Employment & Unemployment Trends in South Africa 1995-2002

Selected findings of the work of the "Employment & Unemployment Statistics Working Group" co-ordinated by the Employment and Economic Policy Research Programme (EEPR), HSRC

Miriam Altman & Ingrid Woolard April 2004

We gratefully acknowledge the participation of all those who have attended the "employment and unemployment statistics" workshops at the HSRC. In addition, we thank [INSERT NAMES]....for comments on the first draft of this document. We are grateful to Debbie Lee and Sihaam Nieftagodien for assistance in compiling the tables in this report.

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Glossary of terms

Working Age Population - all persons aged between 15 and 64

Economically Active Population — all persons aged between 15 and 64 who are working or unemployed

Employed – all persons who engaged in any kind of economic activity for at least one hour in the previous week. This includes unpaid family workers and subsistence farmers.

Strict (official) definition of unemployment – a person is regarded as strictly unemployed if he/she did not work in the previous week, wants to work, is available to begin work within a week and has taken active steps to look for employment or self-employment in the previous 4 weeks.

Expanded/broad definition of employment - a person is regarded as broadly unemployed if he/she did not work in the previous week, wants to work and is available to begin work within a week.

HSRC RESEARCH OUTPUTS

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Executive Summary

Purpose of this Paper

In 2002 the HSRC formed a working group to look at employment and unemployment statistics in South Africa. The group is made up of a number of researchers and sakeholders who share the common goal of wanting to understand the dynamics of labour force participation, employment and unemployment in South Africa. During the past 18 months a substantial body of work has been commissioned, discussed and digested by the group. This document summarizes the key findings and raises topics that need further investigation.

The working group was formed to get a better understanding of employment and unemployment trends in South Africa. There is considerable confusion on the issue with many different trends and figures being put out for public consumption, but with little understanding of what they communicate. The complexity stems from two main issues. First, that SA appears to have undergone substantial restructuring over the past 10 years. Second, the mational statistical agency has also undergone change, with a new orientation toward poverty and household income measures that has absorbed considerable resources. New measurement instruments were introduced and improved over the 1990s. This results in much more inclusive measurement, but less reliability in trend analysis while the tools were being modified. Third, we find that there is some confusion in the way that employment and unemployment trends are reported, and wanted to make a contribution to developing a meaningful set of indicators.

The purpose of this document is to reduce as much as possible the confusion surrounding employment and unemployment statistics. There is much debate about the merits of the statistics, and often incorrect popular assumptions about trends — this detracts from the substantial debates needed about underlying trends and appropriate policy solutions.

- Explaining why there are variations between the different surveys and censuses, to identify the most appropriate measures.
- Offer as consistent a time series as possible, by locating areas where measures are inconsistent
- Address common mistakes in reading the data, and de-mystify reporting variations
- Distinguish between trends that are reliable and those that are not.
- Report on employment and unemployment trends, based on this previous groundwork.
- Identify meaningful indicators for tracking employment and unemployment

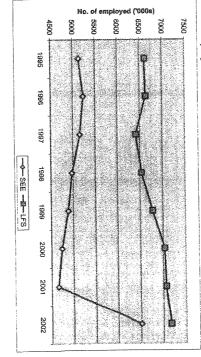
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Data issues

Employment data comes from a range of sources that do not necessarily paint a consistent picture of changes in employment and unemployment. We argue that the household surveys — as opposed to the population censuses or firm-level survey argue that the household surveys measuring key employment trends. Over time, Stats SA have improved and refined the way in which they classify the economic status of respondents in the household surveys. Wherever feasible, we attempt to align the definitions over time to make the employment and unemployment data as comparable as possible.

Formal Employment Trends, according to the LFS & SEE



Labour Force Participation

The labour force (consisting of the employed and the unemployed) has been growing more rapidly than the working age population in the post-apartheid period. While the population aged 15-64 increased by 3.7 million between 1995 and 2023, labour supply increased by 4.3 million people over the same period. We argue that this is a consequence of two effects that we cannot disentangle – a change in what is being measured (as a result of methodological changes in the survey instrument) and a "real" underlying trend brought about by sociological and economic changes, especially among women.

After rising rapidly in the 1990s, the labour force participation rate appears to have stabilised over the last 3 years at about 56%. This is not to say, however, that labour force participation would not rise again if employment prospects improved further or average levels of education rise.

¹ This paper is the culmination of many discussions and workshops held with the Employment Statistics Working Group, convened by the HSRC in 2002 and 2003. The working group has included participants from National Treasury, Statistics SA and the Statistics Council, SA Reserve Bank, Department of Labour, the dit, and COSATU. The final perparation, and particularly adjustments to the employment data, benefited substantially from the support of a smaller technical group including Neva Makgella, Charles Meth, Peter Buwembo and Haroon Bhorat.

² We explain our approach to improving consistency in the data in Appendix A of the report. Unfortunately, the household surveys do not enable an understanding of how employment is linked to other economic variables. For example, the economic surveys of firms are the only way to capture information on productivity.

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Much has been made of the fact that the Labour Force Survey includes in the definition of work "marginal activities" such as one hour in the last week tending animals, growing crops, repairing the farm or catching fish for sale or own consumption. In fact, very few people in the LFS are in fact engaged (exclusively) in these "marginal" activities, with the exception of small-scale farming. For example, only 9000 people are in the "catching fish or wild animals" category in the September 2002 Labour Force Survey. It is also interesting to note that the "one hour per week" minimum is not really an issue. In total, only 117 000 people are working less than 10 hours a week in these "marginal" activities.

