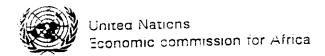
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The 1999 Economic Sustainability and Policy Stance Indices

By Mr. Benjamin Linkow

I. Overail Conception

- The ECA's Economic Report on Africa 1999 introduces three new composite economic indicators: the Economic Sustainability Index (ESI), the Economic Policy Stance Index (EPSI), and the Annual Performance Trend Index (APTI). The Economic Sustainability Index is designed to measure long-term economic prospects, while the Economic Policy Stance Index evaluates policy effectiveness. The Annual Performance Trend Index is constructed as a simple, single-year measure of economic performance with respect to particular countries improvement or decline relative to the previous year. The purpose of this paper is to give a more detailed accounting of these indicators than that which appeared in the Economic Report, and to elicit comments and suggestions for refinement of the indices for use in future applications.
- 2. The paper that follows is organized into four sections. Section I discusses the conceptualization of the indices, and puts them into perspective with regards to the current literature. Section II elaborates on the methodology and results of the initial application of the indices. Section III discusses proposed improvements for future versions of the composite indices, and Section IV offers some brief conclusions.
- 3. A number of previous attempts at the construction of composite indices evaluating various economic criteria have been made. However, the ECA's composite indices represent a departure from such previous efforts on a number of levels. The Economic Sustainability Index is both comprehensive and broad in focus. Other composite indices tend to be one or the other, but not both. For example, the UNDP's Human Development Index is broad in focus, as it seeks to measure overall well-being, but it is comprised of only three indicators. Conversely, HIID's Africa Competitiveness Index is comprehensive, as it is derived from surveys covering a large number of variables. However, it seeks to measure only the business climate in a sample of African countries. In contrast to these examples, the Economic Sustainability Index is both comprehensive and broad in focus. In its current form, it aggregates 24 four variables into a single index, with significantly more variables to be added in future applications. Additionally, the ESI seeks to measure overall long-term economic prospects. Thus, rather than opting for the methodological simplicity of the Human Development Index or the narrower focus of the Africa Competitiveness Index, the Economic Sustainability Index chooses a more ambitious approach.
- 4. The Economic Policy Stance Index also represents a departure from existing measures. Unlike previous attempts, such as that made in the World Bank's Adjustment in Africa publication, it clearly separates policy and performance. Given the vulnerability of African economies to factors which are beyond the influence of economic policy, such as external shocks, civil strife, drought, etc., such a separation between policies themseives and the areas which the policies are intended to affect is necessary. Thus, for instance, trade policies are evaluated on the basis of criteria such as the absence of tariff levels and quotas, and customs procedures, rather than on the basis of export performance, which is often strongly affected by non-policy factors. In making this separation, it is thus possible not only to evaluate policy in a more robust fashion, but also to gain insight into the extent to which policymakers can exert influence over economic conditions.
- 5. The Annual Performance Trend Index is an effort to produce a simple, easily understood single indicator which takes into account the key measures of economic performance. There can be little doubt that the broad goals of an economy are increased output, price stability, and a sustainable balance of payments, as well as full employment and poverty eradication (Soludo 1998). The APTI is intended to reflect improvement or decline only from the previous year, so that a country that is performing well and continues to perform well will score lower than a poorly performing country which has made significant improvements. Thus, this indicator should thus be seen as a short-term indication of the direction in which a particular economy is moving.

San Laura Lauralte on Soludo (1998)

II. Methodology, Results, and Analysis

2.1. Economic Sustainability Index

- 6. The sustainability index is an aggregate of five separate category indices: human capital development, structural diversity, dependency, transaction costs, and macroeconomic sustainability. Each of these categories consists of between three and six variables, with each variable assigned a score from one to ten. The procedures for determining the scores are detailed below, with an example provided for each step to ease understanding.
 - (1) For each variable, the three best performers among the African countries are averaged to find the "best practices" benchmark. Countries with populations under one million are excluded from this calculation. The "best practices" benchmark is then set as a score of seven to reflect the observation that by most criteria, even the best performing African countries could improve significantly.

Ex. For the adult illiteracy variable in the Human Capital Development category, the top three performers are Zimbabwe, Mauritius, and South Africa, at 15%, 17%, and 18% respectively. Since none of these countries have populations in below of one million, all three are used in the calculation. The average of 16.7% is thus set as the "best practices" benchmark and is given a score of seven.

(2) Next, the mean and standard deviation for each variable is calculated. If the presence of outliers or skewing of the distribution causes the standard deviation to be very high relative to the mean, then the distribution is logarithmically transformed. One-half standard deviations of either the original distribution or the logarithmic transformation of the distribution are then used as the boundaries between the scores. The "best practices" benchmark is set at the midpoint of the range spanning a score of seven (i.e., the benchmark plus or minus one-quarter of a standard deviation equals a score of seven), and the scores are assigned such that half-standard deviations in either direction represent the boundaries for further scores.

Ex. Continuing with the previous example, the mean and standard deviation of the distribution of the adult illiteracy rates has a mean of 44.4 and a standard deviation of 18.4. Since the standard deviation is fairly low, no logarithmic transformation is needed. Since the benchmark in this case was 16.7, and one-quarter of a standard deviation is equal to 4.6, countries with illiteracy rates between 12.1% and 21.3% are assigned a score of 7. A score of 6 would correspond to an illiteracy rate between 21.3% and 30.5%, as 21.3% plus one half of a standard deviation (9.2) is equal to 30.5%. For further scores, each additional 9.6% results in a deduction of one point, so that scoring for this indicator is as follows:

Range	>69	60-69	50-59	41-49	31-40	22-30	13-21	3-12	প	n/a
Score	i	2	3	4	5	6	7	8	9	10

Thus, for example, Liberia's illiteracy rate of 62% falls between 59.3% and 68.9%, garnering a score of 2.

The scores for the variables that comprise each of the five categories are then averaged to find the category scores for human capital development, dependency, macroeconomic sustainability, transaction costs, and structural diversity for each

country. If data is not available for all of the variables in a category for a particular country, the category score is computed as the average of the available scores. However, if data is unavailable for more than half of the variables which comprise a particular category, then the country does not receive a score for that category, unless data is available for at least three of the variables in a category. Finally, the category scores are averaged to find the Economic Sustainability Index; countries that did not receive scores for at least three of the five categories were omitted.

Ex. In the Human Capital Development category, Botswana received a 5 for adult illiteracy, a 7 for gross enrolment ratio, a 3 for natural and applied sciences as percentage of tertiary enrolment, a 6 for both percentage of population with access to safe water and population per hospital bed. Data for R&D scientists and technicians per 1,000 people and doctors per 100,000 people were unavailable. Since data was available for at least half of the indicators comprising the category, Botswana receives a score in the Human Capital Development category. This score is equal to 5.40, the average of the scores for the five variables above. Botswana scored 6.5 in the Dependency category, and 6.00 in the Macroeconomic Sustainability category. The country did not receive scores for the Transaction Costs or Structural Diversity categories, as data was unavailable. The average of the three category scores is 5.97, which is Botswana's overall score for the Economic Sustainability Index.

The country-by-country results are displayed in table I below. Five countries were excluded due to insufficient data. In the way of common features among the highest and lowest scorers, we note that rive of the top six countries (Equatorial Guinea, South Africa, Botswana, Tunisia, and Egypt) all enjoy a high level of resource endowment. At the bottom of the rankings, countries with a history of conflict predominate as Sierra Leone, Niger, Benin, Uganda, Central Africa Republic, and Rwanda comprise the six lowest scorers.

Table 1: 1998 Economic Sustainability Index Country Scores and Rankings

<u> </u>	ESI	Rank	Country	ĒSI	Rank	Country	ESI	Rank
Country		Naiik	Congo Rep.	3.53	17	Gambia	2.96	33
Equat. Guinea	6.06	! !				Burkina Faso	2.93	34
South Africa	6.04	1 2	Sudan	<u>3.52</u>	- 18			
3otswana	5.97	3	Cote D'Ivoire	<u> </u>	19	Mozambique	2.92	35
\!auriuus	5.08	4	Senegai	3.36	20	Ethiopia	2.91	36
Tunista	4.91	5	Cape Verde	3.33	21	Malawi	2.90	37
Egypt	4.74	6	Guinea Bissau	3.27	22	Madagascar	2.87	38
Zimbabwe	4.43	$\frac{3}{7}$	Congo D.R.	3.25	23	Guinea	2.79	39
Lesotho	4.42	3	Zambia	3.23	24	Chad	2.75	40
\.lorocco	+.29	9	Djibouu	3.23	25	:ogo	2.72	41
Algeria	4.23	10	Ghana	3.18	26	Mauritania	2.65	42
Seveneties	4.13	11	Nigena	3.17	27	∪ganda	2.50	43
Japon	1.04	12	Tanzania	3.17	- 28	Rwanda	2.44	44
waziland	3.83	13	Angoia	3.07	29	Cent.A.R.	2.42	45
Kenva	3.80	14	Burunai	3.03	30	Benin	2.40	46
Vamibia	3.56	15	Comoros	3.00	31	Niger	2.03	47
Cameroon	3.54	16	Mali	3.00	32	Sierra Leone	2.00	48

Figure 1: Frequency Distribution of 1999 Economic Sustainability Index Scores



3. Another notable feature of the scores is the disparity between the top scorers and the rest of the group. Figure 1 shows a reasonably smooth, normal distribution of scores, with the exception of the top three countries. Equatorial Guinea, South Africa, and Botswana, with an average score of 6.02, greatly exceed the rest of the countries' average of 3.31. Additionally, the average of these three countries' scores is not far from the "best practices" benchmark score of seven. This suggests that these three countries tend to consistently outperform the rest of Africa in terms of the variables used to compute the economic sustainability index.

