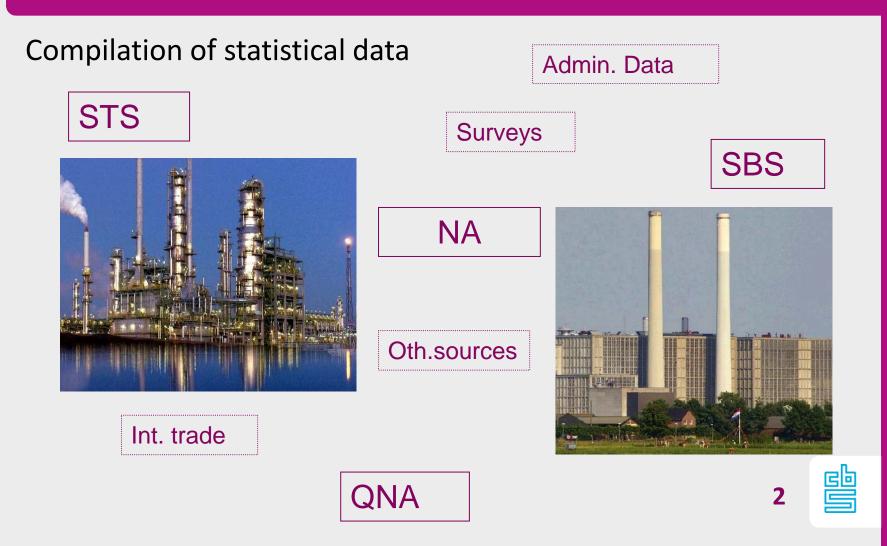
Statistical Business Registers as Backbone

Issues regarding quality



Centraal Bureau or de Statistiek

Economic Business Statistics & National Accounts



Challenge

Demand for:

• Integrated, consistent & coherent statistical information

Reality:

- Ever increasing complexity of organization of global/large/ complex Enterprise Groups
- Difficulties to retrieve statistical data from them
- Various entry points for various Business Statistics
- Increased availability & use of administrative sources
- Complexity concerning small Enterprises; outsourcing & the self employed



Economic Business Statistics & NA; complex system of dependencies



Disadvantages of a stovepipe approach

Affects the quality of statistical output negatively

- Accuracy of individual business statistics output
- Comparability within domains
- Timeliness
- Consistency between statistics

Lack of re-use of data in and between processes

- Administrative burden
- Redundant data storage
- Various "single points of truth"



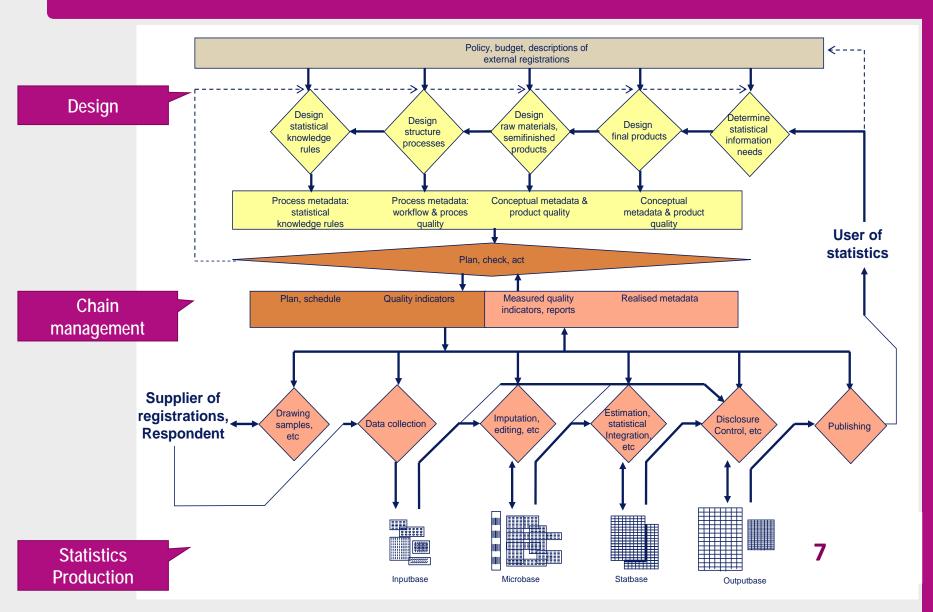
Chain management

Coordination of the various statistical processes by:

