



National Accounts Workshop for SADC countries

16-19 June 2009, Windhoek, Namibia

Strengthening statistical capacity-building in support of progress
towards the Internationally Agreed Developments Goals in the
Southern African Development Community region

Benchmarking and rebasing



National Accounts Benchmarking and Rebasing

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Countries
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Lecture Outline

- ◆ rebasing
- ◆ benchmarking
- ◆ relationship between the two
- ◆ when should we rebase?
- ◆ when should we benchmark?



what is rebasing?

- ◆ process of moving volume (constant price) estimates to a new base year
- ◆ may also involve:
 - introducing improved or new data
 - revised current price estimates
 - new deflators
 - new volume indicators
- ◆ we re-reference price and volume indicators to the new base period, and apply these to the new base year/nominal estimates



why rebase?

- ◆ may have more up-to-date benchmark data
- ◆ structural changes in the economy
 - production (e.g. changes in the production function)
 - consumption
 - relative prices
 - appearance of new products or activities/disappearance of old products
 - quality improvements
- ◆ mean the base year weights, the price deflators, and the volume indicators may all be out of date
- ◆ note: need to derive a continuous, meaningful time series of index numbers from series of index numbers with fixed bases



example of rebasing

- ◆ rebasing may have a big effect on the estimates of growth
- ◆ in this example, no new data are introduced



how often should rebasing take place?

can be done every year

- ◆ using the previous year's current price estimates as a base
- ◆ value each year's estimates in the prices of the previous year and turn this into a time series - process of chaining
- ◆ this is recommended as best practice
- ◆ country practice varies



but...

- ◆ not all countries choose to do so
how to choose?
- ◆ recommendation: rebase at least every five years
- ◆ when rebasing, introduce new benchmarks/new data sources if you have them, but don't keep on waiting for a year when you have "good" benchmark data
- ◆ don't wait for a "normal" year
 - does such a thing exist?



what is benchmarking?

two things:

- ◆ introduction of new data to the current price estimates
- ◆ method of ensuring that quarterly estimates sum to the annual estimates (in both nominal and volume terms)



benchmarking of quarterlies to annuals

- ◆ once we have an annual estimate (nominal or volume) that is derived independently of the quarterly data, it is unlikely that the four quarterly estimates will sum to the annual
- ◆ annual data are more reliable, so need to revise the quarterlies
- ◆ there are a number of software packages available to do this (for example, the BENCH program)



benchmarking of annuals

- ◆ new data sources lead to new estimates of some or all components of production and/or expenditure in current prices
- ◆ which gives an annual estimate in which we have more confidence
- ◆ requires revisions
 - to previous years' estimates (backcasting)
 - to following years' estimates
 - to constant price (volume) estimates
- ◆ may also lead to revisions to deflators and volume indicators



how are benchmarking and rebasing related?

- ◆ can rebase without new benchmarks
- ◆ can sometimes introduce new data sources without rebasing (but would you want to ?)



would should a compiler do?

- ◆ what is the practice now?
- ◆ how well are your estimates reflecting reality? do the statistics that you produce make sense?
- ◆ consider availability of new data, resources
- ◆ rebase regularly
- ◆ introduce new benchmark data sources sooner rather than later



what is the process

- ◆ and the effect?
- ◆ example of introducing a new benchmark in current prices



summary

- ◆ rebasing
 - can be done annually
 - should be done at least every five years
- ◆ benchmarking
 - quarterly to annual every time new annual data become available (nominal and volume)
 - annual on a regular basis
 - when new data sources become available – don't "save up" the new sources, use them!!!
 - if no new data sources, still rebase
- ◆ need to revise long-term series (think about the uses/users) - "backcasting"