

Item IV: Strengthening the collaboration between the compilers of macroeconomic statistics in the region Integrated National Accounts and Balance of Payments

Quarterly focus

Economic Commission for Europe Conference of European Statisticians Special Session for EECCA and SEE countries

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Sanjiv Mahajan

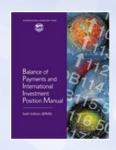
Head of International Strategy and Coordination
Office for National Statistics (UK)
Sanjiv.mahajan@ons.gov.uk

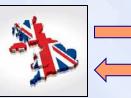
An overview

- Statistical value chain UK
- National Accounts Vision Integrating the way forward
- Measuring UK GDP and National Accounts
 - Life cycle of National Accounts data estimation timeframe
 - Revision time frame GDP estimate for 2013 Q1
 - Evolution of data availability
- NA / BoP where do we get our source data from?
- EU demands for economic statistics
- Integrating National Accounts and Balance of Payments
 - Issues to consider
- Way forward
- Any questions?













Statistical value chain - UK

Compiled by Sanjiv Mahajan March 2014

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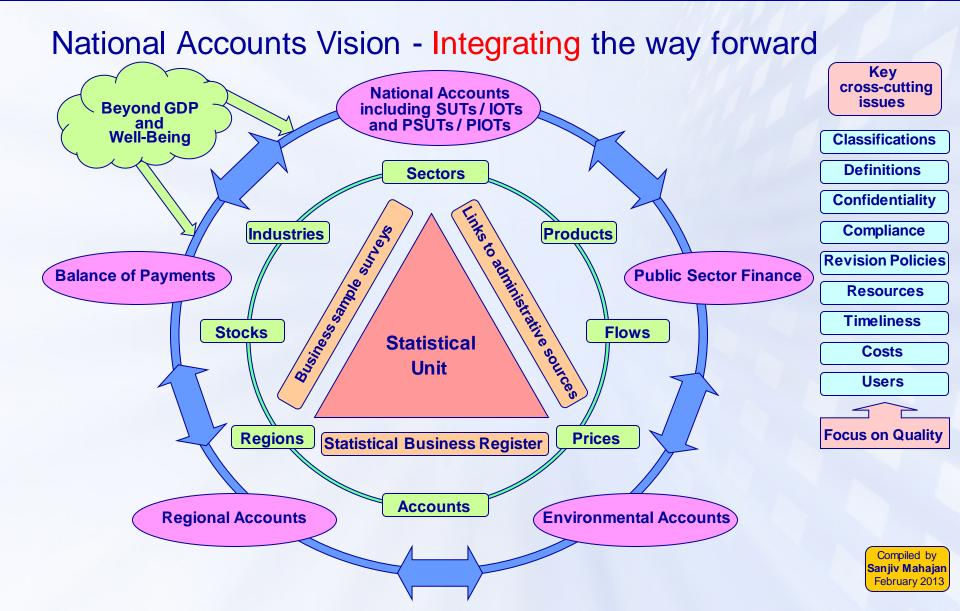
Business Register (and the statistical unit) + Administrative data

- → Data collection, editing and validation processes
 - → Production and publication of survey results and analysis
 - → Census and population
 - → National Accounts (including non-financial **and** financial accounts)
 - → Supply and Use Tables and Input-Output Tables
 - → Labour, prices and social statistics
 - → Regional Accounts and Environmental Accounts
 - → Balance of Payments (including IIP)
 - → Public Sector Finance (including EDP)
 - → Productivity analyses (labour and capital)
 - → Well-being and Tourism Satellite Accounts

These boundaries covering the compilation of economic statistics

/ in each National Statistical
Office differ across countries

- → Labour Accounts and Social Accounting Matrices
- → Other satellite accounts
 - → Regional, impact and policy analyses
 - → CGE and economic modelling



Measuring UK Gross Domestic Product

Life cycle of National Accounts data - estimation timeframe

Use of short term indicators and smaller sample size business surveys

Annual balancing

Annual balancing

Quarter

1st Estimate of GDP

(25 days)

2nd Estimate of GDP

(55 days)