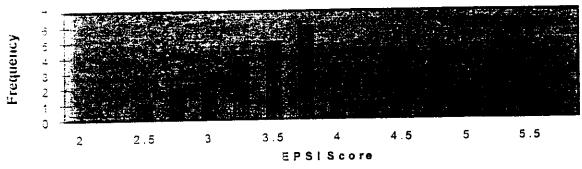
2.2. Economic Policy Stance Index

- 9. The initial implementation of the economic policy stance index was in an extremely limited form, as it was limited to those variables which are quantifiable. Accordingly, the index was limited to the two categories of monetary policy and fiscai policy, consisting of 3 and 4 variables respectively. The scores were determined using the same procedures as in the Economic Sustainability Index, as the average of the three best performing countries was set at seven, and further scores were determined by one-half standard deviations (see section 2.1 above for details).
- 10. Scores were obtained for 33 of the 53 African countries. Table 2 below shows the scores and country rankings for the 1998 Economic Policy Stance Index. As was the case for the Economic Sustainability Index, the bottom of the rankings is dominated by countries with a history of conflict (Sierra Leone, Guinea-Bissau, Rwanda, Mozambique). At the top of the rankings, it is notable that four of the five highest scorers (Ethiopia, Egypt, Seychelles, and South Africa) garner relatively high approval ratings from the World Bank.

Table 2: 1998 Economic Policy Stance Country Scores and Rankings

Country	EPSI	Rank	Country	EPSI	Rank	Country	EPSI	Rank
Seychelles	5.33	1	Gambia	3.92	12	Nigeria	3.33	22
South Africa	5.29	2	Namibia	3.75	13	Cameroon	3.25	24
Congo Rep.	4.88	3	Zambia	3.75	13	Senegai	3.25	24
Ethiopia	4.83	4	Zimbabwe	3.75	13	Sao T. & Pr.	3.21	26
Egypt	4.75	5	Swaziland	3.71	16	Chad	3.17	27
Guinea	4.58	6	Lesotho	3.58	17	Mozambique	3.00	28
Equat. Guinea	4.42	7	Tanzania	3.58	17	Guinea Bissau	2.96	29
Kenya	4.42	7	Morocco	3.50	19	Madagascar	2.79	30
Gabon	4.38	9	Uganda	3.50	19	Rwanda	2.75	31
Botswana	4.33	10	Cent.A.R.	3.42	21	Malawi	2.58	32
Mauritius	4.04	11	Cape Verde	3.33	22	Sierra Leone	2.29	33





In The distribution of the scoring, as shown in figure 2, reveals that as in the Economic Sustainability Index, the majority of the scores are iow, with a small group of countries obtaining higher scores. However, the difference between the high and low scorers is not nearly as pronounced as in the previous case. This is interesting, as given the smaller number of variables used to compute the policy stance index, one would expect greater variance than in the sustainability index. In contrast to the sustainability index, the average score of the three highest scorers (Seychelles, South Africa, and the Republic of Congo) is 5.17, well below the benchmark of seven. The conclusion that can be drawn is that rather than a few countries consistently setting the standard for performance, as was the case in the sustainability index, the best performers in one policy area may perform poorly in others.

2.3 Annual Performance Trend Index

12. The 1998 Annual Performance Trend Index was computed using three measures of change in 1998: change in output per head (i.e., per capita GDP growth), change in the rate of inflation, and change in the current account balance as percentage of GDP. For each variable, countries are assigned scores between -10 and +10. The scores are determined as follows:

(1) For each variable, no change is set at a score of zero. For change in per capita output and inflation, scores of plus and minus 10 are set at plus and minus two standard deviations of the distributions respectively. For the change in current account balance, plus and minus 10 correspond to plus and minus three standard deviations of the distribution. Equal intervals are used to determine further scores.

Ex. The standard deviation of the distribution of per capita GDP growth rates was 2.97. Therefore, a growth rate of 5.94% (twice the standard deviation of 2.97) garners a score of ten, while a growth rate of -5.94% receives a minus 10. Equal intervals between the scores correspond to 0.59% per capita GDP growth per point, so that a country with a per capita GDP growth rate of 0.59% receives a score of 1, a 1.18% growth rate receives a 2, etc.

The scores are then weighted so that change in per capita output accounts for half of the final score, while change in current account balance and change inflation account for one-quarter of the final score each.

Ex. In 1998, Cameroon's per capita GDP grew by 2.4%, earning a score of +3.9, its

account balance worsened by 1.1% of GDP for a score of -1. Cameroon's final score is thus $(1/2 \times 3.9) + (1/4 \times 0.6) + (1/4 \times -1.0) = +1.7$.

13. The scores and country rankings are displayed in table 3 below. Three countries were excluded due to lack of data. Of the top scoring countries, it is notable that most benefited from temporary or external conditions in 1998, such as oil discovery, favorable agricultural conditions, or the cessation of civil unrest. The countries that received high negative scores tended to suffer from falling oil prices, or damaging conflicts.

Table 3: 1998 Annual Performance Tren	d Index Country Scores and Rankings
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Country	APTI	Rank	Country	APTI	Rank	Country	APTI	Rank
Equat. Guinea	6.4	1	Tunisia	2	18	Niger	-0.1	35
Mauritius	4.6	2	Namioia	1.8	20	Madagascur	-0.3	36
Congo Rep.	4.5	3	Senegai	1.8	19	Angola	-0.5	37
Sudan	4.1	. 4	Cameroon	1.7	22	Algena	-0.8	38
Guinea	3.7	5	Gambia	1.7	23	South Africa	-0.8	39
Morocco	3.4	6	Ghana	1.7	21	Gabon	-1.4	40
Chad	3.3	3	Botswana	1.5	24	Swaziland	-1.8	41
Cote D'Ivoire	3.3	7	Sao T. &	1.5	25	Ethiopia	-2.3	42
Guinea Bissau	3.3	9	Benin	1.4	26	Djibouti	-2.4	43
Egypt	2.9	10	_esotho	1.4	27	Malawi	-2.5	44
Burkina Faso	2.7	12	Uganda	0.8	28	Comoros	-3	45
Togo	2.7	11	Zambia	0.8	30	Sierra Leone	-3.1	46
CenLA.R.	2.2	13	Zimbabwe	0.8	29	Nigeria	-3.3	47
Mali	2.1	14	\enya	0.6	31	Libya	-3.4	48
Тапхапіа	2.1	15	Cape Verde	0.4	32	Seychelies	-3.9	49
Burundi	2	16	Mauritania	0	33	Rwanda	-4.1	50
Mozambique	2	17	Congo D.R.	-0.1	34			

14. Closer scrutinization of the scores reveals that though African economic performance in 1998 provides some grounds for optimism, overall performance in the year was far from exemplary. Although 32 of the 50 countries received positive scores, indicating improvement in the year, many of the more populous African countries backslid in 1998, while progress was led by the North African subregion. The 17 countries which received negative scores account for 49.6% of the African population, while the aggregate score for the continent was a modest +0.21, with an alarming -0.37 for sub-Saharan Africa.

2.4 Correlations with other indices

15. Having obtained scores for the 1998 Economic Sustainability, Policy Stance, and Annual Performance Trend Indices, we now examine the relationship between the ECA's composite indices and other selected indicators. To this end, we employ correlation analysis to determine what links, if any, exist between our indices and the following existing composite indicators: HIID's Africa Competitiveness Index, the UNDP's Human Development and Human Poverty Indices, Institutional Investor's Country Risk Ratings, and Transparency International's Corruption Perception Index. Additionally, we examine the correlation between the ECA indices and per capita income.

Table 4: Spearman (Rank) Correlation Coefficients

	:	ESI]PSI	?er ∈ ар. GDP 19 98	iDI 1995	.IPI 1995	.1CI 1998	RISK 1998	CORRUP- TION 1998
- <u>-</u> SI		 -	+ 3.4	50	9.61	0.60	0.45	0.54	0.36
E.PSI		0.34		1.30	ý 25	ე.20	0.21*	9.10*	0.15*
31		0.03₹	0.03 €	00*	··.00*	9.01*	0.30	0.01*	0.04*

ste: (*) indicate that the coefficients are statistically insignificant at 5 percent. The rest of the coefficients are statistically expurise at a percent.

16. Table 3 above displays the Spearman Rank correlation coefficients between the variables. The Economic Sustainability Index shows moderate-to-high, statistically significant correlation with all of the other variables. This implies that investment in long term sustainability is linked to improved standards of living, reduced poverty and corruption, and an environment more conducive to investment. The Economic Policy Stance Index shows significant correlation with the sustainability, competitiveness, and human development indices, suggesting that policy improvements lead to improvements in these areas as well. It is difficult to draw conclusions from the observed correlations between per capita income and the policy and sustainability indicators. Clearly, good performance in the areas of policy and sustainability should lead to rising levels of income; however, it is also to be expected that higher incomes would lead to investment in these areas as well. Thus, it is impossible to determine which exerts a stronger effect on the other. The lack of correlation between the Annual Performance Trend Index and the other indices highlights the difficulty in assessing the overall health of an economy based on its performance in a single year.