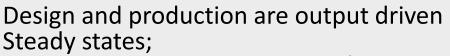
- Processing and designing statistical products from the perspective of the whole chain
- Chain as a set of links between processes, a link is a so called steady state defined in the BA
- Set of management and operating activities aiming for improving cooperation of all actors in the chain



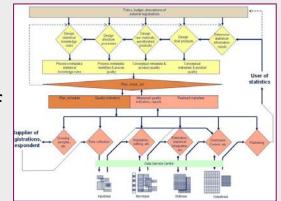
Business Architecture

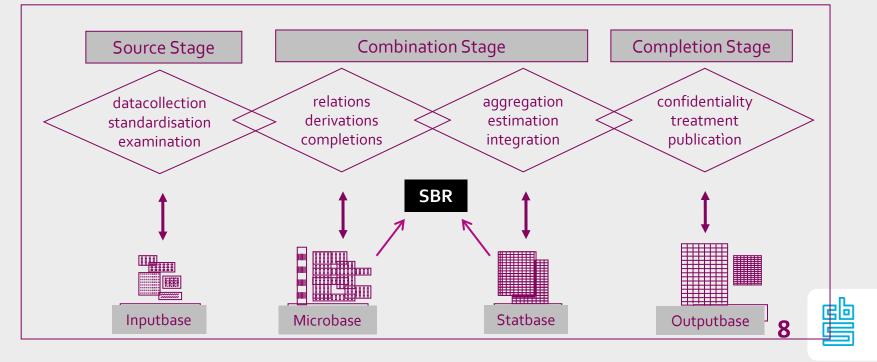


Business Architecture

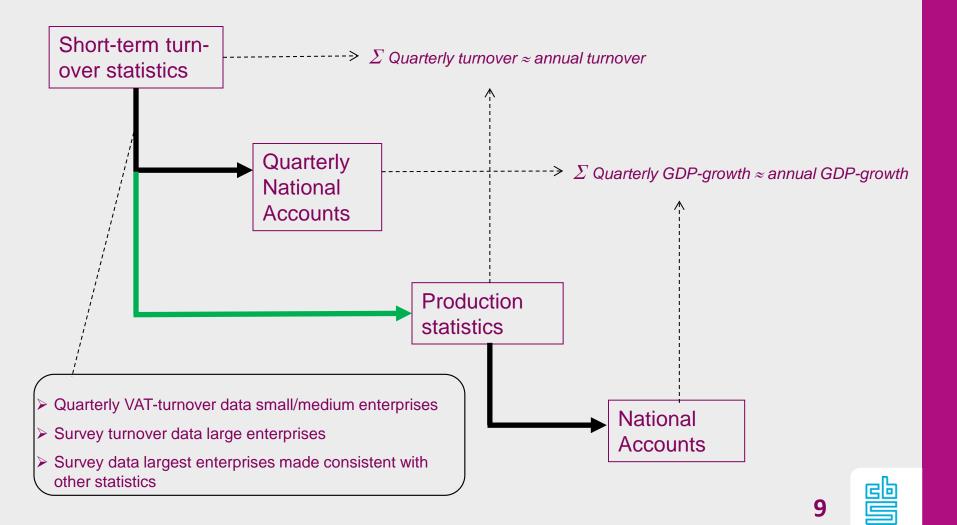


- Accessed by generic services/tools
- Play crucial role in (re)design and production of statistics
- Contain data and metadata





The chain of economic statistics



Chain management; procedures

- Detailed and binding agreements on deliveries in the chain
- Use of statistical business register for **all** statistics involved
- Co-ordinated approach to changes in units, correction of errors et cetera
- Detailed procedures for handling changes, incidents et cetera
- Chain manager and Chain management group in the lead