Finally, we recommend a set of indicators in tracking employment and unemployment, based on their reliability and significance. The Labour Force Survey is currently the best source of employment and unemployment data, but has the limitation that they cannot be directly compared to output figures so that we can not derive economic indicators such as productivity. However, in the absence of comprehensive firm surveys, they are the best indicators of employment. Indicators could include:

Unemployment

- Compare number of strictly unemployed to broadly unemployed
- Non-working as % of working age population. The concern in using this measure is that it could easily be confused with the unemployment rate, although it is a very different measure. It is nevertheless useful as it offers a better indicator of non-participation.
- Develop measures of vulnerability to determine how excluded or included unemployed are (eg. never worked or worked before? Level of education by age, etc)

Employment

- Total employment, minus subsisistence agriculture
- Private formal non agricultural employment
- Non-formal economy, including informal sector and private households
- Separate reporting of subsistence agriculture
- Earnings in formal and informal economy
- Working (excl subsistence agriculture) as % of working age population

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Background

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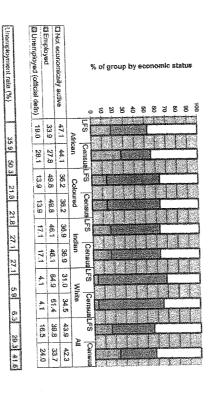
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their circumstances. measuring non-formal economic activity, and respondents had little experience in describing

emphasized that Stats SA make it very clear that the LFS is the official source of labour respectively, almost wholly due to the variations amongst African respondents. It must be that the LFS. For example, the census and LFS finds unemployment rate of 41.6% and 29.3% Census leads to far fewer people being classified as employed (and far more as unemployed) 2001 Population Census conducted a month later. It is clear that the self-description in the depending on whether one makes use of the September 2001 Labour Force Survey or the Figure 1 shows that there are indeed substantial differences in labour market status market information.

Figure 1 Distribution of the working age population by labour market status and race, LFS September 2001 and Census 2001



Household surveys

formal and informal employment and unemployment. However, in order to fulfill the stringent reporting requirements of the IMF, in February 2000 Stats SA introduced a twice-OHS had a detailed labour market module that covered a wide range of issues relating to several years, the annual October Household Survey (OHS) came into existence in 1993. The the survey, this survey fell into disrepute and was abandoned in the late 1980s. After a gap of Current Population Survey. For various reasons, not least the flaws in the sample design of tater became the Central Statistical Service and then Statistics SA) introduced the monthly As a result of the unemployment debate of the mid-1970s, the Department of Statistics (which yearly Labour Force Survey (LFS)

the household surveys are drawn so as to be representative of the provinces or the four age of 10 in the household is questioned about his/her employment status. The samples for The household surveys have a sample size of 30 000 households. Every individual over the population groups.

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employment between 1998 and 1999 and again between 1999 and 2000 are at least in part the of what constitutes "employment" and the questionnaires have probed far more deeply for household surveys have tightened up methodologically in terms of taking a far broader view Some of debate on employment figures relates to wide variations or seemingly sudden increases or decreases in labour force participation or economic activity. Since 1999 the be classified in the LFS as "employed". homemaker had spent an hour tending to her vegetable patch in the previous week she would interview. To continue our example, if this same individual who regards herself as a an individual is engaged in any form of gainful economic activity in the 7 days prior to the "not economically active". In the LFS, a long list of questions is asked to determine whether status. For example, if a person described herself as a homemaker, she would be classified as result of methodological changes. The earlier OHSs relied on self-described labour market information on economic activity. As a result, the dramatic increases in measured

directly with the LFS figures. sufficiently overemphasized that the OHS total employment figures should not be compared OHS would be classified as working (and thus economically active) in the LFS. It cannot be since some people who would have described themselves as economically inactive in the This increase in measured employment also has an effect on the labour force participation rate

of the large number of clusters (areas) that are selected. Nevertheless, the sampling errors systematically sampled households in each area. The sampling errors are quite small because take a sample of 3 000 areas (representative at the provincial level) and then interview 10 estimates obtained from these surveys will have a margin of error. The Labour Force Surveys It has to be borne in mind that the household surveys are sample surveys and thus the any estimate in any given year. Once one goes beyond the aggregate level and tries to discern estimate in any given year. Similarly, we can say with a 95% level of confidence that the true number of workers could be 2,2% (or about 250 000 people) less or more than the point trends in components of employment, the sampling errors become much more significant. number of unemployed could be 4,1% (or about 250 000 people) less or more than the point cannot be ignored. For example, we can say with a 95% level of confidence that the true

Firm surveys

be in widely divergent. These surveys measure different things and are useful for different most common errors has been to report on total employment using the firm-based surveys. purposes - but are not interchangeable as sources of information on employment. One of the Considerable confusion arises when employment sources are directly compared, and found to

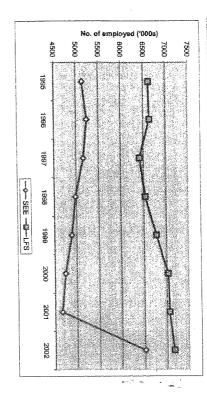
consolidated and streamlined its firm surveys by replacing the various business surveys with: improve coverage and reliability and to reduce the respondent burden, in 1997 Stats SA Prior to 1998, Stats SA conducted 17 monthly or quarterly business surveys. In an effort to

- The Survey of Total Employment and Earnings (STEE) which was later renamed the Survey of Employment and Earnings (SEE); and
- The Survey of Average Monthly Earnings (AME).