III. Proposed Improvements

- 17. Significant refinement is planned for future applications of the composite indicators discussed above, which are to become a regular feature in ECA's annual Economic Report on Africa. The following section discusses planned and proposed improvements for the Economic Sustainability, Economic Policy Stance, and Annual Performance Trend Indices.
- 18. Next year's Economic Sustainability Index will be revised in a number of ways. Most importantly, significant amount of additional data will be collected, particularly in the area of infrastructural development under the transactions costs category. Much of this data will be unavailable from other sources. Appendix Table i provides a complete list of the data of which the sustainability index will ultimately be comprised.
- 19. Secondly, additional categories are planned. In any measure of long-term economic sustainability, the role of the environment must be accounted for. Thus, a new category covering natural resource depletion, pollution, and other environmental factors will be included. A planned category accounting for market and institutional development was not implemented due to data constraints. This category will include measures of the formalization of the economy, as well as the effectiveness of property rights. A final area of importance which was not included in the index is that of regional integration. It is the position of the ECA that strengthening economic ties on a regional basis is a crucial element of long-term development. However, the extent of a particular country's "regionalization" is difficult to measure. If some basis for evaluating countries in this regard can be established, an additional category will be added.
- 10. Finally, changes are planned with regards to the manner in which the variables are aggregated. In the original formulation, no weighting scheme was used, as there is little theoretical guidance on the subject. However, future versions of the index will include some attempt to ensure that more important variables are given more influence than less important ones. Additionally, some of the more volatile variables may be considered on the basis of three-to-five year averages, in order to smooth out

the effects of single-year "spike" aberrations. Lastly, certain variables may be evaluated on the basis of level rather than change.

21. In order to assess how some of these changes will improve the Economic Sustainability Index, we consider the case of the top scoring country, Equatorial Guinea. This is perhaps the most curious result of the exercise: though the Equatoguinean economy has made great strides in recent years, few would argue that it has the best prospects for long-term development in all of Africa. Table 4 displays the composition of Equatorial Guinea's final score of 6.06. The influence of two factors explains the inflated score: first, data was insufficient to obtain a score for the Structural Diversification Index. Given that the recent growth explosion in the country is due almost entirely to oil exports, one would expect a poor score in this category. Improved data collection will correct this problem. Second, the score of 10 in the category of Macroeconomic Sustainability is surprising. Table 4 shows that this score results from scores of 10 in both investment and export growth, with no score recorded for savings. The aforementioned oil boom accounts for the fact that investment in Equatorial Guinea in 1997 was 93.9% of GDP. Using a three-to-five year average of the level of investment, rather than a single year value, would ameliorate the effects of this sort of aberrant, temporary situation, and serve as a better indicator of investment as it pertains to long-term economic prospects. Similarly, growth exports may fluctuate wildly from year to year due to temporary shocks, as was the case for Equatorial Guinea in 1997, when real per capita exports grew by no less than 205%. Again, using a three-to-five year average, or, alternatively, the level of real per capita exports, would provide more robust results.

Table 5: Economic	Sustainability	Index.	Equatorial Guinea
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Human Capital Development Index		Dependen	cy index		Index of Macrocco	momic Sust	ainability	
- эпаріс	Levei	Score	Variable	Level	Score	Variable	Level	Score
Gross Enroiment Ratio	64%	5	Ratio of ODA to Total Gov't Revenue (excluding grants)	08%	2	Real Per Capita Export Growth	205%	10
Population % with Access to Safe Water	95%		Total External Debt as % of GDP	84 %	3	Gross Private Investment as a % of GDP	94%	10
Doctors per 100.000	21	4						1,00
Total		5.67	Total		2.5	Total		10.0

- 22. The Economic Policy Stance Index will be significantly expanded in future applications. As was the case for the sustainability index, a significant amount of the data which comprises the original conception of the index was unavailable (see Appendix Table 2). More importantly, the majority of the components of the policy stance index consist of qualitative assessments of various policy areas. Time constraints limited the initial computation of the index to those variables which are quantifiable. In the future, attempts will be made to subjectively assess a broad range of the economic policies of African countries, combining both quantitative and qualitative measures to produce a far more comprehensive indicator of economic policy stance. Such qualitative assessment may be carried out through evaluation and discussion by ECA staff members with expertise in the relevant regions and policy areas. Alternatively, surveys of businesses, policymakers, and/or other informed sources may be undertaken.
- 23. The Annual Performance Trend Index will be improved in later years as reliable annual data becomes available in further areas. To the goals of GDP growth, price stability, and a sustainable balance of payments, we can add full employment, and in the African context, poverty eradication. Unfortunately, reliable annual data on employment and poverty does not exist at this time for the vast majority of African countries. As such data becomes available, measures of employment and poverty reduction will be included in the Annual Performance Trend Index.

IV. Conclusions

24. The initial application of the Economic Sustainability and Policy Stance Indices has produced useful and interesting results as exemplified by the correlation coefficients between the indices and other measures of economic conditions and performance. These strong and significant correlations demonstrate not only the links between sustainability, policy stance, and the other indicators, but also intuitively indicate the veracity of our composite indicators themselves. However, perhaps the most intriguing part of the exercise has been that these results were derived from a limited form of the overall conception if the indices. With the proposed refinements, the Economic Sustainability Index promises to be an authoritative and exhaustive measure of long-term economic prospects. Additional data will make the category indices (Human Capital Development, Transactions Costs, etc.) of interest in and of themselves. The Economic Policy Stance Index, once fully implemented, will be a unique and detailed indicator of the effectiveness of economic policy. The Annual Performance Trend Index provides a convenient single indicator measuring overall economic performance, and will become more robust as employment and poverty data improve. Such measures should prove to be of great interest to policymakers, academics, and other observers of the African economies.

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openaix Table i: List of Variables, Economic Sustainability Index

Tote: Italies indicate variables which have not yet been implemented

Human Capital Development Index

Aducation

- * Aggregate school enrolment ratio
- * Adult illiteracy rate
- * Natural and applied sciences as percentage of total tertiary enrolment
- * R&D scientists and technicians (per 1.000 people)
- * Total number of university graduates in the civil service
- * Total number of engineers and scientists in the civil service

Heaith

- * Population per hospital bed
- * Doctors per 100.000 people.
- * Percentage of population with access to safe water supply

(I) Structural Diversification Index

- * Share in manufacturing as a % of total output
- * Diversification Index
- * Concentration Index
- * Largest share of total exports going to a single trading partner

III) Dependency Index

- * Ratio of ODA to total government expenditure excluding grants
- * Total external debt stock to GDP
- * Debt service ratio
- * Food imports as a % or total imports

IV) Transaction Costs Index

Communication

- * Number of telephone lines per 1,000 people
- * Unmet telephone demand as % or total
- * Internet hosts per 1,000 people
- * Average cost per minute of local telephone call
- * Average cost of telephone call per minute to London, Paris, and Brussels.
- * Number of post offices ver 100,000 people
- * Number of days required for ordinary surface mail to be delivered within a distance of 300 kilometres
- * Number of days for ordinary surface mail to be delivered to/from Europe

Transportation

- * Ratio of paved roads to the country's effective land area.
- * Average cost of overland shipping per kg * km

Itilities

- * Per capita electricity consumption
- * Electric power transmission and distribution losses as % of total
- * Cost per unit of electricity consumption
- * Percentage of population with access to electricity
- * Number of days per month there is electricity supply in main cities
- * Average cost per litre of gasoline
- * Average number of days there is water supply in major industrial cities

Cost of doing business

- * Average number of days it takes domestic investor to process documents/license to set up factory
- * Average number of days it takes foreign investor to process documents/license to set up factory
- * Average cost per plot of land to set up jactory in major industrial cities
- * Average number of weeks/months/years it takes to procure land for business
- * Average number of days it takes a manufacturer to process bank documents to import necessary inputs
- * Average number of days it takes to clear merchandise at the seaport/airport
- * Average hourly wage for unskilled labor
- * Average hourly wage for skilled labor
- * Estimated number of man-hours lost due to labor unrest (work stoppages)
- * Total number of weeks/ months there is civil war in any part of the country
- * Total number of violent political protests in the year

Capacity utilization

* Industrial capacity utilization rate

V) Macroeconomic indicators of sustainability

- * Real per capita export growth rate
- * Gross domestic savings as a % of GDP
- * Gross private investment as a % of GDP

VI) Market and Institutional Development Index

Financial depth and extent of formalization of the economy

- * Ratio of M2/GDP
- * Ratio of currency in circulation to M2 (indicator of pervasiveness of informal sector or lack of use of formal financial system)
- * Proportion of labor force in subsistence farming
- * Number of commercial bank branches per 100,000 people
- * Assets of merchant banks to GDP ratio
- * Assets of insurance companies to GDP ratio
- * Capitalization ratio of the capital market

adicial system and guarantee of property rights

- * Number of court houses per 100,000 people * Number of days/weeks/months/ years it takes to get judgement in a civil suit
- Regional Integration Index $(I\Gamma^{7}$
- VIII) Environmental Index

Appendix Table 2: List of Variables, Economic Policy Stance Index

Note: *Italics* indicate variables which have not yet been implemented, <u>underline</u> indicates qualitative indicators which must be subjectively assessed (and thus have also not yet been implemented)

I) Macroeconomic Policy Index

Fiscal Policy

- * Ratio of budget deficit to GDP
- * Taxes on income and profits (i.e., low-distortion) as a % of total government revenue, with higher percentages getting higher scores
- * Taxes on trade and international transactions as a % of total government revenue, with lower percentages getting higher scores
- * Indirect (i.e., high-distortion) taxes as a % of total government revenue, with lower percentages getting higher scores
- * Proportion of total government expenditure devoted to capital spending and maintenance.
- * Extra-budgetary expenditures as a % of GDP

Monetary Policy

- * Growth rate of real money supply (M2)
- * Spread between the prime lending (nominal) interest rate and the savings deposit rate
- * Real savings interest rate
- * Proportion of banking sector credit going to the government
- * Extent of reforms and conduct of monetary policy through the indirect instruments (eg. market determined interest rates, market-based allocation of credit, etc) rather than solely on directed credit, fixed interest rates, etc.