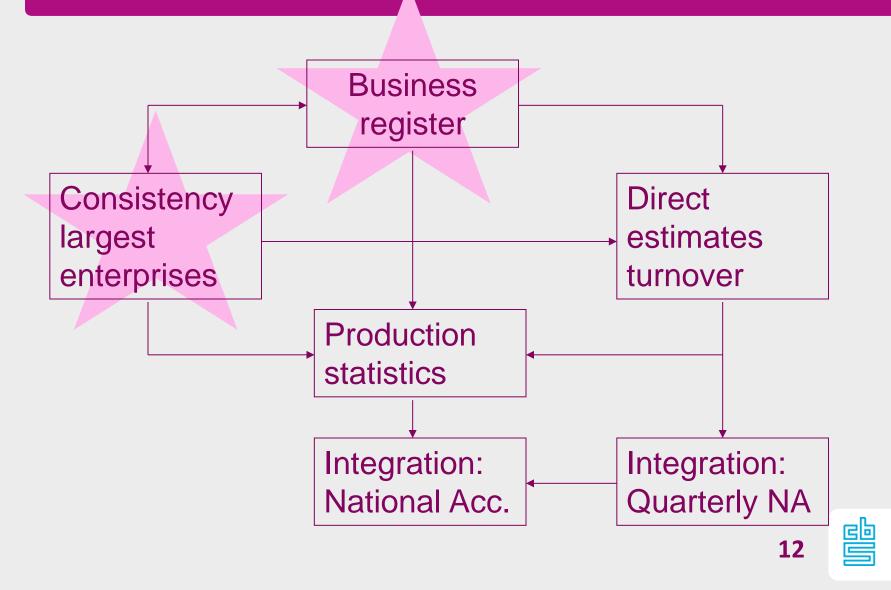


Main benefits of the integrated chain approach

- Structural underestimation of quarterly GDP was solved
- In general less and smaller revisions
- Consistency between statistics & more methodological coherence
- Better use of administrative sources & reduction in administrative burden
- Redundancy in data processing is prevented
- Issues solved in joint consideration and at most cost efficient place in the chain



Main flows in the chain; central role SBR



Governance of quality management

Procedures to maintain Statistical Business Register

- Trade Register & other sources used to daily update SU
- Snapshots and macro validation for output (frozen frame)
- Feedback information from surveys
- Process of profiling

Coordination of adjustments of statistical estimates

- Frame error procedure
- Correct frame errors in SBR for coordinated variables

Prevention of inconsistencies

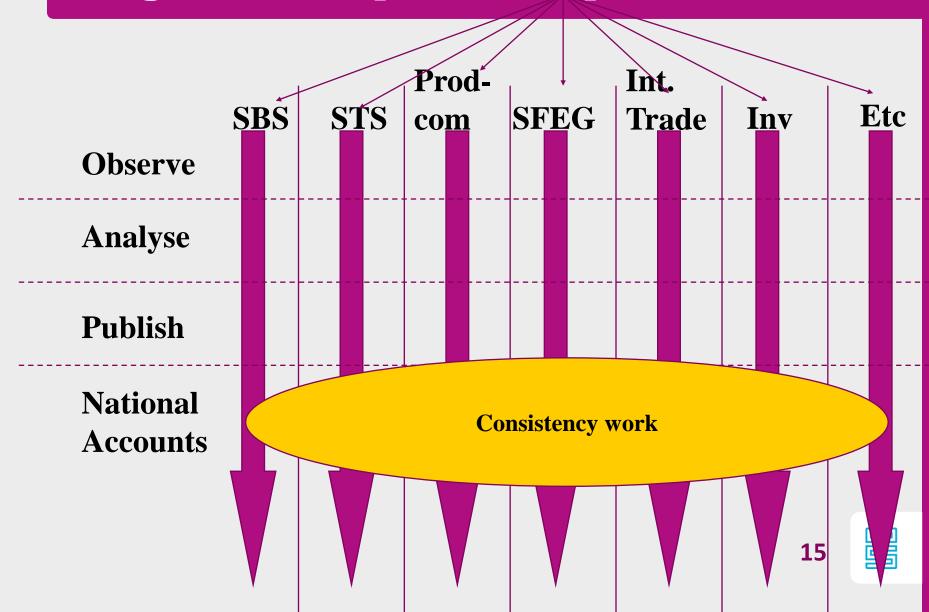
- Deal with large and complex Enterprise Groups in a separate process
- Deliver consistent data for direct use in statistics including National Accounts



Large and complex enterprises

- Organized in a dedicated unit close but aside SBR dept.
- EG selected by size and complexity CSI factor
- Early detection of inconsistencies at micro level
- Consistency rules formulated in collaboration with NA
- Consistent micro data for 15 variables from 10 different statistics
- Becoming increasingly important and complex