The Survey of Employment and Earnings (SEE) is a quarterly survey covering a sample of VAT turnover exceeding R300 000 per annum) 10 183 private and public enterprises in the formal non-agricultural business sector (with a

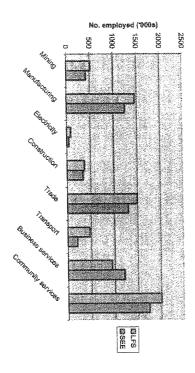
A Survey of Occupations by Race and Gender was also planned but never got beyond the piloting

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From 2002, the coverage of sectors in the SEE improved considerably, so that the variation between the surveys is not as great. Figure 4 shows a comparison of non-agricultural private sector employment in the March 2003 SEE versus the March 2003 Labour Force Survey. The LFS figures are generally higher than those of the SEE – which is to be expected given that only employment in VAT-registered firms is picked up in the SEE. Surprisingly, business services come out significantly bigher in the SEE which suggests that the LFS and SEE coding methods are not entirely comparable.

Figure 4: Sectoral employment, SEE and LFS (Warch 2003)



⁶ That is to say that the extent of the difference in the size of business services is statistically significant, the 95% confidence intervals for the LFS and OHS estimates do not overlap.

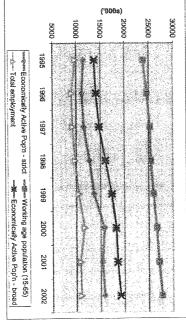
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Labour Supply

Some believe that growing unemployment in SA is substantially caused by the rapidly expanded labour force. Figure 5 shows that the labour force did grow faster than the working age population as whole. The working age population grew by about 2.3% per annum between 1995 – 2002, while the strict labour force grew by an average 5.3%, and the broad labour force grew even faster – at 5.6% average per annum. So, the absolute number of people between the ages of 15 and 64 years (the "working age population) increased by 3,7 million between 1995 and 2002. Over the same period, the size of the economically active population ostensibly grew by 5,4 million. Labour force participation rates (the proportion of the working age population that participates in the labour force) seemingly increased from 46% to 59% between 1996 and 2000 – then strangely subslized thereafter. It is difficult to say whether labour force participation rates might rise again – they were certainly very low. A participation rate of 59% is not too far off an international norm (see United Nations 2004).

Figure 5: Labour Force and Employment



Understanding the underlying reasons for growing labour force participation is important, as it can influence future success at bringing down unemployment rates. Unfortunately, there is very little understanding of what drives participation – whether push or pull factors. There may be a number of explanations for the recorded change in labour force participation.

Most of the recorded increase in labour force participation rates over the period has translated into an increase in unemployment. Between 1995 and 2002, the number of people broadly unemployed increased by 4.1 million, representing more than three-quarters of the increase in

⁷ The year-on-year figures can cause considerable problems in ciforts to closely track employment trends. In particular, the strict labour force is reported to have increased by about 2 million between 1999 and 2000, and then dropped by about 406,000 between 2000 and 2001. Neither of these scenarios is plausible, and yet these are the denominator used in calculating unemployment rates. The break between 1999 and 2000 might be explained by the use of the OHS and LFS for respective years. We do not understand the drop in the subsequent year.

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Chemployment

There is some controversy in South Africa over whether it is more appropriate to use the strict or broad definition of unemployment. The "strict" definition requires that an unemployed person be actively engaged in job search, while the broad definition requires only that a person desires to work and is available to begin work within a short space of time. Table I presents unemployment trends between 1995 and 2003. While the strict definition is the one used officially, the broad rate has important racial biases since the vast majority of discouraged workers are African. Either way, it is immediately apparent that the unemployment problem is one of epic proportions, regardless of how one chooses to define it.

| 1995 | 1995 | 1996 | 1997 | 1998 | 1999 | 1995 1996 1997 1998 1999 2000 | 2001 2002 | 2002 |
|--|-------|-------|-------|------------------------------|------|-------------------------------|-------------|-------|
| STRICT DEFINITION | | | | | | | | |
| % unemployment | 15.9% | 19.7% | 20.7% | 15.9% 19.7% 20.7% 24.4%23.6% | | 26.1% | 29.8% 30.5% | 30.5% |
| Number of unemployed | 1.8m | 2.2m | 2.4m | 1.8m 2.2m 2.4m 3.0m 3.2m | 3.2m | 4.1m | 4.6m 4.8m | 4.8m |
| BROAD DEFINITION | | | | | | | | |
| % unemployment | 29.4% | 36.3% | 37.8% | 29.4% 36.3% 37.8% 40.2%39.8% | | 35.9% | 41.7% 42.5% | 42.5% |
| Number of memployed 4.0m 5.1m 5.5m 6.3m 6.8m | 4.0m | 5.1m | 5.5m | 6.3m | 6.8m | 6.5m | 7.7m 8.1m | e. Em |

We have not addressed possible concerns in the labour participation data, and yet they do have an important impact on unemployment rates and our ability to understand underlying trends. Below we offer two possible ways of tracing unemployment. Figure 7 shows unemployment rates by race. We see rising strict and broad unemployment over the entire period, for all race groups. Because we have difficulty knowing the real versus measured growth in the labour force, we wanted to offer an alternative way of tracking unemployment that does not rely on labour force participation as a mediating factor.

Figure 8 shows the proportion of the working age population [15 – 64] that is *not working*. We see a different trend – for most race groups, the proportion in the working age population that were not working did fluctuate, but was essentially stable. This is particularly surprising for Africans. More than the unemployment figure, the relation to the working age population gives a sense of the extent to which the employed support the rest of the population. Table xxx below pushes this further by calculating two dependency ratios. The first shows the ratio of non-economically active population (non-EAPs) to the economically active population (EAP). We see that in 1996, there were 2.6 non-EAPs in the population for every person that was active, using the strict definition. This measure of dependency fell to 2.3 by 2002. The second measure shows the ratio of non-EAPs to those who are working. This measure of dependency falls from 3.26 to 3.07 over the same period using the strict definition (ic. There were 3.07 non-economically active people who relied on working people in 2002).