Exchange rate policy

- * Spread between official exchange rate and parallel market rate
- * Percentage spread between mean exchange rate and highest or lowest rate for the year (exchange rate volatility)
- * Extent of foreign exchange restrictions on long-term capital inflows
- * Extent of interference in the administration of foreign exchange with full current account convertibility; extent to which exchange rate is market determined

Macroeconomic policy coordination

* Effectiveness of coordination of monetary, fiscal and exchange rate policies

II) Policies for sustainable growth and structural transformation

Trade Policy

- * Average tariff rate on imports
 - * Spread between the highest and mean import tariff
 - * Average tariff rate on exports

Essessment of trade policy regime in terms of having insignificant or no quantitative restrictions, absence of discriminatory or ad-hoc exemptions and valuations on the part of the customs officials, and efficiency in terms of timely clearance of goods at the customs office, etc.

Financial sector policy

* Assessment of financial sector policies with regards to the effectiveness of the prudential and supervisory roles of government and independent agencies and their capacity to identify institutions at risk; extent of diversification and competitiveness of the financial sector; absence of dominance by monopolies; corporate governance policies/laws that protect minority shareholders, etc.

Product market policy

* Assessment of government policies to minimize or ensure the absence of stateimposed or sanctioned prohibitions or barriers to entry or exit in major productive and trade activities; ie, the absence of state-supported monopolies and firms having equal access to entry and exit in all products and sectors.

Factor market policy

Assessment of policies to enhance the efficiency of the factor markets- whether there are controls on wages and labor mobility; restrictions on land transfers/transactions; requirements for prior government approval for most investments; significant tax on capital imports; etc.

Administration of public enterprises

* Assessment of policies regarding public enterprise administration on the basis of the extent to which they are run on commercial/ competitive terms, ie, fully self-financing and not dependent on government subsidies, as well as the extent to which they enjoy considerable special privileges, crowd out the private sector with regards to access to bank credit, and quality of management.

Effectiveness of sectoral policies

* Assessment of effectiveness of policies directed towards the development of agriculture (provision of farm inputs- fertilizer, improved seedlings-, marketing arrangements, extension services, irrigation programs, etc) and to industry such as industrial targeting, promotion of competition, and export promotion measures.

Pro-poor policies and targeting

* Assessment of the extent and effectiveness of policies specifically targeted at the poor and vulnerable groups e.g. micro finance programs, rural development programs, urban housing programs, adult literacy programs, and programs targeted at empowering women.

Private and public sector coordination

* Evaluation of the effectiveness of the mechanisms for, and extent of, coordination between public and private sectors in formulating and implementing public policies.

III) Policies for Market and Institutional Development

- * Government expenditure on the Judiciary (as % of total expenditure)
- * Assessment of the degree of independence of the Central Bank in its conduct of monetary policy
- * Assessment of the degree of independence of the judiciary
- * Assessment of the crime and theft rates as indicator of effectiveness of policies towards crime prevention
- * Assessment of policies regarding property rights and rule-based governance in the sense of whether: property rights are well defined by law(s); contracts can be enforced through formal mechanisms; business laws/government regulations are applied selectively or changed unpredictably.
- * Assessment of the budget process in terms of whether public expenditure and investment priorities are established by systematic and objective criteria, and whether systems exist to ensure that expenditures match budget allocations.
- * Assessment of whether there are adequate provisions for in-service training of civil service personnel; competitive incentive structure to attract and retain highly qualified staff in the civil service; and whether promotion in the civil service is merit-based.
- * Assessment as to whether externally audited actual expenditures of government are available within twelve months of the end of the fiscal year.

IV) Policies for Human Capital Development

- * Government expenditure on health as % of GDP
- * Government expenditure on education as % of GDP
- * Government expenditure on research and development as % of GDP

V) Policies for Regional Integration

* Assessment of the extent to which government policies and actions promote regional integration, evaluated on the basis of: implementation of community protocols regarding trade and movement of persons, payment of dues to regional organizations, investment in infrastructure designed to facilitate regional trade, participation in regional security arrangements, harmonization of macro and sectoral policies with other community members

VI) Policies for environmental/ecological balance

* Assessment of the effectiveness of government policies with regards to sewage and rubbish disposal facilities, clear separation of industrial districts from residential areas, re-forestation programs, pollution control, and policies/incentives for population control

Appendix Table 3: Economic Sustainability Index

	Human Capital Development	Structural Diversity	Dependency	Transactions Costs	Macroeconomic Sustainability	Economic Sustainability Index
Algeria	6.00	3.00	3.67	, 4.17	4.33	4.23
Angoia	3.00	1.33	3.57	2.00	5.33	3.07
<u></u>	2.43	 	2.50	2.00	2.67	2.40
Benin	5.40		5.50	:	6.00	5.97
Botswana		: : 3.0 0	4.67	1.67	3.33	2.93
Burkina Faso	2.67	2.67	2.00	4.50	3.33	3.03
Surunai		3.00	3.33	3.17	4.00	3.54
ameroon	4.20	3.00	2.67	3.17	2.33	3.33
Tape Verde	5.00		2.67	2.00	2.00	2.42
Cent.A.R.	3.00	<u> </u>	<u> </u>	2.33	3.00	2.75
Chad	2.00	 	3.67	7.33	2.33	3.00
Comoros	4.00		2.67	3.00	1.67	3.25
Congo D.R.	4.25	3.00	4.33	3.00	<u> </u>	3.53
Congo Rep.	3.80	2.33	3.67	4.50	3.33	3.44
Cote D'Ivoire	3.60	4.00	2.33	3.60	3.67	
Djibouti	4.20	3.00	2.50			3.23
Egypt	5.57	6.33	4.00	4.80	3.00	4.74
Equat. Guinea	5.67	1	2.50	<u> </u>	10.00	6.06
Eritrea			4.50			
Ethiopia	1.67	1.67	2.67	3.20	5.33	2.91
Gabon	4.80	1.67	4.33	4.40	5.00	4.04
Gambia	2.20	1	3.67	1	3.00	2.96
Ghana	3.75	2.67	4.00	3.50	2.00	3.18
Guinea	2.50		3.00	2.67	3.00	2.79
Guinea Bissau	3.80		1.00	3.60	4.67	3.27
Kenva	4.60	4.33	(4.00	3.40	2.67	3.80
	4.00	1	3.50	3.50	6.67	4.42
Lesotho	4.00					
Liberia	7.00	1.50	 			
Libya	3.00	4.33	3.33	1.67	2.00	2.87
Madagascar		2.33	3.00	3.00	2.67	2.90
Malawi	3.50	2.33	2.67	1.67	5.67	3.00
Mali	2.00	0.00	2.00	3.00	2.67	2.65
Mauritania	3.25	2.33	5.00	5.25	3.67	5.08
Mauritius	6.50	5.00	<u> </u>	4.60	3.00	4.29
Morocco	4.17	5.67	4.00			
Mozamoique	3.60		2.67	2.40	3.00	2.92 3.56
Namibia	2.67			5.33	2.67	2.03
Niger	1.60		2.00	2.50	2.00	3.17
Nigeria	4.33	1.33	4.67	2.20	3.33	
Rwanda		3.33	2.00		2.00	2.44
Sao T. & Principe	5.67		1.33		ļ	2.20
Senegai	2.80	3.67	3.67	3.33	3.33	3.36
Seychelles	6.33	1.50	4.67		4.00	4.13
Sierra Leone	2.00	2.00	1.33	2.33	2.33	2.00
Somaiia					<u> </u>	
South Africa	7.20	6.00	6.67	6.33	4.00	6.04
Sudan	3.40	3.50		3.67	I	3.52
Swaziland	4.50	i	4.33		2.67	3.83
Tanzania	3.17	4 00	3.33	2.17		3.17
	r ·	1		2.25	3.00	2.72