3rd Estimate of GDP and Quarterly National Accounts (85 days) Blue Book

Latest year annual data based on sum of quarterly data and partial benchmarking

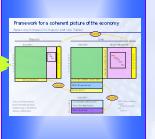
Blue Book 2

Full SUTs framework plus benchmarking short-term indicators



Expenditure

Income



Compiled by
Sanjiv Mahajan
November 2004

Measuring UK Gross Domestic Product

Revision time frame - GDP estimate for 2013 Q1

Initial GDP estimate and revisions through to annual benchmarking

Month	Release		
Apr 2013 May 2013 Jun 2013	1 st estimate 2 nd estimate 3 rd estimate	Preliminary estimate of GDP (after 25 days) 2nd Estimate of GDP (after 55 days) Quarterly National Accounts (after 85 days) (BoP, financial and non-financial accounts also release	ased)
Sep 2013 Dec 2013 Mar 2014 Jun 2014	Quarterly Exercise Quarterly Exercise Quarterly Exercise Quarterly Exercise		Revis
Sep 2014 Dec 2014 Mar 2015 Jun 2015	Blue Book One Quarterly Exercise Quarterly Exercise Quarterly Exercise	1st annual exercise - Partial benchmarking	froi 195
Sep 2015	Blue Book Two	2 nd annual exercise - Benchmarking short- term indicators and balancing through SUTs	Revision from 198

Revisions from 1955

Revisions from 1985

Quarterly GDP Expenditure components

Data availability and estimation

R = Revised B = Benchmarked

Expenditure GDP				Blue	Blue
(% for the year 2013 in the 2015 Blue Book)	T+25	T+55	T+85	Book 1	Book 2
Households + NPISHs 49.3%		45%	85%	100% R	100% B
General Government 15.2%		60%	60%	100% R	100% B
GFCF 12.2%		55%	80%	100% R	100% B
Inventories + Valuables 0.5%		65%	85%	100% R	100% B
Exports of Goods 13.4%		100%	100%	100% R	100% B
Exports of Services 9.4%		60%	80%	100% R	100% B
Total (final expenditure)	Limited data	60%	80%	100% R	100% B

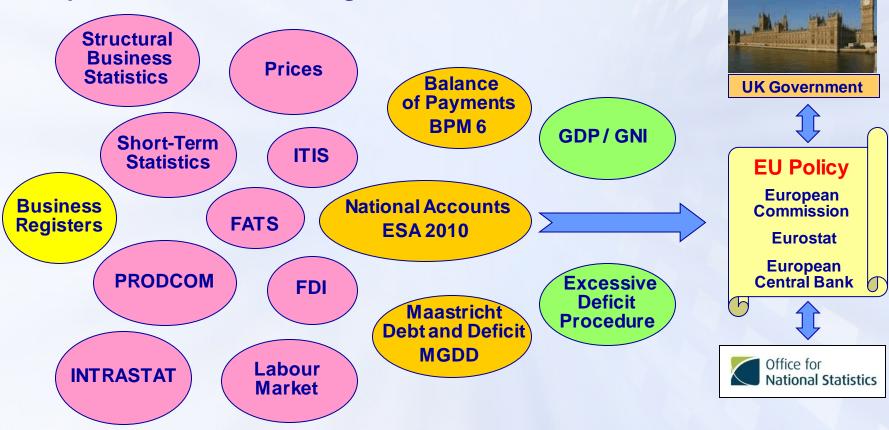
NA / BoP – where do we get our source data from?

Data sources

- ONS Business surveys based on the Statistical Business Register sampling frame
 - Monthly, quarterly, annual and adhoc frequency SBS, STS, PRODCOM, ITIS, FDI, FATS, etc.
- ONS Household based surveys
 - Census, International Passenger Survey (IPS), Labour Force Survey (LFS), Living Costs and Food Survey (LCF), etc.
- Administrative data
 - INTRASTAT and EXTRASTAT data.
 - Pay and profits relating to tax and employment records.
- Other government departments
 - Banking industry data from the Bank of England (Central Bank).
 - Government incomes and expenditures from the HM Treasury (finance ministry).
- Other sources
 - London Stock Exchange, Bank of International Settlements, etc.
 - Company annual report and accounts, regulatory bodies' accounts, etc.