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Figure 7: Unemployment, by race (strict definition)

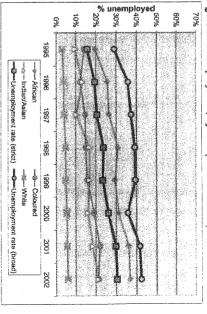
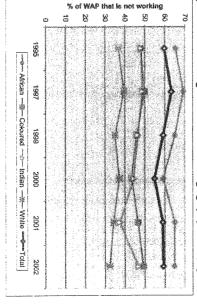


Figure 8: Not working as a % of the working age population, by race



For a discussion of our derivation of unemployment, please see Appendix A.

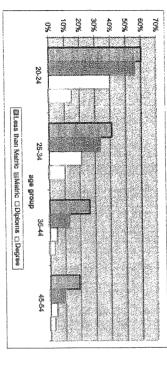
Normally, one measures the % of the working age population that is working. This may give us a better sense of economic participation.

¹⁰ see Altman 2004 for further discussion

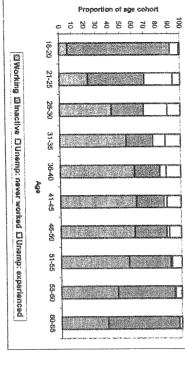
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Figure 11 Unemployment rates by age and educational attainment







Source: LFS 7 (March 2003), Statistics South Africa

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Employment

paper is to suggest appropriate measures to track underlying employment trends. There are the 1990s¹². Some of this debate arises from the way data is presented - so one aim of this two central issues: There is some debate about the interpretation of the employment trends in South Africa from

- monthly), with a minimum number of years being used to ascertain whether or not there is an identifiable trend. This is particularly important during a period of structural change, and particularly in the context where data is sourced from a It is important to track employment on a year-on-year basis (rather than 6range of surveys that are all in the process of being developed. Essentially, we want to understand the employment generating trajectory of the economy, and this requires a periodisation of trends.
- alongside it in some, as yet not well understood, fashion. Formal sector workers agriculture is seasonal and can depend on commodity prices – while it can indicate the fate of rural workers, does not offer a marker of real employment trajectories. through policy decisions in a way that is not the case for the market. Commercial discussion on the meaning and definition of employment bears this out. Generally, formal non-agricultural private sector employment is a good indicator of the grow in a context of stagnant formal sector, this might indicate survivalist can re-invest in family businesses, and so on. However, should the informal sector earn money that they can subsequently spend on a variety of services near to home, If the formal sector grows, one might expect the non-formal sector to grow sector grows as a function of budgetary decisions, and can be directly influenced underlying ability of the economy to create meaningful employment. The public Different types of employment play different roles in the economy – the preceding activities and not a dynamic virtuous circle.

household surveys. These show the importance of periodising employment trends. Figure 13 and Table 2 set out the employment trends from 1995 to 200213 based on the

| operiomen's li | 1995 - 2002 | 2002 | 1997 | 1997 - 2002 | 1998 - 5668 1199WING | 1999 | 1999 - 2002 | 999 - 2002 |
|------------------------|---------------|-------|-----------|-------------|-------------------------|------|-------------|------------|
| Jobs created in: total | MG- Seasol | per | total | Per . | total | per | total | rəci |
| oueen | | annum | | munns | | munn | | HHE |
| Hormal sector | 173 | 25 | 1 084 | 217 | -285 | -71 | 458 | |
| ctor | 1 109 | | 717 | 143 | 1 038 | 260 | 71 | |
| Von-formal, excluding | 648 | 93 | 436 | 83 | 760 | 190 | -112 | |
| subsistence agric | | | | | | | | |
| | 1 282 | 183 | 1 801 | 360 | 753 | 188 | 529 | |
| exclasive apric | 821 | | 1 500 | 300 | 475 | 119 | 346 | |
| | 4 295 | 614 | 614 4 253 | | | | 2152 | |

Appendix A. 12 For a discussion of how we defined employment and allocated workers to different sectors, see

OHSs could not be disaggregated into public and private sector employment The household data is supplemented by the SARB data for public sector employment since the

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employment growth slowed between 1999 - 2002, rising by only 1% and creating an average of only 115,000 net new jobs per annum.

- Formal employment bottomed in 1997, and grew by an average annual rate of about 3% between 1997 2002. This translates into just over 1 million not new formal sector jobs or about 207,806 jobs per annum. About 90% of these jobs were created in private non-agricultural employment growing by an average 4% per annum. Over the broad period, about 150,000 to 200,000 jobs were lost in the public sector.
- Non-formal employment namely in subsistence agriculture, domestic labour, and informal sectors is extremely difficult to assess. These sectors are firstly affected by measurement problems in 2000 where subsistence agriculture and domestic worker employment spikes in a way that does not seem plausible. The most likely trend would see non-formal employment growing by about I million between 1996 1999, and stabilising thereafter. Within this picture, domestic employment is fairly stable, the informal sector grows until 2000 and declines thereafter, and subsistence agriculture appears to have been overstated in 2000.

Formal Employment

Formal employment trends are best distinguished as private non-agricultural formal sector, commercial agriculture and the public sector. Each of these broad sectors has very different dynamics. Moreover, the ability to measure them varies quite considerably.