Human Capital Development	Structural Diversity		Transactions Costs	Macroeconomic Sustainability	Economic Sustainability Index
5.57	6.33	5.00	4.00	3.67	4.91
2.67	2.00	2.50	2.00	3.33	2.50
3.67	3.33	3.33	3.50	2.33	3.23
4.67	5.33	4.67	4.17	3.33	4.43
3.89	3.29	3.38	3.27	3.5	3.48
	Capital	Capital Development Diversity 5.57 6.33 2.67 2.00 3.67 3.33 4.67 5.33	Capital Development Diversity 5.57 6.33 5.00 2.67 2.00 2.50 3.67 3.33 3.33 4.67 5.33 4.67	Capital Diversity Costs 5.57 5.33 5.00 4.00 2.67 2.00 2.50 2.00 3.67 3.33 3.33 3.50 4.67 5.33 4.67 4.17	Capital Development Diversity Costs Sustainability 5.57 6.33 5.00 4.00 3.67 2.67 2.00 2.50 2.00 3.33 3.67 3.33 3.33 3.50 2.33 4.67 5.33 4.67 4.17 3.33

Human Capital Development Index

Enroi: Gross enroiment ratio, ages 6-23, 1995	70.67	Swaziland 72, Botswana 71, Egypt 69
Natsci: Natural & applied science as % of tertiary, 1995	53	S. Africa 57, Algeria 52, Mozambique 50
R&D: R & D Scientists and technicians per 1000, 1990-6	0.8	S. Africa 1.2, Egypt .7, Mauritius .5
Docs: Doctors per 100,000, 1993	141.33	Egypt 202, Libya 137, Mauntius 85
Water: % of pop. with access to safe water. 1990-6	98	S. Africa 99, Mauritius 98, Tunisia 98
Beds: Population per nospital bed, 1990-4	286	Libya 240, Congo 306, Gabon 313

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Sierra Leon e	59	1	28	2	30	.,			34	į				<u> </u>	
Somana						į	1							1,47	4
South Africa	18	7			57	7	1.2	9	99	7	59	4.077	õ		
Sugan	54	3	31	2	-				50	3	10	2.302	3	919	5
Swaziiand	23	6	72	7	22	2	1		60	3					
Tunzania	32	5	34	2	39	5	1		38	1	4	1.386	1	1,12 3	5
То до	48	3	50	-1	16	2			55	3	6	1.791 7	2	664	6
Tunisia	33	5	67	7	24	3	0.4	5	98	7	67	4.204	5	568	6
. ganoa	38	5	34	2	13	1			46	2	4	1.386	1	1,09 2	5
Zampia	22	6	48	4	1				27	1					
Zimoabwe	15	7	- 3B	7	23	3	:		79	5	14	2. 639 0	3	1,9 5 9	3

STRUCTURAL DIVERSIFICATION INDEX		
Benchmarks		
	7	
Manur: Manufacturing as % of output, 1995	; 26.33	
Div: Diversification Index, 1992	0.684	
Conc: Concentration Index, 1992	0.206	Morocco .16, Tunisia .209, Tanzania .248

	Manut	SCORE	Div	SCORE	Conc	SCORE
*1	9	3	ე.883	2	0.546	4
Algena		2	0.906	1 1	0.912	1
Angoia	3	2	3.300	 		
Benin				 		
Botswana	4	! - 	0.923	 - 	0.623	3
Burkina Faso	19	5 1		1	0.667	2
Burundi	18	5	9.96 2.804	2	0.485	4
Сатегооп	10	<u> </u>	ົ້ວ. 891	 	0.403	
Cape Verde				 		
Cent_A.R.	3	12	3	3		
Chad		! !		 		
Comoros		1		 	0.371	5
Congo D.R.	- 5	2 .	0.8 68	2		3
Congo Rep.	ŝ		0.892	2	0.636	
Cote D'Ivoire	18	5	0.861	2	0.368	5
Djibouti		i i	0.852	3	0.56	<u> </u>
Egypt	25	7	ე.69	7	0.361	5
Equat, Guinea						
Eritrea		1 1		 	0.553	3
Ethiopia	3	1 1	0.941	1	0.557	
Gabon	5	2	0.918	1	0.743	22
Gambia	7	2		1		
Ghana	3	3	3. 9	1	0.465	4
Guinea	5	2		<u> </u>		
Guinea Bissau	7	2				
Kenva	11	3 1	0.808	4	0.305	6

Lesotho	· 16	-				
Liberia			1			
Libva			J.8 87	2	0.809	*
Madagascar	1 12	3	0.799	4	0.285	วั
Maiawi	14	.	0.9 23	1	0.704	2
Malı	7	2				
Mauritania	10	3	0.971	1	0.605	3
Mauritius	23	ĵ	0.834	3	0.332	3
Morocco	17	5	0.754	5	0.16	7
Mozambique						
Namioia	12	3				
Niger	7	2				
Nigeria	3	2	0.907	1	0.934	1
Rwanda	18	5	9.95	1	0.505	4
Sao T. & Principe	i					
Senegai	12	3	0.865	2	0.258	6
Seveneties	İ		0.978	1	0.721	2
Sierra Leone	ີ່ ວີ	2	0.924	1	0.586	3
Somaiia						
South Africa	24	ń	0.693	7	0.378	5
Sudan			0.898	2	0.373	5
Swazijand	:					
Tanzania	7	2	0.858	3	0.248	7
Togo	9	3	0.891	2	0.491	4
Tunisia	18	5	0.67	7	0.209	7
Uganda	3	2	0.931	1	0.561	3
Zamoia	30	3	0.9 32	1	0.787	1
Zimbabwe	: 19	5	0.742	5	0.329	à

DEPENDENCY INDEX

Sencomarks

ODA: ODA as a % of total government revenue excluding grants.	1.7	S. Africa 0.9, Nigeria 2.0, Algeria 2.2
Debt: Total external debt as a % of GDP, 1996		Namibia 11.78, Botswana 11.79, South Africa 18.02
Food: Food imports as a % of total imports, 1996	0	Congo D.R 0, Eritrea 0, Burkina Faso 0

	ODA	in	Score	Debt	'n	Score	Food	Score
Algeria	2.2	0.78	7	58.9	4.08	3	23.3%	1
Angola	16.0	2.77	4	169.8	5.13	1	5.3%	6
Benin	36.8	4.46	2	70.1	4.25	3		
Botswana	3.2	1.16	6	11.8	2.47	7		
Burkina Faso	134.1	4.90	2	27.7	3.32	5	0.0%	7
Burundi	145.5	4.98	1	130.8	4.87	1	11.3%	4
Cameroon	32.6	3.48	3	104.1	4.65	2	7.2%	5
Cape Verde	108.0	4.68	2	5 6.8	4.04	3	16.5%	3
Cent.A.R.	291.7	5.68	1	82.1	4.41	3	10.9%	4
	262.0	5.57	1	75. 0	4.32	3	0.7%	7
	136.2	4,91	2 i	89.5	4.49	2	12.6%	4
	51.8	3.95	3	73.9	4.30	3	0.0%	7
	61.6	4.12	3	237.1	5.47	1	0.8%	7
Cote D'Ivoire	40.0	3.69	3	184.4	5.22	1	15.0%	3
Diibouti	68.1	4.22	2	66.9	4.20	3		
Egypt .	2.5	2.52	5	44.8	3.80	4	17.0%	3
Fouat Guinea	57.8	4.22	2	33.7	4.43	3		
Fritrea	77.3	4 35	2				0.0%	7_
Ethiopia	76.6	4.34	2	85.3	4.45	2	13.0%	4
Gabon	3.4	2.13	5	68.2	4.22	3	9.1%	5
Gambia	52.4	3.96	3	37.4	4.47	2	3.1%	6
Ghana	53.6	3.98	3	81.7	4.40	3	2.7%	6
Guinea	74.3	4.31	2	89.8	4.50	2	8.7%	5
Guinea Bissau	532.0	6.28	1 1	341.4	5. 83	1	25.6%	1

: · · · · · · · · · · · · · · · · · · ·	23.7	3.16	-1	∂9.9	≟ 25	3	6.6%	5
Kenya	23.8	3.17	i	31.8	440	3		
еѕоио	23.0					i		
Libena				·				
Libva	104.6	4.65	2	107.0	4 67	2	5.8%	6
Madagascar		4.65	2	103.8	4 64	2	5.7%	ĵ.
Malawi	128.7		2	108.4	J 69	2	12.3%	.1
Maiı	125.8	4.83		214.2	5.37		14.3%	3
Mauritania	80.6	4.39	2	27.7	3.32	ā	13.1%	4
Mauritius	2.7	0.98	5		4.08	3	11.7%	4
Morocco	73	1.99	5	59.4		1	3.0%	6
Mozambique	299.3	5.70	11	542.2	6.30	7	3.070	
Namibia				11,8	2.47		 	• • • • • • • • • • • • • • • • • • • •
Niger	166.7	5.12	!	78.7	4.37	3	7.3%	5
Nigena	2.0	0.71	7	104.1	4.65	2	<u> </u>	3
Rwanda	527.2	6.27	1	84.0	4.43	2	14.1%	
Sao T. & Principe	780.6	6.66	1	388.2	6. 53		19.0%	2
Senceai	75.6	4.33	2	72.2	4.28	3	3.3%	6
Sevenciles	8.6	2.15	5	39.6	3. 68	4	9.6%	5
Sierra Leone	213.3	5.36	1	119.1	4.78	2	25.9%	11
Somaria								
South Atrica	0.9	-0.06	8	18.0	2.89	_ 6	5.6%	6
Sudan	45.2	3.81	3					
Swaziland	8.2	2.10	5	19.6	2.98	6	20.6%	<u>2</u>
Tanzania	115.9	4.75	2	153.6	5.03	1	1.3%	
Togo	37.8	4.47	2	99.8	4.60	2	20.7%	2
Tanisia	2.3	0.85	-	57.2	4.05	3	7.4%	5
Uganga	110.9	4,71	- 2	57.4	4.05	3		
Zamoia	90.5	4.51	2	173.2	5.15	1	1.9%	7
Zimpabwe	16.4	2.79	4	50.2	4.10	3	1.7%	7