EU demand for economic statistics

Examples of EU Statistical Regulations



Different requirements with different delivery timetables and revision policies

Need to synchronise primary inputs

Compiled by Sanjiv Mahajan September 2012

Integrating NA and BoP – Issues to consider (1)

/mprove

Schedules

- Present UK position:
 - Single integrated timetable for each quarterly or annual exercise covering all institutional sectors and accounts.
- Pre-1990s:
 - Three separate timetables reflecting data deliveries from the BoE / HMT / ONS (previously, CSO) led to incoherent and inconsistent datasets.
- In the full quarterly institutional sector accounts process:
 - Balance of Payments were finalised and published first;
 - followed by GDP parts of the accounts; then
 - the institutional sector accounts down to the old financial surplus/deficit line; and
 - finally, in the fourth month after the respective quarter, the financial accounts and quarterly balancing items.
- Since 1989, all of the above have been produced and published at the same time by the ONS and to a quicker timetable (as a single common dataset).

All working together towards a common deadline

Integrating NA and BoP – Issues to consider (2)

/mprove

Systems

- Single integrated centralised system on a common platform.
- Local systems
 - Process different input data from different sources on different platforms.
- Consistent coding frame using international guidelines
 - Sectors, sub-sectors, transactions, etc. (linking ESA 2010 and ECB labels)
 - Lower level flexibility country specific.
 - Need to ensure lower level matching with clear counterparts.
- Allows consistent methods and implementation of any changes across the systems.
- Geographical system historically, constructed after control totals set being developed
- SDMX transmission of ESA 2010 and BPM 6 datasets.
- Developing a new strategy of how the UK will compile the economic accounts to meet tomorrow's needs.

Coverage, conceptual, quality and balancing adjustments recorded separately

Integrating NA and BoP – Issues to consider (3)

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Statistical unit

- Use of a statistical reporting unit:
 - Enterprise for institutional sector accounts.
 - Establishment for industry accounts.
- Use of a single reporting unit in the UK close to an enterprise unit.
- GDP, Supply and Use Tables, I-O Tables, current account and non-financial accounts:
 - Emphasis on units and structures.
 - Industrial classification of unit important for surveys like ITIS, SBS, STS, etc.
 - Consistent industrial classification of admin data sources like INTRASTAT.
- Institutional sector accounts and financial accounts:
 - Emphasis on stocks and flows.
 - FDI and FATS need the "whole" cross-border flow.

Can we build the "whole" framework using a single common statistical unit?

Integrating NA and BoP – Issues to consider (4)

/mprovide

Harmonised revision policy in the UK

- A single revision policy applied to all institutional sectors, and across all accounts, produced in any particular quarterly or annual exercise.
- UK do not delineate "routine" revision versus "benchmark" revision as the annual benchmark revision is routine.
- Depth of quarters or years open for revision can change depending upon a range of factors.
 - Number of revisions, size of revision, regulatory requirements, etc.
 - Quarterly exercises:
 - March: up to 12 quarters; Jun: 13 quarters; Sept: 14 quarters; Dec: 11 quarters.
 - Annual release (including benchmarking and Supply and Use Tables)
 - Either June or September of each year.
 - Affects all quarters and years in line with agreed Revision Policy.
- Aim:
 - Correct growth rates and levels as well as flows and stocks.
 - Implies stored revisions cannot, or should not, be held back for long.

Different users have different needs all required to high-quality standards (Consistency, coherency and comparability of long-run time series)

Integrating NA and BoP – Issues to consider (5)

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Branch roles and responsibilities

- Seven Divisions in NA Directorate each comprising several branches.
- Branches responsible for:
 - Institutional sectors and key areas like HHFCe, GFCF, imports/exports of goods.
 - Quarterly and annual estimates in current prices, previous years' prices, chainlinked volumes and seasonal adjustment (as appropriate).
 - BoP Compilation and Coordination Branch supply consistent RoW/BoP data for all accounts to the NA Central Coordination and Balancing Division.
- Publication and Dissemination of NA and BoP data:
 - Consistent from a single balanced dataset with the same day release.
 - Publish non-consolidated data but also supply to Eurostat consolidated data.
- Staffing:
 - Economists, statisticians, administrators and project management support.
 - Various internally generated training modules covering concepts to practicalities, including quarterly compilation.
 - Seminars, workshops, etc.