Employment in commercial agriculture is exceedingly difficult to measure. The clustered nature of commercial farming implies that the standard errors on these employment estimates would be quite large even if there was not a problem of low response rates among farm workers. It is extremely difficult for Stats SA enumerators to gain access to the commercial farms where many farm workers reside.

Commercial agriculture accounted for about 10% of formal employment and 8% of total employment in 2002. After very large measured declines in commercial agricultural employment in the early and mid-1990s, employment appears relatively stable, creating about 335,000 jobs or an average of about 70,000 jobs per year between 1997 and 2002.

Public sector employment has been contracting slowly over the last decade, with a net loss of about 130,000 to 190,000 jobs since 1995. The public sector accounts for about 20% to 24% of total formal employment (or about 15% of total employment).

The private non-agricultural sector is the most important contributor to formal employment. In 2002, it accounted for 70% of formal employment and 53% of total employment. It is a good marker for underlying trends, as it is less affected by seasonal factors than agriculture, and is not directly determined by government budgets as with the public service. Policy can guide the market, but it can't force it to grow.

It is a good marker of the capability of the economy to create reasonably waged employment. Even where wages are low, equivalent workers – in similar sectors, with similar education, earn substantially less in the informal than in the formal sector. Although not well understood, it is reasonable to assume that some portion of non-formal labour arises as a result of the expansion of workers in the formal sector – who in turn buy more goods and services, employ more domestic help, and effect more intra-household transfers to nacro-enterprise lending. If the informal sector grows alongside formal sector expansion, this is some indication of a virtuous circle. However, if the informal sector grows, but the formal sector is not, there is an indication of a vicious circle, of desperation and survival.

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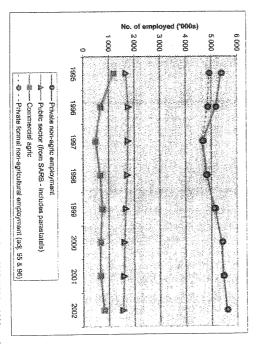
It is also fortunately the most reliable data. The standard error of the aggregate employment estimate is of the order of 1% (Stats SA, 2003 and own calculations), so we can make reference to the overall trend with a 95% degree of certainty.

Adjustments to Formal Sector

The calculation of all employment trends in this paper are sourced from electronic data sourced from Stats SA. The approach to setting up the data is explained in Appendix A. In the first instance, we ensured that the definitions of employment were as consistent as possible. These are the trends represented with solid lines in Figure 14. We then made an amoter of adjustments to the non-formal sector figures, where there were further inconsistencies. These adjustments are explained in the next section. In some cases, these adjustments resulted in the shifting of recorded employment from the formal to the non-formal sector. The adjustments made to the private agricultural formal sector are seen in Figure 14. The main effect is to reduce formal private non-agricultural employment in 1995 and 1996.

Note also that all workers in 'private households' have been included in the non-formal sector

Figure 14: Formal Employment by Broad Sector



Source: calculated from electronic data made available by StatsSA from OHS (1995 - 1999) and LFS (Sept 2000 - 2002). Public sector figures include the parastatals and are sourced from the SA Reserve Bank.

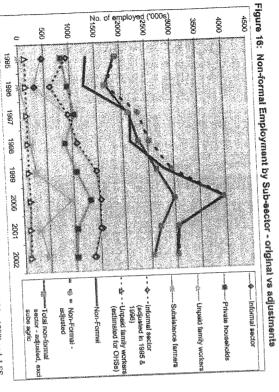
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Non-Formal Employment

employment and sector allocations. Figure 16 presents the effect of these adjustments - which Tracking employment outside of the formal economy has been the biggest challenge. This is partly due to on-going changes made to the surveys as Statistics SA builds its capability in are explained in the box below. data, and have attempted to improve the alignment and consistency in definitions of measuring the non-formal economy. However we have also found some discrepancies in the

We categorise employment outside of the formal sector as "non-formal" employment. This Non-formal employment accounts for about 1/4 of total employment. have different underlying dynamics, and the ability to measure them also varies considerably and other forms of unpaid work. It is useful to separate these forms of employment as they the informal sector', employment in private households, subsistence agriculture,



(Sept 2000 - 2002). Source: calculated from electronic data made available by StatsSA from OHS (1995 - 1999) and LFS

Employment in the informal sector

welding, managing, and practising traditional medicine (Skinner, Devey & Valodia, 2003). It accounts for about 13% of total employment and about 45% of non-formal employment bricklaying, painting, sewing, driving, caring, operating a shop or spaza, hairdressing, The informal sector includes a wide variety of activities such as street vending, gardening,

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More than half of informal sector employment is found in wholesale and retail trade Stats SA have improved their coverage of the informal sector over time. Manufacturing and construction each account for about 12% of informal sector employment. extent to which this may have influenced the numbers, so we have focused on evident actual growth in the sector. We do not know (and are not sure it is possible to know) the of the change in the size of the informal sector is the result of better coverage, rather than sector than the last October Household Survey (OHS 99). Consequently, it is likely that some more women, more poorly educated and more people working shorter hours in the informal Simkins (2003) shows that the first full Labour Force Survey (LFS September 2000) uncovers discrepancies in the data itself. For example,

Adjustments to Non-formal Employment

found in the 1990s be linked to changes in the measurement instrument? There has been some Do the non-formal employment trends reflect real dynamics? To what extent might the growth alignment of data, as follows: make an attempt to resolve discrepancies in definitions and coding to enable a better debate in this regard, and it is likely that it will never be fully resolved. However, we did

Since 1997, the OHS/LFS questionnaires have asked individuals to classify the firms in which According to our definition, a person is regarded as working in the informal sector if all of they work as being in the informal or formal sector. We modify this self-definition slightly. the following criteria are met:

- No UIF payments are being made on behalf of the worker (or the individual doesn't know if payments are being made):
- know if payments are being made); No medical aid payments are being made by the employer (or the individual doesn't
- The employer is not central, provincial or local government or a parastatal; The business is not registered with the Registrar of Companies (or the individual
- The person regards his/her employment as being in the informal sector (or the doesn't know); and
- individual doesn't know).