TRANSACTION COSTS/SUPPLY SIDE INDEX	·	
Benchmarks		
Phone: Telephone main lines per 1,000 people, 1996		Mauntius 162, S. Africa 100, Tunisia 64
Intnet: Internet hosts per 1000 people, 1997		S. Africa 30.67, Namibia 2.16, Mauritius 1.84
Phcost: Average cost of local phone call, 1994-6		Egypt .01, Algenia .02, Botswana .03
Phdem: Unmet telephone demand as % of total, 1996	1.09	Burundi 0, Congo .28, S. Africa 3
Elcons: Electric power consumption per capita, 1995	2779.9	S. Africa 3874.1, Libya 3569.3, Egypt 896.3
Elloss: Electric power transmission and distribution loss as % of total, 1995	2	Congo Rep. 0, Congo D.R. 3, Ethiopia 3

	Phone		Score	Intnet	Score	Elcons	ļπ	Score	Elloss	Score	Phoost	Score	Phdem	in	Score
	44	3.7841	6	0.01	1	512.8	6.2398	5	17	4	0.02	7	55.94	4.0243	2
.Siceria	144	3.70-1		0.0.		}									
Angoia	5	1,6094	2	0.02	1	59.9	4.0926	2	28	3					
	6	1 7917	2	0.02	1	43.3	3.7681	1	50	1	0.13	3	14.80	2.6947	4
Benin	1	1					1				0.03	8			
Botswana Burkina Faso	3	1.0986	1	0.04	,						0.12	3			
Burendi	12	0.6931	1	0.01	· ;	1					0.04	6	0.00	<u> </u>	ı)
Cameroon	15	1.6094	2	0.05	1	196.4	5.2801	3	4	7	0.08	4	61.31	4.1160	
Cane Verde	+	1.5557									0.05	5			
Cant.A.R.	3	1 0986	1	0.02	1				i		0.2	2	9.95	2.2975	. 4
Chad	1 1	0		o		!		1	I		0.2	2	15.13	2.7165	-4
		 					1	!			0.2	2			
Congo D.R.	1	1 0	1	บ		132	-1 8828	3	3	7			221.40	5.3999	
Congo D.K.	18	2.0794	3	0.02	1	206.6	5.3307	3	0	7	0.13	3	0.28	-1.2884	10
Cate D I voire	9	2.1972	3	0.17	3	159.3	5.0707	3	4	7			57.42	4.0503	2
		2.1372									0.2	2			
Diibouti	50	3.9120	- 6	0.31	3	∋9 6 .3	6.7982	5			0.01	8	44.20	3.7888	
Egypt		3.3120		1			!				3.01	1	<u>i</u>		
Equat. Cuinea		·				1	1				0.03	6	<u> </u>		
Eritrea		1 0986	1			21.9	3.0864	1 1	3	7	0.03	- 6	111.54	4.7170	
Ethiopia		3.4657	5	1-0	 	736.8	5.6023	- 5	10	6	0.18	2	11.06	2.4035	٤.
Gabon	32	3,4637		i		†		1			0.09	4	I		
Campia		1 3862	2	9 15	1	318.2	5.76 26	4	4	7	0.08	4	39.93	3.6871	2
⊕hana	14			0		1	1,1,1,1,1		i		0.12	3	14.75	2.6911	1
Guinea	2	0.6931		0.09	2	-	 		16	5	0.09	4	13.11	2.5730	4
Guinea Bissau	17	1.9459	3		3	122.8	4 8105	3	1	 	0.06	5	32.45	3.4798	3
Kenya	8	2.0794	3	0.18		22.0	7.0100	-	 		0.04	6	27.50	3.3142	3
Lesotno	9	2.1972	3	0.08	2	<u> </u>	 	 	 	+		1	T	1	
Liberia	Ţ.		Ĺ	!	!	<u> </u>	<u> </u>	<u> </u>	<u> </u>						

'	1	- I		1 !		3569.3	3.1801	7			0.03	5			
.ova	' , - -	1 0986	,	0.03		i							23.71	3.1658	3
!acagascar	14	1 3862	- 1	0.00		 -					0.04	- 3	74.93	4 3 1 6 4	
laiawi		0.6931	1	0.03	;						0.17	1 3			
slair	12		2	0.00		+					0.13	3	10.73	2.3730	
lauriania	4	1.3862	á	1.84	ā	 -					3.06	5	19,49	2.9 700	7
-fauritius	162	5.0875				406.6	5.0078	- 4			0.09		3.94	1.3716	3
Гогосса	45	3,8066		0.32		36.8	4 2017				0.04	5	46.24	3 8338	- :
·lozambique	3	1 0986	- : -	0.02		30.0	4 2017					•	5.86	1.7681	à
aminia	54	3.9889	<u> </u>	2,16	, ,	 			 		0.15	3	5.38	1 5787	ż
Viger	2	0.6931	<u></u>	0.04	<u> </u>				32	2	0.26	2	21.42	3.0641	3
Nigeria	4	3862	2	3		34.8	4.4402	2	32_		0.20	 	E 1.76	3.55.7	
/Wanda	3	1.0986	1	0.01		<u> </u>			}		0.02		+		<u> </u>
ao i. & Principe	Ī			·						5	0.02	1 4	18.81	2.9343	- 3
enegai	11	2.3978	3	0.31	3	90.8	4 5086	2	13	3	0.17	3	19.01	2.90-0	
Sevenades				<u>i </u>			<u> </u>				0.07	-3-	75.59	4 3253	- 1
ета Leone	4	1.3862	2	. 0			ļ		├ ───		0.07		75.58	4.0200	
omalia	1			1		<u> </u>	 		 		0.09	4	3.00	1.0975	÷
.oun Africa	100	4.6051	7	30.67	3	3874 1	8.2620		6	6		3	3.00	1.0313	
Sud an	1			i		37.4	3,6216		19	4	0.03	1 3	+		
Swazijand	i								 		0.14		449.07	4.7712	
Linzania	3	1 0986	1	0.02	1	52.4	3.9589	1	13	5	0.08	4	118.07		3
ioso	6	1 1 7917	2	0.01	1	<u>i</u>			<u> </u>		0.12	3	31.52	3.4508	- 3
Tanisia	34	4 1588	ò	0.02	1	661.4	5.4943	<u> 5</u>	ļ		0.07	1 1	14.02	2.6403	
ganda	2	0.6931	1	0.01	1						0.19	2	15.21	2.7221	+
Zambia	19	2.1972	3	0.27	3	574.3	3.3 531	5	11	5	0.25	2	30.26	3.4097	3
Zimbabwe	15	2.7080	4	0.24	3	738.1	6.6040	5	7	6	0.03	6	87.20	4.2077	

INDEX OF MACROECONOMIC SUSTAINABILITY Benchmarks

Expgr: Real Per Capita Export Growth %. 1997	67.10 Guinea Bissau 111.7, Mali 46.2, Ethiopia 43.5
Say: Gross Domestic Savings as % of GDP, 1997	44.8 Gabon 46.7. Angola 44.2, Botswana 43.5
Inv: Gross Private Investment as % of GDP, 1997	

	Expgr	Score	Sav	Score	Inv	Score
	6.8	4	23,8	4	19.5	. 5
\lgeria			!	7	20.5	5
Angoia	7.0	4	44.2	2	10.0	3
Benin	3.2	3	11.9		10.0	1
3otswana	13.8	5	43.5	7	45.5	
Burkina Faso	11.3	4	9.3	2	15. 5	2
Burundi	24.9	7	2.9	1 1		4
Cameroon	6.3	1	25.6	4	15.6	
Cape Verde	3.8	3	-6.2	1	6.5	3
Cent.A.R.	0.8	2	2.4	1	3.5	3
Chad	13.9	ō	~J.7	11		
Comoros	1.0	2	-3.1	1	14.6	4
Congo D.R.	-14.4	1	6.0	1 1	4.8	3
Congo Rep.	9.0	. 4	-2.4	1	21.9	5
Cote D'Ivoire	10.4	4	18.4	3	11.2	4
Diibouti				<u> </u>		
Egypt	-1.3	2	4.4	3	13.3	4
Equat. Guinea	205.0	10			93.9	10
Eritres				<u> </u>	22.0	5
Ethiopia	43.5	19	12.3	2	11.4	4
Gabott	1.8	3	46.7	7	19.1	5
Gambia	2.5	3		·	9.3	3
Ghanu	-6.5	1	9.4	2	3.7	3
Guines	9.4	4	10.0	2	7.7	3
Guinea Bissau	111.7	10	5.3	1	6.1	3
Kenya	-14.2	1	15.3	3	11.3	4
Lesotho	17.1	5	30.5	5	70.0	10
Libena						<u> </u>
Libva						
Madagascar	-1.9	2	17	1	5.5	3
Majawi	3.0	3	10.0	2	5.2	3
Maii	46.2	10	13.6	3	12.7	4
Mauritania	-17.7	1	6.5	3	15.2	4
Magnus	3.4	3	17.8	3	20.0	5
Могоссо	4.6	3	15.7	3		i
	-8.2	1	14.2	3	19.5	5
Mozamorque	-0.2	2	9.7	2	11.5	4
Namibia	-6.2	1	 	1	4.8	3
Niger		2	28.7	5	8.7	3
Nigeria	-1.8	<u> </u>	20.1			<u> </u>