Clear roles and responsibilities underpinned with appropriately skilled staff is key

Integrating NA and BoP – Issues to consider (6)

Data confrontation and balancing

- Use of counterparts and residuals.
- Many staff involved in quality assurance of profile and plausibility feedback loops.
- Balancing is across all sectors including Rest of the World/BoP and all accounts.
 - Improves coherence between the Domestic and Rest of the World accounts
 - Improves quality of the net lending/borrowing estimates for each institutional sector.

Specific data challenges / avenues for quality improvement

- No change in economic ownership Goods sent abroad for processing
- Change in economic ownership Merchanting
- Flows associated with SPEs, etc.
- Remittances
- Extended directional principle and asset / liability principle
- Financial services including Flow of funds (extended financial accounts)
- Balance sheets (non-financial and financial)

ESA 2010 Derogations

Separation of HH and NPISHs institutional sector.

Data for RoW and BoP (including IIP) should align and also align with NA



Way forward

- Integration of various parts of National Accounts is key to improving quality.
- National Accounts and BoP (and IIP) should be integrated, consistent and coherent.
- Summary of issues to consider reflecting UK experience and lessons learnt:
 - Data sources, schedules, systems, statistical unit(s), process revision policy, data confrontation and specific data challenges.
- Future issues
 - NA / BoP Development of HHs, NPISHs and Financial sub-sectors (plus Flow of Funds)
 - ONS Bean Review, Economic statistics transformation programme, etc.
 - EU Harmonised EU Revision Policy, Impact of FRIBS, T+82 schedule, etc.
 - Worldwide Impact of globalisation







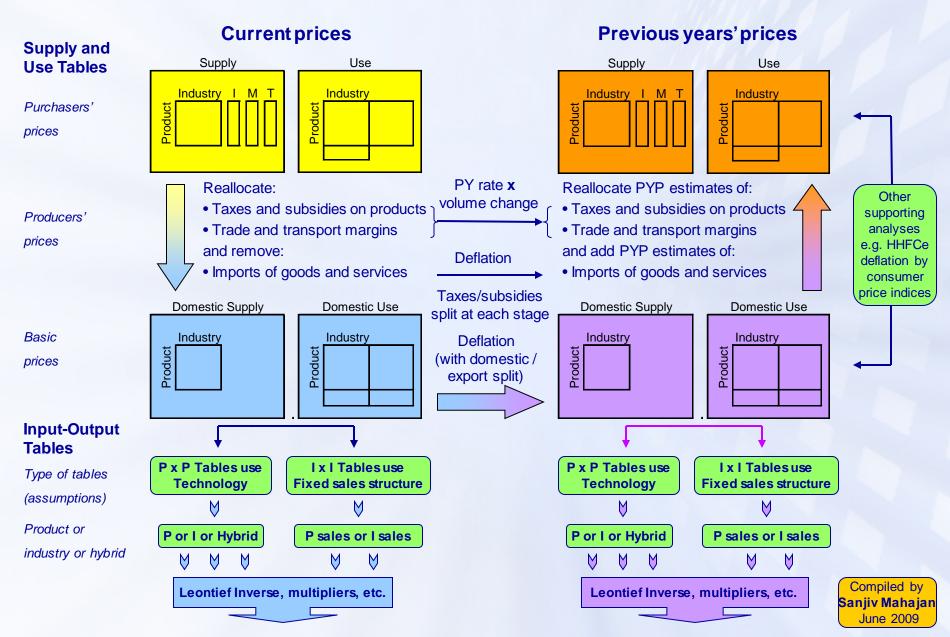
Any questions?

Sanjiv Mahajan

Head of International Strategy and Coordination
Office for National Statistics (UK)

sanjiv.mahajan@ons.gov.uk

An overview of the compilation schematic integrating Supply and Use Tables and Input-Output Tables ("H-Approach")



Framework for a coherent picture of the economy