Large and complex enterprises

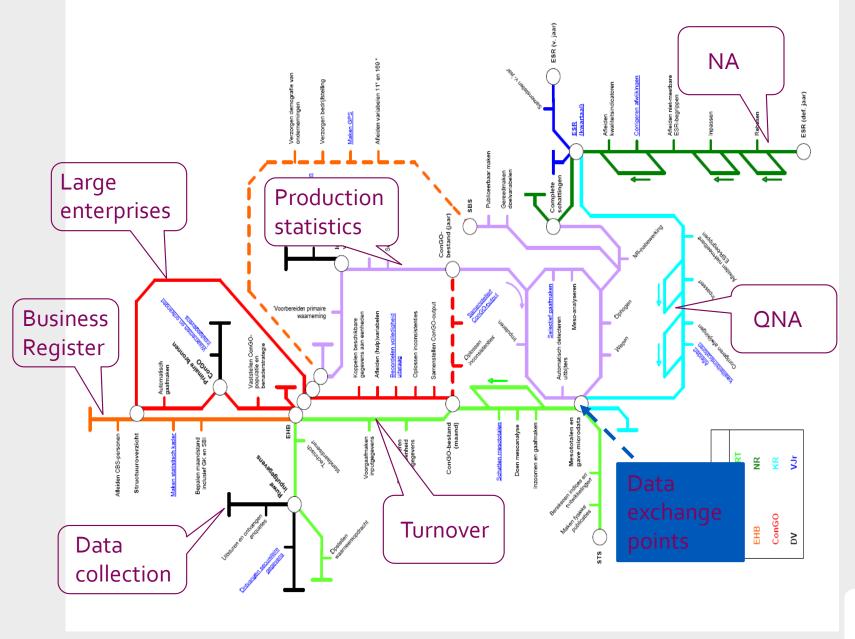


Quality management of the whole chain

Tuning SBR maintenance with statistical processes

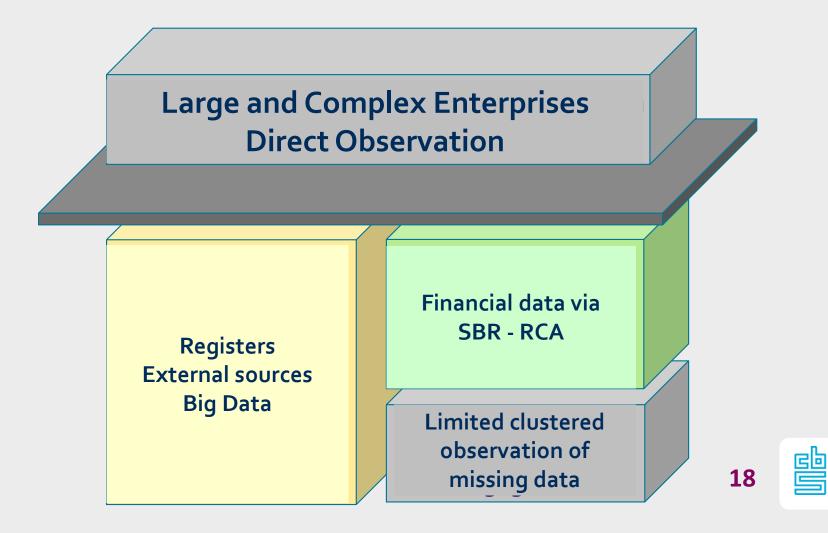
- Derive maintenance subgroups
- Consult statisticians before final frame is derived
- Store changes which affect the structure or the characteristics of a SU (events)
- Check quality of administrative sources in advance (reporting facilities)
- Select 'frozen units frame' from the SBR Live Environment
- Use 'application dates' instead of 'event dates' to determine the reference period for the SUs in the frozen frame for all business statistics involved





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Challenge; mixed mode multisource approach



Concluding remarks

- Compilation of business statistics and NA becomes increasingly complex
- SBR as backbone can play powerful coordinating role within and between statistics
- Beneficial to tune SBR maintenance with statistical processes
- SBR quality effect chain of statistics and vice versa
- Chain management helps to oversee the effect and impact of SBR events
- Chain management is the art of working together
- Multiple sources and various modes will further complicate the compilation of statistics
- Benefits are to be expected from the increased use and availability of administrative sources



Thank You!

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