1.5	·	و.ز.	•	1.3	
-7 1					
7.3	4	:19			4
12.6	ē	3.7	2		5
12		-23.9		6.0	3
	<u> </u>		-		
16.5	, j	17.8	3	<u> </u>	
		i		 	
3.1		5.6		<u> </u>	
13.9	\$				
4.4	3	<u> </u>	2		
-1.0		_25. 5	4		5
	š	3.1	•		1
		3.5	2		3
3.2	3	13.5	3	2.5	4
	-7 1 7 3 12.6 4 2 16.5 	7. 1 7. 3 12.6 5 4.2 16.5 5 3.1 2.3.9 4.4 3 -1.0 13.8 3 0.9	7.7 1 7.3 4 11.9 7.6 5 7.7 4.2 2 2 23.9 16.5 2 17.8 2.6 5 7.7 4.2 2 5.6 3.9 6 4.4 3 70 4.1,0 2 25.5 13.8 3 3,1 0.9 2 3.5	7.1 7.3 4 11.9 2 12.6 5 7.7 2 1.2 1.6.5 5 7.7 2 1.2 1.6.5 5 7.7 2 1.7.8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7.1 7.3 4 119 2.6 5 77 2 25.8 4 2 2 2 2 23.9 16.5 2.3.9 1.6.5 2 17.8 3 2 21.1 2.3.9 2.4 2.3.9 2.1.1 2.3.9 2.4 2.5.5 4 19.7 13.8 3 3.1 10.4 0.9 2.5.5

Appendix Table 4: Economic Policy Stance Index ECONOMIC POLICY STANCE INDEX

	Fiscal	Vionetary	Economic Policy
	Policy	Policy	Stance Index
Algena	4 50		
Angola	7.00	·	
3enin	4.25		
Botswana	4.67	4.00	4.33
Burkina Faso	2.25	-i	
Burunai	3.25	·	200
Cameroon	3.50	3.00	3.25
Cape Verde	2.00	4.67	3.33
Cent.A.R.	2.50	4.33	3.42
Chad	3.00	3.33	3.17
Comoros	2.00	<u> </u>	<u> </u>
Congo O.R.	3.00		100
Congo Rep.	5.75	4 00	4.88
Cote D'Ivoire	3.25		
Djibouti	4.00		
gypt	4.50	á.0 0	4.75
Equat. Guinea	5.50	3.33	4.42
ritrea	4.50		<u> </u>
Ethiopia	3.67	6.00	4.83
Gabon	4.75	4.00	4.38
Gamoia	2.50	5.33	3.92
Ghana	3.00		
Guinea	2.50	3.67	4.58
Guinea Bissau	2.25	3.67	2.96
Kenva	4.50	4.33	4.42
esotno	2.50	<i>≟</i> 67	3.58
ibena			
Libya			
Madagascar	2.25	3.33	2.79
Malawi	3.50	1.67	2.58
Mati	2.25		
Mauntania	4.50		
Mauritius	2.75	5.33	4.04
Morocco	3.50		3.50
Mozambique	3.00		3.00
Namioia	3.50	4.00	3.75
Niger	2.25		
Nigera		3. 33	3.33
Rwanda	2.75		2.75
Sao T. & Principe	3.75	2.67	3.21
Senegal	3.25		3.25
Seychelles		5.33	5.33
Sierra Leone	2.25	2.33	2.29
Somalia			
South Africa	5.25	5.33	5.29
Sudan			
Swazitand	2.75	4.67	3.71
Tanzania	3.50	3. 67	3.58
Togo	2.75		
Tunisia	3.00		
Uganda	2.33	4.67	3.50
	3.50	4.00	3.75
Zambia	4 50	3.00	3.75
Zimbabwe mean	3.45	4.13	3.75

MONETARY POLICY		
MSGr: Growin rate of money supply (M2), 1996		Niger -19. C.A.R9, Chad -5
Savint: Commercial bank deposit interest rate, 1995-6	18	Kenya 22, Gambia 18. Guinea 15
Spread: Spread between deposit and lending interest rates.	1995-7 4.2	Egypt 4. Guinea 4. Ethiopia. Guinea Bissau 4.5

	MSGr	n	Score	Savint	Score	Spread	Score
Magaza	-59.6						
Aigena	-33,0						
Angola	13	2.5649	4	-			
Benin	30.4	3.4144		:	3	5	7
Botswana	5.2	1.5486	3				
Burkina Faso	5.2	3400		-ò	1		
Burunai	10.1			-1	2	10.5	4
Cameroon	-10.1	2.3025	4		4	7	6
Cape Verde	10	1.5892		. 4	3	10.5	4
Cent.A.R.	1.9	3.3286	2	5	4	10.5	4
Chad	27.9		4				
Comoros	9.8	2.2823	1				
Congo D.R.	147.9	4.9965			5	10.5	4
Congo Rep.	15.7	2.7536	3	 		10.0	
Cote D'Ivoire	3.9	1 3609	3	 			
Djibouti	-7.4			 		4	7
Egypt	10.8	2.3795	4	3		10.5	4
Equat, Guinea	42.8	3.7565	t	. 0		10.5	
Eritrea						4.5	7
Ethiopia	9.4	2.2407	5	:3	3	4.5	4
Gabon	17.2	2.8449	3	: 0_	5	10.5	3
Gampia	5. 8	1.7578	Ď	13	7	13	
Ghana	32.6	3.4843	2	:		ļ	
Guinea	3.6	1.2809	i <u>- </u>	5	ð	4	7
Guinea Bissau	48.4	3.8794	1 1	2,	3	4.5	7
Kenya	26.2	3.2657	2	22	8	12.6	3
Lesotho	18.1	2.8959	3	5	4	5	7
Libena							
Libva	1.8	0.5877	1 8	1			
Madagascar	16.2	2.7850	3	0	5	15.6	2
Malawi	39.6	3.6788	1		3	19	11
Mali	24.5	3.1986	3		1	<u> </u>	
	-5.1		i				
Mauritania	7.6	2.0281	ī	:4	- 6	9.8	5
Mauntius	6.6	1.8870	5				
Morocco	19	2.9444	3				
Mozambique	29	3.3672	2	1 3	4	7.5	6
Namioia	-6.6	J.3012	 	1			1
Niger		3.0007	3	-24	1	6.7	6
Nigeria	20.1	2.3887	1 1		 		
Rwanda	10.9		1 1	3	1	7	6
Sao T. & Principe	84.5	4.4367	4			9.5	5
Senegai	11.7	2.4595	4	1 14	6	6.3	6
Seycheiles	14.8	2.6946		3	4	18.1	1
Sierra Leone	29.6	3.3877	2	+	 	1	
Somalia		0.0000		- 	. 5	4.6	7
South Africa	14.3	2.5602		.:	 	+	
Sudan	65.3	4.1789	1 1		5	7.5	6
Swaziiand	16.3	2.7911	3	:1		21.4	+ + + + + + + + + + + + + + + + + + + +
Tanzania	8.4	2.1282	5	12	5		+
Togo	-6.3	1	 	 	 	+	+
Tunisia	13.3	2.5877	4	<u></u>		 	5
Uganda	17.3	2.8507	3		6	9.6	
Zambia	35	3.5553	2	<u>; 3</u>	6	11.7	4 2
Zimbabwe	33.3	3.5055		: 10	5	15.6	1

FISCAL POLICY Benchmarks

Budget: Government budget deficit/surplus excluding grants, 1997	2.3 Mauritania 4.2, Lesotho 2.7, Nigeria 1.4
Inctax: Taxes on income and profits, % of gov't revenue, 1997	66.1 Angola 86.9. Congo Rep. 61.5, S. Africa 49.8
Trdtax: Taxes on trade and int'l trans. as % of gov't revenue. 1997	5.8 S. Africa 3.4. Angola 5.6. Congo Rep. 8.5
ingtax: Indirect (sales, excise) taxes as % of gov't revenue, 1997	18.2 Angola 10.7, Benin 18.4, Gabon 25.6