Employed people working in the informal sector are measured from 1997 forward, but are allow for an informal/formal split among the self-employed, but not for the employed not included in 1995 and 1996. Essentially, the 1995 and 1996 October Household Surveys in subsequent years, the average ratio of self-employed to employed in the informal sector is subtracted from the formal sector employment total. and 1996 (ie we doubled the number). These "additional" informal sector workers are then approximately 1:1. We therefore adjusted the size of the informal sector accordingly in 1995 Therefore, we believe that the informal sector is undercounted in 1995 and 1996. We find that

add it to the OHSs to enable consistency. Note that these numbers are not large – generally Surveys for unpaid workers in non-agricultural activity, we estimate the size of this sector and active in the October Household Surveys. Based on information from the Labour Force We believe that unpaid family workers were not included as working or as economically just over 100,000.

households" - this is described in the next section. households and placing them in a separate category. We have grouped domestic workers and We also adjust the informal sector figures by removing all individuals who work for private workers in formal & informal private household jobs in one category called "private

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Despite some variation, it is safe to say that there are approximately one million workers in private households. This accounts for more than 9% of total employment and about 40% of R8 or more per hour. Interestingly, most private household employees work full-time: fully three-quarters of these workers are employed for at least 35 hours per week the September 2002 LFS was R2.50 per hour while only 5% of workers in this sector earned African women workers. The wages in this sector are very low. The median reported wage in non-formal employment. It is a particularly important source of employment for about 1/4 of

"Marginal" activities

extremely marginal and unpaid activities. Some questions simply require that the respondent worked for one hour in the last week tending animals, growing crops, repairing the farm or catching fish for sale or own consumption. The definition of 'employed' used by Statistics SA is sometimes critiqued for including

scale farming. In total, only 117 000 people are working less than 10 hours a week in these international practice (Aliber, 2003). Secondly, and more importantly, very few people in the LFS are in fact engaged (exclusively) in non-wage activities, with the exception of small-Two points need to be noted. Firstly, this definition of employment is in keeping with

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| CAUTE OF THE STATE OF DECIDED AND CONTRACT OF THE PARTY O | of the prince of the state of t | (4004) |
|--|--|------------------------|
| | Number of people who are | Number of people |
| | only engaged in this activity | working less than 10 |
| | (or combination of these | hours per week in this |
| | activities) | activity |
| Question 2.1 from LNS 6 | | |
| 2.1 d) Help unpaid in a household | 130 000 | 16 000 |
| business of any kind? | | |
| 2.1 c) Do any work on his/her own or the household's plot, tham, food garden, cattle | 347 000 | 93 000 |
| post or krual, or help in growing furm produce or in looking after animals for the household? | | |
| 2.1 f) Do any construction or major sepair work on his/her own home, plot, | 19 000 | 9000 |
| canle post or business or those of the household? | | |
| 2.1 g) Catch any fish, prawns, shells, wild animals or other food for sale or household food? | 10 000 | 2 000 |
| | | |

Source: Source: calculated from electronic data made available by StatsSA from LFS (Sept 2002)

column gives us a subset of the middle column, showing us what number worked less than 10 hours. Note that 2.1.e is simply 'subsistence agriculture' Notes: This includes only people who were 'employed', but not in waged employment - ie. The middle column shows the number of people that responded affirmatively. The right hand They earned in-kind. The left hand column shows the questions in the Labour Force Survey.

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Employment & Unemployment Trends in SA, 1995 - 2002

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Earnings and Employment by Skill level

losers. The picture seems to change from 1997. The main growth in jobs is found in semi-skill and managers is surprisingly flat." over the early 1990s, it would not be surprising that low-and semi-skill workers were the main who were allocated to an 'unspecified' category. Given the loss in jobs in primary industries the trends might have been in 1995 and 1996 due to the large and varying number of people broad skill category in the formal economy – high skill (professionals), semi skilled (technicional) low skill (alamasters economical) and munuscare to the case not contain what proportionate rise in demand for higher skill workers. Figure 17 presents trends in demand by Much has been made of the fall in demand for low and semi skilled workers, and the work, and then for skilled and elementary workers. The growth in demand for professionals (technicians), low skill (elementary occupations), and managers' We are not certain what

do look at relative wages below. in low-skill work is caused by the expansion of service industries. On the second point, we addressed in a separate paper (see Aliman 2004), but it is possible that some of the expansion It is common cause that low skill jobs are not expanding, parily due to the change in industrial structure, and partly due to the relative rise in low and semi skill wages. The first point is

focussing their analysis on the period from the 1980s to early 1990s. (discussion to be high skill wages. Historical analysis by Fallon and da Silva (...) and Lewis (...) showed this, It is widely believed that low skill wages have been rising, both absolutely and relative to

over the period. perspective, Figure 18 shows that low and medium skill wages are either stagnant or falling female managers became better paid over this period. From an employment promotion change in real earnings between 1995 - 2002. There are some exceptions - in particular Figure 18 offers data on average hourly carnings in the formal sector by broad skill level These figures are deflated to 2000 prices. We find that most groups experienced very little

(LFS Sept 2002) It does not necessarily denote high skill personnel - only 35% of managers have a tertiary qualification the category of manager is very imprecise rendering occupational classification difficult (ILO, 1990)

Table 6: Mapping

| Occupation | Skill level | Education level |
|------------------------------|--------------------|---------------------------------|
| Munagers | | |
| Professionals | 4 (highly skilled) | University degree of equivalent |
| Technicians | 3 (skilled) | Non-degree testiary training |
| Clerks | | |
| Service workers | | |
| Skilled agricultural workers | | |
| Craft and related | 2 (semi-skilled) | Secondary school |
| Plant operators | | |
| Elementary occupations | t (unskilled) | Primary school |

[&]quot;Review Haroon's work on this matter. These trends seem strange????

