export Revenue, Returned Revenue, Poverty Rates: by Percent, 1958-2004

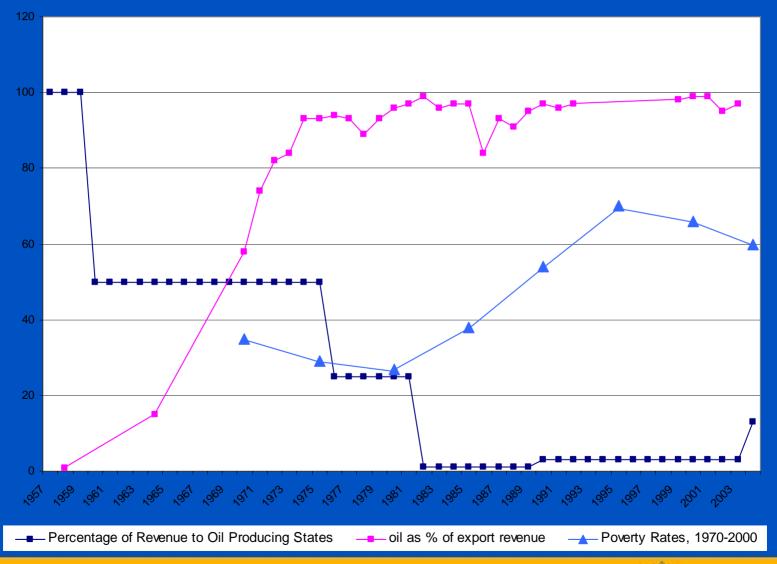
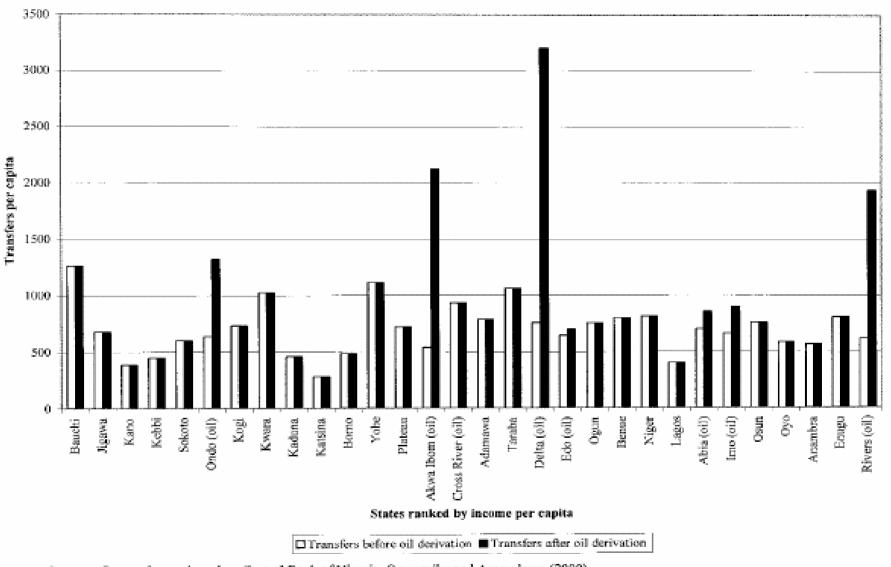
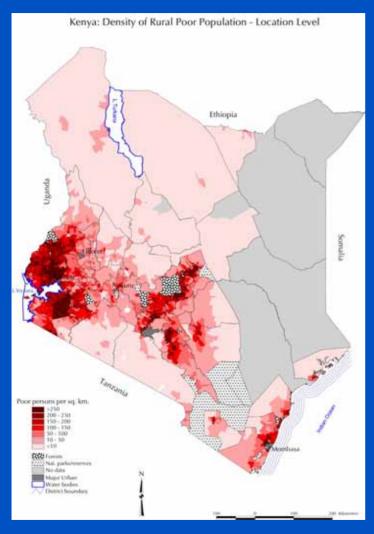


Figure 6. Nigeria: Federation Transfers and Oil Derivation (Per capita, in naira)

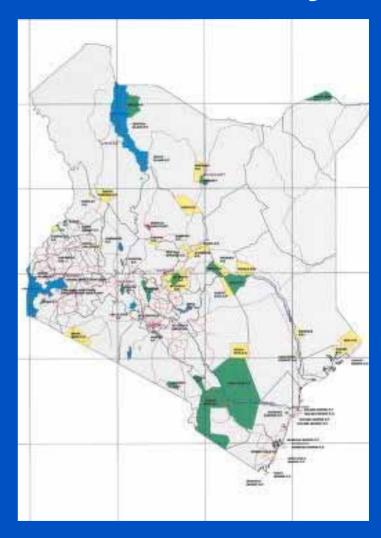


Sources: Own estimates based on Central Bank of Nigeria, Ogwumike and Aromolaran (2000). Note: The sample includes only 30 states, as income per capita income could not be estimated for 6 of them.

Poverty and Protected Areas, Kenya



Density of Rural Poor Populations



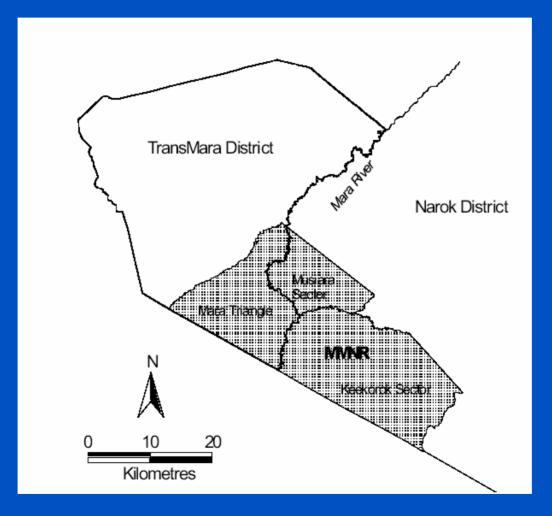
Location of Protected Areas

Horizontal Distribution

Intra-Jurisdictional Equity. Distributional equity across peoples and communities within levels of public administration below central government

- Assumed to be function of decentralization local authorities are thought to be more effective at identifying and reaching the poor than the central state
- Evidence that responsiveness to the poor is a rare outcome of decentralization; pro-poor practices at the local level are mainly associated with strong central govt commitments

Intra-Jurisdictional Equity: Maasai Mara Game Reserve, Kenya



Key Issues

- Different distribution criteria (derivation, poverty, population, recurring costs) generate unique incentives with specific outcomes (environmental mgmnt, poverty reduction). Mix of criteria to meet multiple objectives (principles of fairness)?
- Which distribution mechanisms (CG public services, CG transfer, disbursements to citizens) is most effective in poverty reduction and sound environmental management?
- Measures for promoting distribution equity in undemocratic countries (FPIC, Publish What You Pay)
- Transboundary distributional equity. Are there principles of fairness across nations? Should they be driven by poverty levels?

In this new century, millions of people in the world's poorest countries remain imprisoned, enslaved and in chains. They are trapped in the prison of poverty. It is time to set them free.

-Nelson Mandela, 3 February 2005, preceding G7 finance ministers meeting

Thank you!