	Sudget	Score	inctax	i in	Score	Trdtax	Score	Indtax	i ∤n	Score
	Judget	7	31.4	3.4468	4	13.9	6	66.8	4.2017	1
ena	-17.8	3	86.9	4.4647	3	5.6	7	10.7	2.3702	10
goia	-1.2	6	23.5	3.1570	3	45.5	1	18.4	2.9123	7
nin .	-2	5	23.4	3.1310		12.3	6	53.5	3.9796	2
tswana	-8.2	5	20.9	3.0397	2	46.9	1	69.1	4.2355	1
rkına Faso	-6.1	5	23	3.1354	3	24	4	66	4.1896	1
rundi		6	13.7	2.6173	1	17.3	5	52.4	3.9589	2
meroon	-1.2	1	27.8	3.3250	3	41.8	2	47.2	3.8543	2
pe verde	-27.7		19.3	2.9601	2	38	2	74.9	4.3161	1
nt.A.R.	-6.5	5			4	30.3	3	55.2	4.0109	1
ad	-9. 9	4	32.8	3.4904	1	43.1	2	82.1	4.4079	1
moros	-12.5	4	11.2	2.4159				78	4.3567	1
ngo D.R.	-14.4	4	22	3.0910	2	23.1	5 7	34.1	3.5292	4
ngo Rep.	-7.7	5	61.5	4.1190	7	8.5	3	60.9	4.1092	1
ta D'Ivoire	-2.8	6	22.9	3.1311	3	36.5	3_		3.8394	
bouti	-5.8	5	41	3.7135	5	10.0		46.5		3
ypt	-0.9	6	22.5	3.1135	3	12.6	6	40.3	3.6963	4
uat. Guinea	-1.1	6	51.9	4.1255	7	19.8	5	30.9	3.4307	
trea	-13.2	4	22.8	3.1267	3	15.2	6	26	3.2580	5
niopia	-4.9	5	23.9	3.1738	3			43.1	3.7635	3
bon	6	8	10.7	2.3702	1	18.8	5	25.6	3.2425	5
mbia	-7.8	5	23.1	3.1398	3	59.3	1	68.3	4.2239	1
ana	-11,1	4	24.8	3.2108	3	27.2	4	59.8	4.0910	1
inea	-5.9	5	9.5	2.2512	1	45.4	1	41.8	3.7328	3
inea Bissau	-30.9	1	8.4	2.1282	1	28	4	43.8	3.7796	3
uva	-2.9	6	32.3	3.4750	4	14.1	6	53.4	3.9778	2
sotho	2.7	7	15.1	2.7146	1	50.4	1	62.9	4.1415	1
eria								<u> </u>	<u> </u>	
ya				1	1					L
dagascar	-7.8	5	18.7	2.9285	2	52.9	1	78	4.3567	1
llawi	-7.6	5	37.5	3.6243	5	36.9	3	57.4	4.0500	1
li	-7.8	ă	20.3	3.0106	2	49	1	65.2	4.1774	1
uritania	42	7	19.3	2.9601	2	12	6	38.7	3.6558	3
untius	-5.2	5	19.6	2.9755	2	34.3	3	66.6	4.1987	1
rocco	-3.3	6	24.7	3.2068	i 3	27.6	4	61.9	4.1255	1
zambique	-14.2	4	19.2	2.9549	i 2	17.7	5	73.2	4.2931	1
mibia	4.7	5	28.7	3.3568	4	29.9	4	60	4.0943	1
er	-6.1	5	21.1	3.0492	2	47.7	1	64.9	4,1728	1
eria	1.4	7			ı					
vanda	-11.2	4	24.6	3.2027	3	32.1	3	70.1	4.2499	1
o T. & Principe	-54.5	1	35.5	3.5695	4	11.8	6	34.4	3.5380	4
negai	-1,5	6	21.8	3.0819	2	30	4	72.7	4.2863	1
ycheiles	· · · ·				!		<u> </u>			
erra Leone	-7.4	5	17.1	2.8390	1 1	42.2	2	79	4.3694	1
									T	
	-5.2	5	49.8	3.9080	â	3.4	7	37.4	3.6216	3
	V		1				T	"		I
	-2.8	6	27.2	3.3032	3	51:1	1	63.4	4.1494	1
			•							1
						+				1
	~3.4									1
						1.0.4	 			1
						28.2	A			1
										1 3
malia auth Africa dan vaziland nzania go nisia landa mbia mbabwe	-5.2 -2.8 -1.6 -3.4 -6 -7.1 -9.6	5 6 6 6 5	49.8 27.2 34.7 26.7 18.3 14 31.8	3.9080 3.3032 3.5467 3.2846 2.9069 2.6390 3.4594 3.8501	3 4 3 2 1 4	3.4 51.1 30.4 44.3 15.2 28.2 16.7		37.4 63.4 55.2 63.3 59.1 80.1 62.9 44.3		

Bold indicates 1996 data

Appendix Table 5: Annual Performance Trend Index

				MICCY
× 1	TATEMA	PERFORMANCE	TRENU	コハレモス

	Per Capita GDP Growth, 1		Change in relation, 1998 (Score	: Change in Curr. Acct Sal., 1998	Score	Annual Performance Trend Index, 1998
vicena	-3/0	2.3	2.1	- 2.7	-3.3	-7.3	-58
	-1 8%	-: 1	-27.8	3.1	-5.7	-5	-⊽.5
ingoia	. 5%	2.7	-) 5	: 2	0.0	J	1.4
enin	10'5		. 1	4 ز	- 0.6	-9.3	
otswana	2.135	1 5	·-i,3	<u>.</u> , ,	. 3	1.6	2.7
urkina Faso		2.3	-22.0		- 43	-3.8	2
Burunai	126		2.6	-).2	-1 1	-1	1.7
ameroon		0.5	-3.3	1 1	J.7	0.6	3.4
Cape Verde	324	3.5	3	- 6	-1.8	-1.6	2.2
Cent.A.R.	3.3%		-13	3.4	3.0	2.6	3.3
Chad	5.1%	5.1	-0.2	3.1	2.2	1.9	-3
Comoros	-1.2%		-2 /1	- 3	 		-0.1
Congo O.R.	-3.1%	-5.1		-0,8	1.7	1.5	≟.5
Сопда Res.	5.2%	3.6	2,4	:.3	0.7	0.6	3.3
Cote D'Ivoire	3.6%	3.9	-2.6	3	-2.0	-1,8	-2.4
)ji bouti	1.0%	-1.6	1		-0.2	-0.2	2.9
gypt	: 6%	5. 9	3.0	<u>ું</u>		-0.2	â. 4
Eduat, Guinea	2.0%	" ig	2.2	-3.7		3.4	-2.3
thiopia	-2.7%	-4.5	-0.2	3.1	-0.4	-0.4	-1.4
Gabon) 8%	-1.3	i 3.4	-3.1	-3.5	-3.1	1.7
Sambia	1.6%	2.7	-÷ 0	2.3	1.0	0.9	1.7
Ghana Ghana	0.9%	1.6	-5.7	1.9	2.0	1.8	<u> </u>
Guinea	÷ 2%	. 7	-⊋.6	3.2	0.5	0.4	3.7
Gunea dissau	3.5%	5.3		. 10	- 3 6	-8.4	3.3
Kenya	ა%	0.9	i. 5	-5.2	0.7	0,6	0.6
esomo	3%	7.2	2.8	-3.9	-9.0	-7.9	1.4
Libya	-3.8%	-6 3	6.2	5.3	-7. 3	-0.4	-3.4
',fagagascar	: 3%	3.5	4.0	. 3	-1.1	-1	-0.3
	(30		13.9	5.∉⊹	-5,4	-4.7	-2.5
Malawi		3.8	i i	- J. 5	1.8	1,4	2.1
Mali	0.4%	ù.7	2.6	-3.8	-0.5	-0.4	٥
Mauntania	5 2%	3.7	1 2.2	-0.7	1.9	1.7	4.6
Mauntius	- 6%	7.7	: 2	-0,4	-1,7	-1.5	3.4
Morocco	3.5%	5.8	1.3	ù 4	-3.7	-3.2	2
Mozambique		3.3	3	0.6	9.1	0.1	1.8
Namibia	2.0%	0	1.2	-0.4	-0.3	-0.3	-0.1
Niger	0.0%	-3.8	1 - 4	-2.4	-10.7	-9.4	-3.3
Nigena	-0.5%	-0.4	5.1	-2.6	-1.2	-1.1	-4.1
Rwanca	-3.8%			2.7	· · · · · · · · · · · · · · · · · · ·		1.5
Sao F. & Principe	1.1%	1.3	-1.1	-5.1	0.1	0.1	1.8
Senegal	1.2%	3.7	3	-0.1			-3.9
Seveneiles	-3.4%	-5.7	1.5		5.4	4.7	-3.1
Sierra Leone	-2.2%	-3. 6	75.8	-10	0,6	0.5	-0.8
South Africa	-1.4%	-2.3	-2.2	2.7		-0.7	4,1
Sudan	3.6%	9	-15.0	4.9	-0.8		-1.8
Swaziland	-2.3%	-3.8	10.3	3.4	-3.1	-2.7	2.1
Tanzania	1.8%	4.6	-3.1	· · · · ·	-2.2	0	2.7
Togo	3 2%	5. 3	. ⊸ે 6	2.2	0.0	-0.9	2
Tunisia	2.6%	77	1.0	7	-1,0	<u> </u>	0.8
Uganda	.4%	2.4	-2.0)7	-2.5	-2.2	
Zambia	2.9%	1.8	. 3	- 1 6	-5.7	-5	0.8
Zimbaowe	+24	2.3		- 2. 1	0.7	0.6	0.8