¹⁶ The International Standard Classification of Occupations (ISCO-88) defines skill as "the ability to carry out the tasks and duties of a particular job". It uses four broad skill levels referenced to levels of formal education. Thus, if a job generally requires a particular level of education, then this is the skill level assigned to people in that occupation. For example, to do the work of a clerk is considered to lavel 2, regardless of whether they have a grade 1 or a post-graduate degree require a secondary school education (see Table 6), therefore all clerks are categorized as being in skill

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- The official unemployment rates using the strict definition rose from 15.9% to 30.5% between 1995 and 2002. The number of strictly unemployed (or those that are searching for work) has grown faster than the number of discouraged (those that want to work, but have given up looking).
- Rising unemployment is not simply a function of a too rapid rise in the labour force. It has continued to rise, even though the labour force participation rate stabilised from 2000. This means that there is also a demand side problem.
- Although the absolute number of young people grew between 1995 and 2003, the proportions that are unemployed remains the same. Approximately 75% of the unemployed are still under the age of 35.
- The aggregate data shows rising unemployment amongst those with more education. This masks the age dimension that younger people are better educated and that they stand in a long queue to find work. We find that education does contribute to employability quite substantially. In each age cobort, people with higher educational attainment are much less likely to be unemployed. However, age (and length in the labour market) has a more pronounced effect on employability people with the same educational attainment are much more likely to be employed as they get older (or more experienced).
- This figure is substantially influenced by large measured growth in the labour force. Because we are not sure to what extent labour force growth resulted from measurement changes, we eliminated this effect by looking at the proportion of those not working in the working age population. We found that this figure was quite stable about 60% of the working age population was not working in both 1995 and 2002. This must not be confused with unemployment only some proportion of the working age population participates in the labour market. We also looked at dependency ratios (the proportion of population dependent on those who work) and found that they have declined.
- On average, about 117,000 jobs were created annually over the period of 1995— 2092, as compared to an annual expansion in the labour market by about 400,000 to 600,000.
- Between 1997 and 2002, the formal sector was the more important contributor to employment. The majority of new formal jobs were created (in order of importance) in finance, insurance and IT related industries, retail and wholesale, and in community and social services. There were further jobs created in mining and manufacturing.
- The formal and non-formal sectors have contributed about equally to job creation since 1996, albeit at different points.
- The periods of employment growth can be categorised as follows:
- Falling employment to 1996, particularly with the loss of jobs in agriculture and mining.
- Fairly consistent increases in non-agricultural private sector employment from 1997, creating about 1.1 million jobs to 2000, and slowing thereafter.
- Non-formal employment, especially the informal sector, growing in the second half of the 1990s, growing by about 1 million between 1995 1999. This sector has not been growing since 2000.

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- Demand for lower and middle skilled workers had grown more rapidly than for other groups between 1997 and 2002. This represents a reversal on trends found in the early 1990s, when many low and mid-skill jobs were lost in mining, agriculture and, to a losser extent, in some manufacturing industries.
- The average real wages of low and middle level skilled workers did not rise between 1995 – 2002. This contrasts with the trend found in the 1980s and early 1990s.

We suggest that set indicators be determined in tracing unemployment and employment trends, to more clearly inform policy-makers and stakeholders. The indicators should be chosen on the basis of the following criteria:

- Reliability
- Indicative of underlying trend
- Significant contributors to employment
- Eliminate seasonal fluctuations
- We recommend that the methodology for setting up data, as used in this paper.

We recommend the following indicators be traced, using September Labour Force Survey figures. This has the limitation that they cannot be directly compared to output figures so that we can not derive economic indicators such as productivity. However, in the absence of comprehensive firm surveys, they are the best indicators of employment. Indicators could include:

Unemployment

- Compare number of strictly unemployed to broadly unemployed
- Non-working as % of working age population. The concern in using this
 measure is that it could easily be confused with the unemployment rate,
 afthough it is a very different measure. It is nevertheless useful as it
 offers a better indicator of non-participation.
- Develop measures of vulnerability to determine how excluded or included unemployed are (eg. never worked or worked before? Level of education by age, etc)

Employment

- Total employment, minus subsisistence agriculture
- Private formal non agricultural employment
- Non-formal economy, including informal sector and private households
- Separate reporting of subsistence agriculture
- Earnings in formal and informal economy
- Working (excl subsistence agriculture) as % of working age population

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because of transport problems should be unemployed. immediately apparent why someone who did not work last week (but says he/she has a job)

definition, a person is regarded as working in the informal sector if all of the following criteria are niet: respondents whether they regarded their employment as formal or informal. According to our superior method to that used by Stats SA, but it does have the advantage that it can be used relying on the information supplied directly by the respondent. This is not necessarily a Stats SA. We impose a definition of "informal" (based on firm characteristics) rather than consistently across the surveys. The definition of informal used here is slightly different to the self-classification used by (The first October Household Surveys did not ask

- The person does not regard his/her employment as being in the formal sector;
- No UIF payments are being made on behalf of the worker (or the individual doesn't know if payments are being made);
- No medical aid payments are being made by the employer (or the individual doesn't
- The employer is not central, provincial or local government or a parastatal; and
- The business is not registered with the Registrar of Companies (or the individual doesn't know)

coded as being domestic workers (9131) or gardeners (6113) were classified as working for made between domestic workers and other employees in private households. All people All workers employed by private households were grouped together - i.e. no distinction was

construction work on their farm or attached property or caught fish or animals for food or A worker was coded as subsistence farmer if he/she works on his/her own farm, has done any

Unpaid family workers are people who describe themselves as such

Notes on sectoral coding

The 1995 OHS used a different industrial coding to subsequent surveys. A new variable thus had to be created to ensure consistency in analysis. This variable was then recoded with a range from 1 to 11, using the OHS95 metadata major industry code list. Codes were set to be in line with industry codes used in the OHS99, thereby enabling ease of comparability with the other datasets

All people who described themselves as working for private households and/or as domestic workers were included in the category "employees in private households".

that they work for a wage in informal agriculture. We have grouped them in subsistence agriculture, rather than the informal sector The informal sector excludes people who answered yes to question 2.1.a. in the LFS, meaning

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<u>~</u> Appendix W

| | No. Co. |
|-----------|---|
| | 3.1 Now I am going to ask questions about activities. |
| | What did do most during the last 7 dwys? |
| | 1 = Working full-time (Go to 3.3) |
| · | 2 = Working part-time (Co to 3.3) |
| | 3 = With a job but absent from work (e.g. sick-leave, |
| ndinagen | leave, strike, etc.) |
| ~~~ | 4 = Going to school/college/university, etc. |
| | 5 = Unemployed (but looking for work) |
| ~~~~~ | 6 = Not working, not looking for work |
| ********* | 7 = Housekeeping (including cleaning, cooking, caring for |
| 804FEST | children/disabled/old people in the household, etc.) |
| ***** | 8 = Retired (pensioner) |
| ****** | 9 = Permanently unable to work (Go to 3.34) |

9661

10 = Other (specify in column)

ASK FOR ALL PERSONS WHO DID NOT WORK DURING THE PAST 7 DAYS

| 3.2 During the past 7 days, did (the person) actually have a | full time or part time job even |
|--|---|
| though he/she was absent from work? | |
|] = Yes (Go to 3.3) | |
| 2 = No | *************************************** |
| If "No" in which of the following categories does (the | person) fall? |
| 3 = Going to school/college/university, etc. | |
| 4 = Unemployed (but looking for work) | |
| 5 = Not working, not looking for work (Ge to 3.4) | |
| 6 = Housewife/ homemaker | |
| 7 = Retired (pensioner) | |
| 8 = Permanently unable to work (Go to 3.33) | |
| 9 = Other (specify in column) (Go to 3.4) | |

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3.2.bin which of the following categories does fall? 3.2.a During the past seven days, did actually have a full Ask for all persons who did not work during the past seven days specify... time, part time or a casual/seasonal job even though he/she was absent from work? 2 = NoI = YES 3 = Not working, not looking for work but available for work Go to Q 3.29 7 = Not working, not looking for work not available for work 6 = Permanently unable to work 5 = Retired (pensioner) 4 = Full time homemaker/housewife 2 = Not working (but looking for work) 1 = Going to school/college/university, etc. -> Go to Q 3.3 Other,

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LFS 2 (Sep 2000) - LFS 5 (Fcb 2002)

Why did not work during the past seven days? OR CONDITIONS NOT SATISFACTORY) 05 = RETIRED AND PREFERS NOT TO SEEK FORMAL WORK 03 = SCHOLAR OR STUDENT, PREFERS NOT TO WORK 02 = LACK OF SKILLS OR QUALIFICATIONS FOR AVAILABLE JOBS 01 = HAS FOUND A JOB, BUT IS ONLY STARTING AT A DEFINITE DATE 10 = CONTRACT WORKER, E.G. MINE WORKER RESTING 09 = Cannot find suitable work (salary, location of work 08 = Seasonal worker, e.g. fruit picker, wool-shearer 07 = Too young or too old to work 06 = Illness, invalid, disabled or unable to work 04 = HOUSEWIFE/HOMEMAKER, PREFERS NOT TO WORK IN THE FUTURE ACCORDING TO CONTRACT -> Go to Q 3.8

LFS 6 (Sep 2002) and LFS 7 (Feb 2003)

11 = RECENTLY RETRENCHED 12 = OTHER REASON

Why did not work during the past seven days? 02 = SCHOLAR OR STUDENT AND PREFERS NOT TO WORK 01 = HAS FOUND A JOB, BUT IS ONLY STARTING AT A DEFINITE 05 = ILLNESS, INVALID, DISABLED OR UNABLE TO WORK (HANDICAPPED) 04 = RETIRED AND PREFERS NOT TO SEEK FORMAL WORK 09 = CANNOT FIND ANY WORK 08 = LACK OF SKILLS OR QUALIFICATIONS FOR AVAILABLE JOBS 06 = TOO YOUNG OR TOO OLD TO WORK 03 = HOUSEWIFE/HOWEWAKER AND PREFERS NOT TO WORK 12 = RETRENCHED 11 = CONTRACT WORKER, E.G. MINE WORKER RESTING ACCORDING TO CONTRACT 10 = CANNOT FIND SUITABLE WORK (SALARY, LOCATION OF 07 = SEASONAL WORKER, E.G. FRUIT PICKER, WOOL-SHEARER WORK OR CONDITIONS NOT SATISFACTORY) → Go to Q 3.11

13 = OTHER REASON